CATALOG
14

Section B

# SPAENAUR

*Fasteners Right Now®*

## Bolts, Screws & Externally Threaded Fasteners

## Boulons, vis et attaches à filets externes

| | | | | |
|---|---|---|---|---|
| **Screws & Bolts – General Data**<br>Machine Screws Weight Chart – Slotted & Phillips Drive | Inch | **B2** | Pouce | **Vis et boulons – données générales**<br>Tableau de poids des vis mécaniques – tête fendue et cruciforme |
| NEW **Vibra-TITE® Threadlockers**<br>& Liquid Thread Sealants | | **B4** | | **Adhésifs frein-filet Vibra-TITE$^{MD}$** NOUVEAU<br>et scellants liquides pour filets |
| **Machine Screws** | Inch & Metric | **B5, B118** | Pouce et métrique | **Vis mécaniques** |
| **Hanger Bolts; Dowel Screws; Joint Connector Bolts & Nuts**<br>Top Star Adjustable Distance Screw Sets & Bits | Inch & Metric | **B60** | Pouce et métrique | **Boulons de suspension; Vis à goujon; Boulons et écrous de connecteur**<br>Ensembles de vis et bits de distance réglable Top Star |
| **Wood Screws, Particle Board Screws & Lag Screws** | Inch & Metric | **B64** | Pouce et métrique | **Vis à bois, vis pour panneaux de particules et tire-fonds** |
| **Tapcon® Concrete Fastening System**<br>Fasteners & Installation Tools | Inch | **B74** | Pouce | **Système de fixations pour le béton Tapcon$^{MD}$**<br>Attaches et outils d'installation |
| **Tapping Screws & Thread Forming Screws**<br>Slot, Phillips, Square Socket, Hex Socket, Torx®, Hex Head | Inch & Metric | **B78, B177** | Pouce et métrique | **Vis autotaraudeuses et vis de formation de filetage**<br>Fente, Phillips, douille carré, douille hexagonale, Torx$^{MD}$, tête hexagonale |
| **Drive Screws; Trailer, Floorboard, Container Screws**<br>Camtainer® FRP Fasteners | Inch | **B101** | Pouce | **Vis d'entraînement; remorque, plancher, vis de récipient**<br>Attaches «FRP» Camtainer$^{MD}$ |
| **Tamper-Resistant Fasteners & Tools**<br>"Tampruf$^{TM}$", "One-Way", "Spanner" | Inch & Metric | **B103** | Pouce et métrique | **Systeme de vis antivols et artil**<br>«Tampruf$^{MC}$», «One-Way», «Spanner» |
| **Sems Screws; Automotive Screws & Studs** | Inch & Metric | **B117** | Pouce et métrique | **Sems Vis; Vis et goujons automobiles** |
| **Automotive, Specialty & Hex Flange Screws**<br>Tensilok® Metric Hex Flange Serrated Screws | Inch & Metric | **B119** | Pouce et métrique | **Vis pour automobile, spécialisées et hexagonales à rebords**<br>Vis dentelées à bride hexagonale métrique Tensilok® |
| NEW **Self-Clinching Studs**<br>Kwik-Thred® | Inch | **B125** | Pouce | **Goujons autoriveurs** NOUVEAU<br>Kwik-Thred$^{MD}$ |
| **GRIPCO® Weld Screws & Weld Pins**<br>Projection Weld Screws & Weld Pins | Inch | **B128** | Pouce | **GRIPCO$^{MD}$ Vis de soudure et broches de soudure** |
| **Hex Head Cap Screws** | Inch | **B134, B151** | Pouce | **Vis d'assemblage à tête hexagonale** |
| **L•9® Fastening System**<br>Hex Head Cap Screws, Nuts, Washers & Assortments | Inch | **B147** | Pouce | **Système de fixation L•9$^{MD}$**<br>Vis à tête hexagonale, écrous, rondelles et assortiments |
| **Metric Hex Head Cap Screws** | Metric | **B156** | Métrique | **Vis d'assemblage à tête hexagonale métrique** |
| **Unbrako® Socket Head Cap Screws** | Inch & Metric | **B176** | Pouce et métrique | **Vis d'assemblage à tête creuse hexagonale Unbrako®** |
| **Holo-Krome® Socket Head Cap Screws, Hex Socket Shoulder Screws & Hex Socket Set Screws** | Inch & Metric | **B177** | Pouce et métrique | **Vis d'assemblage et vis à épaulement à tête creuse hexagonale, vis de pression à tête creuse hexagonale Holo-Krome$^{MD}$** |
| **Socket Head Cap Screws & Hex Socket Shoulder Screws** | Inch | **B196** | Pouce | **Vis d'assemblage et vis à épaulement à tête creuse hexagonale** |





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| | | | | |
|---|---|---|---|---|
| **12-Point Flanged Head Cap Screws** | Inch | **B210** | Pouce | **Vis d'assemblage à embase à 12 pointes** |
| **Metric Socket Head Cap Screws & Hex Socket Shoulder Screws** | Metric | **B211** | Métrique | **Vis d'assemblage et vis à épaulement à tête creuse hexagonale métrique** |
| **Hex Socket Set Screws** | Inch | **B234** | Pouce | **Vis de pression à tête creuse hexagonale** |
| **Square Head Set Screws** | Inch | **B244, B296** | Pouce | **Vis de pression à tête carrée** |
| **Slotted Set Screws** | Inch & Metric | **B245** | Pouce et métrique | **Vis de pression à tête fendue** |
| **Metric Hex Socket Set Screws** | Metric | **B248** | Métrique | **Vis de pression à tête creuse hexagonale métrique** |
| **Metric Square Head Set Screws** | Metric | **B253** | Métrique | **Vis de pression métrique à tête carrée** |
| **British Threaded Fasteners & Tools** | Inch | **B254** | Pouce | **Fixations à filets anglais et outils** |
| **Hex Head Lag Screws; Carriage Bolts & Assemblies; Square Head Bolts** | Inch & Metric | **B256** | Pouce et métrique | **Tire-fond à tête hexagonale; boulons de carrosserie et assemblages; boulons à tête carrée** |
| **Elevator Bolts & Assemblies; Step Bolts; Plow Bolts; Scraper Blade Bolts** | Inch & Metric | **B262** | Pouce et métrique | **Boulons élévateur et ensembles; boulons d'échelle; boulons de charrue; boulons de lame de grattoir** |
| **U-Bolts & Plates** | Inch | **B265, B305** | Pouce | **Boulons en «U» et plaques** |
| **Eye Bolts & Nuts; Screw Eyes & Hooks; Turnbuckles & Fittings** | Inch & Metric | **B267, B306** | Pouce et métrique | **Boulons à œil et écrous; vis à oeil et crochets; ridoirs et raccords** |
| **Thumbscrews, Wing Screws & Shear-Loc® Thumbscrew Knobs** | Inch & Metric | **B279** | Pouce et métrique | **Vis de serrage, vis à oreilles et Boutons de vis de serrage Shear-Loc[MD]** |
| **Threaded Rods & Studs**<br>Fully Threaded Rods, "Acme" Threaded Rods & Hexagon Nuts, Coupling Nuts | Inch & Metric | **B286** | Pouce et métrique | **Tiges et goujons filetées**<br>Tiges filetées et écrous hexagonaux «Acme», écrous de raccord |
| **Tool Room Necessities**<br>T-Slot Bolts & Nuts; Hold-Down Clamps; Spherical - Washers, Flanged Nuts & Fixture Nuts | Inch & Metric | **B296** | Pouce et métrique | **Nécessités pour la salle à outils**<br>Boulons et écrous en «T»; brides de retenue; rondelles - écrous à embase et écrous de fixation sphériques |
| NEW **Paulin® Deck, Fence & Construction Screws**<br>Square Socket Drive | Inch | **B303** | Pouce | **Vis pour patios et clôtures, vis de construction Paulin[MD]** NOUVEAU<br>Tête creuse carrée |
| NEW **Black Oxide U-Bolts, Strap Plates & Bent Eye Bolts**<br>Nuts Included | Inch | **B305** | Pouce | **Boulons en U à oxyde noir, plaques à courroie et boulons à œillet** NOUVEAU<br>Écrous inclus |
| **Section Index** | | **B307 / B309** | | **Index de section** |





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B

### SIZES
Items with *SPAENAUR* part numbers listed on the following pages are considered to be off-the-shelf sizes. Other special sizes and materials are available, usually in production quantities. Let us know your requirements, and we will gladly quote.

### MATERIALS
Headings on each page indicate the materials we stock—steel, brass, stainless steel, nylon, etc. Other materials, i.e., special stainless, bronze, plastics, etc., are available on special order. Please ensure that the correct material is being ordered for your requirement.

### FINISHES
Standard stocked finishes applying to each are indicated in the headings or footnotes on each page. Other finishes can be supplied special to order at additional cost. Due to environmental reasons and high costs, cadmium electroplate is being phased out by the fastener industry.

### PACKING
All items can be supplied in standard unit packages or in bulk. When ordering very large quantities for manufacturing purposes, it will pay to specify bulk packing.

### METRIC and INCH
Inch products are indicated in **BLACK** print. Metric products are indicated in **BLUE** print.

## *THREADS - MACHINE SCREW AND BOLT SIZES*

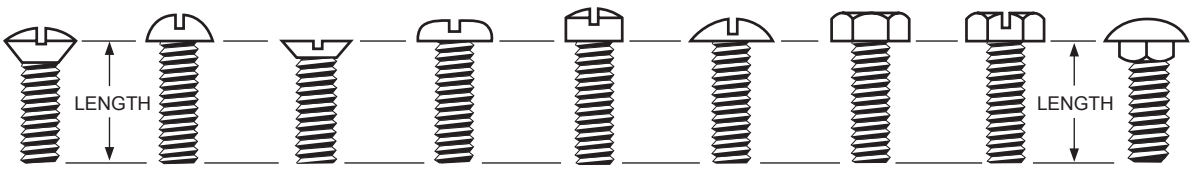
**NUMBER OF THREADS PER INCH - UNIFIED STANDARD**

| DIAMETER OF BOLT (INCHES) | UNC COARSE THREAD SERIES | UNF FINE THREAD SERIES | DIAMETER OF BOLT (INCHES) | UNC COARSE THREAD SERIES | UNF FINE THREAD SERIES | DIAMETER OF BOLT (INCHES) | UNC COARSE THREAD SERIES | UNF FINE THREAD SERIES |
|---|---|---|---|---|---|---|---|---|
| **No. 0** | - | 80 | **1/4** | 20 | 28 | **1-1/8** | 7 | 12 |
| **No. 1** | 64 | 72 | **5/16** | 18 | 24 | **1-1/4** | 7 | 12 |
| **No. 2** | 56 | 64 | **3/8** | 16 | 24 | **1-3/8** | 6 | 12 |
| **No. 3** | 48 | 56 | **7/16** | 14 | 20 | **1-1/2** | 6 | 12 |
| **No. 4** | 40 | 48 | **1/2** | 13 | 20 | **1-3/4** | 5 | - |
| **No. 5** | 40 | 44 | **9/16** | 12 | 18 | **2** | 4-1/2 | - |
| **No. 6** | 32 | 40 | **5/8** | 11 | 18 | **2-1/4** | 4-1/2 | - |
| **No. 8** | 32 | 36 | **3/4** | 10 | 16 | **2-1/2** | 4 | - |
| **No. 10** | 24 | 32 | **7/8** | 9 | 14 | **2-3/4** | 4 | - |
| **No. 12** | 24 | 28 | **1** | 8 | 14 (12)* | **3** | 4 | - |

*Indicates number of threads per inch for Unified Fine (1"-12 thread is U.N.F. standard. However 1"-14 thread is popular demand and generally stocked in place of 1"-12.)

Coarse Thread Series, Class 2A Fit, recommended for general bolt use.

## *HOW TO MEASURE*




The length of screws and bolts is measured from the largest diameter of the bearing surface to the extreme point.

## *CORROSION GUIDE - see pages R15-R18.*



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# STEEL MACHINE SCREWS

## SLOTTED DRIVE and Phillips RECESSED DRIVE

**APPROXIMATE WEIGHT**
**IN KILOGRAMS PER 1,000 PIECES**

| Length | Diameter | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 1/4" | 5/16" | 3/8" | 1/2" |
| 1/8 | .15 | .21 | .28 | - | - | - | - | - | - | - | - | - |
| 3/16 | .19 | .25 | .33 | - | - | - | - | - | - | - | - | - |
| 1/4 | .22 | .29 | .38 | .52 | .66 | 1.04 | - | - | - | - | - | - |
| 5/16 | .25 | .33 | .43 | .58 | .74 | 1.16 | 1.71 | - | - | - | - | - |
| 3/8 | .28 | .37 | .48 | .64 | .83 | 1.28 | 1.87 | 2.60 | 3.81 | - | - | - |
| 7/16 | .31 | .41 | .53 | .71 | .91 | 1.40 | 2.03 | 2.81 | 4.10 | - | - | - |
| 1/2 | .34 | .45 | .58 | .77 | .99 | 1.51 | 2.19 | 3.03 | 4.39 | 7.77 | - | - |
| 5/8 | .41 | .53 | .69 | .91 | 1.15 | 1.75 | 2.52 | 3.45 | 4.97 | 8.72 | - | - |
| 3/4 | .47 | .63 | .80 | 1.04 | 1.31 | 1.99 | 2.85 | 3.88 | 5.55 | 9.66 | - | - |
| 7/8 | .54 | .72 | .91 | 1.18 | 1.48 | 2.24 | 3.17 | 4.30 | 6.13 | 10.60 | 16.72 | - |
| 1 | - | - | 1.02 | 1.31 | 1.66 | 2.48 | 3.50 | 4.73 | 6.71 | 11.55 | 18.13 | 32.25 |
| 1-1/8 | - | - | 1.12 | 1.45 | 1.83 | 2.73 | 3.83 | 5.17 | 7.29 | 12.49 | 19.53 | 34.61 |
| 1-1/4 | - | - | 1.23 | 1.59 | 2.00 | 2.97 | 4.15 | 5.60 | 7.87 | 13.44 | 20.94 | 36.97 |
| 1-1/2 | - | - | - | - | - | 3.46 | 4.81 | 6.47 | 9.04 | 15.33 | 23.75 | 41.69 |
| 1-3/4 | - | - | - | - | - | - | 5.47 | 7.34 | 10.22 | 17.23 | 26.56 | 46.40 |
| 2 | - | - | - | - | - | - | 6.14 | 8.21 | 11.40 | 19.12 | 29.37 | 51.12 |
| 2-1/4 | - | - | - | - | - | - | - | - | 12.58 | 21.02 | 32.19 | 55.84 |
| 2-1/2 | - | - | - | - | - | - | - | - | 13.76 | 22.92 | 35.00 | 60.56 |
| 2-3/4 | - | - | - | - | - | - | - | - | - | 24.81 | 37.81 | 65.29 |
| 3 | - | - | - | - | - | - | - | - | - | 26.71 | 40.63 | 70.02 |

**For approximate weight of Brass Machine Screws add 8 percent to above weights.**

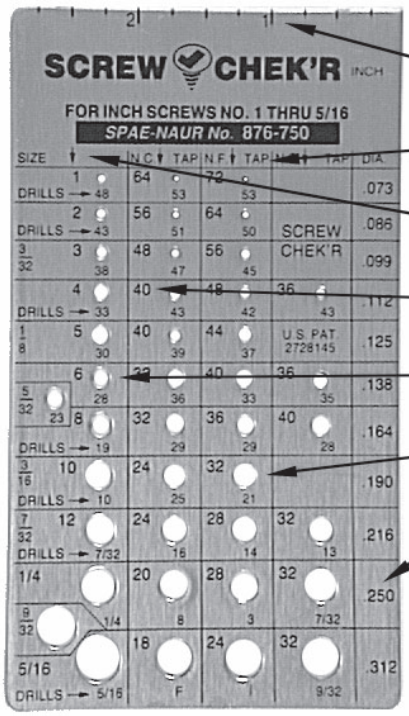
**INCH**

***SPAENAUR No.***
**876-750**

For American and Unified Screws from No. 1 thru 5/16". Also identifies wood screws, sheet metal screws, self-tapping screws, rivets and cotter pins.

SIZE:
5-1/8" x 3" x 3/32"

**PKG QTY. 1**




"TELLS"

- **A** LENGTH
- **B** TAP SERIES
- **C** SIZE (Both Number & Fractional)
- **D** THREADS PER INCH
- **E** CLEARANCE DRILL SIZE
- **F** TAP DRILL SIZE
- **G** BASIC DIAMETER

## SCREW CHEK'R

Clearly and Vividly Marked

INCLUDES:

- Instructions for use and cutting, straightening, cleaning screws.
- Chart of common screw types.
- Chart of decimal equivalents of wire, letter and fractional size drills.

**Material: STEEL, Satin-Chrome Plated**



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NEW

# THREADLOCKER & THREAD SEALANT

**Threadlocker prevents threaded fasteners from coming loose due to shock and vibration**

## 121 MEDIUM STRENGTH THREADLOCKER

**BLUE**



**Removable Medium Strength** anaerobic threadlocker designed for locking threaded **fasteners from 1/4'' to 3/4'' (6-20 mm) in diameter,** that require disassembly with standard hand tools. Exhibits good temperature and solvent resistance.

| SPAENAUR # | SIZE | LOCTITE® # | COLOUR |
|---|---|---|---|
| **800-B80-1W** | 10ml | **24**221 | BLUE |
| **800-B81-1M** | 50ml | **24**231 | BLUE |

COMPETES WITH **LOCTITE 242™**

| | | | |
|---|---|---|---|
| **VISCOSITY (cP):** | **900 – 1500** | **TEMP RANGE:** | -65°F to 300°F |
| **MAX GAP FILL:** | 0.007 in | **FIXTURE TIME:** | 15-20 min (at 72°F) |
| **TORQUE (lbs) BREAK/PREV.** | 120/45 | **SPEC. GRAVITY:** | 1.00 |

## 140 HIGH STRENGTH THREADLOCKER

**RED**



**High Strength** anaerobic threadlocker for maximum security, designed to **permanently lock fasteners up to 1'' (25 mm) in diameter,** that require disassembly with heat and hand tools. Suitable for most applications where disassembly is not required. Exhibits good temperature and solvent resistance. **Was designed for use with FINE threaded fasteners.**

| SPAENAUR # | SIZE | LOCTITE® # | COLOUR |
|---|---|---|---|
| **800-B84-1P** | 50ml | **27**131 | RED |

COMPETES WITH **LOCTITE 271™**

| | | | |
|---|---|---|---|
| **VISCOSITY (cP):** | **500** | **TEMP RANGE:** | -65°F to 300°F |
| **MAX GAP FILL:** | 0.007 in | **FIXTURE TIME:** | 15-20 min (at 72°F) |
| **TORQUE (lbs) BREAK/PREV.** | 250/275 | **SPEC. GRAVITY:** | 1.1 |

## 131 HIGH STRENGTH PERMANENT THREADLOCKER

**RED**



**High Strength Permanent** anaerobic threadlocker for maximum security, designed to **permanently lock up to 1'' (25 mm) in diameter,** that require disassembly with heat and hand tools. Exhibits good temperature and solvent resistance. **Designed for use with COARSE threaded fasteners.**

| SPAENAUR # | SIZE | LOCTITE® # | COLOUR |
|---|---|---|---|
| **800-B82-1X** | 10ml | **26**221 | RED |
| **800-B83-1A** | 50ml | **26**231 | RED |

COMPETES WITH **LOCTITE 262™**

| | | | |
|---|---|---|---|
| **VISCOSITY (cP):** | **1200 - 2400** | **TEMP RANGE:** | -65°F to 300°F |
| **MAX GAP FILL:** | 0.007 in | **FIXTURE TIME:** | 15-20 min (at 72°F) |
| **TORQUE (lbs) BREAK/PREV.** | 200/250 | **SPEC. GRAVITY:** | 1.1 |

## 460 HIGH TEMPERATURE STAINLESS STEEL THREAD SEALANT

**WHITE**



**High Temperature** Stainless Steel thread Sealant, designed to fill the space between threaded metal parts, which sets fast to give an instant low pressure seal of 100 psi and a high pressure seal when fully cured. This high strength product provides 100% sealing capability and does not shrink after curing, unlike more traditional solvent based pipe dopes. For repairs, parts **may be disassembled with basic hand tools.** Contains PTFE.

| SPAENAUR # | SIZE | LOCTITE® # | COLOUR |
|---|---|---|---|
| **800-B85-1Y** | 50ml | **56747** | WHITE |

COMPETES WITH **LOCTITE 567™**

| | | | |
|---|---|---|---|
| **VISCOSITY (cP):** | **Paste** | **FULL CURE TIME:** | 24 hrs (at 68°F) |
| **MAX GAP FILL:** | 0.012 in | **TEMP RANGE:** | -65°F to 400°F |

## RESEALABLE BULLET TUBES OF THREADLOCKER

Popular Vibra-TITE bullets conveniently sized for small projects. With this bullet, **you get more than just 1 shot,** providing up to 15 applications in each resealable tube.

**Bullet Tubes are perfect for small projects & Tool Kits!**

| SPAENAUR # | SIZE | DESCRIPTION | COLOUR | COMPETES WITH LOCTITE® # |
|---|---|---|---|---|
| **800-B89-1K** | 2ml | 131 Permanent Strength | RED | 262™ |
| **800-B86-1C** | 2ml | 121 Medium Strength | BLUE | 242™ |

**RED** **BLUE**



SAFETY & TECHNICAL data sheets available online @ spaenaur.com



All specifications subject to change without notice. E&OE.
LOCTITE® is a register trademark and 242™, 262™, 271™, 267™ are trademarks of Henkel Corp. USA

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# STEEL

ASME B18.6.3

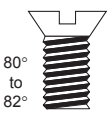
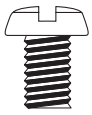
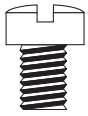
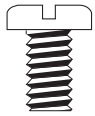
## INCH Sizes

U.N.F. (Fine Thread)
U.N.C. (Coarse Thread)

**FINISH: ZINC PLATED**

**PACKING: Contact Sales Desk For Package Quantities**
**ORDER:** By ***SPAENAUR*** NUMBERS from the following Master Charts.

B

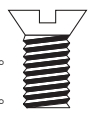
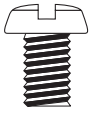
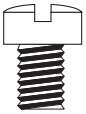
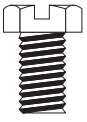
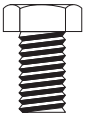
| SIZE | |  |  |  |  |  |
|---|---|---|---|---|---|---|
| **DIA.** | **L.** | **ROUND** | **FLAT** | **BINDING** | **FILLISTER** | **PAN** |
| **0-80 UNF** | 1/8 | | | | **MS-292** | |
| | 1/2 | **MS-1013** | **MS-485** | | | |
| | | | | | | |
| **1-64 UNC** | 3/16 | | | | **MS-293** | |
| | 1/4 | **MS-457** | | | **380-761** | |
| | 1/2 | **MS-458** | **MS-460** | | | |
| **1-72 UNF** | 1/8 | | **MS-1324** | | | |
| | 3/16 | **380-789** | | | | |
| | 1/4 | | | | **MS-294** | |
| | 1/2 | | | | **MS-1003** | |
| **2-56 UNC** | 1/8 | **MS-35** | | **MS-1212** | **MS-112** | |
| | 3/16 | **380-F12-1K** | **MS-445** | **MS-1273** | | |
| | 1/4 | **B-1515** | **MS-77** | **MS-1037** | | |
| | 5/16 | **MS-37** | **MS-1227** | | | |
| | 3/8 | **B-1516** | **MS-493** | **380-F06-1Y** | **380-F60-1N** | |
| | 1/2 | **380-F09-1T** | **MS-78** | **MS-1123** | **MS-115** | |
| | 5/8 | **380-F13-1W** | | | | |
| | 3/4 | **380-F04-1A** | **MS-79** | | | |
| | 1 | **380-F19-1C** | **MS-80** | | | |
| **2-64 UNF** | 1/2 | | **MS-1071** | | | |
| | | | | | | |
| **3-48 UNC** | 3/16 | | | **MS-286** | | |
| | 1/4 | **MS-264** | **MS-437** | **380-751** | **MS-1236** | |
| | 5/16 | | | **MS-442** | | |
| | 3/8 | | | **380-769** | | |
| | 1/2 | | | **380-790** | **MS-400** | |
| | 5/8 | **MS-265** | | | | **380-773** |
| | 3/4 | | | | | **380-776** |
| | 1 | **MS-359** | | | | |
| | | | | | | |
| **3-56 UNF** | 1/4 | **MS-266** | | | | |
| | 5/16 | | | **MS-223** | | |
| | 3/8 | **MS-401** | | | | |
| **4-36 NS** | 1/4 | | | **MS-108** | | |
| | 3/8 | **380-F52-1M** | | | | |
| | 1/2 | | **MS-361** | | | |
| | 5/8 | | **MS-362** | | | |



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B

| STEEL Inch Sizes ASME B18.6.3 | |  80° to 82° |  |  80° to 82° |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| | | NICKEL PLATED | ZINC PLATED | | | | | | |
| DIA. | L. | OVAL | ROUND | FLAT | BINDING | FILLISTER | TRUSS | HEX. SLOT | UNSLOTTED HEXAGON |
| 4-40 UNC | 1/8 | | MS-44 | | 380-F45-1C | | | | |
| | 3/16 | | 380-F11-1T | | MS-438 | MS-116 | | | |
| | 3/16 | | | 380-803 (Undercut Hd.) | | | | | |
| | 1/4 | | 380-F26-1M | ▲B-1512 | 380-F62-1K | MS-117 | 380-F90-1M | | |
| | 5/16 | | MS-46 | MS-375 | MS-428 | | | | |
| | 3/8 | | 380-F10-1N | 380-F14-1M | MS-167 | | | MS-462H | |
| | 7/16 | | | MS-393 | MS-395 | 380-F38-1M | | | |
| | 1/2 | | B-411 | MS-83 | 380-F31-1P | MS-119 | | MS-463H | 391-004 |
| | 5/8 | | 380-F02-1M | MS-1354 | MS-169 | | | | |
| | 3/4 | | MS-49 | MS-84 | MS-170 | MS-120 | | | MS-464H |
| | 7/8 | | | MS-394 | MS-171 | | | | |
| | 1 | | 380-F53-1X | MS-85 | MS-172 | | | | |
| | 1-1/4 | | MS-50 | | MS-1228 | | | | |
| | 1-1/2 | | 380-F33-1K | MS-87 | | | | | |
| 4-48 UNF | 3/8 | | | | 380-F55-1P (Pan) | | | | |
| | 1/2 | | | MS-1072 | | | | | |
| | | | | | | | | | |
| 5-40 UNC | 3/16 | | MS-1307 | | MS-288 | | | 1/4" A.F. | 1/4"A.F. |
| | 1/4 | | MS-268 | | MS-1017 | MS-1237 | | (A.F.=Across Flats) | |
| | 3/8 | | | | | MS-1143 | | | |
| | 1/2 | | MS-269 | MS-397 | | MS-299 | | | |
| | 5/8 | | MS-1016 | MS-1075 | MS-289 | | | | |
| | 3/4 | | | MS-398 | | MS-1144 | | | |
| | 1 | | MS-270 | MS-396 | | | | | |
| | 1-1/4 | | | MS-1249 | | | | | |
| 6-32 UNC | 3/16 | | 380-F36-1C | MS-88 | MS-431 | | | | |
| | 1/4 | | 380-F37-1W | MS-255 | •380-F27-1X | 380-F61-1T | 380-801 | 391-088 | MS-346H |
| | 5/16 | | 786 | MS-376 | MS-446 | | 380-802 | | |
| | 3/8 | | B-1509 | 380-F84-1N | MS-110 | MS-125 | MS-1164 | | MS-465H |
| | 7/16 | | MS-53 | | MS-290 | | | | |
| | 1/2 | R-1/2 | 380-F22-1N | 380-F64-1M | MS-186 | MS-126 | MS-363 | MS-347H | MS-406H |
| | 5/8 | | MS-54 | | MS-187 | | MS-1253 | | |
| | 3/4 | 380-F85-1T | B-1499 | 63-A | MS-188 | MS-1284 | MS-1254 | MS-348H | 391-C13-1W |
| | 7/8 | | MS-271 | 380-772 | | MS-127 | | | |
| | 1 | | 786A | MS-90 | MS-173 | | MS-1165 | MS-349H | MS-408H |
| | 1-1/8 | | | MS-279 | | | | | |
| | 1-1/4 | R-1-1/4 | 380-F42-1A | MS-91 | MS-1332 | MS-128 | MS-1256 | | |
| | 1-1/2 | | 380-F69-1C | 380-F86-1K | MS-377 | | | | |
| | 1-3/4 | | MS-55 | | | | | | |
| | 2 | | MS-3 | MS-93 | MS-378 | MS-1146 | | | |
| | 3 | | MS-7 | MS-386 | | | MS-1106 | | |
| | 4 | | 380-768 | 380-690 | | | | | |
| 6-40 UNF | 5/16 | | 380-F66-1A | | | | | | |
| | 1-3/4 | | MS-273 | | | | | | |

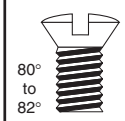
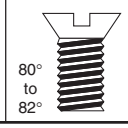
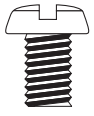
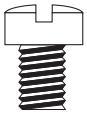
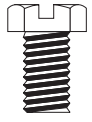
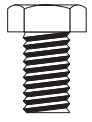
**Contact Sales Desk For Package Quantities**



▲ 380-014 Undercut Head

• Undercut Head


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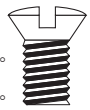
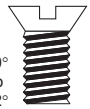
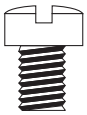
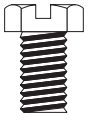
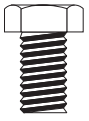
| **STEEL** ASME B18.6.3 Inch Sizes | |  80° to 82° |  |  80° to 82° |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| | | **NICKEL PLATED** | **ZINC PLATED** | | | | | | |
| **DIA.** | **L.** | **OVAL** | **ROUND** | **FLAT** | **BINDING** | **FILLISTER** | **TRUSS** | **HEX. SLOT** | **UNSLOTTED HEXAGON** |
| **8-32 UNC** | 3/16 | | **MS-274** | | **MS-1224** | | | 1/4" A.F. | 1/4"A.F. |
| | 1/4 | **S-1/4** | **MS-57** | **992** | ▲**380-F03-1X** | **380-F46-1N** | **380-F35-1T** | | **MS-466H** |
| | 5/16 | | **785A** | | **MS-424** | **MS-133** | | | **MS-1341H** |
| | 3/8 | **S-3/8** | **380-F05-1P** | **MS-94** | **380-D01-1W** | **MS-165** | **380-F29-1P** | | **391-C07-1C** |
| | 7/16 | | | | **MS-1157** | | | | |
| | 1/2 | **S-1/2** | **785** | **380-F92-1A** | **MS-182** | **MS-134** | **380-F87-1W** | **MS-350H** | **MS-409H** |
| | 5/8 | | **MS-58** | | **380-F47-1T** | | **MS-1265** | **MS-351H** | **MS-410H** |
| | 3/4 | | **1042** | **1468-A** | **MS-174** | **MS-153** | **380-F56-1Y** | | **391-C06-1Y** |
| | 7/8 | | **MS-1244** | | ▲**380-F58-1N** | | **MS-1266** | | |
| | 1 | | **B-1500** | **MS-95** | **MS-176** | **380-F44-2Y** | **MS-121** | **MS-353H** | **MS-412H** |
| | 1-1/4 | **S-1-1/4** | **380-F89-1X** | **MS-1371** | **MS-1328** | **MS-135** | **MS-1257** | | |
| | 1-1/2 | **S-1-1/2** | **380-F83-1C** | **MS-96** | **MS-1153** | **MS-136** | **MS-122** | | **MS-468H** |
| | 1-5/8 | | | | **380-784** (Pan Head) | | | | |
| | 1-3/4 | | **B-1502** | | | **MS-1213** | | | |
| | 2 | | **B-1503** | **MS-97** | | **MS-137** | | | |
| | 2-1/4 | | **380-F01-1K** | | | | | | |
| | 2-1/2 | | **MS-9** | | | | | | |
| | 2-3/4 | | **380-F65-1X** | | | | | | |
| | 3 | | **MS-10** | **MS-1277** | | | **MS-202** | | |
| | 4 | | **380-F23-1T** | | | | | | |
| | 5 | | **MS-368** | | | | | | |
| **8-36 UNF** | 5/16 | | | | | | **380-015** | | |
| | 2 | | | | | | **380-017** | | |
| | | | | | | | | | |
| **10-24 UNC** | 3/16 | | **MS-1158** | | | | | 5/16" A.F. | 5/16" A.F. |
| | 1/4 | | **MS-1080** | | **MS-1275** | **MS-138** | | | |
| | 5/16 | | **380-F49-1W** | | | | **MS-312** | | |
| | 3/8 | | **B-1467** | **1180** | **MS-225** | **MS-42** | **MS-231** | | **391-C05-1P** |
| | 1/2 | **380-F34-1N** | **MS-192** | **797** | **MS-1278** | **B-1438** | **MS-1124** | | **391-C03-1X** |
| | 5/8 | **MS-159** | **MS-180** | ∗**1034** | **MS-226** | **380-F17-1P** | **MS-232** | | ■**391-C10-1N** |
| | 3/4 | | **380-F70-1Y** | **886** | **MS-177** | **B-1439** | **MS-1125** | | **391-C02-1M** |
| | 7/8 | | **1484** | | | | | | **T-51** |
| | 1 | **MS-160** | **MS-61** | **MS-1131** | **MS-1276** | **MS-139** | **MS-233** | **391-080** | **391-C08-1N** |
| | 1-1/4 | | **380-F72-1N** | **887** | | **MS-140** | | | |
| | 1-3/8 | | **MS-275** | | | | | | |
| | 1-1/2 | | **MS-63** | **MS-1122** | | **MS-141** | | | **MS-470H** |
| | 1-3/4 | | **MS-64** | | | | **MS-380** | | |
| | 2 | | **MS-65** | **MS-1108** | **MS-371** | **MS-142** | | **MS-1199H** | |
| | 2-1/4 | | **MS-1204** | | | | | | |
| | 2-1/2 | | **380-F18-1Y** | **MS-456** | | | **380-780** | | |
| | 3 | | **MS-414** | **380-691** | | | | | |
| | 4 | | **MS-1093** | **380-748** | | | **380-781** | | |
| | 4-1/4 | | **380-131** | | | | | | |
| | 5 | | **MS-1094** | | | | | | |
| | 6 | | **380-F21-1C** | | | | **380-782** | | |

■**MS-1234H** (Ind. Hex. Wshr. Hd.)
∗**MS-259** No. 8 Head
▲**Undercut Head**

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| STEEL Inch Sizes ASME B18.6.3 | |  80° to 82° |  |  80° to 82° |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| | | NICKEL PLATED | ZINC PLATED | | | | | 5/16" Across Flat | 5/16" Across Flat |
| **DIA.** | **L.** | **OVAL** | **ROUND** | **FLAT** | **BINDING** | **FILLISTER** | **TRUSS** | **HEX. SLOT** | **UNSLOTTED HEXAGON** |
| **10-32 UNF** | 1/4 | | **MS-66** | **1075** | **MS-194** | **MS-143** | **MS-1267** | **391-083** | **MS-471H** |
| | 5/16 | | **1028-A** | **MS-99** | **380-F74-1K** | **MS-144** | | **391-C15-1X** | |
| | 3/8 | | **380-F63-1W** | **MS-1368** | **380-F28-1A** | | **380-F51-1W** | | **391-C09-1T** |
| | 7/16 | | | | | **MS-306** | | | |
| | 1/2 | **T-1/2** | **1028** | **1108** | **MS-183** | **380-F43-1P** | **380-F32-1Y** | **MS-1132H** | **391-C12-1C** |
| | 5/8 | **T-5/8** | **MS-67** | | **MS-111** | **MS-146** | **MS-1268** | | **MS-1001H** |
| | 3/4 | | **MS-68** | **1108-A** | **MS-184** | **B-870** | **380-F91-1X** | | **391-C04-1A** |
| | 7/8 | **T-7/8** | **1027** | | **MS-196** | **B-978** | **MS-1259** | | |
| | 1 | **T-1** | **380-F25-1W** | **MS-100** | **MS-185** | | **MS-166** | | **391-C01-1W** |
| | 1-1/4 | | | **MS-1046** | | **380-F15-1X** | **MS-1025** | | |
| | 1-1/2 | | **B-1506** | **MS-101** | | **MS-307** | **MS-315** | **391-002** | **▲MS-473H** |
| | 1-3/4 | | **MS-69** | **MS-280** | | | | | |
| | 2 | | **MS-12** | **MS-102** | | **MS-147** | | | |
| | 2-1/4 | | | **380-133** | | | | | |
| | 2-1/2 | | **MS-13** | **MS-103** | | | | | |
| | 3 | | **MS-14** | **MS-104** | | | | | |
| | 4 | | **MS-15** | | | | | | **391-079** |
| | 4-1/2 | | **380-807** | | | | | | |
| **12-24 UNC** | 3/8 | | **1032-A** | | | | | | |
| | 1/2 | **V-1/2** | **1032** | **380-798** | **MS-496** | **MS-148** | | 5/16" Across Flat | 3/8" Across Flat |
| | 5/8 | **2034** | **2077-A** | **1303** | | **MS-149** | | **MS-475H** (Wshr. Hd.) | |
| | 3/4 | | **1153** | **380-799** | | **MS-150** | | | |
| | 7/8 | | **380-F07-1C** | | | | | | |
| | 1 | | **380-F20-1Y** | **MS-105** | | **MS-1177** | | | |
| | 1-1/4 | | **380-796** | **MS-1092** | | **MS-151** | | | |
| | 1-3/8 | | | **1283** | | | | | |
| | 1-1/2 | | **380-797** | **380-800** | | | | | |
| | 1-3/4 | | **MS-71** | | | | | | |
| | 2 | | **MS-72** | **MS-106** | | | | | |
| **1/4"-20 UNC** | 5/16 | | | | **MS-1185** | | | | |
| | 3/8 | | | | | | | | **■391-C14-1M** |
| | 3/8 | | **MS-73** | | | | | **391-085** | **MS-249H** |
| | 1/2 | | **380-F94-1Y** | | | **B-1440** | **B-1544** | | |

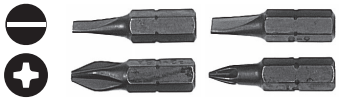
**Contact Sales Desk For Package Quantities**

■ Wshr. Hd. and 7/16" Across Flat ▲**391-089** Hex Washer Hd.

Continues on Next Page

For more Magnetic Screwdrivers see Page P17

**Magnetic Screwdrivers**
## Hollow Handle
**(with Insert Bits)**



Magnet in driver-shank holds choice of 4 interchangeable bits, and passes magnetism through bit to securely hold screw.

**Bits are stored in hollow handle**

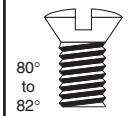
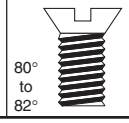
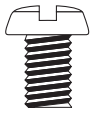
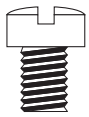
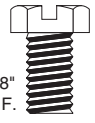
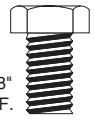


Each driver has size 1 & 2 Phillips, 4-6 & 6-8 Slot, (1"-long bits with 1/4" Hex) in storage handle.

| *SPAENAUR No.* | Overall Length | Description |
|---|---|---|
| **876-121** | 8" | Magna Driver |
| **876-122** | 11" | Magna Driver |




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| STEEL Inch Sizes<br>ASME B18.6.3 | |  Nickel Plated |  ZINC PLATED |  |  |  |  |  |  A.F. = Across Flat |
|---|---|---|---|---|---|---|---|---|---|
| **DIA.** | **L.** | **OVAL** | **ROUND** | **FLAT** | **BINDING** | **FILLISTER** | **TRUSS** | **HEX. SLOT** | **UNSLOTTED HEXAGON** |
| Continued from previous page | 5/8 | **W-5/8** | | **933** | **MS-254** | **MS-5** | **MS-1059** | | |
| | 3/4 | **W-3/4** | **1467** | **380-F39-2X** | **MS-415** | **380-F71-1C** | **B-1545** | | |
| | 7/8 | | | **1262** | **380-771** | **B-1442** | | | |
| | 1 | **MS-33** | **871** | **MS-107** | | **380-F68-1Y** | **MS-211** | **391-C17-1P** | **MS-416H** |
| | 1-1/4 | **W-1-1/4** | **380-F08-1N** | **MS-1109** | **MS-216** | **B-1444** | **MS-212** | | |
| | 1-1/2 | | **MS-75** | **MS-1110** | | **B-1445** | **MS-213** | | |
| | 1-3/4 | | **380-F24-2K** | | | | **380-F76-1M** | | |
| **1/4"-20 UNC** | 2 | | **MS-1117** | **MS-1111** | **380-805** (Pan Hd.) | | **MS-499** | | |
| | 2-1/4 | | **MS-1118** | | | | | | |
| | 2-1/2 | **W-2-1/2** | **MS-1119** | **MS-1112** | | **B-1448** | **380-013** | | |
| | 3 | | **380-F77-1X** | **MS-1113** | | | | | |
| | 3-1/4 | | **380-779** | | | | | | |
| | 3-1/2 | | | | | | **380-783** | | |
| | 4 | | **MS-1097** | **MS-1114** | | **MS-6** | | | |
| | 5 | | **380-F57-1C** | **380-752** | | | | | |
| | 6 | | **MS-1021** | **380-753** | | | | | |
| **1/4"-28 UNF** | 3/4 | | **MS-390** | **717** | | **MS-1010** | **MS-240** | | |
| | 1 | | | | **380-F73-1T** | | | | |
| | 2 | | | | | **MS-1136** | | | |
| | | | | | | | | | |
| **5/16"-18 UNC** | 3/8 | | **MS-1120** | | | | | | |
| | 1/2 | | **MS-387** | | | | **380-001** | | |
| | 3/4 | | **MS-76** | **MS-281** | | | **380-002** | | |
| | 1 | | **380-F88-1M** | **MS-282** | | | **MS-487** | | |
| | 1-1/4 | | **MS-1166** | **MS-1373** | | | **380-F80-1A** | | |
| | 1-1/2 | | **380-F78-1A** | **MS-389** | | | **380-003** | | |
| | 2 | | **MS-382** | **MS-1062** | | | | | |
| | 2-1/4 | | **380-F54-1A** | | | | | | |
| | 2-1/2 | | **380-F48-1K** | | | | **380-005** | | |
| | 3 | | **MS-484** | **MS-1091** | | | **380-006** | | |
| | 4 | | **MS-1099** | **380-754** | | | | | |
| | 4-1/2 | | | **MS-1154** | | | | | |
| | 5 | | **MS-1100** | **380-755** | | | | | |
| | 6 | | **MS-1101** | **380-756** | | | | | |

**Contact Sales Desk For Package Quantities**

SPAENAUR
*Fasteners Right Now®*

For Head Dimension Chart see Page R10





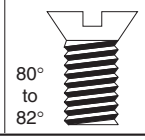
P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

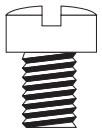


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B

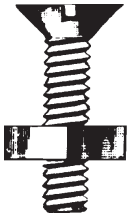
# STEEL
## Inch Sizes
**ANSI B18.6.3**




**ZINC PLATED**

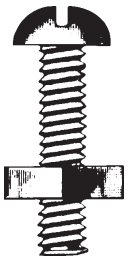
| DIA. | L. | ROUND | FLAT | FILLISTER | TRUSS |
|---|---|---|---|---|---|
| 3/8"-16 UNC | 1/2 | 380-806 | | | |
| | 3/4 | | | | 380-008 |
| | 1 | MS-365 | MS-284 | | 380-009 |
| | 1-1/4 | | | | 380-010 |
| | 1-1/2 | MS-385 | 380-F16-1A | | |
| | 1-3/4 | 380-787 | | | |
| | 2 | 380-F50-1K | 380-130 | | |
| | 2-1/2 | 380-F40-1M | | MS-310 | |
| | 3 | 380-F75-1W | MS-1155 | | |
| | 4 | | 380-757 | | |
| | 5 | MS-1104 | 380-758 | | |
| | 6 | MS-1105 | | | |
| 1/2"-13 UNC | 1 | | MS-373 | | |
| | | | | | |



# STEEL
## STOVE BOLTS
### With Square Nuts

**ZINC PLATED**

**PKG QTY. 100**



| DIAMETER | L. | ROUND | FLAT |
|---|---|---|---|
| 3/16" (10-24) (Includes N-28 Square Nut) | 1/2 | B-198 | B-209 |
| | 3/4 | B-199 | B-210 |
| | 1 | B-200 | B-211 |
| | 1-1/4 | B-201 | |
| | 1-1/2 | B-202 | B-213 |

**Contact Sales Desk For Package Quantities**

**SLOT DRIVE**




## INCH SIZES

| DIAMETER | L. | ROUND | FLAT |
|---|---|---|---|
| 1/4" (1/4"-20) (Includes B-1548 Square Nut) | 1/2 | B-1044 | |
| | 3/4 | B-203 | B-214 |
| | 1 | B-204 | B-215 |
| | 1-1/4 | B-205 | B-216 |
| | 1-1/2 | B-206 | B-217 |
| | 2 | B-207 | B-218 |
| | 2-1/2 | B-208 | B-219 |
| | 3 | | B-1749 |
| | 4 | B-1016 | |

For Slotted Flat Head Cap Screws 1/2" diameter, See page B154

**PLASTIKIT** «PLASTIKIT» **1140**

## MACHINE SCREWS WITH HEXAGON NUTS

**Steel, Zinc Plated**
**Round Slot Head**

**25 Sizes - 159 Pieces**

Handy size, hinged lid and positive clasp
1" x 2-3/4" x 4-1/2"



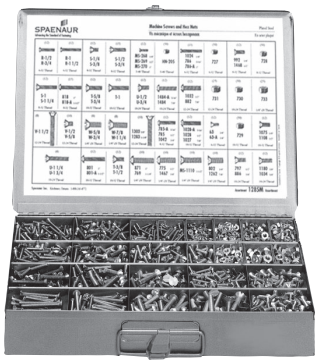



**For the complete assortment contents turn to A27**




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**ASSORTMENT / ASSORTIMENT B-576-M-C**

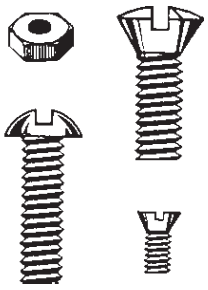
## SLOTTED SCREWS & HEX NUTS
### For Radio, Television & Electronics Shops, Etc.

**Steel, Zinc and Nickel Plated.**

### 42 SIZES - 1477 PIECES

Regular drawer has scooped compartments, and is finished in grey enamel. Fits into our Slide Racks shown on page A2.

13-3/8" x 9-1/4" x 2"
Shipping weight **3.63 kg** (8 lbs.)



B

| Image | Name | Head Type | Thread Size | Spaenaur No. | Screw Length | Qty. | Page |
|---|---|---|---|---|---|---|---|
|  | Machine Screw Slot Drive | Flat 82° Countersunk | #4-40 | **B-1512** | 1/4" | 20 | **B6** |
|  | | Round | #2-56 | **B-1515** | 1/4" | 50 | **B5** |
| | | | | **B-1516** | 3/8" | | |
| | | | | **380-F09-1T** | 1/2" | 40 | |
| | | | #4-40 | **380-F26-1M** | 1/4" | 30 | **B6** |
| | | | | **B-411** | 1/2" | | |
| | | | | **380-F53-1X** | 1" | 25 | |
| | | | #5-40 | **MS-268** | 1/4" | 30 | |
| | | | | **MS-270** | 1" | 20 | |
|  | | | #6-32 | **380-F37-1W** | 1/4" | 30 | |
| | | | | **B-1509** | 3/8" | | |
| | | | | **380-F22-1N** | 1/2" | | |
| | | | | **B-1499** | 3/4" | | |
| | | | | **786A** | 1" | 15 | |
| | | | | **380-F42-1A** | 1-1/4" | 12 | |
| | | | | **380-F69-1C** | 1-1/2" | 20 | |
|  | | | #8-32 | **785A** | 5/16" | 30 | **B7** |
| | | | | **785** | 1/2" | | |
| | | | | **1042** | 3/4" | 20 | |
| | | | | **B-1500** | 1" | 15 | |
| | | | | **380-F89-1X** | 1-1/4" | | |
| | | | | **B-1502** | 1-3/4" | | |
| | | | | **B-1503** | 2" | | |
| | | | #10-32 | **1028-A** | 5/16" | 25 | **B8** |
| | | | | **1028** | 1/2" | 20 | |
| | | | | **380-F25-1W** | 1" | 15 | |
|  | Tapping Screw Hex Drive | Indented Hex Washer | #4 | **525-172** | 1/4" | 30 | **B88** |
| | | | #6 | **B-1098** | | 35 | |
| | | | | **B-1519** | 3/8" | | |
| | | | | **B-1520** | 1/2" | 30 | |
| | | | #8 | **525-D04-1T** | 5/16" | | |
|  | | | | **ST-6H** | 1/2" | | |
| | | | #10 | **ST-7H** | 3/8" | 25 | **B89** |
| | | | | **525-D30-1T** | 1/2" | | |
|  | Nut Hex Machine Screw Steel Zinc Plated | | #2-56 | **155-P07-1N** | | 75 | **C2** |
| | | | #4-40 | **155-P11-1K** | | | |
| | | | #5-40 | **HN-205** | | | |
| | | | #6-32 | **B-1521** | | | |
| | | | | **155-P03-2A** | | | |
|  | | | #8-32 | **155-P05-1Y** | | | |
| | | | | **155-P04-1P** | | | |
| | | | #10-32 | **155-P02-1X** | | 50 | |



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B

**ASSORTMENT / ASSORTIMENT 1285M-F**

## SLOT DRIVE MACHINE SCREWS & HEX NUTS

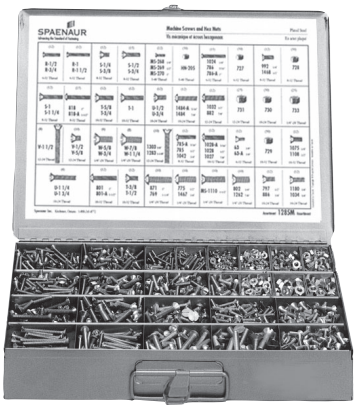
**Slot & Phillips Drive, Steel, Head: Round / Flat / Oval**

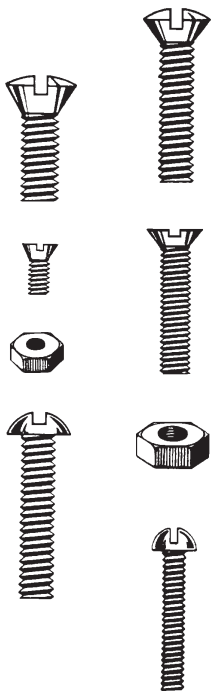
**Zinc / Zinc Chromate**
**Trivalent Zinc / Nickel**

**72 VARIETIES**
**1043 PIECES**

Regular drawer has 20 scooped compartments and is finished in grey enamel. Fits into our Slide Racks shown on page A2

13-3/8" x 9-1/4" x 2"
Shipping Weight **4.54 kg** (10 lbs.)





| Name | Thread Size | Head Type | Spaenaur No. | Screw Length | Qty. | Page |
|---|---|---|---|---|---|---|
| Machine Screw Steel | #5-40 | Round | MS-268 | 1/4" | 12 | B6 |
| | | | MS-269 | 1/2" | | |
| | | | MS-270 | 1" | | |
| | #6-32 | Round | 380-F37-1W | 1/4" | 15 | B6 |
| | | | 786 | 5/16" | | |
| | | | 786A | 1" | | |
| | | Oval | R-1/2 | 1/2" | 12 | |
| | | | 380-F85-1T | 3/4" | | |
| | | | 385-258 | 1" | | B26 |
| | | Oval with 80° to 82° Countersunk | R-1-1/4 | 1-1/4" | | |
| | | Flat | 380-F84-1N | 3/8" | | B6 |
| | | Flat 82° Countersunk | 63-A | 3/4" | | |
| | #8-32 | Round | 785A | 5/16" | | B7 |
| | | | 785 | 1/2" | | |
| | | | MS-58 | 5/8" | 15 | |
| | | | 1042 | 3/4" | 12 | B7 |
| | | | MS-1244 | 7/8" | 15 | B7 |
| | | | B-1500 | 1" | | |
| | | | 380-F83-1C | 1-1/2" | | |
| | | Oval | 1809 | 1" | 12 | B26 |
| | | Oval with 80° to 82° Countersunk | S-3/8 | 3/8" | | |
| | | | S-1-1/4 | 1-1/4" | | B7 |
| | | Flat | 992 | 1/4" | | |
| | | | 380-F92-1A | 1/2" | | |
| | | | 1468-A | 3/4" | | |
| | #10-24 | Round | 380-F49-1W | 5/16" | | |
| | | | 1484 | 7/8" | | |
| | | Oval | 380-F34-1N | 1/2" | | |
| | | Oval with 80° to 82° Countersunk | U-7/8 | 7/8" | | |
| | | | MS-160 | 1" | 6 | B7 |
| | | Flat | 1180 | 3/8" | 12 | |
| | | | 886 | 3/4" | | |
| | | Flat 82° Countersunk | 797 | 1/2" | | |
| | | | 1034 | 5/8" | | |
| | | | MS-1108 | 2" | 6 | |
| | #10-32 | Round | 1028-A | 5/16" | 12 | B8 |
| | | | 1028 | 1/2" | | |
| | | | 1027 | 7/8" | | |
| | | | 380-F25-1W | 1" | | |
| | | | 801-A | 1-1/2" | | |
| | | Oval | MS-1184P | 3/8" | | B27 |
| | | | T-1/2 | 1/2" | | B8 |
| | | Oval with 80° to 82° Countersunk | T-5/8 | 5/8" | | |
| | | | T-7/8 | 7/8" | | |
| | | | T-1 | 1" | | |
| | | Flat | 1075 | 1/4" | | |
| | | Flat 82° Countersunk | 1108 | 1/2" | | B8 |
| | #12-24 | Round | 1032 | | | |
| | | | 380-F07-1C | 7/8" | | |
| | | Oval with 80° to 82° Countersunk | V-1/2 | 1/2" | 10 | |
| | | | 2034 | 5/8" | | B8 B27 |
| | | Flat with 80° to 82° Countersunk | 1303 | | | B8 |
| | | | 1283 | 1-3/8" | | |
| | 1/4"-20 | Round | 380-F94-1Y | 1/2" | | |
| | | | 1467 | 3/4" | | B9 |
| | | | 871 | 1" | | |
| | | | 380-F08-1N | 1-1/4" | | |
| | | Oval with 80° to 82° Countersunk | W-5/8 | 5/8" | 6 | |
| | | | W-3/4 | 3/4" | | |
| | | | MS-33 | 1" | 8 | |
| | | | W-1-1/4 | 1-1/4" | | |
| | | Flat | 380-F39-2X | 3/4" | 10 | B9 |
| | | Flat 82° Countersunk | 1262 | 7/8" | | |
| | | | MS-1110 | 1-1/2" | | |
| Nut Hex Machine Screw Steel | #5-40 | | HN-205 | | 50 | C2 |
| | #6-32 | | 155-P03-2A | | | |
| | #8-32 | | 155-P04-1P | | | |
| | #10-24 | | 155-P08-1T | | | |
| | #10-32 | | 155-P02-1X | | | |
| | #12-24 | | 155-P22-1T | | 25 | |
| | 1/4"-20 | | 155-P06-1C | | | |



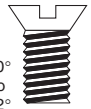
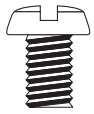
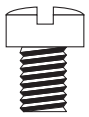

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**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**

**Contact Sales Desk For Package Quantities**

**Head/Body & Slot Dimensions to ASME B18.6.3**

**B**

| SLOT DRIVE **BRASS** Unplated Inch Sizes | |  |   |  |  |
|---|---|---|---|---|---|
| **DIAMETER** | **L.** | **ROUND** | **FLAT** | **BINDING** | **FILLISTER** |
| **0000-160** | 1/16 | | | | **400-018** |
| | 1/8 | | **400-014** | | **400-007** |
| **000-120** | 1/8 | | **400-013** | | **400-006** |
| | 1/4 | **400-017** | **400-012** | | **400-005** |
| **00-96** | 3/16 | | **400-011** | | **400-004** |
| | 3/8 | | **400-010** | | **400-003** |
| **00-90** | 3/16 | | **400-009** | | **400-002** |
| | 1/4 | **400-015** | | | |
| | 3/8 | | **400-008** | | **400-001** |
| | 1/2 | **400-016** | | | |
| **0-80 UNF** | 3/32 | **MS-687** | | | |
| | 1/8 | **400-B63-1Y** | **MS-705** | | **MS-713** |
| | 5/32 | | | **MS-927** | **MS-926** |
| | 3/16 | **MS-691** | **MS-706** | | **MS-714** |
| | 7/32 | | | | **MS-928** |
| | 1/4 | **MS-692** | **400-B50-1P** | **MS-929** | **MS-715** |
| | 5/16 | **MS-890** | **MS-708** | | **MS-716** |
| | 3/8 | **MS-693** | **MS-670** | | **MS-717** |
| | 1/2 | **MS-694** | **MS-569** | | **MS-719** |
| | 5/8 | | | | **MS-930** |
| | 3/4 | | | | **MS-932** |
| **1-64 UNC** | 1/8 | **MS-695** | | | |
| | | | | | |
| **1-72 UNF** | 1/8 | **400-B55-1K** | | | |
| | 3/16 | **MS-699** | **MS-709** | | **MS-676** |
| | 1/4 | **MS-700** | **MS-570** | | |
| | 5/16 | **MS-546** | **MS-710** | | **MS-935** |
| | 3/8 | **MS-701** | | | **MS-725** |
| | 7/16 | **MS-702** | | | |
| | 1/2 | **MS-703** | **400-B36-1P** | | |
| | 5/8 | | | | **MS-727** |
| **2-56 UNC** | 1/8 | **MS-547** | **MS-671** | **MS-936** | |
| | 3/16 | **400-B19-1M** | **MS-571** | | |
| | 1/4 | **400-B16-1T** | **MS-572** | | |
| | 5/16 | **400-B24-1P** | **MS-573** | | **MS-596** |
| | 3/8 | **MS-551** | **MS-574** | | |
| | 1/2 | **400-B67-1K** | **MS-575** | **MS-840** | |
| | 5/8 | **MS-553** | **400-B59-1A** | | |
| | 3/4 | **MS-807** | **MS-811** | | |
| | 7/8 | **400-610** | | | |
| | 1 | **MS-793** | **MS-940** | | |

Continues on next page.



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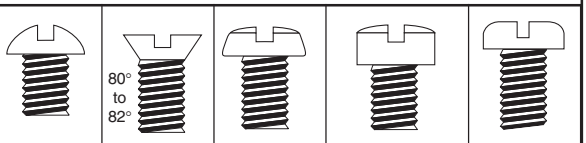
Continued from Previous Page

**Head/Body & Slot Dimensions to ASME B18.6.3**

**SLOT DRIVE**
# BRASS
**Unplated**

**Inch Sizes**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**
**Contact Sales Desk For Package Quantities**




| DIAMETER | L. | ROUND | FLAT | BINDING | FILLISTER | PAN |
|---|---|---|---|---|---|---|
| 3-48 UNC | 1/4 | | | | MS-660 | |
| | 5/16 | | | MS-867 | | |
| | 7/16 | | MS-874 | | | |
| | 1/2 | 400-624 | | | | |
| 3-56 UNF | 5/16 | | | MS-946 | | |
| | 3/8 | | | MS-947 | | |
| | 1/2 | | | MS-948 | | |
| 4-40 UNC | 1/8 | | MS-919 | MS-511 | | |
| | 3/16 | MS-796 | MS-505 | MS-500 | | 400-580 |
| | 1/4 | MS-554 | MS-577 | 400-B17-1K | | |
| | 5/16 | 400-B40-1C | MS-509 | MS-512 | | |
| | 3/8 | MS-556 | MS-578 | 400-B32-1W | | |
| | 1/2 | MS-557 | MS-510 | 400-B31-1K | | |
| | 5/8 | | | MS-792 | | |
| | 3/4 | 400-B05-1K | MS-831 | | | |
| | 1 | MS-520 | MS-665 | MS-513 | | |
| | 1-1/4 | | MS-917 | | | |
| | 1-1/2 | MS-560 | MS-918 | | | |
| | 2 | MS-898 | | | | |
| 4-48 UNF | 1/4 | 400-616 | | | | |
| | | | | | | |
| 5-40 UNC | 1/2 | MS-786 | | | | |
| | 5/8 | | MS-672 | | | |
| | 1 | | MS-945 | | | |

Continues on Next Page

For Brass Nuts see Page C2. For Brass Washers see Page D8.

**ASSORTMENT / ASSORTIMENT 805-519**

## BRASS FLAT WASHERS
### 16 SIZES - 1315 PIECES

REGULAR SIZE Steel, grey enamel Drawer will fit Slide Racks shown on page A2

Shipping Weight:
**3.18 kg** (7 lbs.)





| Spaenaur No. | Compatible Screw Size | Compatible Bolt Size | Inner Diameter | Outer Diameter | Thickness | Qty. | Page |
|---|---|---|---|---|---|---|---|
| 649-B01-2C | #2 | | 0.092" | 3/16" | 0.018" | 200 | D8 |
| W-501 | #3 | | 0.105" | 1/4" | 0.020" | | |
| 649-B20-1M | #4 | | 0.119" | 9/32" | 0.025" | | |
| W-528 | #5 | 1/8" | 0.133" | | | 100 | |
| 649-B21-1X | #6 | | 0.147" | 5/16" | 0.028" | | |
| 649-B14-1N | #8 | 5/32" | 0.172" | 3/8" | 0.032" | | |
| 649-B13-1C | #10 | 3/16" | 0.200" | 7/16" | 0.036" | | |
| 649-B19-1X | #12 | 7/32" | 0.227" | 1/2" | 0.040" | | |
| 649-B09-1P | #14 | 1/4" | 0.260" | 9/16" | | | |
| 649-B15-1T | #18 | | 0.310" | 11/16" | 0.051" | 25 | |
| 649-B18-1M | #20 | 5/16" | 0.337" | 3/4" | 0.064" | | |
| W-540 | | 3/8" | 0.390" | 0.682" | 0.050" | | |
| 649-B17-1W | #30 | 7/16" | 1/2" | 1-1/8" | 0.081" | 10 | |
| 649-B12-1Y | #34 | 1/2" | 9/16" | 1-1/4" | 0.091" | | |
| W-519 | | 5/8" | 11/16" | 1-1/2" | 0.102" | | |
| 649-B03-1M | | 3/4" | 13/16" | 1-7/8" | 0.114" | | |







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**SLOT DRIVE**
# BRASS
**Unplated**
**Inch Sizes**

Continued from Previous Page

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**
**Contact Sales Desk For Package Quantities**

**Head / Body & Slot Dimensions to ASME B18.6.3**

| DIAMETER | L. | OVAL (80° to 82°) | ROUND | FLAT (80° to 82°) | BINDING | FILLISTER | HEXAGON | TRUSS HEAD |
|---|---|---|---|---|---|---|---|---|
| 6-32 UNC | 1/8 | | MS-897 | | | | 1/4" Across Flats | |
| | 3/16 | | MS-808 | MS-798 | MS-781 | MS-896 | | |
| | 1/4 | | 400-B49-1Y | 400-B06-1W | 400-B23-1A | 400-614 | | |
| | 5/16 | | MS-790 | | MS-506 | | | |
| | 3/8 | | MS-561 | MS-813 | MS-593 | | | |
| | 7/16 | | | | MS-685 | | | |
| | 1/2 | | MS-562 | MS-724 | 400-B13-1Y | MS-723 | | |
| | 5/8 | | | MS-797 | MS-654 | | | |
| | 3/4 | MS-531 | 400-B02-1C | 400-613 | MS-594 | | | |
| | 1 | MS-728 | MS-522 | MS-732 | MS-795 | MS-601 | | |
| | 1-1/4 | MS-729 | 400-B41-1N | MS-733 | | | CS-650 | |
| | 1-1/2 | MS-532 | 400-B10-1X | MS-583 | | 400-581 | | |
| | 2 | | 400-B35-1A | MS-734 | | | | |
| 6-40 UNF | 1/4 | | | 400-606 | | | | |
| | | | | | | | | |
| 8-32 UNC | 3/16 | | MS-563 | MS-921 | MS-595 | | | 400-B03-1N |
| | 1/4 | MS-820 | | MS-658 | MS-830 | | | |
| | 5/16 | | | | 400-B30-1T | | | |
| | 3/8 | | MS-564 | 400-625 | 400-B54-1T | MS-602 | | |
| | 1/2 | | MS-524 | 400-B44-1W | | 400-B43-1K | | |
| | 5/8 | | MS-809 | | MS-508 | | | |
| | 3/4 | | MS-537 | MS-584 | 400-B11-1A | | | |
| | 7/8 | | | | 400-020 Pan Head | | | |
| | 1 | MS-735 | MS-525 | MS-585 | 400-B37-1Y | | | MS-846 |
| | 1-1/4 | | MS-737 | 400-B18-1W | | | | 400-630 |
| | 1-1/2 | MS-533 | 400-B20-1W | MS-586 | | | | |
| | 2 | | 400-B52-1C | MS-741 | | | | |
| | 2-1/2 | | MS-565 | | | | | |
| | 3 | | MS-739 | MS-872 | | | | |
| 10-24 UNC | 1/4 | | 400-634 | | | | | |
| | 3/8 | 400-607 | MS-788 | 400-628 | | | | |
| | 1/2 | MS-908 | MS-801 | 400-B14-1C | MS-650 | | | |
| | 5/8 | | 400-621 | | MS-822 | | | |
| | 3/4 | MS-742 | 400-B27-1N | 400-B07-1M | | | | |
| | 1 | MS-678 | MS-746 | MS-752 | MS-652 | MS-844 | | |
| | 1-1/4 | MS-743 | MS-566 | | | | | |
| | 1-1/2 | MS-744 | MS-747 | MS-75 | | MS-823 | | |
| | 1-3/4 | | | MS-843 | | | | |
| | 2 | | MS-748 | MS-755 | | | | |
| | 2-1/2 | | MS-749 | MS-756 | | | | |
| | 3 | | MS-750 | | | | | |

Continues on Next Page



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B

**SLOT DRIVE**

# BRASS

**Unplated**

**Inch Sizes**

Continued from Previous Page

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**

**Contact Sales Desk For Package Quantities**

**Head/Body & Slot Drive Dimensions to ASME B18.6.3**

| DIAMETER | L. | OVAL (80° to 82°) | ROUND | FLAT (80° to 82°) | BINDING | FILLISTER | TRUSS | HEXAGON |
|---|---|---|---|---|---|---|---|---|
| 10-32 UNF | 1/4 | MS-903 | MS-912 | 400-B47-1A | MS-909 | | | |
| | 3/8 | MS-542 | 400-B65-1N | MS-839 | | | | |
| | 1/2 | MS-904 | 400-B29-1K | MS-841 | 400-B34-1X | MS-780 | | |
| | 5/8 | | 400-B33-2M | MS-815 | MS-877 | | | |
| | 3/4 | MS-534 | 400-B46-1X | 400-B28-1T | MS-516 | | | CS-648 |
| | 7/8 | | | MS-880 | | | | |
| | 1 | | MS-528 | MS-587 | | | | CS-649 |
| | 1-1/4 | | 400-B64-1C | 400-B25-1Y | | | | |
| | 1-1/2 | MS-535 | MS-529 | MS-588 | MS-900 | MS-818 | | |
| | 1-3/4 | | 400-B15-1N | | | | | |
| | 2 | | 400-B58-1X | MS-871 | | | | |
| | 2-1/4 | | 400-B39-1N | | | | | |
| | 2-1/2 | | | 400-B56-1W | | | | |
| | 3 | | 400-B57-1M | | | | | |
| 12-24 UNC | 3/8 | | | | | MS-604 | | |
| | 1/2 | | MS-567 | 400-B53-1N | MS-655 | | | |
| | 3/4 | | 400-B22-1X | 400-B70-1W | | | | |
| | 1 | | MS-666 | MS-826 | | | | |
| | 1-1/4 | MS-544 | | | | | | |
| | 1-1/2 | | MS-878 | | | | | |
| | 2 | | MS-856 | | | | | |
| 1/4"-20 UNC | 3/8 | | 400-021 | | | | | |
| | 1/2 | | MS-810 | 400-B01-1Y | | | MS-605 | |
| | 5/8 | | 400-B04-1T | 400-B62-1P | | | | |
| | 3/4 | | MS-538 | 400-B09-1A | | 400-B21-1M | | |
| | 1 | MS-758 | MS-761 | 400-B66-1T | | | | |
| | 1-1/4 | MS-759 | 400-B51-1Y | 400-B61-1A | | | | |
| | 1-1/2 | MS-760 | MS-763 | 400-B08-1X | | | | |
| | 1-3/4 | | 400-623 | | | | | |
| | 2 | | MS-653 | MS-769 | | | | |
| | 2-1/4 | 400-615 | | | | | | |
| | 2-1/2 | MS-760A | MS-764 | MS-770 | MS-922 | | | |
| | 3 | | MS-568 | MS-771 | | | | |
| | 3-1/2 | | MS-849 | | | | | |


Vibra-TITE®

NEW

Threadlocker prevents threaded fasteners from coming loose due to shock and vibration.


See Page B4




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B

**SLOT DRIVE**
# BRASS
**Unplated**

**Inch Sizes**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**
**Contact Sales Desk For Package Quantities**

**Made to ASME B18.6.3**

| DIA. | L. | ROUND | FLAT | BINDING |
|---|---|---|---|---|
| 1/4"-28 UNF | 1/2 | MS-680 | | MS-862 |
| | 1 | MS-673 | | |
| | 1-1/4 | MS-803 | | |
| 5/16"-18 UNC | 1/2 | MS-888 | MS-869 | |
| | 3/4 | | 400-B45-1M | |
| | 1 | 400-B42-1T | | |
| | 1-1/2 | MS-772 | MS-776 | |
| | 2 | MS-773 | MS-777 | |
| | 2-1/2 | MS-774 | | |
| 3/8"-16 UNC | 1 | 400-639 | 400-633 | |
| | 1-1/2 | MS-891 | 400-B26-1C | |
| | 2 | 400-B48-1P | 400-608 | |
| | 2-1/2 | | 400-B12-1P | |
| | 3 | MS-855 | | |
| 1/2"-13 UNC | 3/4 | | 400-B38-1C | |

**See Section P - "Tools" - for METRIC and INCH Screw, Bolt, and Nut Gauges, also for the Larger UNI-DRIVER 876-975 and Bits.**

**ASSORTMENT / ASSORTIMENT 805-534A**

**Made to ASME/ANSI B18.6.3**

## SLOTTED MACHINE SCREWS AND HEX NUTS
**Brass, Unplated**

**74 SIZES**
**945 TOTAL PIECES**

Regular Size welded steel drawer has hinged lid and is finished in grey enamel. Will fit into Slide Racks shown on A2.

13-3/8" x 9-1/4" x 2"
Shipping Weight: **4.54 kg** (10 lbs.)

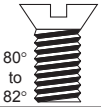
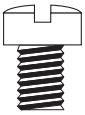


**For the complete assortment contents turn to A28**



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B

| SLOT DRIVE 18-8 STAINLESS STEEL Inch Sizes | | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW PKG QTY. 100 | | | | Head/Body & Slot Dimensions to ASME B18.6.3 |
|---|---|---|---|---|---|---|
| | |  |  80° to 82° |  |  | |
| DIAMETER | L. | ROUND | FLAT | BINDING | FILLISTER | |
| 000-120 | 3/16 | | MS-2447 | | | |
| | | | | | | |
| 0-80 UNF | 1/8 | | MS-2029 | MS-2030 | | |
| | 3/16 | | 420-A47-1W | MS-2032 | | |
| | 1/4 | | | | MS-2413 | |
| | 5/16 | | MS-2033 | MS-2034 | | |
| | 7/16 | | MS-2035 | | | |
| | 1/2 | | | MS-2036 | MS-2433 | |
| 1-72 UNF | 3/16 | | MS-2039 | | 420-A04-2Y | |
| | 5/16 | | | | 420-A56-1N | |
| 2-56 UNC | 1/8 | 420-A42-1Y | MS-2415 | | MS-2046 | |
| | 3/16 | MS-2048 | MS-2047 | 420-A48-1M | MS-2049 | |
| | 1/4 | MS-2052 | 420-A03-2P | MS-2054 | MS-2053 | |
| | 5/16 | MS-2056 | MS-2055 | 420-A14-1A | MS-2057 | |
| | 3/8 | 420-A41-1P | 420-A13-1X | MS-2061 | MS-2060 | |
| | 7/16 | MS-2062 | | | | |
| | 1/2 | MS-2063 | MS-2008 | 420-A30-1Y | MS-2064 | |
| | 5/8 | MS-2066 | 420-A89-1P | | 420-472 | |
| | 3/4 | MS-2163 | | | | |
| | 1 | MS-2404 | 420-474 | | | |
| 3-48 UNC | 1/8 | MS-2067 | | | | |
| | 3/16 | MS-2070 | 420-A45-1T | | 420-A46-1K | |
| | 1/4 | MS-2073 | MS-2072 | MS-2075 | | |
| | 5/16 | MS-2077 | MS-2076 | MS-2078 | | |
| | 3/8 | MS-2080 | MS-2079 | MS-2081 | MS-2429 | |
| | 5/8 | | MS-2082 | | 420-459 | |
| | 3/4 | | 420-466 | | | |

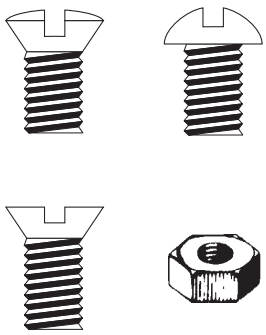
**ASSORTMENT 805-525**
**ASSORTIMENT**

## MACHINE SCREWS and HEX NUTS

**18-8 STAINLESS STEEL**

**72 SIZES - 1043 PIECES**

Shipping Weight **4.19 kg** (9-1/4 lbs.)







**For the complete assortment contents turn to A29**



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

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**SLOT DRIVE**
# 18-8 STAINLESS STEEL
**Inch Sizes**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**
**PKG QTY. 100 - ALL ITEMS**

**Made to ASME B18.6.3**

| DIAMETER | L. | OVAL (80° to 82°) | ROUND | FLAT (80° to 82°) | BINDING | FILLISTER | TRUSS | PAN |
|---|---|---|---|---|---|---|---|---|
| 4-40 UNC | 1/8 | | MS-2083 | 420-002 | | | | |
| | 3/16 | | MS-2085 | MS-2084 | MS-2087 | MS-2086 | | |
| | 1/4 | MS-2090 | 420-A52-1A | 420-A07-1T | MS-2092 | MS-2091 | | |
| | 5/16 | MS-2095 | MS-2094 | 420-A05-2C | MS-2096 | | | |
| | 3/8 | MS-2098 | MS-2010 | 420-A43-1C | MS-2100 | 420-A35-1W | | |
| | 7/16 | | MS-2102 | MS-2101 | | | | |
| | 1/2 | MS-2104 | 420-A61-1W | 420-A72-1K | MS-2106 | MS-2105 | | |
| | 5/8 | | 420-A08-1K | MS-2107 | 420-A18-1N | MS-2420 | | |
| | 3/4 | | MS-2111 | MS-2110 | | | | |
| | 7/8 | | MS-2112 | | | | | |
| | 1 | | 420-A93-1C | MS-2113 | MS-2450 | | | |
| | 2 | | | | | | | 420-A49-1X |
| 5-40 UNC | 1/4 | | | | | | | 420-475 |
| | | | | | | | | |
| 6-32 UNC | 3/16 | | MS-2116 | MS-2115 | MS-2118 | | | |
| | 1/4 | 420-A83-1T | MS-2120 | ■MS-2119 | 420-A02-2A | 420-A39-1P | 420-A31-1C | |
| | 5/16 | MS-2127 | MS-2126 | MS-2125 | MS-2128 | | | 420-001 |
| | 3/8 | 420-A55-1C | MS-2130 | MS-2129 | 420-A38-1A | MS-2132 | 420-A36-1M | |
| | 7/16 | MS-2136 | MS-2135 | | 420-A75-1X | | | |
| | 1/2 | 420-A96-1K | 420-A94-1N | 420-A97-1W | 420-A85-1W | MS-2020 | MS-2142 | |
| | 5/8 | MS-2144 | 420-460 | MS-2143 | MS-2145 | | | |
| | 3/4 | MS-2148 | MS-2147 | 420-A64-1A | 420-A88-1A | MS-2149 | | |
| | 7/8 | MS-2151 | 420-A09-1W | | | MS-2152 | | |
| | 1 | MS-2155 | MS-2154 | MS-2153 | 420-A76-1A | 420-A06-1N | | |
| | 1-1/4 | MS-2159 | MS-2158 | MS-2157 | | MS-2160 | | |
| | 1-1/2 | | MS-2162 | MS-2161 | MS-2422 | | | |
| | 1-3/4 | | MS-2164 | | | | | |
| | 2 | | MS-2166 | 400-B69-1M | | | | |
| | 3 | | | | | | | 420-A23-1W |
| 8-32 UNC | 1/4 | MS-2169 | MS-2025 | MS-2168 | 420-A28-1Y | 420-A92-1Y | | |
| | 5/16 | | 420-A19-1T | | 420-457 | MS-2173 | | |
| | 3/8 | 420-A98-1M | MS-2174 | 420-B07-1A | 420-A65-1P | MS-2176 | MS-2178 | |
| | 1/2 | 420-A99-1X | MS-2013 | MS-2016 | 420-B08-1P | 420-A54-1Y | MS-2182 | |
| | 5/8 | MS-2184 | MS-2183 | MS-2448 | MS-2185 | | | |
| | 3/4 | MS-2188 | MS-2187 | 420-A86-1M | MS-2024 | 420-A82-1N | 420-A87-1X | |
| | 7/8 | 420-484 | 420-493 | | MS-2190 | | | |
| | 1 | MS-2193 | 420-A79-1C | MS-2191 | MS-2195 | MS-2194 | MS-2002 | |
| | 1-1/4 | MS-2197 | MS-2196 | | MS-2412 | MS-2198 | | |
| | 1-1/2 | MS-2200 | MS-2199 | 420-470 | MS-2421 | | | |
| | 1-3/4 | | MS-2201 | | | | | |
| | 2 | | 420-A32-1N | MS-2202 | MS-2451 | | | |
| | | ■ **420-492** 316 Stainless Steel | | | | | | |

For Stainless Steel Machine Screw Nuts see Page C2



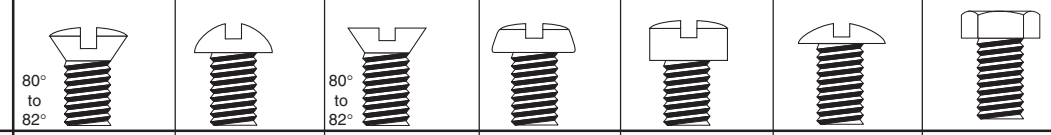
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B

**SLOT DRIVE**
**18-8 STAINLESS STEEL**
**Inch Sizes**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**
**PKG QTY. 100**

**Head/Body & Slot Dimensions to ASME B18.6.3**




| DIAMETER | L. | OVAL | ROUND | FLAT | BINDING | FILLISTER | TRUSS | UNSLOTTED HEXAGON |
|---|---|---|---|---|---|---|---|---|
| 10-24 UNC | 1/4 | | 420-A77-1P | | | MS-2436 | | 5/16" Across Flats |
| | 3/8 | | MS-2204 | MS-2017 | MS-2206 | MS-2205 | | |
| | 3/8 | | | | 420-455 (Pan Head) | | | |
| | 1/2 | MS-2209 | 420-A25-1X | MS-2207 | 420-467 (Pan Head) | | MS-2210 | 428-A04-1N |
| | 5/8 | MS-2213 | MS-2212 | 420-A80-1Y | MS-2215 | 420-A24-1M | MS-2216 | |
| | 3/4 | MS-2219 | MS-2218 | 420-A95-1T | MS-2221 | MS-2220 | MS-2222 | 428-A02-1Y |
| | 7/8 | | MS-2223 | 420-497 | MS-2225 | | | |
| | 1 | 420-A26-1A | MS-2226 | 420-A84-1K | | MS-2228 | MS-2229 | ▲428-A03-1C |
| | 1-1/4 | MS-2232 | MS-2231 | MS-2230 | | | MS-2440 | |
| | 1-1/2 | | MS-2235 | MS-2234 | | MS-2236 | | |
| | 1-3/4 | | 420-A37-1X | MS-2237 | | | | |
| | 2 | | MS-2240 | MS-2239 | MS-2452 | | | |
| | 2-1/2 | | 420-479 | | | | | |
| | 3 | | | 420-485 | | | | |
| 10-32 UNF | 1/4 | | MS-2242 | 420-A15-1P | MS-2244 | MS-2243 | | |
| | 5/16 | | MS-2246 | MS-2245 | 420-461 | 420-A69-1T | | |
| | 3/8 | MS-2249 | MS-2248 | MS-2027 | MS-2250 | 420-A78-1Y | MS-2251 | |
| | 1/2 | MS-2253 | 420-A16-1Y | MS-2018 | 420-A44-1N | 420-A40-1A | MS-2255 | 428-004 |
| | 5/8 | | MS-2257 | 420-A81-1C | MS-2258 | 420-B06-1X | 420-487 | |
| | 3/4 | MS-2260 | MS-2259 | MS-2021 | MS-2262 | MS-2261 | MS-2263 | 428-A05-1T |
| | 7/8 | MS-2265 | MS-2264 | | MS-2267 | 420-A67-1C | | |
| | 1 | MS-2270 | MS-2269 | MS-2268 | MS-2271 | MS-2437 | MS-2443 | 428-001 |
| | 1-1/4 | MS-2273 | 420-A71-1T | | | 420-B01-1N | | 428-002 |
| | 1-1/2 | MS-2277 | 420-A63-1X | MS-2275 | | 420-A12-1M | | |
| | 1-3/4 | | MS-2279 | | | | | |
| | 2 | | 420-A62-1M | MS-2280 | | | | 428-005 |
| | 2-1/2 | | MS-2425 | | | | (Trim Head) | 428-A01-1P |
| 12-24 UNC | 3/8 | | MS-2282 | | | | | |
| | 1/2 | | MS-2284 | 420-A57-1T | | | | |
| | 5/8 | | MS-2286 | MS-2285 | | | | |
| | 3/4 | | 420-A74-1M | | | | | |
| | 7/8 | | MS-2288 | | | | | |
| | 1 | | 420-A73-1W | MS-2289 | | | | |
| | 1-1/4 | | 420-B10-1P | | | | | |
| | 1-1/2 | | MS-2292 | | | | | |
| | 2 | | | MS-2293 | | | | |
| 1/4"-20 UNC | 3/8 | | MS-2294 | MS-2398 | | MS-2296 | | |
| | 7/16 | | MS-2297 | | | | | |
| | 1/2 | MS-2299 | MS-2298 | 420-465 | | 420-A34-1K | MS-2301 | |
| | 5/8 | MS-2304 | MS-2303 | MS-2302 | | MS-2305 | | |
| | 3/4 | MS-2306 | MS-2005 | 420-A68-1N | | 420-A51-1X | 420-A50-1M | |
| | 7/8 | | | | MS-2309 | | | |


**See Stainless Hex Cap Screws Page B151.**


▲ Indented Head **428-008**


Continued on the next page...



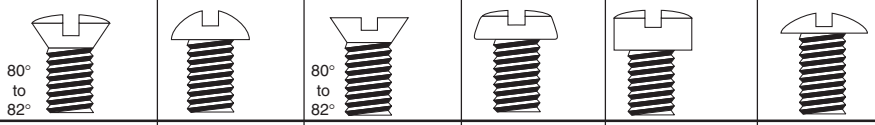


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**SLOT DRIVE**
# 18-8 STAINLESS STEEL
**Inch Sizes**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**
**PKG QTY. 100 (unless stated otherwise)**

**Made to ASME B18.6.3**




| DIA. | L. | OVAL | ROUND | FLAT | BINDING | FILLISTER | TRUSS |
|---|---|---|---|---|---|---|---|
| Continued from Previous Page | 1 | 420-B04-1W | 420-A59-1W | 420-B03-1K | | MS-2312 | MS-2001 |
| | 1-1/4 | MS-2314 | 420-A60-1K | 420-464 | 420-B09-1Y | MS-2315 | MS-2445 |
| | 1-1/2 | MS-2318 | 420-A66-1Y | 420-462 | | MS-2319 | 420-A17-1C |
| | 1-3/4 | | 420-A10-1K | | | | |
| | 2 | 420-489 | 420-B05-1M | MS-2004 | | 420-A01-1X | 420-490 |
| 1/4"-20 UNC | 2-1/4 | | MS-2323 | | | | |
| | 2-1/2 | | MS-2325 | MS-2324 | | | 420-486 |
| | 3 | | MS-2326 | 420-476 | | | |
| | 3-1/2 | | | 420-477 | | | |
| | 4 | | | 420-A22-1K | | | |
| | 4-1/2 | | | 420-A20-1N | | | |
| | 5 | | | ▲420-A70-1N | | | |
| 1/4"-28 UNF | 1/2 | | MS-2431 | MS-2411 | | | |
| | 1 | | MS-2456 | MS-2442 | | | |
| 5/16"-18 UNC | 1/2 | | MS-2328 | MS-2327 | | | |
| | 3/4 | | 420-A91-1P | 420-A58-1K | | | |
| | 7/8 | | | MS-2331 | | | |
| | 1 | | MS-2333 | MS-2332 | | | |
| | 1-1/4 | | MS-2334 | MS-2406 | | | |
| | 1-1/2 | | 420-A21-1T | MS-2335 | | | |
| | 1-3/4 | | 420-A53-1P | 420-006 | | | |
| | 2 | | 420-A27-1P | 420-A29-1C | | | |
| | 2-1/2 | 420-480 | | MS-2338 | | | |
| 3/8"-16 UNC | 3/4 | | | 420-B02-1T | | | |
| | 1 | | 420-A90-1A | 420-A33-1T | | | |
| | 1-1/4 | | | MS-2340 | | | |
| | 1-1/2 | | MS-2341 | 420-468 | | | 420-463 |
| | 2 | | | MS-2342 | | | |
| | 2-1/2 | | MS-2410 | 420-456 | | | |
| 1/2"-13 UNC | 3/4 | | | *420-496 | | | |
| | 1-1/4 | | | *420-A11-1W | | | |
| | 1-1/2 | | | *420-491 | | | |
| | 3-1/2 | | | *420-471 | | | |

▲ PKG QTY. 50 *PKG QTY. 25

SPAENAUR
*Fasteners Right Now®*

See our Inch & Metric Series Head Dimension Charts on Pages R10-R11



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PKG QTY. 100

## ALUMINUM SLOT DRIVE
**GRADE 2024-T4**
**ORDER BY *SPAENAUR No.* LISTED BELOW**

**Head Body & Slot Dimensions to ASME B18.6.3**

| Inch Sizes | | 80° to 82° | | 80° to 82° | |
|---|---|---|---|---|---|
| DIA. | L. | OVAL | ROUND | FLAT | TRUSS |
| 6-32 UNC | 1/4 | | MS-3012 | | |
| | 1 | | 436-035 | | |
| 8-32 UNC | 1/4 | | | | ■436-A02-1A |
| | 3/8 | | | | ■436-A01-1X |
| | 1/2 | | MS-3014 | | |
| | 5/8 | | MS-3018 | | |
| | 1 | | 436-022 | | |
| 10-24 UNC | 1/4 | | 436-027 | | |
| | 1/2 | | 436-028 | MS-3008 | |
| | 5/8 | | | ▲436-029 | |
| | 3/4 | | 436-023 | MS-3009 | |
| | 1 | MS-3019 | MS-3021 | | |
| | 1-1/4 | | | MS-3011 | |
| | 2 | | | MS-3010 | |

| Inch Sizes | | | 80° to 82° |
|---|---|---|---|
| DIA. | L. | ROUND | FLAT |
| 10-32 UNF | 1/2 | MS-3002 | |
| | 1 | 436-036 | |
| 1/4"-20 UNC | 1/2 | 436-031 | |
| | 3/4 | | 436-024 |
| | 1 | MS-3016 | MS-3015 |
| | 1-1/4 | | 436-034 |
| | 1-1/2 | 436-032 | MS-3013 |
| 5/16"-18 UNC | 1 | 436-037 | |
| | 1-1/2 | 436-033 | |

▲ or **436-030** Flat SOCKET Head
■ Binder Post Screws with Low Profile - not to standard Truss Head specifications.

**ALUMINUM HEX BOLTS** See page B152

| Name | Spaenaur No. | Thread | Screw | Qty. | Page |
|---|---|---|---|---|---|
| Slotted Round Head Nylon Machine Screws | 445-052 | #2-56 | 1/2" | 50 | B23 |
| | 445-007 | | 3/4" | | |
| | 445-B06-1K | #4-40 | 1/4" | | |
| | 445-013 | | 5/16" | | |
| | MS-5007 | | 3/8" | | |
| | 445-029 | | 1/2" | | |
| | 445-053 | | 3/4" | | |
| | MS-5009 | | 1" | | |
| | MS-5008 | #6-32 | 1/4" | | |
| | 445-030 | | 3/8" | | |
| | MS-5012 | | 1/2" | | |
| | MS-5011 | | 5/8" | | |
| | 445-054 | | 3/4" | | |
| | MS-5010 | | 1" | | |
| | 445-111 | #8-32 | 1/4" | | |
| | 445-112 | | 5/16" | | |
| | 445-031 | | 3/8" | | |
| | 445-032 | | 1/2" | | |
| | 445-033 | | 3/4" | | |
| | MS-5001 | | 1" | | |
| | 445-136 | #10-24 | 1/4" | | |
| | 445-137 | | 5/16" | | |
| | 445-058 | | 3/8" | | |
| | 445-059 | | 1/2" | | |
| | 445-060 | | 3/4" | | |
| | 445-056 | | 1" | | |
| | 445-155 | #10-32 | 1/4" | | B24 |
| | 445-161 | | 5/16" | | |
| | 445-034 | | 3/8" | | |
| | 445-035 | | 1/2" | | |
| | 445-036 | | 3/4" | | |
| | MS-5005 | | 1" | | |
| | 445-062 | | 1-1/4" | | |
| | 445-179 | | 1-1/2" | | |
| | 445-186 | 1/4"-20 | 5/16" | | |
| | 445-190 | | 3/8" | | |
| | 445-055 | | 1/2" | | |
| | MS-5004 | | 3/4" | | |
| | 445-024 | | 1" | | |
| | 445-063 | | 1-1/4" | | |

Table Continues

**ASSORTMENT 805-641**
**ASSORTIMENT**

**6/6 Nylon Slot Drive**
**71 SIZES - 3475 PIECES**



## Machine Screws with Hex Nuts & Flat Washers

Furnished in Large Size, Grey Enamelled STEEL Drawer, with scooped bins. Drawer will fit into the Slide Racks shown on page A3. 18" x 12" x 3". Shipping weight **4.5 kg** (10 lbs.)

| Name | Spaenaur No. | Thread | Screw | Qty. | Page |
|---|---|---|---|---|---|
| Slotted Flat Head Nylon Machine Screws | 445-037 | #4-40 | 1/4" | 50 | B23 |
| | MS-5018 | | 1/2" | | |
| | 445-038 | | 3/4" | | |
| | 445-039 | | 1" | | |
| Slotted Fillister Head Nylon Machine | MS-5003 | #6-32 | 1/4" | | |
| | MS-5014 | | 1/2" | | |
| | MS-5015 | | 3/4" | | |
| | 445-083 | | 1" | | |
| Slotted Pan Head Nylon Machine Screws | 445-124 | #8-32 | 1/4" | | |
| | 445-B01-1A | | 1/2" | | |
| | 445-126 | | 1" | | |
| Slotted Binding Head Nylon Machine Screws | 445-159 | #10-32 | 1/4" | | B24 |
| | 445-077 | | 1/2" | | |
| | 445-078 | | 3/4" | | |
| | 445-079 | | 1" | | |
| Slotted Hex Head Nylon Machine Screws | 445-196 | 1/4"-20 | 1/2" | 25 | |
| | 445-200 | | 1" | | |
| | 445-204 | | 1-1/2" | | |
| Hex Nuts Nylon | HN-5000 | #2-56 | | 50 | C8 |
| | 163-A01-1P | #4-40 | | | |
| | HN-5002 | #6-32 | | | |
| | HN-5003 | #8-32 | | | |
| | HN-5004 | #10-24 | | | |
| | HN-5005 | #10-32 | | | |
| | HN-5006 | 1/4"-20 | | | |
| Flat Washers Nylon | 654-001 | #2 | | | D10 |
| | 654-G02-1A | #4 | | | |
| | W-5001 | #6 | | | |
| | 654-G06-1N | #8 | | | D10 H34 |
| | W-5003 | #10 | | 100 | |
| | W-5004 | 1/4" | | 50 | |







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**SLOT DRIVE**
# NYLON
**6/6** **UL94V2**
(Natural Colour)
**Inch Sizes**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**
**PKG QTY. 100**




| DIAMETER | L. | ROUND | FLAT | FILLISTER | PAN | BINDING | SLOTTED HEXAGON | Hex Width |
|---|---|---|---|---|---|---|---|---|
| 2-56 UNC | 1/8 | | | | 445-001 | | | 1/8" |
| | 3/16 | | | | 445-002 | | | |
| | 1/4 | | | 445-009 | 445-003 | MS-5019 | 445-010 | |
| | 1/2 | 445-052 | | | 445-004 | | | |
| | 3/4 | 445-007 | | | 445-005 | | 445-011 | |
| | 1 | 445-008 | | | 445-006 | | | |
| 4-40 UNC | 1/4 | 445-B06-1K | 445-037 | | | | 445-085 | 3/16" |
| | 5/16 | 445-013 | 445-014 | | | 445-021 | | |
| | 3/8 | MS-5007 | 445-015 | | 445-017 | 445-028 | | |
| | 1/2 | 445-029 | MS-5018 | 445-051 | 445-018 | | 445-086 | |
| | 3/4 | 445-053 | 445-038 | 445-050 | 445-019 | 445-B07-1W | | |
| | 1 | MS-5009 | 445-039 | | 445-020 | | 445-087 | |
| | 1-1/4 | | | | | 445-022 | | |
| | 1-1/2 | 445-091 | | | | | | |
| 6-32 UNC | 1/4 | MS-5008 | 445-040 | ▲445-207 | 445-097 | | 445-106 | 1/4" |
| | 3/8 | 445-030 | 445-041 | | | 445-070 | | |
| | 1/2 | MS-5012 | 445-042 | MS-5014 | 445-098 | | 445-107 | |
| | 5/8 | MS-5011 | | | | 445-103 | | |
| | 3/4 | 445-054 | MS-5021 | MS-5015 | 445-099 | MS-5020 | 445-108 | |
| | 1 | MS-5010 | 445-043 | 445-083 | | 445-071 | | |
| | 1-1/4 | 445-057 | 445-092 | | 445-100 | | | |
| | 1-1/2 | 445-089 | | | | 445-105 | 445-109 | |
| | 1-3/4 | 445-090 | | | | | | |
| 8-32 UNC | 3/16 | 445-110 | | | | | | 1/4" |
| | 1/4 | 445-111 | 445-118 | | 445-124 | | | |
| | 5/16 | 445-112 | 445-119 | | | | | |
| | 3/8 | 445-031 | 445-044 | MS-5017 | | MS-5023 | 445-132 | |
| | 1/2 | 445-032 | MS-5002 | | 445-B01-1A | | | |
| | 3/4 | 445-033 | 445-045 | | | 445-072 | 445-133 | |
| | 1 | MS-5001 | 445-046 | MS-5013 | 445-126 | 445-073 | | |
| | 1-1/4 | 445-113 | | | | | | |
| | 1-1/2 | 445-114 | | | | | 445-134 | |
| | 1-3/4 | 445-115 | | | 445-127 | | | |
| | 2 | 445-116 | | | 445-128 | | | |
| 10-24 UNC | 3/16 | 445-135 | | | | | 445-149 | 5/16" |
| | 1/4 | 445-136 | | 445-141 | 445-144 | *445-084 | 445-150 | |
| | 5/16 | 445-137 | | | | 445-147 | | |
| | 3/8 | 445-058 | | | | | | |
| | 1/2 | 445-059 | 445-025 | 445-142 | 445-145 | 445-074 | 445-151 | |
| | 3/4 | 445-060 | 445-065 | | | 445-075 | | |
| | 1 | 445-056 | 445-066 | 445-143 | 445-146 | 445-076 | | |
| | 1-1/4 | 445-061 | | | | | 445-152 | |

▲**MS-5003**, Black *Black





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B

**SLOT DRIVE**

# NYLON

**6/6 Polyamide**

(Natural Colour)

**Inch Sizes**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**

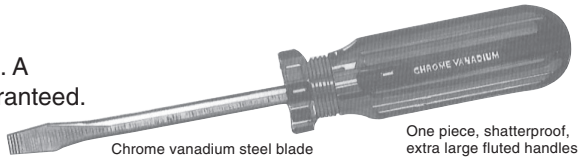
**PKG QTY. 100**

| DIA. | L. | ROUND | FLAT (80° to 82°) | FILLISTER | PAN | BINDING | SLOTTED HEXAGON | Hex Width |
|---|---|---|---|---|---|---|---|---|
| 10-32 UNF | 3/16 | | | | 445-154 | | | 5/16" |
| | 1/4 | 445-155 | 445-156 | 445-157 | 445-158 | 445-159 | 445-160 | |
| | 5/16 | 445-161 | 445-162 | | | 445-163 | | |
| | 3/8 | 445-034 | 445-047 | 445-164 | 445-165 | | | |
| | 1/2 | 445-035 | MS-5022 | 445-166 | 445-167 | 445-077 | 445-169 | |
| | 3/4 | 445-036 | 445-048 | 445-170 | 445-171 | 445-078 | 445-173 | |
| | 1 | MS-5005 | 445-049 | 445-174 | | 445-079 | 445-176 | |
| | 1-1/4 | 445-062 | 445-177 | | 445-178 | 445-027 | | |
| | 1-1/2 | 445-179 | 445-180 | 445-181 | | 445-182 | | |
| | 2 | 445-183 | | | 445-185 | | | |
| 1/4"-20 UNC | 5/16 | 445-186 | | 445-188 | | 445-189 | | 3/8" |
| | 3/8 | 445-190 | | | 445-192 | | | |
| | 1/2 | *445-055 | 445-B08-1M | 445-194 | | 445-195 | 445-196 | |
| | 3/4 | MS-5004 | 445-067 | 445-197 | 445-198 | | | |
| | 1 | 445-024 | MS-5006 | MS-5016 | | 445-081 | 445-200 | |
| | 1-1/4 | 445-063 | 445-068 | | | 445-201 | | |
| | 1-1/2 | 445-064 | | 445-202 | 445-203 | 445-082 | 445-204 | |
| | 2 | MS-5000 | | | | 445-205 | 445-206 | |
| 5/16"-18 UNC | 3/4 | | | 445-026 | | | | 17/40" |
| | | | | | | | | |

***445-088** Black

## FULLER "PRO 300" SCREWDRIVERS

Industrial quality and strength. Preferred by professionals. A prefect combination of rugged durability and comfort-guaranteed. Available in Slotted, Phillips or Robertson Drive.




Chrome vanadium steel blade for strength and durability. Chrome Plated to resist rust.

One piece, shatterproof, extra large fluted handles for maximum comfort and torque.

| *Spaenaur No.* | Tip Width | Blade Length | For Screw Sizes |
|---|---|---|---|
| **POCKET SCREWDRIVER with clip** | | | |
| **876-1870** | 1/8" | 3" | #1, 2, 3 |
| **ELECTRICIAN'S SCREWDRIVER** | | | |
| **876-1871** | 3/16" | 4" | #4, 5, 6 |
| **MECHANIC'S SCREWDRIVER** | | | |
| **876-1872** | 1/4" | 4" | #7, 8, 9 |
| **876-1873** | 5/16" | 6" | #10 |
| **876-1874** | 3/8" | 8" | #12,14,16 |
| **Genuine PHILLIPS TIP SCREWDRIVERS** | **Tip #** | | |
| **876-1875** | 0 | 2-1/2" | #0, 1 |
| **876-1876** | 1 | 3" | #2, 3, 4 |
| **876-1877** | 2 | 4" | #5, 6, 7, 8, 9,10 |
| **876-1878** | 3 | 6" | #12, 14, 16 |
| **Genuine ROBERTSON TIP SCREWDRIVERS** | | | |
| **876-1879** | 0 | 4" | #3, 4 |
| **876-1880** | 1 | 4" | #5, 6, 7 |
| **876-1881** | 2 | 5" | #8, 9, 10 |
| **876-1882** | 3 | 5" | #12, 14 |













For a great selection of Screwdrivers see Section P of our Catalog.





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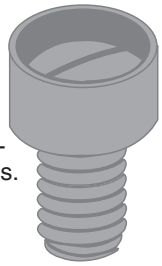
# Nylon Metal Core Screws - Slot Drive

## Vis de nylon à âme métallique – prise fendue



**The shear strength of heat-treated steel and the dielectric insulation, corrosion resistance and vibration resistance of nylon.**

*These reinforced screws will provide up to 4 times the strength of standard nylon fasteners.*



Due to the corrosion resistant nature of the nylon, the Metal Core Screws can, in certain applications, replace expensive Stainless Steel, Brass and Monel fasteners at a substantial cost savings.

Metal-Core Screws are recommended in applications requiring electrical, thermal and vibration insulation in shear or double shear connections. The reinforcing core incorporates a recessed metal head that permits tightening with high speed, high torque automatic drives.





**ROUND HEAD**

| Thead Size | 6-32 | 8-32 | 10-32 | 1/4-20 |
|---|---|---|---|---|
| Head diameter | .255 | .300 | .350 | .460 |
| Head height | .095 | .120 | .130 | .170 |

### NYLON SHELL

Nylon 6/6 Natural
High dielectric resistance
Corrosion resistant
Vibration, abrasion resistant



**FILLISTER HEAD**

| Thread Size | 6-32 | 8-32 | 10-32 | 1/4-20 |
|---|---|---|---|---|
| Head diameter | .215 | .260 | .300 | .400 |
| Head height | .100 | .140 | .160 | .220 |

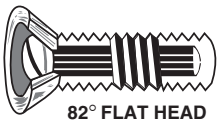


**ROUND WASHER HEAD**

| Thread Size | 6-32 | 8-32 | 10-32 | 1/4-20 |
|---|---|---|---|---|
| Head diameter | .230 | .265 | .315 | .460 |
| Head height | .100 | .110 | .130 | .175 |
| Washer thick. | .025 | .032 | .036 | .056 |
| Washer dia. | .300 | .370 | .425 | .550 |

### REINFORCING CORE

High strength, high carbon C.H.Q. steel.
Precision cold formed and knurled.
Electro zinc or cadmium plated.



**82° FLAT HEAD**

| Thread Size | 6-32 | 8-32 | 10-32 | 1/4-20 |
|---|---|---|---|---|
| Head diameter | .265 | .305 | .365 | .480 |
| Head height | .085 | .100 | .120 | .155 |

| DIAMETER | LENGTH | Order by *SPAENAUR No's.* listed below. ROUND HEAD | ROUND WASHER HD. | FILLISTER HEAD | FLAT HEAD | PKG QTY. |
|---|---|---|---|---|---|---|
| 6-32 UNC | 1/4" | 445-300 | 445-320 | 445-340 | 445-360 | 100 |
| | 3/8" | 445-B05-1T | 445-321 | 445-341 | 445-361 | 100 |
| | 1/2" | 445-302 | 445-322 | 445-342 | 445-362 | 100 |
| | 5/8" | — | — | 445-343 | 445-363 | 100 |
| 8-32 UNC | 3/8" | 445-305 | 445-325 | 445-345 | 445-365 | 100 |
| | 1/2" | 445-306 | 445-326 | 445-346 | 445-366 | 100 |
| | 3/4" | — | — | 445-347 | 445-367 | 100 |
| 10-32 UNF | 3/8" | 445-309 | 445-329 | 445-349 | 445-369 | 100 |
| | 1/2" | 445-310 | 445-330 | 445-350 | 445-370 | 100 |
| | 3/4" | 445-311 | — | 445-351 | 445-371 | 100 |
| | 1" | 445-312 | — | — | — | 100 |
| 1/4"-20 UNC | 3/8" | 445-313 | 445-333 | 445-353 | 445-373 | 100 |
| | 1/2" | 445-314 | 445-334 | 445-354 | 445-374 | 100 |
| | 5/8" | 445-315 | 445-335 | 445-355 | 445-375 | 100 |
| | 3/4" | 445-316 | 445-336 | 445-356 | 445-376 | 100 |
| | 1" | 445-317 | 445-337 | 445-357 | 445-377 | 50 |
| | 1-1/2" | 445-319 | — | — | — | 50 |

| SIZE | MAX TORQUE BEFORE DEFORMATION | ULTIMATE TORQUE | Tensile Test YIELD LBS. | Tensile Test BREAK LBS. | Double Shear YIELD LBS. | Double Shear BREAK LBS. |
|---|---|---|---|---|---|---|
| 6-32 | 1 In. Lbs. | 1.5 In. Lbs. | 24 | 32 | 200 | 240 |
| 8-32 | 3 In. Lbs. | 4 In. Lbs. | 66 | 72 | 300 | 360 |
| 10-32 | 5 In. Lbs. | 6 In. Lbs. | 96 | 104 | 600 | 640 |
| 1/4-20 | 12 In. Lbs. | 13 In. Lbs. | 120 | 174 | 1400 | 1600 |

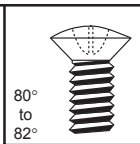
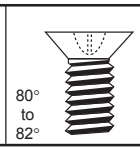
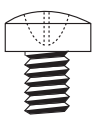


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B

| PHILLIPS DRIVE **STEEL** Inch Sizes | |  80° to 82° |  |  80° to 82° |  |  |  |  |
|---|---|---|---|---|---|---|---|---|
| | | NICKEL PLATED | ZINC PLATED | | | | | |
| **DIAMETER** | **L.** | **OVAL** | **◆ ROUND** | **FLAT** | **BINDING** | **PAN** | **FILLISTER** | **TRUSS** |
| **2-56 UNC** | 3/16 | | | **385-029** | | **385-B46-1X** | | |
| | 5/16 | | | **MS-1242P** | | **385-B47-1A** | | |
| | 3/8 | | | **MS-332P** | | **385-275** | **Made to ASME B18.6.3** | |
| **3-48 UNC** | 3/16 | | | | | **385-074** | | |
| | 5/16 | | | **385-B87-1Y** | | **385-075** | | |
| **4-40 UNC** | 3/16 | | **385-005** | **385-B93-1K** | | **385-B53-1N** | **385-122** | **385-B19-1M** |
| | 3/16 | | | **▲ 385-204** (100° Ctsk. Hd.) | | | | |
| | 1/4 | | **MS-327P** | **◗■385-B74-1W** | | **385-B67-2K** | **385-123** | **MS-1283P** |
| | 5/16 | | | | | **385-B77-1P** | | |
| | 3/8 | **MS-1180P** | **385-B22-1X** | **385-030** | **385-B62-1P** | **385-B09-1A** | **385-124** | **385-167** |
| | 1/2 | | **385-B90-1C** | **385-B05-1K** | **385-B49-1Y** | **385-B44-2W** | **385-125** | **385-168** |
| | 5/8 | **B-344** | **385-008** | **385-B30-1T** | | **385-B69-2M** | **385-126** | **385-169** |
| | 3/4 | | **385-B34-1X** | **385-033** | | **385-B72-1T** | **385-127** | **385-170** |
| **5-40 UNC** | 1-1/4 | | | | | **385-276** | | |
| **6-32 UNC** | 3/16 | | | **385-B32-1W** | | | | |
| | 1/4 | | **385-B06-1W** | **385-B11-1A** | **MS-197P** | **385-B12-1P** | **385-128** | **385-171** |
| | 5/16 | **MS-325P** | **385-273** | **MS-246P** | | **385-B45-1M** | **385-129** | |
| | 3/8 | **385-B75-1T** | **385-C34-1N** | **385-C07-1C** | **MS-370P** | **385-B71-2P** | **385-130** | **385-B28-2T** |
| | 7/16 | | | **385-035** | | **385-B78-1T** | | |
| | 1/2 | **B-416** | **MS-423P** | **385-B97-1A** | **●385-B13-1Y** | **385-B70-1W** | | **385-C23-1T** |
| | 9/16 | | | | | **385-C08-1N** | | |
| | 5/8 | **B-417** | **385-010** | **MS-334P** | | **385-083** | **385-131** | **385-B96-1X** |
| | 3/4 | **1405** | **385-011** | **385-B80-1T** | **MS-1298P** | **385-084** | **385-132** | **385-175** |
| | 7/8 | | **385-B42-1T** | **385-036** | **385-C14-1M** | **385-B24-1P** | **385-B24-1P** | |
| | 1 | **385-258** | **MS-328P** | **385-037** | **385-C03-1X** | **385-B25-1Y** | **385-133** | **385-176** |
| **8-32 UNC** | 3/16 | | | | **MS-1300P** | **385-087** | | |
| | 1/4 | **MS-1182P** | **385-B55-1K** | **385-B29-1K** | **385-B20-1W** | **385-B52-1C** | **385-134** | **385-177** |
| | 5/16 | | **385-B95-1M** | **385-039** | **2209** | **385-B89-1N** | **385-135** | **385-B92-1T** |
| | 3/8 | | | **385-B58-1X** | **385-C11-1T** | **385-B68-2C** | **385-136** | **385-178** |
| | 7/16 | | | **2030** | **385-C15-1X** | **385-090** | | |
| | 1/2 | **B-331** | **B-339** | **385-B03-1N** | | **385-B07-1M** | **385-137** | **385-179** |
| | 5/8 | **2031** | **385-013** | **1887** | | | **385-B27-1N** | **385-180** |
| | 5/8 | | | | | **385-B21-1M** | | |
| | 3/4 | **B-332** | **385-B99-1Y** | **385-B36-1P** | **MS-1304P** | **385-B56-1W** | **385-139** | **385-181** |
| | 7/8 | | | | | **385-093** | | **385-182** |
| | 1 | **1809** | **385-014** | **385-B88-1C** | | **385-B51-1Y** | **385-140** | **385-C37-1W** |
| | 1-1/4 | | **385-B63-1Y** | **385-C10-1N** | | **385-251** | **385-141** | **385-C38-1M** |
| | 1-1/2 | | **385-016** | **385-042** | | **385-C39-1X** | **385-142** | **385-185** |
| | 1-3/4 | | | **385-043** | | **385-C13-1W** | | |
| | 2 | | **385-017** | **385-B43-1K** | | **385-C21-1C** | | **385-186** |

■ **385-C32-1Y** Black Zinc Pltd.

◗ **385-B66-1T** 100° Ctsk. Hd.

▲ **385-B41-1N** Black Oxide Finish and 100° Ctsk. Hd.

● **385-211** Black Zinc Finish

◆ Slight Flattening of Head Crown may occur due to formation of Phillips socket recess.

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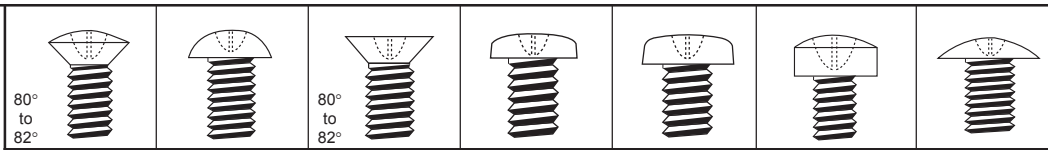



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**PHILLIPS DRIVE**

# STEEL

**Inch Sizes**




| DIAMETER | L. | NICKEL PLATED OVAL | ZINC PLATED ◆ROUND | FLAT | BINDING | PAN | FILLISTER | TRUSS |
|---|---|---|---|---|---|---|---|---|
| 10-24 UNC | 5/16 | | | MS-1044P | | 385-B85-1A | 385-143 | |
| | 3/8 | | MS-1045P | ▲MS-178P | | 385-098 | 385-144 | 385-004 |
| | 1/2 | | 1873 | 385-B61-1A | MS-339P | 385-B26-1C | 385-145 | 385-C17-1P |
| | 5/8 | | MS-329P | 385-045 | MS-210P | 385-C27-1X | 385-146 | 385-187 |
| | 5/8 | *1870S With #8 Trim Head | | | | | | |
| | 3/4 | | 385-B83-1M | 385-046 | 385-B54-1T | 385-101 | 385-147 | MS-1247P |
| | 7/8 | | 385-018 | 385-B65-1N | | 385-102 | | 385-188 |
| | 1 | B-1064 | MS-330P | 385-047 | | 385-103 | 385-148 | 385-189 |
| | 1-1/4 | | 385-019 | MS-251P | MS-227P | 385-104 | 385-149 | 385-190 |
| | 1-1/2 | MS-404P | 385-247 | 385-C36-1K | | 385-105 | 385-150 | 385-191 |
| | 1-3/4 | | 385-B48-1P | | | 385-106 | | |
| 10-32 UNF | 1/4 | | 385-B59-1A | 385-048 | 385-B18-1W | 385-107 | 385-151 | 385-192 |
| | 5/16 | | 385-020 | MS-1151P | 385-C04-1A | 385-C29-1P | 385-152 | |
| | 3/8 | MS-1184P | 385-021 | B-336 | 385-B01-1Y | 385-C31-1P | 385-153 | 385-B37-2Y |
| | 7/16 | | | | | 385-110 | | |
| | 1/2 | | 385-B10-1X | 385-B16-1T | 385-C06-1Y | 385-B02-1C | 385-154 | 385-B15-1N |
| | 1/2 | | | 385-C12-2K (undercut) | | | | |
| | 5/8 | 1810 | 385-022 | 385-B08-1X | 385-B60-1X | 385-C22-1N | MS-1281P | 385-194 |
| | 3/4 | 1811 | B-342 | B-338 | 385-B98-1P | 385-B14-1C | 385-155 | 385-C09-1T |
| | 7/8 | MS-238P | | 385-050 | | 385-B40-1C | | |
| | 1 | | 385-C05-1P | 385-B64-1C | 385-C33-1C | 385-B33-2M | | MS-1357P |
| | 1-1/4 | 1415 | MS-1280P | 385-281 | | 385-116 | 385-157 | 1414 |
| | 1-1/2 | | 385-B57-1M | 385-052 | | 385-117 | MS-1190P | 385-195 |
| | 1-3/4 | | | | | 385-C18-1Y | | |
| | 2 | | MS-1206P | 385-053 | MS-1194P | 385-B39-2N | 385-158 | 385-196 |
| | 2-1/2 | | | 385-054 | | 385-120 | | |
| | 3 | | | 385-055 | | 385-121 | | |
| 12-24 UNC | 3/8 | 385-270 | | 385-260 | | 385-261 | 385-269 | |
| | 1/2 | | | MS-337P | 385-C25-1W | 385-B23-1A | | |
| | 5/8 | | | 385-056 | | 385-263 | | |
| | 3/4 | | 2035-A | 385-057 | | 385-C19-1C | | |
| | 7/8 | | | | | 385-B86-1P | | |
| | 1 | | | 385-C26-1M | | 385-266 | | 385-271 |
| | 1-1/4 | | | 385-059 | | 385-267 | | |
| | 1-1/2 | | | 385-060 | | 385-B35-1A | | |
| | 1-7/8 | | 385-272 | | | | | |

**Made to ASME B18.6.3**

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▲Nickel Plated

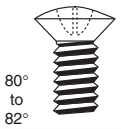
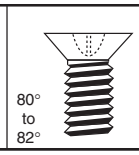
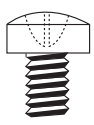
◆ Slight Flattening of Head Crown may occur due to formation of Phillips socket recess.

See our Inch & Metric Series Head Dimension Charts on Pages R10-R11



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B

| PHILLIPS DRIVE STEEL Inch Sizes | |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|
| | | NICKEL PLATED | ZINC PLATED | | | | | |
| DIAMETER | L. | OVAL | ◆ ROUND | FLAT | BINDING | FILLISTER | TRUSS | PAN |
| 1/4"-20 UNC | 3/8 | | 385-202 | | | | 385-206 | |
| | 7/16 | | 1872 | | | | | |
| | 1/2 | B-922 | MS-1210P | ■385-279 | 385-B31-1K | 385-B79-1K | 385-B82-1W | 385-210 |
| | 5/8 | | | 1814 | MS-154P | 385-160 | 385-259 | |
| | 3/4 | MS-199P | 1874 | MS-426P | 385-C28-1A | 385-161 | 385-B04-1T | |
| | 7/8 | | 2016 | | | | | |
| | 1 | | 385-024 | ▲386-C01-1K | MS-156P | 385-162 | 385-B76-1K | 385-209 |
| | 1-1/4 | 2036 | 385-025 | 385-B84-2X | | 385-163 | 385-C02-2M | |
| | 1-1/2 | MS-405P | 385-B17-1K | 385-B81-1K | | 385-164 | 385-198 | 385-B38-1C |
| | 2 | | 385-B91-1N | 385-252 | | 385-165 | 385-199 | 385-212 |
| | 2-1/4 | | 385-027 | 385-253 | | | | |
| | 2-1/2 | | 385-028 | 385-C30-1A | | | 385-B94-1W | |
| | 3 | | 385-249 | 385-C24-1K | | | 385-201 | |
| | 4 | | MS-449P | | | | | |
| 5/16"-18 UNC | 1/2 | | | 385-063 | | | MS-1243P | |
| | 5/8 | | | 385-064 | | | | |
| | 3/4 | | | MS-157P | 385-B50-1P | | 385-246 | |
| | 1 | | | 385-C35-1T | | | MS-1312P | 385-207 |
| | 1-1/4 | | | 385-067 | MS-234P | | 385-066 | |
| | 1-1/2 | | | 385-068 | | | 385-C01-1W | |
| 3/8"-16 UNC | 3/4 | | | 385-069 | | | MS-1294P | |
| | 1 | | | 385-070 | | | | |
| | 1-1/2 | | | 385-071 | | | | |
| | 2 | | | 385-072 | | | | |
| 3/8"-24 UNF | 1-3/16 | | | MS-217P | | | | |
| | | | | | | | | |

Made to ASME B18.6.3

▲Pozidriv Head ■Undercut Head

◆Slight Flattening of Head Crown may occur due to formation of Phillips socket recess.

**ASSORTMENT 805-614D**
**ASSORTIMENT**

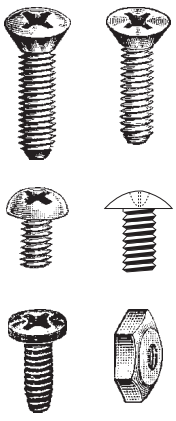
## INCH SIZES
## PHILLIPS DRIVE MACHINE SCREWS
**with Hexagon Nuts**

**STEEL - with Plated Finish**

**42 SIZES - 1900 PIECES**

Put up in a large grey enamelled steel drawer,with hinged lid and catch.

Shipping Weight: **8.17 kg** (18 lbs.)





**For the complete assortment contents turn to A33**





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**ASSORTMENT / ASSORTIMENT 805-A04-1W**

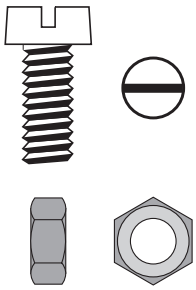
**DIN 84** Screws
**DIN 934** Nuts

## METRIC COARSE THREAD
## SLOTTED CHEESE HEAD SCREWS & NUTS
### Plain and Plated Finishes
### 1,200 PIECES, 24 SIZES

Furnished in Regular Size grey enamel steel drawer with hinged lid and catch. Drawer will fit into Slide Racks shown on page A2

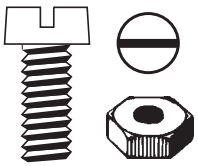
Shipping Weight: **2.58 kg** (5.7 lbs.)





| Name | Spaenaur No. | Diameter x Length | Qty. | Page |
|---|---|---|---|---|
| Machine Screw Slot Drive | 382-B01-1T | M1.0 x 2mm | 50 | B37 |
| | 382-004 | M1.0 x 5mm | | |
| | 382-870 | M1.2 x 2mm | | B44 |
| | 382-872 | M1.2 x 4mm | | |
| | 382-013ZP | M1.2 x 6mm | | |
| | 382-019 | M1.4 x 2mm | | B37 |
| | 382-020 | M1.4 x 4mm | | |
| | 382-878 | M1.4 x 6mm | | B44 |
| | 382-029NP | M1.7 x 2mm | | |
| | 382-883 | M1.7 x 10mm | | B44 |
| | 382-039 | M2 x 3mm | | B38 |
| | 382-042 | M2 x 12mm | | |
| | 382-049 | M2.3 x 4mm | | |
| | 382-051 | M2.3 x 8mm | | B38 |
| | 382-053 | M2.3 x 16mm | | |
| | 382-063 | M2.5 x 10mm | | |
| | 382-067 | M2.5 x 20mm | | B38 |
| Nut Hexagon | 156-001ZP | M1.0 | | C9 |
| | 156-002ZP | M1.2 | | |
| | 156-003ZP | M1.4 | | |
| | 156-005 | M1.7 | | |
| | 156-006 | M2 | | |
| | 156-007ZP | M2.3 | | |
| | 156-008 | M2.5 | | |

## METRIC THREADED
## SLOTTED CHEESE HEAD SCREWS & NUTS
### STEEL, Zinc Plated — DIN 84



**ASSORTMENT / ASSORTIMENT 805-400**

**24 SIZES 1,385 PIECES**

| Name | Spaenaur No. | Thread Size | Screw Length | Qty. | Page |
|---|---|---|---|---|---|
| Machine Screw Slot Drive Cheese Head | 382-041 | M2 x 0.40 | 8mm | 80 | B38 |
| | 382-074 | M3 x 0.50 | 6mm | | B39 |
| | 382-B20-1A | | 8mm | | |
| | 382-B26-1K | | 10mm | | |
| | 382-289 | | 16mm | 50 | |
| | 382-190 | M4 x 0.70 | 6mm | | B40 |
| | 382-102 | | 8mm | | |
| | 382-B17-1X | | 10mm | | |
| | 382-B22-1Y | | 12mm | | |
| | 382-105 | | 16mm | | |
| | 382-192 | | 20mm | | |
| | 382-116 | M5 x 0.80 | 10mm | 40 | |
| | 382-117 | | 16mm | | |
| | 382-118 | | 20mm | | |
| | 382-119 | | 25mm | | |
| | 382-131 | M6 x 1.00 | 10mm | 30 | B41 |
| | 382-133 | | 16mm | | |
| | 382-210 | | 20mm | | |
| | 382-135 | | 25mm | 25 | |
| Hex Nut | 156-006ZP | M2 x 0.40 | | 80 | C9 |
| | 156-010ZP | M3 x 0.50 | | 100 | |
| | 156-012ZP | M4 x 0.70 | | | |
| | 156-013ZP | M5 x 0.80 | | | C10 |
| | 156-014ZP | M6 x 1.00 | | 80 | |

## METRIC THREADED - SLOT DRIVE
## FLAT/PAN/OVAL HEAD MACHINE SCREWS & HEX NUTS
### STEEL, Zinc Plated — DIN 84

**ASSORTMENT / ASSORTIMENT 805-401**

**24 SIZES 1,100 PIECES**

| Name | Head Type | Spaenaur No. | Thread Size | Screw Length | Qty. | Page |
|---|---|---|---|---|---|---|
| Machine Screw Slot Drive Head Style Flat Metric DIN 963 | Flat | 382-082 | M3 x 0.50 | 6mm | 80 | B39 |
| | | 382-084 | | 10mm | | |
| | | 382-239 | | 20mm | 40 | |
| | | 382-110 | M4 x 0.70 | 8mm | 50 | B40 |
| | | 382-112 | | 12mm | | |
| | | 382-128 | M5 x 0.80 | 16mm | 30 | |
| | | 382-246 | | 30mm | 40 | |
| | | 382-145 | M6 x 1.00 | 20mm | 30 | B41 |
| | | 382-159 | M8 x 1.25 | | 20 | B42 |
| Machine Screw Slot Drive Head Style Pan Metric DIN 85 | Pan | 382-078 | M3 x 0.50 | 6mm | 80 | B39 |
| | | 382-079 | | 10mm | | |
| | | 382-106 | M4 x 0.70 | 8mm | 50 | B40 |
| | | 382-107 | | 12mm | | |
| | | 382-120 | M5 x 0.80 | 6mm | 40 | |
| | | 382-122 | | 10mm | | |
| | | 382-123 | | 20mm | | |
| | | 382-137 | M6 x 1.00 | 10mm | 30 | B41 |
| | | 382-138 | | 16mm | | |
| Machine Screw Slot Drive Head Style Oval Metric DIN 964 | Oval | 382-081 | M3 x 0.50 | 12mm | 60 | B39 |
| | | 382-109 | M4 x 0.70 | | 50 | B40 |
| | | 382-124 | M5 x 0.80 | 10mm | 40 | |
| | | 382-126 | | 25mm | 30 | |
| | | 382-141 | M6 x 1.00 | 16mm | | B41 |
| | | 382-157 | M8 x 1.25 | 30mm | 20 | B42 |

Regular Size welded steel drawers have hinged lids and are finished in grey enamel. Drawers will fit into Slide Racks shown on page A2.
Shipping Weight: **4.54 kg** (10 lbs.)



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B

**PHILLIPS DRIVE**
# BRASS
**Unplated**
**Inch Sizes**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**
**Contact Sales Desk For Package Quantities**

**Head/Body & Recess Dimensions to ASME B18.6.3**

| DIAMETER | L. | OVAL (80° to 82°) | ROUND | FLAT (80° to 82°) | PAN | BINDING | FILLISTER |
|---|---|---|---|---|---|---|---|
| 2-56 UNC | 3/8 | | | | | | MS-636P |
| | 1/2 | | | | | | MS-637P |
| 4-40 UNC | 1/4 | | | | MS-941P | | |
| | 3/8 | MS-607P | | 404-A04-1K | | | |
| | 1/2 | | | MS-620P | | | |
| | 5/8 | | MS-616P | | | | |
| | 1 | | MS-617P | | | | |
| 6-32 UNC | 1/4 | | | MS-621P | | | |
| | 5/16 | | | MS-622P | | | |
| | 3/8 | | | MS-623P | | | |
| | 1/2 | MS-610P | | MS-624P | | | |
| | 5/8 | | | MS-625P | | | |
| | 1 | MS-612P | | MS-627P | | | |
| 8-32 UNC | 3/8 | | 404-003 | | | | |
| | 1/2 | MS-613P | | 404-A01-1C | | | MS-647P |
| | 5/8 | MS-679P | | | | | |
| | 3/4 | | | 404-A03-1T | | | |
| | 2 | MS-689P | | | | | |
| 10-32 UNF | 3/8 | MS-669P | | 404-A05-1W | | | |
| | 1/2 | | | 404-A02-1N | | | |
| | 3/4 | | | 404-002 | | | |
| | 1 | | | MS-668P | | | |
| 1/4"-20 UNC | 1 | | | | | | MS-837P |
| | 2-1/4 | | | | | MS-805P | |
| 1/4"-28 UNF | 1 | | | | | | MS-866P |
| | | | | | | | |

"For more Brass Machine Screws please see pages:
**B13-B17** (Inch/Slot Drive) and **B49-B52** (Metric/Slot Drive)

**ASSORTMENT / ASSORTIMENT 805-519**

## BRASS FLAT WASHERS
### 16 SIZES - 1315 PIECES

REGULAR SIZE Steel, grey enamel Drawer will fit Slide Racks shown on page A2

Shipping Weight:
**3.18 kg** (7 lbs.)





| Spaenaur No. | Compatible Screw Size | Compatible Bolt Size | Inner Diameter | Outer Diameter | Thickness | Qty. | Page |
|---|---|---|---|---|---|---|---|
| 649-B01-2C | #2 | | 0.092" | 3/16" | 0.018" | 200 | D8 |
| W-501 | #3 | | 0.105" | 1/4" | 0.020" | | |
| 649-B20-1M | #4 | | 0.119" | 9/32" | 0.025" | | |
| W-528 | #5 | 1/8" | 0.133" | | | 100 | |
| 649-B21-1X | #6 | | 0.147" | 5/16" | 0.028" | | |
| 649-B14-1N | #8 | 5/32" | 0.172" | 3/8" | 0.032" | | |
| 649-B13-1C | #10 | 3/16" | 0.200" | 7/16" | 0.036" | | |
| 649-B19-1X | #12 | 7/32" | 0.227" | 1/2" | 0.040" | | |
| 649-B09-1P | #14 | 1/4" | 0.260" | 9/16" | | | |
| 649-B15-1T | #18 | | 0.310" | 11/16" | 0.051" | 25 | |
| 649-B18-1M | #20 | 5/16" | 0.337" | 3/4" | 0.064" | | |
| W-540 | | 3/8" | 0.390" | 0.682" | 0.050" | | |
| 649-B17-1W | #30 | 7/16" | 1/2" | 1-1/8" | 0.081" | 10 | |
| 649-B12-1Y | #34 | 1/2" | 9/16" | 1-1/4" | 0.091" | | |
| W-519 | | 5/8" | 11/16" | 1-1/2" | 0.102" | | |
| 649-B03-1M | | 3/4" | 13/16" | 1-7/8" | 0.114" | | |




P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

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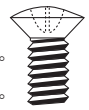
**PHILLIPS DRIVE**

# 18-8 STAINLESS STEEL

**Inch Sizes**

**Head/Body & Recess Dimensions to ASME B18.6.3**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**

| SIZE | |   |  |   |  |  |  |
|---|---|---|---|---|---|---|---|
| **DIA.** | **L.** | **OVAL** | **ROUND** | **FLAT** | **BINDING** | **PAN** | **TRUSS** |
| **0-80** UNF | 1/8 | | | | | 424-442 | |
| | 3/8 | | | | | 424-443 | |
| **2-56** UNC | 1/8 | | | | | 424-455 | |
| | 3/16 | | | | | 424-F28-1C | |
| | 1/4 | | | 424-F25-1A | | 424-F60-1W | |
| | 3/8 | | | 424-G11-1C | | 424-F29-1N | |
| | 1/2 | | 424-494 | 424-054 | | 424-F21-1K | |
| **4-40** UNC | 3/16 | | | 424-504 | | 424-F08-2W | |
| | 1/4 | | 424-096 | 424-F02-2P | 424-F96-1W | 424-F04-2C | 424-F18-2T |
| | 5/16 | | | MS-2424P | | 424-F97-1M | |
| | 3/8 | | 424-F26-1P | 424-F14-2X | MS-2346P | 424-F06-2T | 424-102 |
| | 1/2 | | 424-G16-1M | MS-2347P | 424-F91-1Y | 424-F95-1K | 424-103 |
| | 5/8 | | | | | 424-505 | |
| | 3/4 | | 424-G13-1T | 424-F15-2Y | | MS-2435P | 424-G20-1A |
| | 1 | | 424-F82-1T | 424-452 | | MS-2426P | 424-105 |
| | 1-1/2 | | | | | 424-503 | |
| **6-32** UNC | 1/4 | | | 424-F86-1X | 424-F13-2M | 424-F11-1P | 424-F34-1W |
| | 5/16 | | | 424-F10-2W | | 424-F53-1Y | |
| | 3/8 | MS-2354P | 424-F80-1C | 424-F27-1Y | | 424-F01-2A | 424-044 |
| | 1/2 | 424-F17-2N | 424-G07-1P | MS-2006P | 424-F92-1C | 424-057 | 424-F98-1X |
| | 5/8 | | 424-493 | 424-F16-1C | | 424-048 | |
| | 3/4 | 424-F24-2X | 424-G12-1N | 424-G21-1P | | 424-058 | 424-G04-1M |
| | 7/8 | | | 424-492 | | MS-2361P | |
| | 1 | | 424-501 | 424-F87-1A | | 424-462 | 424-F57-1K |
| | 1-1/4 | | | 424-F47-1M | | 424-G06-1A | |
| | 1-1/2 | | | 424-060 | | 424-F66-1C | |
| | 2 | | | 424-G10-1Y | | 424-109 | |
| **8-32** UNC | 1/4 | | 424-F75-1A | | | 424-F88-1P | |
| | 3/8 | 424-F63-1A | MS-2364P | 424-F93-1N | 424-F55-1N | 424-F54-1C | 424-F58-1W |
| | 1/2 | MS-2369P | 424-F84-1W | 424-F44-1T | MS-2370P | 424-066 | 424-F94-1T |
| | 5/8 | 424-F38-1P | | 424-F89-1Y | MS-2371P | 424-F19-2K | 424-042 |
| | 3/4 | MS-2374P | 424-F72-1W | MS-2372P | | 424-472 | 424-F51-1A |
| | 1 | MS-2419P | 424-F31-1N | 424-F85-1M | | 424-F77-1Y | 424-067 |
| | 1-1/4 | | 424-F79-1N | 424-463 | | | |
| | 1-1/2 | | 424-491 | 424-064 | | 424-G26-1K | |
| | 2 | | | 424-F33-1K | | 424-112 | |
| **10-24** UNC | 3/8 | | 424-F32-1T | 424-F41-1Y | | | 424-F09-1M |
| | 1/2 | | 424-F37-1A | MS-2378P | | 424-G14-1K | 424-F36-1X |
| | 3/4 | MS-2382P | MS-2381P | 424-G03-1W | | 424-072 | 424-F68-1T |
| | 7/8 | | | 424-459 | | | |
| Continues on Next Page | 1 | MS-2384P | MS-2383P | 424-F62-1X | | 424-073 | 424-077 |

**PKG QTY. 100**



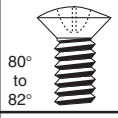
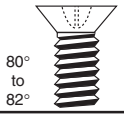
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B

# PHILLIPS DRIVE 18-8 STAINLESS STEEL Inch Sizes

**Head/Body & Recess Dimensions to ASME B18.6.3**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**

| SIZE | |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|
| **DIA.** | **L.** | **OVAL** | **ROUND** | **FLAT** | **BINDING** | **PAN** | **TRUSS** |
| Continued from Previous Page | 1-1/4 | **424-468** | | **424-F61-1M** | | **424-G15-1W** | **424-476** |
| | 1-1/2 | **424-470** | **MS-2385P** | **424-F81-1N** | | **424-F39-1Y** | **424-477** |
| **10-24** UNC | 2 | | | **424-F67-1N** | | **424-F50-1X** | |
| | 2-1/2 | **424-473** | | **424-G25-1T** | | | |
| | 3 | | | | | | **424-475** |
| | 1/4 | | **424-117** | | | | |
| | 3/8 | **424-448** | | **424-G17-1X** | | **424-046** | **424-F48-1X** |
| | 1/2 | | **MS-2388P** | **424-F65-1Y** | | **424-F45-1K** | **424-F99-1A** |
| | 5/8 | | | | | **424-F90-1P** | |
| | 3/4 | **424-460** | **MS-2390P** | **424-F22-2W** | | **424-G18-1A** | **424-083** |
| **10-32** UNF | 7/8 | | | | | **424-F59-1M** | |
| | 1 | | **424-G08-1Y** | **424-F83-1K** | | **424-G24-1N** | **424-084** |
| | 1-1/4 | | **424-F23-2M** | **MS-2000P** | | **424-F73-1M** | |
| | 1-1/2 | | **424-080** | **424-F20-1T** | | **424-G19-1P** | **424-085** |
| | 2 | **424-466** | **424-490** | **424-078** | | **424-108** | |
| | 2-1/4 | | | **424-485** | | **424-488** | |
| | 2-1/2 | | | **424-484** | | **424-G02-1K** | |
| | 3/8 | | | **▲424-120** | **424-F03-1Y** | | |
| | 1/2 | **424-F46-1W** | **424-495** | **424-F74-1X** | | **424-090** | **424-F64-1P** |
| | 5/8 | | | | | **424-486** | |
| | 3/4 | | **424-F40-1P** | **424-F69-1K** | | **424-G01-1T** | **424-F71-1K** |
| **1/4"-20** UNC | 1 | **MS-2019P** | **424-088** | **424-G05-1X** | | **424-F52-1P** | **424-F76-1P** |
| | 1-1/4 | | | **424-F42-1C** | | **424-F78-1C** | |
| | 1-1/2 | **MS-2397P** | **424-G09-1C** | **424-F56-1T** | | **424-G22-1Y** | **424-467** |
| | 1-3/4 | | | **424-G23-1C** | | | |
| | 2 | **424-464** | **424-089** | **424-087** | | **424-110** | **424-F43-1N** |
| | 2-1/2 | **424-474** | | | | | |
| | 3 | | | **424-F49-1A** | | **424-114** | |
| **1/4"-28** UNF | 1 | | | | | **424-F70-1T** | |
| | | | | | | | |

**PKG QTY. 100**

▲ Undercut Head 

For more Stainless Steel Machine Screws please see pages: **B18-B21** (Inch/Slot Drive); **B45-B48** (Metric/Slot Drive) and **B58** (Metric/Phillips Drive)

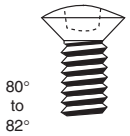
Combination Square Socket/Slot Drive Machine Screws on Page **B35 & B36**



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B

# Machine Screws Square Socket Drive

| Low Carbon STEEL Inch Sizes | |  80° to 82° |  |  80° to 82° |  |
|---|---|---|---|---|---|
| | | NICKEL PLATED | ZINC PLATED | | |
| DIA. | L. | OVAL | ▲ROUND | FLAT | TRUSS |
| 4-40 UNC | 1/4 | | 395-H55-1Y | | |
| | 3/8 | | MS-1353 | | |
| 6-32 UNC | 1/4 | | 395-119 | 395-003 | |
| | 3/8 | | | MS-1367 | 395-117 |
| | 1/2 | MS-1205 | 395-H53-1A | 395-063 | |
| | 3/4 | | 395-H09-1K | 395-H11-1K | |
| | 1 | | 395-051 | 395-064 | |
| | 1-1/2 | | 395-H05-1Y | 395-065 | |
| | 2 | | 395-H34-1T | 395-066 | |
| 8-32 UNC | 1/4 | | 395-H06-1C | | |
| | 3/8 | | 395-H01-1M | 395-005 | |
| | 1/2 | | 395-H02-1X | MS-1020 | |
| | 3/4 | | MS-1126 | 395-067 | MS-427 |
| | 1 | | 395-H71-1N | 395-068 | 395-H39-1A |
| | 1-1/4 | | | 395-H59-1K | 395-H14-1X |
| | 1-1/2 | | MS-1051 | 395-070 | MS-1018 |
| | 2 | | | 395-001 | |
| 10-24 UNC | 3/8 | | | | 395-053 |
| | 1/2 | | 395-H16-1P | MS-1366 | 395-H47-1K |
| | 3/4 | | 395-H22-1T | 395-071 | 395-H51-1M |
| | 1 | | 395-H72-1T | MS-1342 | 395-H38-1X |
| | 1-1/4 | | 395-H72-1T | 395-086 | |
| | 1-1/2 | | 395-H50-1W | 395-072 | |
| | 1-3/4 | | 395-H49-1M | 395-007 | |
| | 2 | | | 395-073 | |
| 10-32 UNF | 1/4 | | 395-H30-1P | | |
| | 3/8 | | 395-D02-1X | | |
| | 1/2 | | 395-H41-1A | 395-074 | |
| | 5/8 | | 395-H35-1K | 395-013 | |
| | 3/4 | | 395-H04-1P | 395-075 | |
| | 7/8 | | 395-H52-1X | | |
| | 1 | | 395-H29-1Y | 395-076 | |

▲ Slight Flattening of Head Crown may occur due to formation of square socket recess.

Continued…

**PKG QTY. 100**

For Insulated Screwdrivers see Page P21

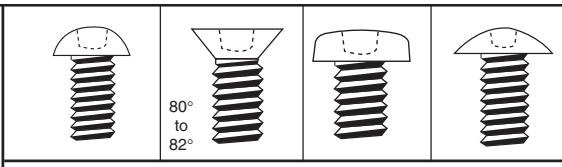


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Continued from Previous Page

B

## Low Carbon STEEL
### Inch Sizes




| DIA. | L. | ZINC PLATED ▲ROUND | FLAT | PAN | TRUSS |
|---|---|---|---|---|---|
| 10-32 UNF | 1-1/4 | MS-435 | 395-008 | | |
| | 1-1/2 | 395-H45-1N | 395-115 | | |
| | 2 | 395-060 | 395-009 | | MS-1282 |
| | 2-1/2 | 395-083 | | | |
| 1/4"-20 UNC | 1/2 | 395-H36-1W | 395-044 | | |
| | 5/8 | 395-061 | | | 395-H07-1N |
| | 3/4 | 395-H03-1A | 395-H17-1Y | | |
| | 1 | 395-H44-1C | 395-078 | | |
| | 1-1/2 | MS-490 | 395-079 | 395-045 | |
| | 1-3/4 | 395-099 | | | |
| | 2 | 395-H54-1P | 395-080 | | |
| | 3 | 395-084 | 395-010 | | |
| | 3-1/2 | MS-1288 | | | |
| 5/16"-18 UNC | 3/4 | | | | 395-H70-1C |
| | | | | | |

▲ Slight Flattening of Head Crown may occur due to formation of square socket recess.

**ALL SCREWS LISTED ABOVE PKG QTY. 100**

**ASSORTMENT / ASSORTIMENT 805-535C**

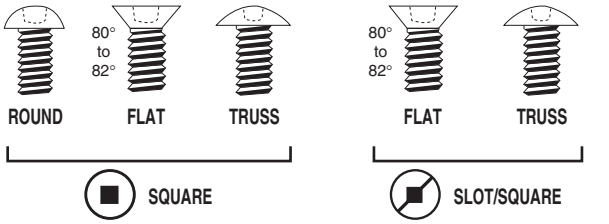
## MACHINE SCREWS
### Inch Sizes - PLATED STEEL
Square Socket and Socket/Slot Drive

**30 SIZES**
**1080 PIECES**




Furnished in a regular size grey enamelled steel drawer, with hinged lid and scoop bins. Drawer will fit Slide Racks shown on page A2

Shipping Weight **5.89 kg** (13 lbs.)




| Name | Spaenaur No. | Thread Size | Screw Size | Qty. | Page |
|---|---|---|---|---|---|
| Square Socket Drive Flat Head | 395-063 | #6-32 | 1/2" | 30 | B33 |
| | 395-065 | | 1-1/2" | | |
| | 395-067 | #8-32 | 3/4" | 50 | |
| | 395-070 | | 1-1/2" | | |
| | 395-071 | #10-24 | 3/4" | | |
| | 395-072 | | 1-1/2" | | |
| | 395-075 | #10-32 | 3/4" | 30 | |
| | 395-H17-1Y | 1/4"-20 | | 50 | B34 |
| Square Socket Drive Truss Head | MS-427 | #8-32 | | 30 | B33 |
| | MS-1018 | | 1-1/2" | | |
| | 395-H51-1M | #10-24 | 3/4" | 40 | |
| | 395-H38-1X | | 1" | | |
| Square Socket Drive Round Head | 395-H55-1Y | #4-40 | 1/4" | 15 | |
| | 395-H53-1A | #6-32 | 1/2" | | |
| | 395-051 | | 1" | 30 | |
| | 395-H34-1T | | 2" | | |
| | 395-H02-1X | #8-32 | 1/2" | 50 | |
| | 395-H71-1N | | 1" | | |
| | 395-H16-1P | #10-24 | 1/2" | | |
| | 395-H50-1W | | 1-1/2" | 40 | |
| | 395-H41-1A | #10-32 | 1/2" | 30 | |
| | 395-H29-1Y | | 1" | | |
| | 395-060 | | 2" | 25 | B34 |
| | 395-H36-1W | 1/4"-20 | 1/2" | | |
| | 395-H44-1C | | 1" | | |
| | 395-H54-1P | | 2" | | |
| Slot/Square Socket Drive Truss Head | 395-081 | #8-32 | 5/8" | 30 | B35 |
| | 395-H15-1A | | 1-1/4" | | |
| Slot/Square Drive Flat Head | 395-211 | | 2" | 50 | |
| | 395-147R | #10-24 | | | |





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# STEEL
ZINC PLATED

## Combination Square Socket/Slot Drive
ORDER BY *SPAENAUR* NUMBERS LISTED BELOW

| Inch Sizes | |  |  |   |  | |
|---|---|---|---|---|---|---|
| **DIA.** | **L.** | **PAN** | **TRUSS** | **OVERSIZE TRUSS** | **ROUND** | |
| **4-40** UNC | 1/4 | | | | **395-243** | |
| | 3/8 | | | | **395-H10-1T** | |
| | 3/4 | | | | **395-198** | |
| **6-32** UNC | 1/4 | **395-H13-1M** | | | **395-233** | |
| | 3/8 | **395-H23-1K** | | | | |
| | 1/2 | **395-124** | | | **395-206** | |
| | 3/4 | **395-H60-1T** | | | **395-227** | |
| | 1 | | | | **395-241** | |
| | 1-1/4 | **395-H62-1W** | | | **395-245** | |
| | 1-1/2 | **395-H63-1M** | | | **395-212** | |
| | 2 | | | | **395-210** | |
| **8-32** UNC | 1/4 | | | | **395-H32-2C** | |
| | 3/8 | **395-H18-1C** | | **395-H43-2Y** | **395-207** | |
| | 1/2 | **395-H25-1M** | | **395-H08-1T** | **395-221** | |
| | 5/8 | **395-H64-1X** | **395-081** | | | |
| | 3/4 | | | | **395-213** | |
| | 1 | | **395-H69-1N** | | **395-214** | |
| | 1-1/8 | | **395-174** | | | |
| | 1-1/4 | **395-H67-1Y** | **395-H21-1N** | **395-H15-1A** | **395-229** | |
| | 1-1/2 | **395-H42-1K** | **395-220** | | **395-215** | |
| | 1-3/4 | **395-H68-1C** | | | | |
| | 2 | | **395-H48-1W** | | **395-211** | |
| | 2-1/2 | **395-H56-1C** | | | | |
| | 3 | | | | **395-040** | |
| **10-24** UNC | 1/2 | | **395-177** | | **395-222** | |
| | 5/8 | | | | **395-219** | |
| | 3/4 | **395-H31-1Y** | | | **395-234** | |
| | 1 | | | | **395-216** | |
| | 1-1/4 | **395-H33-1N** | | | **395-225** | |
| | 1-1/2 | | | | **395-217** | |
| | 2 | | | | **395-147R** | |
| | 2-1/2 | | | | **395-148R** | |
| | 3 | | | | **395-244** | |
| **10-32** UNF | 1/4 | **395-H37-1M** | **395-112** (7 or 8 locking nibs under head.) | | **395-111R** | |
| | 5/16 | | **395-113** | | | |
| | 3/8 | **395-D01-1M** | | | **395-180** | |
| | 1/2 | **395-H24-1W** | | | **395-224** | |
| | 5/8 | | | | **395-011** | |
| | 3/4 | | | | **395-218** | |
| | 7/8 | | **395-118** (7 or 8 locking nibs under head.) | | | |
| | 1 | | | | **395-228** | |
| | 1-1/4 | **395-H20-1C** | | | **395-230** | |
| | 1-1/2 | | | | **395-205** | |
| | 2 | | | | **395-223** | |

**Combination Sq. Socket/Slot Drive Machine Screws**

Combination Sq. Socket/Slot Drive Screws over 2" long are partially threaded with a minimum thread of 2".

**PKG QTY.**
**Up to 2-1/2" Long - 100**
**2-1/2" Long and over - 50**

B



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B

| Combination Sq. Socket/Slot Drive Inch Sizes | |  |  |  | STEEL ZINC PLATED ASME B18.6.3 |
|---|---|---|---|---|---|
| DIA. | L. | PAN | TRUSS | ROUND | |
| 12-24 UNC | 1/2 | 395-H26-1X | | | |
| | | | | | |
| 1/4"-20 UNC | 3/8 | 395-H28-1P | | 395-232 | |
| | 1/2 | 395-H40-1W | | | |
| | 5/8 | 395-164 | 395-H12-1W | 395-242 | |
| | 3/4 | | 395-H27-1A | 395-231 | |
| | 1 | 395-H19-1N | | 395-240 | |
| | 1-1/4 | | | 395-239 | |
| | 1-1/2 | | | 395-H46-1T | |
| | 2 | | | 395-209 | |
| | 2-1/2 | 395-170 | | | PKG QTY. 100 |

**ASSORTMENT / ASSORTIMENT 805-439C**

## North American Style Metric Slotted Pan Head MACHINE SCREWS

**DIN 84 / DIN 85**

**STEEL - Zinc Plated**
**24 SIZES - 1,000 PIECES**





| Name | Spaenaur No. | Thread Size | Screw Length | Qty. | Page |
|---|---|---|---|---|---|
| Machine Screw Slot Drive Head Style Cheese Metric DIN 84 | 382-063 | M2.5 x 0.45 | 10mm | 50 | |
| Machine Screw Slot Drive Head Style Pan Metric DIN 85 | 382-517 | M3.5 x 0.60 | 8mm | | B39 |
| | 382-554 | M6 x 1.00 | 30mm | 30 | B41 |
| | 382-556 | | 45mm | 20 | |
| Machine Screw Slot Head Style Pan Metric | 382-300 | M2 x 0.40 | 3mm | 50 | |
| | 382-302 | | 8mm | | B38 |
| | 382-308 | M2.5 x 0.45 | 20mm | | |
| | 382-B10-1Y | | 25mm | | B38 |
| | 382-311 | M3 x 0.50 | 5mm | | B39 |
| | 382-313 | | 8mm | | |
| | 382-B12-1N | | 16mm | | B39 |
| | 382-325 | M3.5 x 0.60 | | | |
| | 382-326 | | 20mm | | |
| | 382-B16-1M | | 35mm | 30 | B39 |
| | 382-332 | M4 x 0.70 | 8mm | 50 | B40 |
| | 382-334 | | 13mm | | |
| | 382-337 | | 25mm | 40 | |
| | 382-343 | M5 x 0.80 | 10mm | 50 | B40 |
| | 382-B13-1T | | 16mm | 40 | |
| | 382-348 | | 30mm | 30 | |
| | 382-386 | M6 x 1.00 | 16mm | 40 | |
| | 382-387 | | 20mm | | |
| | 382-370 | M8 x 1.25 | 25mm | 20 | B42 |
| | 382-372 | | 35mm | 10 | |

REGULAR SIZE welded STEEL drawer has hinged lid, "Scooped" bins, and is finished in grey enamel. Drawer will fit into slide racks shown on page A2





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# Metric

## Fasteners by *SPAENAUR*

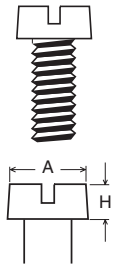
Throughout this Section B, likewise in sections C, D and E, you will find extensive listings of Metric Fasteners to I.S.O. and D.I.N. Standards.

**Slot Drive**

## 4.8 STEEL

Finishes this page listed at top of each column.

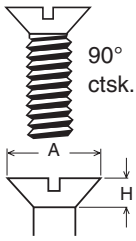
**Metric Coarse Thread**
**Threaded to Head**




**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style
**CHEESE**




**DIN 963**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style
**FLAT**

| DIAMETER in mm | LGTH. mm | PLAIN | ZINC PLTD. | NICKEL PLTD. | ZINC PLTD. |
|---|---|---|---|---|---|
| **M1** Pitch: 0.25 mm Tap Hole: 0.75 mm | 2 | 382-B01-1T | | | |
| | 4 | | | 382-003NP | |
| | 5 | | 382-004ZP | | |
| **M1.2** Pitch: 0.25 mm Tap Hole: 0.95 mm | 2 | 382-009 | | | |
| | 6 | 382-B18-1A | | | |
| **M1.4** Pitch: 0.30 mm Tap Hole: 1.10 mm | 2 | 382-019 | | | |
| | 8 | 382-023 | | | |
| **M1.6** Pitch: 0.35 mm Tap Hole: 1.25 mm | 2 | | 382-397ZP | | |
| | 3 | | 382-398ZP | | 382-054ZP |
| | 4 | | 382-399ZP | | 382-055ZP |
| | 5 | | 382-400ZP | | 382-056ZP |
| | 6 | | 382-401ZP | | 382-057ZP |
| | 8 | | 382-402ZP | | 382-058ZP |
| | 10 | | 382-403ZP | | 382-006ZP |
| | 12 | | 382-404ZP | | 382-060ZP |
| **M1.7** Pitch: 0.35 mm Tap Hole: 1.35 mm | 6 | 382-031 | | | |
| **M1.8** Pitch: 0.35 mm Tap Hole: 1.45 mm | 8 | 382-848 | | | |

**ORDER BY *SPAENAUR* NUMBERS LISTED ABOVE.**
**PKG QTY. 100**

Following pages contain larger diameters. For small diameter slot drive machine screws in Property Class 5.8, see page B44.

For Head Size Charts see pages R10 & R11.

For Philips Drive Machine Screws 4.8 Steel see pages B56 - B57.





P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B

**Slot Drive**

# 4.8 STEEL

***(IFI 513, Grade 1018)***

**Zinc Plated**

**METRIC**

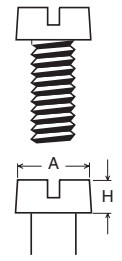
**Standard (Coarse) Thread**

*This Standard has been replaced. Please see Catalog Page R21 for more information.

For Head Size Charts see pages R10 & R11.




Head Style
IFI 513, 1982
**PAN**



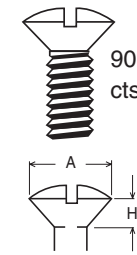

* **DIN 84**

Head Style
**CHEESE**



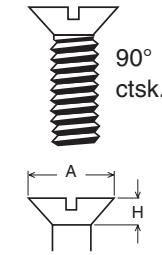

* **DIN 85**

Head Style
**PAN**




* **DIN 964**

Head Style
**OVAL**




* **DIN 963**

Head Style
**FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
|---|---|---|---|---|---|---|
| **M2** Pitch: 0.40 mm Tap Hole: 1.60 mm | 3 | | 382-039 | | | |
| | 4 | | 382-405 | | 382-610 | 382-721 |
| | 5 | | 382-040 | | 382-611 | 382-722 |
| | 6 | | 382-406 | | 382-612 | 382-723 |
| | 8 | 382-302 | 382-041 | | 382-613 | 382-724 |
| | 10 | | 382-407 | | 382-614 | 382-725 |
| | 12 | | 382-042 | | | 382-726 |
| | 14 | | 382-007 | | | |
| | 16 | | 382-408 | | | 382-727 |
| | 18 | | 382-B07-1P | | | 382-462 |
| | 20 | | 382-409 | | | 382-728 |
| | 22 | | 382-410 | | | |
| | 25 | | 382-411 | | | 382-729 |
| | 30 | | 382-412 | | | 382-730 |
| **M2.3** Pitch: 0.40 mm Tap Hole: 1.90 mm | 4 | | 382-049 | | | |
| | 6 | | 382-050 | | | |
| | 8 | | 382-051 | | | |
| | 10 | | 382-052 | | | |
| | 16 | | 382-053 | | | |
| **M2.5** Pitch: 0.45 mm Tap Hole: 2.05 mm | 3 | | 382-413 | 382-491 | | |
| | 4 | | 382-414 | 382-492 | 382-615 | 382-731 |
| | 5 | | 382-415 | 382-493 | 382-616 | 382-732 |
| | 6 | | 382-416 | 382-494 | 382-617 | 382-733 |
| | 8 | | 382-417 | 382-495 | 382-618 | 382-734 |
| | 10 | | 382-B23-1C | 382-496 | 382-619 | 382-735 |
| | 12 | | 382-064 | 382-497 | 382-620 | 382-736 |
| | 14 | | | 382-498 | | |
| | 16 | | 382-418 | 382-499 | 382-621 | 382-737 |
| | 18 | | | 382-468 | | |
| | 20 | | 382-067 | 382-500 | 382-622 | 382-738 |
| | 22 | | 382-419 | | | |
| | 25 | 382-B10-1Y | 382-420 | 382-501 | | 382-739 |
| | 30 | | 382-421 | 382-502 | | 382-740 |
| **M2.6** Pitch: 0.45 mm Tap Hole: 2.15 mm | 12 | | 382-422 | | | |
| | 25 | | 382-423 | | | |

Continued on next page...

**PKG QTY. 100**



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**Slot Drive**

# 4.8 STEEL

***(IFI 513, Grade 1018)***

**Zinc Plated**

**METRIC**

**Standard (Coarse) Thread**

*This Standard has been replaced. Please see Catalog Page R21 for more information.

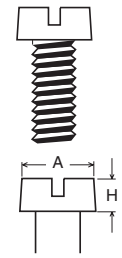
For Head Size Charts see pages R10 & R11.

Continued from Previous Page




**North American**

Head Style
IFI 513, 1982
**PAN**



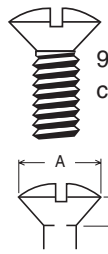

* **DIN 84**

Head Style
**CHEESE**



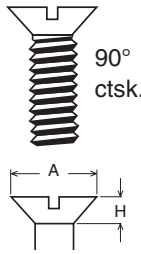

* **DIN 85**

Head Style
**PAN**




* **DIN 964**

Head Style
**OVAL**




* **DIN 963**

Head Style
**FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
|---|---|---|---|---|---|---|
| **M3**<br>Pitch: 0.50 mm<br>Tap Hole: 2.50 mm | 3 | | 382-424 | | | |
| | 4 | | 382-073 | 382-503 | 382-623 | 382-741 |
| | 5 | 382-311 | 382-170 | 382-504 | 382-624 | 382-288 |
| | 6 | | 382-074 | 382-078 | 382-625 | 382-082 |
| | 8 | | 382-B20-1A | 382-285 | 382-080 | 382-083 |
| | 10 | | 382-B26-1K | 382-079 | 382-626 | 382-084 |
| | 12 | | 382-077 | 382-263 | 382-081 | 382-085 |
| | 13 | 382-315 | | | | |
| | 16 | 382-B12-1N | 382-289 | 382-505 | 382-627 | 382-742 |
| | 18 | | 382-172 | 382-506 | | 382-743 |
| | 20 | | 382-173 | 382-507 | 382-628 | 382-239 |
| | 22 | | 382-174 | 382-508 | | |
| | 25 | | 382-175 | 382-509 | 382-629 | 382-744 |
| | 28 | | 382-176 | | | |
| | 30 | | 382-177 | 382-510 | 382-630 | 382-240 |
| | 35 | | 382-178 | 382-511 | 382-631 | 382-745 |
| | 40 | | 382-179 | 382-512 | 382-632 | 382-241 |
| | 45 | | 382-425 | | 382-633 | 382-746 |
| | 50 | | 382-426 | 382-513 | 382-634 | 382-747 |
| | 55 | | 382-427 | | | |
| | 60 | | 382-428 | 382-514 | | 382-748 |
| **M3.5**<br>Pitch: 0.60 mm<br>Tap Hole: 2.90 mm | 4 | | 382-429 | 382-515 | | |
| | 5 | 382-320 | 382-086 | 382-516 | | 382-749 |
| | 6 | | 382-087 | 382-264 | | 382-750 |
| | 8 | | 382-088 | 382-517 | 382-635 | 382-751 |
| | 10 | 382-323 | 382-089 | 382-518 | 382-636 | 382-752 |
| | 12 | | 382-180 | 382-519 | 382-637 | 382-753 |
| | 16 | 382-325 | 382-430 | 382-520 | 382-638 | 382-754 |
| | 20 | | 382-183 | 382-521 | 382-639 | 382-755 |
| | 22 | | 382-184 | | | |
| | 25 | | 382-185 | 382-522 | | 382-756 |
| | 28 | | 382-186 | | | |
| | 30 | | 382-187 | 382-523 | | 382-757 |
| | 35 | 382-B16-1M | 382-188 | 382-524 | | 382-758 |
| | 40 | | 382-189 | | | 382-759 |
| | 45 | | 382-431 | | | |
| | 50 | | 382-432 | | | |

Continued on next page...

**PKG QTY. 100**



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B

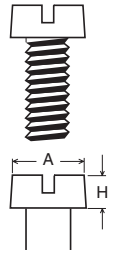
Slot Drive
# 4.8 STEEL
*(IFI 513, Grade 1018)*
**Zinc Plated**
**METRIC**
**Standard (Coarse) Thread**

*This Standard has been replaced. Please see Catalog Page R21 for more information.

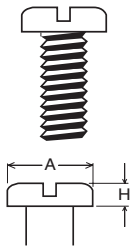
For Head Size Charts see pages R10 & R11.
Continued from Previous Page



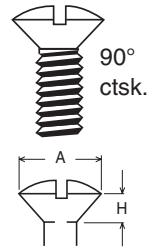
North American
Head Style
IFI 513, 1982
**PAN**



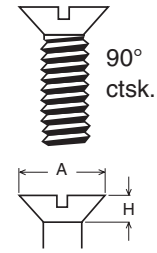
* **DIN 84**
Head Style
**CHEESE**



* **DIN 85**
Head Style
**PAN**



* **DIN 964**
Head Style
**OVAL**



* **DIN 963**
Head Style
**FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
|---|---|---|---|---|---|---|
| **M4**<br>Pitch: 0.70 mm<br>Tap Hole: 3.30 mm | 4 | | 382-433 | 382-525 | | |
| | 5 | | 382-101 | 382-526 | 382-640 | 382-760 |
| | 6 | | 382-190 | 382-527 | 382-641 | 382-761 |
| | 8 | 382-332 | 382-102 | 382-106 | 382-108 | 382-110 |
| | 10 | | 382-B17-1X | 382-528 | 382-642 | 382-111 |
| | 12 | | 382-B22-1Y | 382-107 | 382-109 | 382-112 |
| | 16 | 382-B15-1W | 382-105 | 382-529 | 382-643 | 382-113 |
| | 18 | | 382-191 | | 382-682 | 382-762 |
| | 20 | | 382-192 | 382-265 | 382-644 | 382-763 |
| | 22 | | 382-193 | | | 382-242 |
| | 25 | 382-337 | 382-194 | 382-266 | 382-645 | 382-287 |
| | 28 | | 382-195 | | | |
| | 30 | 382-338 | 382-196 | 382-530 | 382-646 | 382-243 |
| | 35 | 382-339 | 382-B24-1N | 382-531 | 382-647 | 382-764 |
| | 40 | 382-B14-1K | 382-198 | 382-B03-1T | 382-648 | 382-244 |
| | 45 | | 382-199 | 382-533 | 382-649 | 382-765 |
| | 50 | | 382-200 | 382-534 | 382-650 | 382-245 |
| | 55 | | 382-434 | 382-535 | | 382-766 |
| | 60 | | 382-286 | 382-536 | 382-651 | 382-767 |
| | 65 | | 382-435 | | | 382-768 |
| | 70 | | 382-436 | 382-537 | | 382-769 |
| | 75 | | 382-437 | | | 382-770 |
| | 80 | | 382-438 | 382-538 | | 382-771 |
| | 90 | | 382-439 | | | |
| | 100 | | 382-440 | | | |
| **M5**<br>Pitch: 0.80 mm<br>Tap Hole: 4.20 mm | 5 | | 382-441 | | | |
| | 6 | | 382-114 | 382-120 | 382-652 | 382-772 |
| | 8 | | 382-115 | 382-121 | 382-653 | 382-127 |
| | 10 | 382-343 | 382-116 | 382-122 | 382-124 | 382-773 |
| | 12 | | 382-201 | 382-602 | 382-654 | 382-774 |
| | 16 | 382-B13-1T | 382-117 | 382-267 | 382-655 | *382-128 |
| | 18 | | 382-262 | 382-539 | | 382-775 |
| | 20 | | 382-118 | 382-123 | 382-125 | 382-B02-1K |
| | 25 | | 382-119 | 382-272 | 382-126 | 382-129 |
| | 28 | | 382-203 | | | |
| continued… | 30 | | 382-204 | 382-540 | 382-656 | 382-246 |

***382-128YZ** Yellow Zinc Chromate

**PKG QTY. 100**



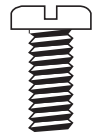
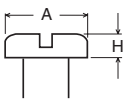

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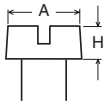
**Slot Drive**
# 4.8 STEEL
***(IFI 513, Grade 1018)***
**Zinc Plated**
**METRIC**
**Standard (Coarse) Thread**

*This Standard has been replaced. Please see Catalog Page R21 for more information.

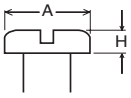
For Head Size Charts see pages R10 & R11.

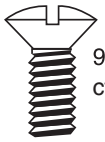

**North American**
Head Style
IFI 513, 1982
**PAN**

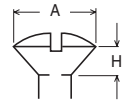




* **DIN 84**
Head Style
**CHEESE**

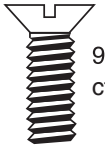



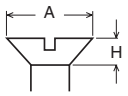

* **DIN 85**
Head Style
**PAN**






* **DIN 964**
Head Style
**OVAL**






* **DIN 963**
Head Style
**FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
|---|---|---|---|---|---|---|
| Continued from Previous Page | 35 | 382-B11-1C | 382-205 | 382-541 | 382-657 | 382-777 |
| | 40 | | 382-206 | 382-542 | 382-658 | 382-247 |
| | 45 | | 382-207 | 382-543 | 382-659 | 382-778 |
| | 50 | | 382-208 | 382-273 | 382-279 | 382-B06-1A |
| **M5** | 55 | | 382-442 | 382-545 | | 382-779 |
| Pitch: 0.80 mm | 60 | | 382-B25-1T | 382-546 | 382-280 | 382-780 |
| Tap Hole: 4.20 mm | 65 | | 382-443 | | | 382-781 |
| | 70 | | 382-275 | 382-547 | 382-281 | 382-782 |
| | 75 | | 382-444 | | | 382-783 |
| | 80 | | 382-276 | 382-548 | 382-282 | 382-784 |
| | 90 | | 382-277 | 382-549 | 382-283 | 382-785 |
| | 100 | | 382-278 | 382-550 | 382-284 | 382-786 |
| | 6 | | 382-445 | | | |
| | 8 | 382-130 | 382-551 | 382-660 | 382-788 | |
| | 10 | 382-131 | 382-137 | 382-661 | 382-143 | |
| | 12 | | 382-132 | 382-552 | 382-140 | 382-B19-1P |
| | 16 | | 382-133 | 382-138 | 382-141 | 382-605 |
| | 18 | | 382-209 | | | 382-789 |
| | 20 | | 382-210 | 382-553 | 382-662 | 382-145 |
| | 22 | | 382-134 | | | |
| | 25 | 382-388 | 382-135 | 382-139 | 382-142 | 382-146 |
| **M6** | 30 | | 382-212 | 382-554 | 382-663 | 382-790 |
| Pitch: 1.00 mm | 35 | | 382-213 | 382-603 | 382-664 | 382-249 |
| Tap Hole: 5.00 mm | 40 | | 382-214 | 382-268 | 382-665 | 382-604 |
| | 45 | | 382-215 | 382-556 | 382-666 | 382-791 |
| | 50 | | 382-216 | 382-557 | 382-667 | 382-250 |
| | 55 | | 382-B04-1M | 382-558 | | 382-792 |
| | 60 | | 382-218 | 382-559 | 382-668 | 382-251 |
| | 65 | | 382-446 | | | 382-793 |
| | 70 | | 382-447 | 382-560 | | 382-794 |
| | 75 | | 382-448 | | | 382-795 |
| | 80 | | 382-449 | 382-561 | | 382-796 |
| | 90 | | 382-450 | 382-562 | | 382-797 |
| | 100 | | 382-451 | 382-563 | | 382-798 |

Continued on the next page...

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B

Slot Drive
# 4.8 STEEL
**Zinc Plated**

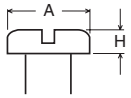
**METRIC**
**Standard (Coarse) Thread**

For Head Size Charts see pages R10 & R11.

Continued from Previous Page



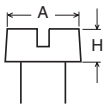
North American




Head Style
IFI 513, 1982

**PAN**



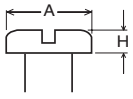



**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style
**CHEESE**



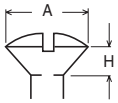



**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style
**PAN**



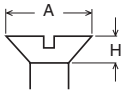




**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style
**OVAL**




**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style
**FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
|---|---|---|---|---|---|---|
| **M8**<br>Pitch: 1.25 mm<br>Tap Hole: 6.75 mm | 10 | | 382-219 | 382-564 | | 382-252 |
| | 12 | | 382-220 | 382-565 | | 382-799 |
| | 16 | | 382-148 | 382-153 | 382-669 | 382-158 |
| | 18 | | 382-221 | | | |
| | 20 | | 382-149 | 382-566 | 382-156 | 382-159 |
| | 22 | | 382-222 | | | |
| | 25 | 382-370 | 382-150 | 382-155 | 382-670 | 382-271 |
| | 28 | | 382-223 | | | |
| | 30 | | 382-151 | 382-567 | 382-157 | 382-160 |
| | 35 | | 382-152 | 382-568 | 382-671 | 382-800 |
| | 40 | | 382-224 | 382-569 | 382-672 | 382-253 |
| | 45 | | 382-225 | 382-269 | 382-673 | 382-801 |
| | 50 | | 382-226 | 382-570 | 382-B08-1Y | 382-254 |
| | 55 | | 382-227 | 382-270 | | 382-802 |
| | 60 | | 382-228 | 382-571 | 382-675 | 382-255 |
| | 65 | | 382-452 | | | 382-803 |
| | 70 | | 382-B09-1C | 382-572 | | 382-804 |
| | 75 | | | | | 382-805 |
| | 80 | | 382-455 | 382-573 | | 382-806 |
| | 90 | | 382-456 | 382-574 | | 382-807 |
| | 100 | | 382-457 | 382-575 | | 382-808 |
| **M10**<br>Pitch: 1.50 mm<br>Tap Hole: 8.50 mm | 12 | | 382-229 | | | |
| | 16 | | 382-161 | 382-577 | | 382-256 |
| | 20 | | 382-231 | | | 382-257 |
| | 25 | | 382-162 | 382-166 | 382-168 | 382-809 |
| | 30 | | 382-234 | 382-579 | 382-678 | 382-258 |
| | 35 | | 382-163 | 382-580 | 382-169 | 382-810 |
| | 40 | | 382-235 | 382-581 | | 382-259 |
| | 45 | | 382-236 | | | 382-811 |
| | 50 | | 382-164 | | 382-680 | 382-260 |
| | 60 | | 382-238 | 382-583 | 382-681 | 382-261 |
| | 70 | | 382-458 | 382-584 | | 382-814 |
| | 80 | | 382-459 | 382-585 | | 382-815 |
| | 90 | | 382-460 | | | 382-817 |
| | 100 | | 382-461 | | | 382-818 |
| **M12**<br>Pitch: 1.75 mm<br>Tap Hole: 20 mm | 20 | | | | | 382-819 |
| | 25 | | | | | 382-B05-1X |
| | 30 | | | | | 382-821 |
| | 40 | | | | | 382-822 |
| | 50 | | | | | 382-823 |
| | 60 | | | | | 382-824 |

**Contact Sales Desk For Package Quantities**




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**Slot Drive**

# 4.8 STEEL

**METRIC Standard (Coarse) Thread**

For Head Size Charts see pages R10 & R11.

**PKG QTY. 100**



**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **CHEESE**



**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **PAN**




**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **FLAT**

**YELLOW ZINC PLATED**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | |
|---|---|---|---|---|
| **M2** Pitch: 0.40 mm Tap Hole: 1.60 mm | 5 | 382-040YZ | | |
| | 6 | 382-406YZ | | |
| | 8 | 382-041YZ | | |
| | 12 | 382-042YZ | | |
| **M2.5** Pitch: 0.45 mm Tap Hole: 2.05 mm | 6 | 382-416YZ | | |
| | 8 | | 382-495YZ | |
| | 10 | | 382-496YZ | |
| | 14 | | 382-498YZ | |
| | 16 | | 382-499YZ | |
| **M3** Pitch: 0.50 mm Tap Hole: 2.50 mm | 4 | | 382-503YZ | |
| | 5 | | 382-504YZ | |
| | 6 | | 382-078YZ | |
| | 8 | | 382-285YZ | 382-083YZ |
| | 10 | | 382-079YZ | |
| | 12 | 382-077YZ | 382-263YZ | |
| **M3.5** Pitch: 0.60 mm Tap Hole: 2.90 mm | 5 | | 382-516YZ | |
| | | | | |
| **M4** Pitch: 0.70 mm Tap Hole: 3.30 mm | 6 | | 382-527YZ | |
| | 8 | 382-102YZ | 382-106YZ | |
| | 10 | 382-103YZ | 382-528YZ | |
| | 12 | 382-104YZ | 382-107YZ | |
| | 16 | | 382-529YZ | |
| | 20 | 382-192YZ | | |
| | 25 | | 382-266YZ | |
| | 35 | | 382-531YZ | |
| **M5** Pitch: 0.80 mm Tap Hole: 4.20 mm | 8 | | 382-121YZ | |
| | 10 | | 382-122YZ | |
| | 12 | | 382-602YZ | |
| | 16 | | 382-267YZ | |
| | 20 | 382-118YZ | 382-123YZ | 382-776YZ |
| **M6** Pitch: 1.00 mm Tap Hole: 5.00 mm | 10 | | 382-137YZ | |
| | 12 | | | 382-144YZ |
| | | | | |

See our Metric Series Head Dimension Chart on Page R11

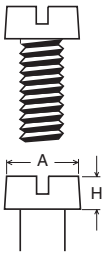




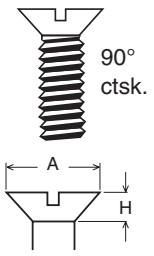
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## Slot Drive 5.8 STEEL Plain Finish

**METRIC**
**Standard (Coarse) Thread**




**DIN 84**
This Standard has been replaced. Please see Catalog Page R21 for more information.
Head Style **CHEESE**




**DIN 963**
This Standard has been replaced. Please see Catalog Page R21 for more information.
Head Style **FLAT**

| DIAMETER in mm | LGTH. mm | DIN 84 CHEESE | DIN 963 FLAT |
|---|---|---|---|
| | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | |
| **M1** Pitch: 0.25 mm Tap Hole: 0.75 mm | 3 | 382-867 | |
| | 5 | 382-869 | |
| **M1.2** Pitch: 0.25 mm Tap Hole: 0.95 mm | 2 | 382-870 | |
| | 3 | 382-B21-1P | |
| | 4 | 382-872 | |
| | 5 | 382-873 | |
| | 8 | 382-469 | |
| **M1.4** Pitch: 0.30 mm Tap Hole: 1.10 mm | 2 | 382-875 | |
| | 3 | | 382-690 |
| | 4 | 382-876 | |
| | 6 | 382-878 | |
| **M1.6** Pitch: 0.35 mm Tap Hole: 1.25 mm | 5 | | 382-699 |
| | 10 | | 382-702 |

**Property Class 5.8 continued top of next column.**

For small diameter slot drive metric machine screws in Property Class 4.8 see page B37.

## Slot Drive 5.8 STEEL

For Head Size Chart see pages R10 & R11.



**DIN 84**
This Standard has been replaced. Please see Catalog Page R21 for more information.
Head Style **CHEESE**

| DIAMETER in mm | LGTH. mm | DIN 84 CHEESE |
|---|---|---|
| | ORDER BY SPAENAUR NUMBERS LISTED BELOW | |
| **M1.7** Pitch: 0.35 mm Tap Hole: 1.35 mm | 10 | 382-883 |
| | 12 | 382-480 |
| **M1.8** Pitch: 0.35 mm Tap Hole: 1.45 mm | 5 | 382-485 |
| | 6 | 382-486 |
| | 8 | 382-487 |

## Slot Drive 5.8 STEEL Yellow Zinc Plated

**Metric Standard (Coarse) Thread**

For Head Size Chart see pages R10 & R11.



**DIN 85**
This Standard has been replaced. Please see Catalog Page R21 for more information.
Head Style **PAN**

| DIAMETER in mm | LGTH. mm | DIN 85 PAN |
|---|---|---|
| | ORDER BY SPAENAUR NUMBERS LISTED BELOW | |
| **M4** | 8 | 382-854YZ |
| | 35 | 382-299YZ |

## Slot Drive 8.8 STEEL

**Metric Standard (Coarse) Thread**
**Zinc Plated**



**DIN 84**
This Standard has been replaced. Please see Catalog Page R21 for more information.
Head Style **CHEESE**

| DIAMETER in mm | LGTH. mm | DIN 84 CHEESE |
|---|---|---|
| **M5** | 10 | 382-865 |

**PKG QTY. 100 for all items on this page.**



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# 304 & 316 STAINLESS STEEL

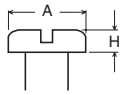
**METRIC**
**Standard (Coarse) Thread**

For Head Size Chart see pages R10 & R11.



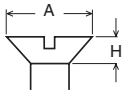


**DIN 84**
This Standard has been replaced. Please see Catalog Page R21 for more information.
Head Style **CHEESE**


**DIN 85**
This Standard has been replaced. Please see Catalog Page R21 for more information.
Head Style **PAN**






**DIN 963**
This Standard has been replaced. Please see Catalog Page R21 for more information.
Head Style **FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
|---|---|---|---|---|---|---|
| AUSTENITIC TYPES | | 304 | 316 | 316 | 304 | 316 |
| **M1** Pitch: 0.25 mm Tap Hole: 0.75 mm | 2 | 421-211 | | | | |
| | 3 | 421-138 | | | | |
| | 4 | 421-185 | | | | |
| | 6 | 421-187 | | | | |
| **M1.6** Pitch: 0.35 mm Tap Hole: 1.35 mm | 2 | 421-209 | | | | |
| | 3 | 421-139 | | | 421-374 | |
| | 4 | 421-140 | | | 421-197 | |
| | 5 | 421-141 | | | 421-171 | |
| | 6 | 421-142 | | | 421-172 | |
| | 8 | 421-143 | | | 421-198 | |
| | 10 | 421-188 | | | 421-199 | |
| | 12 | 421-144 | | | 421-200 | |
| **M2** Pitch: 0.40 mm Tap Hole: 1.60 mm | 3 | | 421-500 | 421-271 | 421-375 | |
| | 4 | 421-145 | | 421-272 | 421-376 | 421-541 |
| | 5 | 421-146 | | 421-273 | 421-173 | 421-542 |
| | 6 | 421-147 | | 421-274 | 421-174 | 421-543 |
| | 8 | 421-A11-1K | 421-504 | 421-275 | 421-175 | 421-544 |
| | 10 | 421-149 | | | 421-176 | |
| | 12 | | | 421-277 | 421-377 | |
| | 16 | 421-151 | | 421-278 | 421-378 | 421-547 |
| | 20 | 421-213 | | 421-279 | 421-201 | |
| | 25 | 421-214 | | | | |
| **M2.5** Pitch: 0.45 mm Tap Hole: 2.05 mm | 3 | 421-215 | | 421-280 | | |
| | 4 | 421-152 | | 421-164 | 421-379 | |
| | 5 | 421-153 | 421-507 | 421-165 | 421-177 | 421-549 |
| | 6 | 421-154 | 421-508 | 421-166 | 421-380 | |
| | 8 | | 421-509 | 421-167 | | |
| | 10 | 421-A01-1M | | 421-168 | 421-A10-1T | 421-551 |
| | 12 | | | 421-169 | 421-179 | |
| | 14 | 421-A02-1T | | | | |
| | 16 | 421-159 | 421-512 | 421-281 | 421-180 | 421-552 |
| | 20 | 421-160 | | | | |
| | 25 | 421-216 | | | 421-382 | |

**PKG QTY. 100** – *up to **60 mm** length (inclusive)* ***50*** – *over **60 mm** length*

continued on next page...

See our Corrosion Guide on Pages R15-R18



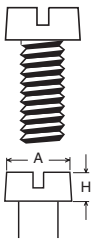
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B

# 304 & 316 STAINLESS STEEL

**METRIC**
**Standard (Coarse) Thread**

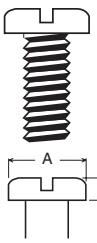
For Head Size Chart see pages R10 & R11.
Continued from Previous Page




**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

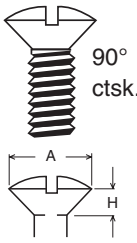
Head Style **CHEESE**




**DIN 85**

This Standard has been replaced. Please see Catalog Page R21 for more information.

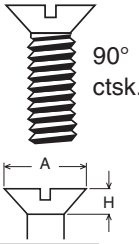
Head Style **PAN**




**DIN 964**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **OVAL**




**DIN 963**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AUSTENITIC TYPES | | 304 | 316 | 304 | 316 | 304 | 316 | 304 | 316 |
| **M2.6** Pitch: 0.45 mm Tap Hole: 2.15 mm | 6 | 421-161 | | | | | | | |
| | 8 | 421-162 | | | | | | | |
| **M3** Pitch: 0.50 mm Tap Hole: 2.50 mm | 3 | 421-217 | | | | | | | |
| | 4 | 421-218 | | 421-226 | | | | 421-368 | |
| | 5 | 421-219 | | 421-041 | | | | 421-182 | |
| | 6 | 421-001 | 421-516 | 421-137 | | | 421-555 | 421-092 | |
| | 8 | | 421-517 | 421-042 | | 421-064 | | 421-093 | |
| | 10 | 421-A08-1T | 421-518 | 421-284 | | | | 421-384 | 421-569 |
| | 12 | 421-004 | 421-519 | 421-043 | | 421-065 | | | 421-581 |
| | 16 | 421-005 | 421-577 | 421-285 | 421-040 | | | 421-095 | |
| | 20 | 421-221 | | 421-286 | | 421-066 | | 421-096 | |
| | 25 | 421-205 | | 421-287 | | | | 421-202 | |
| | 30 | 421-222 | | 421-288 | | | | 421-385 | |
| | 35 | 421-223 | | 421-289 | | | | 421-386 | |
| | 40 | | | 421-210 | | | | 421-387 | |
| | 45 | 421-224 | | 421-290 | | | | | |
| | 50 | 421-225 | | 421-291 | | | | 421-389 | |
| **M3.5** Pitch: 0.60 mm Tap Hole: 2.90 mm | 5 | | | 421-292 | | | | | |
| | 6 | 421-A13-1M | | 421-293 | | | | | |
| | 8 | 421-007 | | 421-294 | | | | | |
| | 10 | 421-189 | | 421-295 | | | | | |
| | 12 | 421-008 | | | | | | | |
| | 16 | 421-009 | | 421-297 | | | | | |
| | 20 | 421-190 | | 421-298 | | | | | |
| | 25 | 421-191 | | | | | | | |
| | 30 | 421-192 | | | | | | | |

**PKG QTY. 100** – *up to 60 mm length (inclusive)* ***50*** – *over 60 mm length*

continued on next page...

**ASSORTMENT / ASSORTIMENT 805-429**

**METRIC**
**Standard (Coarse) Thread**
**A2 Stainless Steel MACHINE SCREWS**

## 24 SIZES–215 PIECES

**Contains slotted Cheese, Oval and Flat heads, in Metric diameters M3 to M10.**

REGULAR SIZE grey enamelled STEEL Drawer has "scooped" bins. Will fit the Slide Racks shown on page A2
Shipping Weight: **2.72 kg** (6 lbs.)





**For the complete assortment contents turn to A31**





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# 304 & 316 STAINLESS STEEL

**METRIC**
**Standard (Coarse) Thread**

For Head Size Chart see pages R10 & R11.

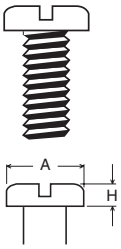
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**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

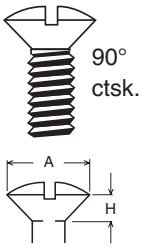
Head Style **CHEESE**




**DIN 85**

This Standard has been replaced. Please see Catalog Page R21 for more information.

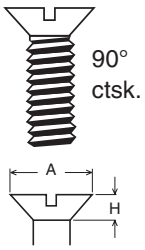
Head Style **PAN**




**DIN 964**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **OVAL**




**DIN 963**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AUSTENITIC TYPES | | 304 | 316 | 304 | 316 | 304 | 316 | 304 | 316 |
| **M4** Pitch: 0.70 mm Tap Hole: 3.30 mm | 4 | 421-228 | | 421-A04-1P | | | | | |
| | 5 | 421-229 | | 421-300 | | | | | |
| | 6 | 421-010 | | 421-047 | | | | 421-203 | |
| | 8 | 421-230 | 421-A06-1C | | | 421-184 | | 421-101 | |
| | 10 | 421-011 | 421-372 | 421-048 | 421-533 | 421-070 | | 421-390 | 421-579 |
| | 12 | 421-207 | 421-521 | 421-302 | | | | 421-102 | |
| | 14 | 421-231 | | | | | | | |
| | 16 | 421-012 | | 421-049 | | | | 421-103 | 421-580 |
| | 20 | 421-013 | | 421-303 | 421-534 | 421-072 | 421-558 | 421-104 | |
| | 25 | 421-014 | | 421-304 | | 421-073 | 421-559 | 421-391 | |
| | 30 | 421-015 | | 421-305 | | 421-074 | 421-560 | 421-105 | |
| | 35 | 421-233 | | 421-306 | | | | 421-392 | |
| | 40 | 421-208 | | 421-307 | | | | 421-393 | |
| | 45 | 421-234 | | 421-308 | | | | 421-394 | |
| | 50 | 421-235 | | 421-309 | | | | 421-437 | |
| | 55 | 421-236 | | 421-310 | | | | | |
| | 60 | 421-237 | | 421-311 | | | | 421-395 | |
| | 70 | 421-044 | | | | | | | |
| **M5** Pitch: 0.80 mm Tap Hole: 4.20 mm | 6 | 421-193 | | 421-312 | | | | 421-204 | |
| | 8 | 421-016 | 421-373 | 421-313 | | | | 421-396 | |
| | 10 | 421-017 | | 421-A12-1W | 421-535 | | | 421-106 | |
| | 12 | 421-239 | 421-524 | 421-314 | | 421-075 | | 421-A14-1X | |
| | 16 | 421-018 | 421-525 | 421-051 | 421-536 | 421-076 | | 421-A03-1A | |
| | 18 | 421-240 | | | | | | | |
| | 20 | 421-019 | | 421-052 | | 421-077 | 421-561 | 421-108 | |
| | 25 | 421-020 | | 421-315 | | 421-078 | 421-562 | 421-109 | |
| | 30 | 421-021 | 421-A07-1N | | | | 421-563 | 421-436 | |
| | 35 | 421-241 | | 421-317 | | | 421-564 | 421-398 | |
| | 40 | 421-022 | | 421-318 | | | 421-565 | 421-399 | |
| | 45 | 421-194 | | 421-319 | | | | | |
| | 50 | 421-195 | | 421-320 | | | 421-566 | 421-401 | |
| | 55 | | | 421-321 | | | | | |
| | 60 | 421-242 | | 421-322 | | | | 421-402 | |
| | 70 | | | 421-323 | | | | 421-403 | |
| | 80 | 421-244 | | 421-324 | | | | 421-404 | |
| | 90 | 421-245 | | 421-325 | | | | 421-405 | |
| | 100 | | | 421-326 | | | | 421-406 | |

**PKG QTY. 100** – *up to **60 mm** length (inclusive)* ***50*** – *over **60 mm** length*

continued on next page...



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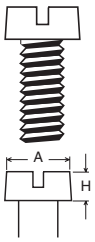
B

# 304 & 316 STAINLESS STEEL

**METRIC**
**Standard (Coarse) Thread**

For Head Size Chart see pages R10 & R11.

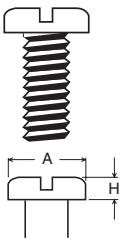
Continued from Previous Page




**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

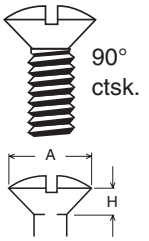
Head Style
**CHEESE**




**DIN 85**

This Standard has been replaced. Please see Catalog Page R21 for more information.

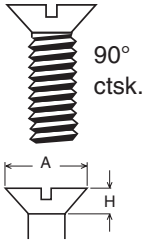
Head Style
**PAN**




**DIN 964**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style
**OVAL**




**DIN 963**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style
**FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AUSTENITIC TYPES | | 304 | 316 | 304 | 316 | 304 | 316 | 304 | 316 |
| **M6** Pitch: 1.00 mm Tap Hole: 5.00 mm | 8 | 421-247 | | 421-327 | | | | 421-407 | |
| | 10 | 421-023 | | 421-A05-1Y | 421-538 | 421-079 | | 421-135 | |
| | 12 | 421-248 | | 421-054 | | | | 421-110 | |
| | 16 | 421-024 | 421-527 | 421-055 | 421-539 | 421-080 | | 421-111 | |
| | 20 | 421-025 | | 421-056 | 421-540 | 421-081 | | 421-112 | |
| | 25 | 421-026 | | 421-328 | | 421-082 | | 421-113 | |
| | 30 | 421-027 | 421-528 | 421-329 | | 421-083 | | | |
| | 35 | 421-249 | | 421-330 | | | | 421-408 | |
| | 40 | 421-028 | | 421-331 | | 421-084 | | 421-409 | |
| | 45 | | | 421-332 | | | | 421-410 | |
| | 50 | | | 421-333 | | | 421-567 | 421-411 | |
| | 60 | 421-250 | | 421-335 | | | | 421-413 | |
| | 70 | 421-251 | | 421-336 | | | | 421-414 | |
| | 80 | 421-252 | | 421-337 | | | | | |
| | 90 | 421-253 | | 421-338 | | | | 421-416 | |
| | 100 | | | 421-339 | | | | 421-417 | |
| **M8** Pitch: 1.25 mm Tap Hole: 6.75 mm | 10 | | | 421-366 | | | | | |
| | 12 | 421-030 | | 421-057 | | | | 421-418 | |
| | 16 | 421-031 | | 421-058 | | | | 421-419 | |
| | 20 | 421-032 | | 421-059 | | 421-085 | | 421-114 | |
| | 25 | 421-A09-1K | | 421-340 | | | | 421-115 | |
| | 30 | 421-033 | | 421-060 | | 421-086 | | 421-116 | |
| | 35 | 421-256 | | 421-341 | | | | | |
| | 40 | | | 421-342 | | 421-087 | | | |
| | 45 | 421-257 | | 421-367 | | | | | |
| | 50 | 421-035 | | 421-343 | | | | 421-136 | |
| | 60 | 421-258 | | 421-344 | | | | 421-422 | |
| | 70 | 421-259 | | 421-345 | | | | 421-423 | |
| | 80 | 421-260 | | 421-346 | | | | 421-424 | |
| | 90 | 421-261 | | 421-347 | | | | 421-425 | |
| | 100 | 421-262 | | 421-348 | | | | 421-426 | |
| **M10** Pitch: 1.50 mm Tap Hole: 8.50 mm | 16 | 421-263 | | 421-349 | | | | 421-117 | 421-578 |
| | 20 | | | | | | | 421-118 | |
| | 25 | | | | | | | 421-119 | |
| | 30 | 421-037 | | | | | | 421-120 | |
| | 35 | | | | | | | 421-427 | |
| | 40 | | | 421-351 | | | | | |
| | 60 | | | | | | | 421-430 | |
| | 70 | 421-267 | | 421-353 | | | | 421-431 | |
| | 80 | 421-268 | | 421-354 | | | | 421-432 | |
| | 90 | 421-269 | | 421-355 | | | | 421-433 | |
| | 100 | 421-270 | | 421-356 | | | | 421-434 | |

**PKG QTY. 100**
*– up to **60 mm** length (inclusive)*
*50 – over **60 mm** length*



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

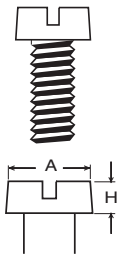
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# BRASS

**Unplated**

**METRIC**
**Standard (Coarse) Thread**

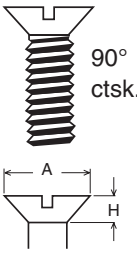
For Head Size Charts see pages R10 & R11.




**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style
**CHEESE**




**DIN 963**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style
**FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | |
|---|---|---|---|
| **M1** Pitch: 0.25 mm Tap Hole: 0.75 mm | 2 | 401-001 | |
| | 3 | 401-002 | 401-028 |
| | 4 | 401-003 | 401-029 |
| | 5 | 401-004 | 401-030 |
| **M1.2** Pitch: 0.25 mm Tap Hole: 0.95 mm | 2 | 401-005 | |
| | 3 | 401-006 | 401-031 |
| | 4 | 401-007 | 401-032 |
| | 5 | 401-008 | 401-033 |
| | 6 | 401-009 | 401-034 |
| **M1.4** Pitch: 0.30 mm Tap Hole: 1.10 mm | 2 | 401-010 | |
| | 4 | 401-011 | 401-035 |
| | 5 | 401-012 | 401-036 |
| | 6 | 401-013 | 401-037 |
| | 8 | 401-014 | 401-038 |
| **M1.7** Pitch: 0.35 mm Tap Hole: 1.35 mm | 2 | 401-015 | |
| | 4 | 401-016 | 401-039 |
| | 6 | 401-017 | 401-040 |
| | 10 | 401-018 | 401-041 |
| **M2** Pitch: 0.40 mm Tap Hole: 1.60 mm | 3 | | 401-042 |
| | 4 | 401-212 | |
| | 5 | 401-019 | 401-043 |
| | 6 | 401-213 | 401-327 |
| | 8 | 401-214 | 401-044 |
| | 10 | | 401-328 |
| | 12 | 401-020 | 401-045 |
| | 18 | 401-021 | 401-046 |
| | 20 | 401-217 | |
| **M2.3** Pitch: 0.40 mm Tap Hole: 1.90 mm | 4 | | 401-047 |
| | 6 | | 401-048 |
| | 8 | 401-022 | 401-049 |
| | 10 | 401-023 | |
| | 15 | 401-024 | |

**PKG QTY. 100** *– up to **60 mm** length (inclusive)* ***50*** *– over **60 mm** length*

Continued on the next page...

For Hazet Offset Screwdrivers see Page N14



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B

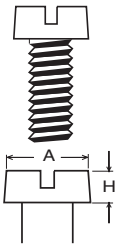
# BRASS

**Unplated**

**METRIC**
**Standard (Coarse) Thread**

For Head Size Charts see pages R10 & R11.

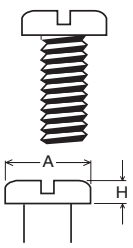
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**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

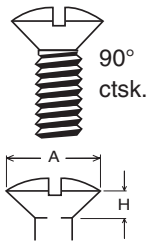
Head Style **CHEESE**




**DIN 85**

This Standard has been replaced. Please see Catalog Page R21 for more information.

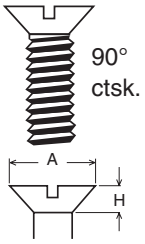
Head Style **PAN**




**DIN 964**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **OVAL**




**DIN 963**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | |
|---|---|---|---|---|---|
| **M2.5** Pitch: 0.45 mm Tap Hole: 2.05 mm | 3 | | | | 401-332 |
| | 4 | 401-025 | 401-276 | | 401-333 |
| | 5 | | 401-277 | | 401-334 |
| | 6 | 401-026 | 401-278 | | 401-053 |
| | 8 | 401-219 | 401-279 | | |
| | 10 | 401-211 | 401-280 | | 401-336 |
| | 12 | | 401-281 | | |
| | 16 | 401-027 | 401-282 | | 401-337 |
| | 20 | | 401-283 | | 401-338 |
| **M3** Pitch: 0.50 mm Tap Hole: 2.50 mm | 3 | | | | 401-340 |
| | 4 | | 401-284 | | 401-197 |
| | 5 | 401-055 | 401-285 | | 401-341 |
| | 6 | 401-056 | 401-091 | | 401-135 |
| | 8 | 401-057 | | 401-108 | 401-136 |
| | 10 | 401-058 | 401-092 | 401-109 | 401-137 |
| | 12 | 401-059 | 401-287 | | 401-342 |
| | 16 | 401-060 | 401-093 | | 401-138 |
| | 20 | 401-061 | 401-288 | | |
| | 25 | 401-062 | 401-289 | | |
| | 30 | 401-222 | | | 401-344 |
| | 35 | 401-223 | | | |
| | 60 | 401-227 | | | |
| **M3.5** Pitch: 0.60 mm Tap Hole: 2.90 mm | 10 | 401-064 | | | |
| | 16 | 401-065 | | | |
| | 20 | 401-066 | 401-096NP Nickel Plated | | |
| | 25 | 401-067 | | | |

**PKG QTY. 100** – *up to **60 mm** length (inclusive)* 50 – *over **60 mm** length*

Continued on the next page...

SPAENAUR
*Fasteners Right Now®*

For Inch Size Brass Screws see Page B14





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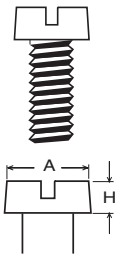
# BRASS

**Unplated**

**METRIC**
**Standard (Coarse) Thread**

For Head Size Charts see pages R10 & R11.

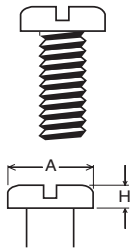
Continued from Previous Page




**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

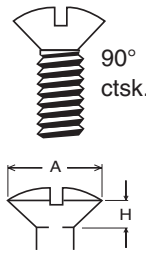
Head Style **CHEESE**




**DIN 85**

This Standard has been replaced. Please see Catalog Page R21 for more information.

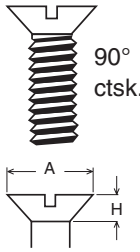
Head Style **PAN**




**DIN 964**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **OVAL**




**DIN 963**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | |
|---|---|---|---|---|---|
| **M4** Pitch: 0.70 mm Tap Hole: 3.30 mm | 4 | **401-228** | | | |
| | 5 | | **401-292** | | |
| | 6 | **401-068** | **401-097** | | **401-347** |
| | 8 | **401-229** | **401-293** | **401-116** | **401-144** |
| | 10 | ■ **401-069** | **401-098** | **401-117** | **401-199** |
| | 12 | | **401-294** | | **401-145** |
| | 16 | **401-070** | **401-099** | | **401-200** |
| | 20 | **401-P04-1N** (Nickel Plated) | **401-100** | | **401-146** |
| | 25 | **401-072** | **401-295** | **401-119** | **401-201** |
| | 30 | **401-231** | **401-296** | | **401-147** |
| | 35 | | | | **401-348** |
| | 40 | **401-233NP** (Nickel Plated) | **401-298** | | **401-349** |
| | 45 | | **401-299** | | **401-350** |
| | 50 | | **401-300** | | **401-351** |
| | 60 | **401-236** | | | **401-352** |
| **M5** Pitch: 0.80 mm Tap Hole: 4.20 mm | 6 | **401-184** | | | |
| | 8 | **401-238** | **401-101** | | **401-353** |
| | 10 | **401-073** | **401-302** | **401-120** | **401-148** |
| | 12 | **401-239** | **401-102** | | **401-354** |
| | 16 | **401-074** | **401-303** | **401-121** | **401-149** |
| | 20 | **401-075** | **401-103** | | **401-150** |
| | 25 | **401-076** | | **401-122** | **401-355** |
| | 30 | | **401-305** | | **401-151** |
| | 35 | **401-077** | | | |
| | 40 | **401-240** | **401-307** | | **401-152** |
| | 45 | | | | **401-357** |
| | 50 | **401-242** | | **401-164NP** (Nickel Plated) | **401-358** |
| | 60 | **401-243** | | | **401-359** |
| | 70 | | **401-311** | | |
| | 80 | **401-245** | | | |
| | 90 | **401-246** | | | **401-362** |
| | 100 | **401-247** | | | **401-363** |

■ **401-069NP** Nickel Plated

**PKG QTY. 100** – *up to **60 mm** length (inclusive)* ***50*** – *over **60 mm** length*

Continued on the next page...

For Brass Metric Hexagon Nuts see Page C12



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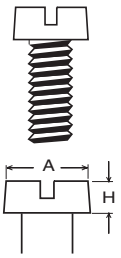
# BRASS

**Unplated**

**METRIC**
**Standard (Coarse) Thread**

For Head Size Charts see pages R10 & R11.

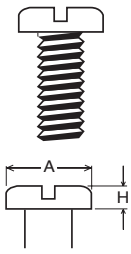
Continued from Previous Page




**DIN 84**

This Standard has been replaced. Please see Catalog Page R21 for more information.

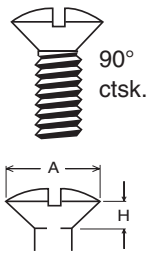
Head Style **CHEESE**




**DIN 85**

This Standard has been replaced. Please see Catalog Page R21 for more information.

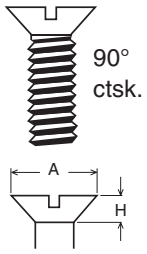
Head Style **PAN**




**DIN 964**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **OVAL**




**DIN 963**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Head Style **FLAT**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | |
|---|---|---|---|---|---|
| **M6** Pitch: 1.00 mm Tap Hole: 5.00 mm | 8 | 401-186 | 401-313 | | 401-203 |
| | 10 | 401-P03-1C | 401-104 | 401-123 | 401-364 |
| | 12 | 401-248 | 401-314 | | 401-365 |
| | 16 | 401-079 | 401-105 | 401-124 | 401-153 |
| | 20 | 401-080 | 401-106 | 401-125 | 401-154 |
| | 25 | 401-081 | 401-315 | 401-126 | 401-204 |
| | 30 | 401-249 | 401-316 | | |
| | 35 | 401-082 | | | 401-366 |
| | 40 | | | | 401-205 |
| | 50 | 401-083 | | | 401-368 |
| **M8** Pitch: 1.25 mm Tap Hole: 6.75 mm | 10 | | | | *401-373 |
| | 16 | 401-084 | | | |
| | 20 | 401-085 | | | 401-157 |
| | 25 | | | | 401-158 |
| | 30 | 401-P02-1Y | | | 401-P05-1T |
| | 40 | | | | 401-375 |
| | 50 | 401-087 | | | 401-377 |
| **M10** Pitch: 1.50 mm Tap Hole: 8.50 mm | 16 | | | | 401-209 |
| | 25 | 401-267 | | | 401-161 |
| | 30 | | | | 401-162 |
| | 40 | | | | 401-163 |
| | 45 | 401-P01-1P | | | |

***401-373NP** Nickel Plated

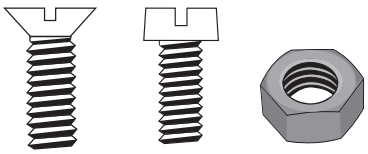
**PKG QTY. 100** – *up to **60 mm** length (inclusive)* 50 – *over **60 mm** length*

**ASSORTMENT**
**ASSORTIMENT** **805-536A**

## METRIC STANDARD COARSE THREAD

## MACHINE SCREWS AND HEX NUTS

**BRASS - Unplated**



**62 SIZES - 1245 PIECES**

Furnished in a Regular Size grey enamelled steel drawer.

Shipping Weight **4.08** kg (9 lbs.)





**For the complete assortment contents turn to A32**



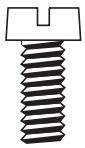
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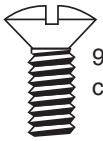
# NYLON

**(Polyamid 6/6)**
NATURAL COLOUR

**METRIC**
**Standard (Coarse) Thread**


Head Style **CHEESE**


Head Style **PAN**



Head Style **OVAL**



Head Style **FLAT**


**HEXAGON CAP SCREW**
Full or Partial Thread Our Option
Head Style **UNSLOTTED**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
|---|---|---|---|---|---|---|
| **M2** Pitch: 0.40 mm Tap Hole: 1.60 mm | 5 | | 446-W01-1T | | | |
| | 10 | 446-103 | | | | |
| | 16 | | 446-132 | | | |
| **M2.5** Pitch: 0.45 mm Tap Hole: 2.15 mm | 10 | 446-104 | | | | |
| **M3** Pitch: 0.50 mm Tap Hole: 2.50 mm * ISO 2009 ** ISO 1207 | 4 | 446-004 | 446-134 | | *446-185 | |
| | 5 | 446-005 | 446-021 | | | **353-001 |
| | 6 | 446-006 | 446-135 | 446-030 | 446-038 | 353-035 |
| | 8 | 446-007 | 446-022 | | 446-039 | **353-002 |
| | 10 | 446-008 | | 446-031 | 446-186 | 353-036 |
| | 12 | 446-W02-1K | 446-023 | | 446-040 | 353-003 |
| | 16 | 446-009 | 446-137 | 446-032 | 446-187 | 353-037 |
| | 20 | 446-107 | 446-138 | | 446-188 | 353-038 |
| | 25 | 446-108 | 446-139 | | 446-204 | 353-039 |
| | 30 | 446-109 | 446-140 | | | |
| **M3.5** Pitch: 0.60 mm Tap Hole: 2.90 mm | 5 | 446-010 | | | | |
| | 8 | 446-011 | 446-024 | | | |
| **M4** Pitch: 0.70 mm Tap Hole: 3.30 mm | 6 | 446-110 | 446-025 | | 446-041 | 353-004 |
| | 8 | 446-013 | 446-141 | | 446-189 | 353-040 |
| | 10 | 446-111 | 446-026 | 446-033 | 446-042 | 353-005 |
| | 12 | 446-014 | 446-142 | | 446-190 | 353-041 |
| | 15 | | | | 446-177 | |
| | 16 | 446-100 | 446-027 | | 446-191 | 353-006 |
| | 18 | 446-015 | | | | |
| | 20 | 446-112 | 446-028 | 446-034 | 446-043 | 353-007 |
| | 25 | 446-016 | 446-143 | 446-035 | 446-192 | 353-042 |
| | 30 | 446-017 | 446-144 | | 446-193 | 353-008 |
| | 35 | | 446-145 | 446-036 | 446-044 | |
| | 40 | 446-018 | 446-146 | | | 353-009 |
| **M5** Pitch: 0.80 mm Tap Hole: 4.20 mm ◆446-213 Partial Thread | 6 | 446-113 | 446-147 | | | 353-043 |
| | 8 | 446-045 | 446-148 | | | 353-044 |
| | 10 | 446-046 | 446-068 | | 446-W03-1W | 353-045 |
| | 12 | 446-114 | 446-149 | | 446-195 | 353-010 |
| | 15 | | | | 446-175 | |
| | 16 | 446-047 | 446-102 | 446-079 | 446-089 | 353-046 |
| | 20 | 446-048 | 446-150 | | 446-196 | 353-011 |
| | 25 | 446-049 | 446-069 | 446-080 | 446-090 | 353-047 |
| | 30 | 446-050 | 446-151 | | 446-197 | 353-012 |
| | 35 | | 446-070 | | | |
| | 40 | 446-051 | 446-152 | | 446-198 | 353-048 |
| | 50 | 446-052 | ◆446-153 | | | 353-049 |

**PKG QTY. 100** – up to 60 mm length (inclusive) **PKG QTY. 50** – over 60 mm length

Continued on the next page...





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# NYLON

**(Polyamid 6/6)**
NATURAL COLOUR

**METRIC**
**Standard (Coarse) Thread**

Continued from Previous Page

B



Head Style **CHEESE**



Head Style **PAN**




Head Style **OVAL**




Head Style **FLAT**



Head Style **HEXAGON**
Full or Partial Thread
Our Option
Head Style **UNSLOTTED**

| DIAMETER in mm | LGTH. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
|---|---|---|---|---|---|---|
| **M6** Pitch: 1.00 mm Tap Hole: 5.00 mm | 8 | 446-115 | 446-154 | | 446-199 | |
| | 10 | 446-053 | 446-071 | | 446-091 | 353-053 |
| | 12 | 446-054 | 446-155 | | | 353-054 |
| | 16 | 446-116 | 446-072 | 446-101 | 446-200 | 353-032 |
| | 20 | 446-W04-1M | 446-157 | | 446-092 | 353-055 |
| | 25 | 446-056 | 446-073 | 446-082 | 446-201 | 353-014 |
| | 30 | 446-117 | 446-158 | | 446-202 | 353-056 |
| | 35 | 446-057 | 446-159 | | 446-093 | 353-015 |
| | 40 | 446-118 | 446-160 | 446-083 | 446-203 | 353-057 |
| | 45 | 446-119 | 446-161 | | | |
| | 50 | 446-058 | 446-162 | | 446-205 | 353-058 |
| | 60 | 446-120 | 446-163 | | 446-094 | 353-059 |
| | 65 | 446-121 | | | | |
| | 70 | | 446-164 | | | |
| | 80 | | | | | 353-060 |
| **M8** Pitch: 1.25 mm Tap Hole: 6.75 mm | 10 | 446-124 | 446-165 | | | 353-062 |
| | 16 | 446-125 | 446-166 | | 446-206 | 353-031 |
| | 20 | 446-060 | 446-074 | | 446-095 | 353-016 |
| | 25 | 446-126 | 446-167 | | 446-207 | 353-063 |
| | 30 | 446-061 | 446-168 | | 446-096 | 353-017 |
| | 35 | 446-127 | 446-075 | | | 353-033 |
| | 40 | 446-128 | 446-169 | 446-085 | 446-097 | 353-018 |
| | 50 | 446-062 | 446-170 | | 446-208 | 353-019 |
| | 60 | 446-063 | | | | 353-064 |
| | 70 | | 446-172 | | 446-210 | |
| | 80 | | 446-173 | | | 353-M01-1P |
| **M10** Pitch: 1.50 mm Tap Hole: 8.50 mm | 20 | 446-130 | 446-174 | | | 353-071 |
| | 25 | | 446-076 | | 446-098 | 353-020 |
| | 30 | 446-065 | 446-176 | 446-086 | | 353-072 |
| | 35 | | 446-077 | | | 353-021 |
| | 45 | | | | | 353-022 |
| | 50 | | 446-179 | | 446-099 | 353-073 |
| | 60 | 446-067 | 446-180 | | | 353-023 |
| | 80 | | | | | 353-075 |

**PKG QTY. 100** *– up to **60 mm** length (inclusive)* ***50*** *– over **60 mm** length*

**For Larger (M12/M16) Nylon Hex Head Cap Screws see Page B175**

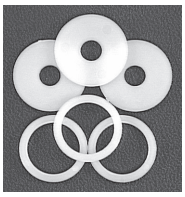
**ASSORTMENT / ASSORTIMENT 805-448**

**~DIN 125**
This Standard has been replaced. Please see Catalog Page R21 for more information.

## Inch & Metric FLAT WASHERS
**6/6 Nylon**

**18 Sizes**
**1000 Pieces**

Shipping Weight:
**2.27 kg** (5 lb.)







**For the complete assortment contents turn to A74**



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**ASSORTMENT / ASSORTIMENT 805-483B**

## METRIC PHILLIPS DRIVE

# Machine Screws
**Coarse Thread**

***Low Carbon STEEL, Plated Finish***

**PAN FI 513 , OVAL DIN 966 AND FLAT DIN 965 Heads**

**24 SIZES - 990 PIECES**

Furnished in REGULAR SIZE grey enamelled steel drawer.

Shipping Weight **4.3 kg** (9.5 lbs.)



***Phillips***
**OVAL HEAD**



***Phillips***
**FLAT HEAD**



***Phillips***
**PAN HEAD**

| Head Type | Spaenaur No. | Thread Size | Screw Length | Qty. | Page |
|---|---|---|---|---|---|
| Oval | 388-050 | M3 x 0.50 | 5mm | 65 | B56 |
| | 388-052 | | 12mm | 60 | |
| | 388-A20-1X | M4 x 0.70 | 6mm | 50 | |
| | 388-058 | | 16mm | | |
| | 388-062 | M5 x 0.80 | 20mm | 40 | |
| | 388-066 | M6 x 1.00 | 16mm | 30 | |
| | 388-067 | | 25mm | 20 | |
| | 388-071 | M8 x 1.25 | 30mm | | |
| Flat | 388-074 | M3 x 0.50 | 8mm | 65 | |
| | 388-076 | | 16mm | 60 | |
| | 388-079 | M4 x 0.70 | 10mm | 50 | |
| | 388-081 | | 25mm | | |
| | 388-083 | M5 x 0.80 | 12mm | 40 | |
| | 388-088 | M6 x 1.00 | 16mm | 30 | |
| | 388-089 | | 25mm | 20 | |
| | 388-092 | M8 x 1.25 | 16mm | | |
| Pan | 388-A01-1N | M3 x 0.50 | 12mm | 60 | B57 |
| | 388-253 | M3 | 20mm | | |
| | 388-020 | M3.5 x 0.60 | 16mm | 50 | |
| | 388-126 | M4 x 0.70 | | | |
| | 388-285 | M5 | 30mm | 40 | |
| | 388-293 | M6 | 25mm | 20 | |
| | 388-034 | M8 x 1.25 | 16mm | 30 | |
| | 388-035 | | 30mm | 20 | |





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B

# 4.8 STEEL PHILLIPS DRIVE

**METRIC "REGULAR" (COARSE) THREAD**
For Head Size Charts see pages R10 & R11.

**DIN 966**
This Standard has been replaced. Please see Catalog Page R21 for more information.




***Phillips***
**OVAL HEAD**
**ZINC PLATED**

| Style | Lgth. mm | M2 Pitch 0.4 | M2.5 Pitch 0.45 | M3 Pitch 0.5 | M4 Pitch 0.7 | M5 Pitch 0.8 | M6 Pitch 1.0 | M8 Pitch 1.25 |
|---|---|---|---|---|---|---|---|---|
| | | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| DIN 966 | 4 | 388-182 | | | | | | |
| | 5 | 388-183 | 388-188 | 388-050 | | | | |
| | 6 | 388-184 | 388-095 | 388-191 | 388-A20-1X | | | |
| | 8 | 388-185 | 388-189 | 388-051 | 388-198 | 388-060 | | |
| | 10 | | 388-096 | 388-192 | 388-057 | 388-208 | 388-065 | |
| | 12 | | 388-190 | 388-052 | 388-199 | 388-061 | 388-213 | |
| | 16 | | | 388-053 | 388-058 | 388-209 | 388-066 | 388-070 |
| | 18 | | | | 388-200 | | | |
| | 20 | | | 388-054 | 388-201 | 388-062 | 388-214 | 388-218 |
| | 25 | | | 388-055 | 388-059 | 388-113 | 388-067 | 388-219 |
| | 30 | | | ◆388-193 | 388-203 | 388-063 | 388-215 | 388-071 |
| | 35 | | | 388-194 | 388-204 | 388-210 | 388-068 | 388-220 |
| | 40 | | | 388-195 | 388-A14-1T | 388-064 | 388-216 | 388-221 |
| | 45 | | | 388-196 | 388-206 | 388-211 | 388-069 | 388-222 |
| | 50 | | | | 388-207 | 388-212 | 388-217 | 388-223 |
| | | | Additional Finishes or Material Grades of DIN 966<br>◆388-048 5.8 - Zinc Plated | | | | | |

**DIN 965**
This Standard has been replaced. Please see Catalog Page R21 for more information.




***Phillips***
**FLAT HEAD**
**ZINC PLATED**

| Style | Lgth. mm | M2 Pitch 0.4 | M2.5 Pitch 0.45 | M3 Pitch 0.5 | M3.5 Pitch 0.6 | M4 Pitch 0.7 | M5 Pitch 0.8 | M6 Pitch 1.0 | M8 Pitch 1.25 |
|---|---|---|---|---|---|---|---|---|---|
| | | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| DIN 965 | 4 | 388-129 | | 388-140 | | | | | |
| | 5 | 388-130 | 388-137 | 388-073 | | | | | |
| | 6 | 388-A22-1P | 388-072 | 388-141 | 388-101 | 388-078 | | | |
| | 8 | 388-132 | 388-138 | 388-074 | 388-148 | 388-226 | 388-A21-1A | | |
| | 10 | 388-133 | 388-097 | 388-142 | 388-102 | 388-079 | 388-115 | 388-087 | |
| | 12 | 388-134 | 388-139 | 388-075 | 388-149 | 388-116 | 388-083 | 388-162 | |
| | 16 | 388-135 | 388-098 | 388-076 | 388-103 | 388-080 | 388-159 | 388-088 | 388-092 |
| | 18 | | | | | 388-179 | 388-180 | 388-181 | |
| | 20 | 388-136 | 388-099 | 388-077 | 388-104 | 388-A24-1C | 388-084 | 388-163 | 388-170 |
| | 25 | | | 388-100 | 388-094 | •388-081 | 388-114 | 388-089 | 388-171 |
| | 30 | | | 388-143 | 388-150 | 388-152 | | 388-164 | 388-093 |
| | 35 | | | 388-144 | | 388-153 | 388-160 | 388-090 | 388-172 |
| | 40 | | | 388-145 | | 388-225 | 388-086 | 388-165 | 388-173 |
| | 45 | | | 388-146 | | 388-154 | 388-161 | 388-091 | 388-174 |
| | 50 | | | 388-147 | | 388-155 | 388-105 | 388-166 | 388-175 |
| | 60 | | | | | 388-A06-1X | 388-106 | 388-167 | 388-176 |
| | 70 | | | | | 388-157 | 388-107 | 388-168 | 388-177 |
| | 80 | | | | | 388-158 | 388-108 | 388-169 | 388-178 |
| | | | | | | | | •388-041 Posidrive | |

**PKG QTY. 100** – *up to **50 mm** length (inclusive)* ***50*** – *over **50 mm** length*

For Hazet Screwdriver Bits see Pages N42-N43




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# 4.8 STEEL ZINC PLATED

**METRIC "REGULAR" (COARSE) THREAD**

For Head Size Charts see pages R10 & R11.

**Style**

**DIN 7985**

This Standard has been replaced. Please see Catalog Page R21 for more information.



***Phillips***
**PAN HEAD**

| Lgth. mm | M2 Pitch 0.4 | M2.5 Pitch 0.45 | M3 Pitch 0.5 | M3.5 Pitch 0.6 | M4 Pitch 0.7 | M5 Pitch 0.8 | M6 Pitch 1.0 | M8 Pitch 1.25 | M10 Pitch 1.5 |
|---|---|---|---|---|---|---|---|---|---|
| | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 3 | 388-A23-1Y | 388-238 | | | | | | | |
| 4 | 388-231 | 388-239 | 388-247 | | | | | | |
| 5 | 388-232 | 388-240 | ▲388-248 | | 388-A08-1P | | | | |
| 6 | 388-233 | 388-038 | 388-A12-1K | 388-260 | 388-123 | 388-278 | | | |
| 8 | 388-A13-1N | 388-A26-1T | 388-A16-1W | 388-261 | 388-118 | 388-279 | 388-289 | | |
| 10 | 388-235 | 388-241 | 388-A29-1M | 388-262 | 388-A28-1W | 388-280 | 388-290 | | |
| 12 | 388-236 | 388-242 | 388-251 | 388-263 | 388-A18-1X | 388-128 | 388-121 | 388-301 | |
| 14 | | | 388-A30-1W | | | | | | |
| 16 | 388-227 | 388-243 | 388-252 | 388-264 | 388-126 | 388-282 | 388-127 | 388-302 | 388-315 |
| 20 | 388-237 | 388-244 | 388-253 | 388-265 | 388-268 | 388-283 | 388-A27-1K | 388-303 | 388-316 |
| 25 | | 388-245 | 388-A31-1M | 388-266 | 388-269 | 388-A32-1X | 388-293 | 388-304 | 388-317 |
| 30 | | 388-246 | 388-255 | 388-267 | 388-270 | 388-285 | 388-294 | 388-305 | 388-318 |
| 35 | | | 388-256 | | 388-A33-1A | 388-286 | 388-338 | 388-306 | 388-319 |
| 40 | | | 388-A19-1A | | 388-224 | 388-287 | 388-295 | 388-308 | 388-320 |
| 45 | | | 388-258 | | 388-272 | 388-288 | 388-296 | 388-309 | 388-321 |
| 50 | | | 388-259 | | 388-273 | 388-109 | 388-297 | 388-310 | 388-322 |
| 55 | | | | | 388-274 | | | | |
| 60 | | | | | 388-A25-1N | 388-110 | 388-298 | 388-311 | 388-323 |
| 70 | | | | | 388-276 | 388-111 | 388-299 | 388-312 | |
| 80 | | | | | 388-277 | 388-112 | 388-300 | | |

▲**388-352** Posidrive

## Additional Finishes on Property Class 4.8 of DIN 7985

This Standard has been replaced. Please see Catalog Page R21 for more information.

| *Spaenaur No.* | Size | Finish |
|---|---|---|
| 388-248YZ | M3 x 0.5 x 5 | Yellow Zinc |
| 388-119YZ | M3 x 0.5 x 6 | Yellow Zinc |
| 388-124YZ | M4 x 0.70 x 10 | Yellow Zinc |
| 388-297YZ | M6 x 1.0 x 50 | Yellow Zinc |

**Style**
**Conforming to IFI 513, 1982**



***Phillips***
**PAN HEAD**
**ZINC PLATED**

| Lgth. mm | M2 Pitch 0.4 | M2.5 Pitch 0.45 | M3 Pitch 0.5 | M3.5 Pitch 0.6 | M4 Pitch 0.7 | M6 Pitch 1.0 | M8 Pitch 1.25 |
|---|---|---|---|---|---|---|---|
| | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 5 | 388-A05-1M | | 388-A09-1Y | | | | |
| 6 | | 388-A11-1Y | | | 388-022 | | |
| 8 | | | 388-A10-1P | | *388-118YZ | | |
| 10 | | 388-A04-1W | | 388-A17-1M | 388-A07-1A | | |
| 12 | 388-005 | | 388-A01-1N | | | | |
| 16 | | 388-A03-1K | | 388-020 | 388-A02-1T | | 388-034 |
| 20 | | | | | | *388-229 | |
| 30 | | | | | | | 388-035 |

*Yellow Zinc

**PKG QTY. 100** – *up to **50 mm** length (inclusive)* ***50*** – *over **50 mm** length*



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# STAINLESS STEEL A2

**METRIC "REGULAR" (COARSE) THREAD**
For Head Size Charts see pages R10 & R11.

B

**DIN 966**

This Standard has been replaced. Please see Catalog Page R21 for more information.




***Phillips***
**OVAL HEAD**

**DIN 965**




***Phillips***
**FLAT HEAD**

**DIN 7985**



***Phillips***
**PAN HEAD**

| Lgth. in mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
|---|---|---|---|---|---|---|
| | M2 Pitch 0.4 | M2.5 Pitch 0.45 | M3 Pitch 0.5 | M4 Pitch 0.7 | M5 Pitch 0.8 | M6 Pitch 1.0 |
| 6 | | 425-001 | | 425-006 | | |
| 8 | | | 425-G18-1X | | 425-010 | |
| 10 | | 425-002 | | 425-007 | | |
| 12 | | | 425-004 | | 425-011 | |
| 16 | | | 425-005 | 425-008 | | 425-014 |
| 20 | | | | 425-138 | 425-012 | |
| 25 | | | | 425-009 | 425-130 | 425-015 |
| 30 | | | | | 425-013 | |
| 3 | 425-064 | | | | | |
| 4 | 425-065 | 425-072 | 425-078 | | | |
| 5 | 425-G26-1T | 425-073 | 425-079 | | | |
| 6 | 425-067 | 425-016 | 425-080 | 425-021 | | |
| 8 | 425-068 | 425-074 | 425-018 | 425-084 | 425-025 | |
| 10 | 425-G24-1C | 425-017 | 425-G02-1T | 425-022 | 425-088 | 425-092 |
| 12 | 425-070 | 425-075 | 425-019 | 425-G23-1Y | 425-026 | 425-093 |
| 16 | 425-071 | 425-076 | 425-G09-1T | 425-023 | 425-089 | 425-029 |
| 20 | | 425-077 | 425-082 | 425-086 | 425-G22-1P | 425-094 |
| 25 | | | 425-083 | 425-024 | 425-090 | 425-030 |
| 30 | | | 425-G25-1N | 425-087 | 425-028 | 425-095 |
| 35 | | | | | 425-G28-1W | 425-096 |
| 40 | | | | | 425-091 | 425-097 |
| 3 | 425-101 | | | | | |
| 4 | 425-G07-1C | 425-035 | 425-109 | | | |
| 5 | 425-G10-1N | 425-106 | 425-041 | 425-115 | | |
| 6 | 425-G06-1X | 425-G05-1M | 425-042 | 425-G16-1W | 425-052 | |
| 8 | 425-033 | 425-G17-1M | 425-G08-1N | 425-G47-1K | 425-G20-1X | 425-125 |
| 10 | 425-034 | 425-038 | 425-G04-1W | 425-G11-1T | 425-054 | 425-058 |
| 12 | 425-103 | 425-G01-1N | 425-045 | 425-G03-1K | 425-055 | 425-G12-1K |
| 16 | 425-104 | 425-040 | 425-G30-1W | 425-051 | 425-056 | 425-G13-1N |
| 20 | 425-105 | 425-G14-1T | 425-110 | 425-G15-1K | 425-057 | 425-G21-1A |
| 25 | | 425-108 | 425-111 | 425-G31-1M | 425-121 | 425-126 |
| 30 | | | 425-112 | 425-118 | 425-122 | 425-G29-1M |
| 35 | | | 425-113 | | 425-123 | 425-128 |
| 40 | | | 425-114 | 425-G32-1X | 425-124 | 425-G19-1A |

# BRASS

**Unplated**



***Phillips***
**PAN HEAD**

**METRIC "REGULAR" (COARSE) THREAD**
**(Conforming to IFI 513, 1982)**

For IFI Head Size Chart see page R11.

| Lgth. in mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | |
|---|---|---|---|---|
| | M1.6 Pitch 0.35 | M2 Pitch 0.4 | M2.5 Pitch 0.45 | M3 Pitch 0.5 |
| 5 | ▲425-098 | 407-002 | | |
| 6 | | | 407-008 | |
| 8 | | | | 407-012 |
| 12 | | | | 407-013 |

▲425-098 A4 S.S.

**PKG QTY. 100 - ALL ITEMS ON THIS PAGE**




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PHILLIPS DRIVE

# NYLON

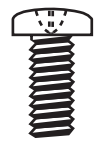
**(Polyamid 6/6)**

NATURAL COLOUR

**METRIC "REGULAR" (COARSE) THREAD**

**PKG QTY. 100**

**Available diameters & lengths (in millimetres) - listed by *SPAENAUR* numbers.**

| Style | Lgth. mm | M2 Pitch 0.4 | M2.5 Pitch 0.45 | M3 Pitch 0.5 | M3.5 Pitch 0.6 | M4 Pitch 0.7 | M5 Pitch 0.8 | M6 Pitch 1.0 | M8 Pitch 1.25 | M10 Pitch 1.5 |
|---|---|---|---|---|---|---|---|---|---|---|
|  90° ctsk. *Phillips* OVAL HEAD | 4 | | 450-001 | | | | | | | |
| | 5 | | | 450-007 | 450-013 | | | | | |
| | 6 | | 450-002 | | 450-014 | 450-019 | | | | |
| | 8 | | | | | | 450-023 | | | |
| | 10 | | 450-003 | | 450-015 | 450-020 | | 450-028 | | |
| | 12 | | | 450-009 | | | 450-024 | | | |
| | 16 | | 450-004 | 450-010 | 450-016 | 450-021 | | 450-029 | 450-033 | |
| | 20 | | 450-005 | 450-011 | | | 450-025 | | | 450-036 |
| | 25 | | 450-006 | 450-012 | 450-017 | 450-022 | | 450-030 | | |
| | 30 | | | | | | 450-026 | | 450-034 | |
| | 35 | | | | 450-018 | | | 450-031 | | 450-037 |
| | 40 | | | | | | 450-027 | | | |
| | 45 | | | | | | | 450-032 | | |
| | 50 | | | | | | | | 450-035 | |
|  90° ctsk. *Phillips* FLAT HEAD | 4 | | 450-038 | | | | | | | |
| | 5 | | | 450-044 | 450-050 | | | | | |
| | 6 | | 450-039 | | 450-051 | 450-056 | | | | |
| | 8 | | | 450-045 | | | 450-060 | | | |
| | 10 | | 450-040 | | 450-052 | 450-057 | | 450-065 | | |
| | 12 | | | 450-046 | | | 450-061 | | | |
| | 16 | | 450-041 | 450-047 | 450-053 | 450-058 | | 450-066 | 450-070 | |
| | 20 | | 450-042 | 450-048 | | | 450-062 | | | 450-073 |
| | 25 | | 450-043 | 450-049 | 450-054 | 450-059 | | 450-067 | | |
| | 30 | | | | | | 450-063 | | 450-071 | |
| | 35 | | | | 450-055 | | | 450-068 | | 450-074 |
| | 40 | | | | | | 450-064 | | | |
| | 45 | | | | | | | 450-069 | | |
| | 50 | | | | | | | | 450-072 | |
|  *Phillips* PAN HEAD | 4 | 450-075 | 450-081 | | | | | | | |
| | 5 | 450-076 | | 450-087 | 450-093 | | | | | |
| | 6 | 450-077 | 450-082 | | 450-094 | 450-098 | | | | |
| | 8 | | | 450-088 | | | 450-102 | | | |
| | 10 | 450-078 | 450-083 | | 450-095 | 450-099 | | 450-107 | | |
| | 12 | 450-079 | | 450-089 | | | 450-103 | | | |
| | 16 | 450-080 | 450-084 | 450-090 | 450-096 | 450-100 | | 450-108 | 450-112 | |
| | 20 | | 450-085 | 450-091 | | | 450-104 | | | 450-115 |
| | 25 | | 450-086 | 450-092 | 450-097 | 450-101 | | 450-109 | | |
| | 30 | | | | | | 450-105 | | 450-113 | |
| | 35 | | | | | | | 450-110 | | 450-116 |
| | 40 | | | | | | 450-106 | | | |
| | 45 | | | | | | | 450-111 | | |
| | 50 | | | | | | | | 450-114 | |


Page A34

**ASSORTMENT 805-431**
**ASSORTIMENT**

**Metric** Standard
**Metric Machine Screws**

NATURAL COLOUR
6/6 Nylon Coarse Thread
**24 SIZES - 188 PIECES**
Shipping Weight: **2.38 kg** (5-1/4 lbs.)

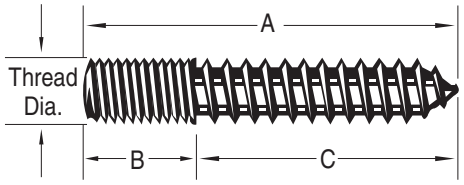


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B

# STEEL

Nut end coarse thread
Class 2A
American Standard




For use with pre-drilled holes.

Larger sizes that don't total the dimension may have sholder (between B & C)

# HANGER BOLTS

## (TABLE BOLTS)

**Fittings for the furniture industry**
**Raccords pour l'Industrie des meubles**

Some Hanger Bolts have an unthreaded centre shoulder.

## INCH

| *SPAENAUR No.* | U.N.C. THREAD Dia. | A O/A Lgth. "Inch" | (Approx. Dimensions) B "Inch" | C "Inch" | PKG QTY. |
|---|---|---|---|---|---|
| **034-011** | 8-32 | 1 | 3/8 | 5/8 | 100 |
| **034-010** | | 1-1/2 | 5/8 | 7/8 | 100 |
| **034-005** | 10-24 | 1-1/2 | 5/8 | 7/8 | 100 |
| **034-006** | | 1-3/4 | 3/4 | 1 | 100 |
| **034-007** | | 2 | 1 | 1 | 100 |
| **034-008** | | 2-1/2 | 1 | 1-1/2 | 100 |
| **034-009** | | 3 | 1-1/2 | 1-1/2 | 100 |
| **034-001** | 1/4"-20 | 1-1/2 | 3/4 | 3/4 | 100 |
| **034-002** | | 2 | 1 | 1 | 100 |
| **HB-2** | | 2-1/2 | 7/8 | 1-5/8 | 100 |
| **HB-3** | | 3 | 1-3/8 | 1-5/8 | 100 |
| **HB-5** | 5/16"-18 | 1-3/4 | 3/4 | 1 | 100 |
| **HB-6** | | 2 | 1 | 1 | 100 |
| **HB-7** | | 2-1/2 | 1-1/4 | 1-1/4 | 100 |
| **HB-8** | | 3 | 1-1/2 | 1-1/2 | 100 |
| **HB-9** | | 3-1/2 | 1-3/4 | 1-3/4 | 50 |
| **HB-10** | | 4 | 1-1/8 | 2 | 50 |
| **034-003** | | 5 | 2-1/4 | 2-3/4 | 50 |
| **034-004** | 3/8"-16 | 2 | 1 | 1 | 100 |
| **HB-11** | | 2-1/2 | 1-1/4 | 1-1/4 | 100 |
| **HB-12** | | 3 | 1 | 1-1/2 | 100 |
| **HB-13** | | 3-1/2 | 7/8 | 1-7/8 | 50 |
| **HB-14** | | 4 | 1 | 2 | 50 |
| **HB-15** | | 4-1/2 | 1-1/2 | 3 | 50 |

## 18-8 STAINLESS STEEL

| | | | | | |
|---|---|---|---|---|---|
| **034-800** | 1/4"-20 | 2 | 1 | 1 | 100 |
| **034-801** | | 2-1/2 | 1 | 1-1/2 | 100 |
| **034-802** | | 3 | 1-1/2 | 1-1/2 | 100 |
| **034-803** | | 3-1/2 | 1-1/2 | 2 | 50 |
| **034-804** | | 4 | 2 | 2 | 50 |
| **034-805** | 5/16"-18 | 2 | 1 | 1 | 100 |
| **034-806** | | 2-1/2 | 1 | 1-1/2 | 100 |
| **034-807** | | 3 | 1-1/2 | 1-1/2 | 50 |
| **034-808** | | 3-1/2 | 1-1/2 | 2 | 50 |
| **034-809** | | 4 | 2 | 2 | 50 |
| **034-810** | 3/8"-16 | 3 | 1-1/2 | 1-1/2 | 50 |
| **034-811** | | 3-1/2 | 1-1/2 | 2 | 25 |
| **034-812** | | 4 | 2 | 2 | 25 |

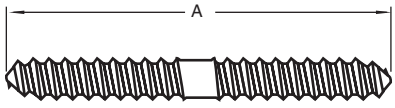
## METRIC

| *SPAENAUR No.* | THREAD Dia. | A O/A Lgth. mm | (Approx. Dimensions) B mm | C mm | PKG QTY. |
|---|---|---|---|---|---|
| **035-002** | M6 x 1.00 | 35 | 11 | 24 | 100 |
| **035-003** | | 40 | 15 | 25 | 100 |
| **035-004** | | 50 | 25 | 25 | 100 |
| **035-006** | M8 x 1.25 | 40 | 12 | 28 | 100 |
| **035-008** | | 60 | 25 | 35 | 100 |
| **035-009** | | 70 | 35 | 35 | 100 |
| **035-010** | | 80 | 30 | 50 | 100 |
| **035-P01-1C** | M10 x 1.50 | 50 | 20 | 30 | 100 |
| **035-012** | | 60 | 25 | 35 | 100 |
| **035-013** | | 70 | 20 | 50 | 100 |
| **035-P02-1N** | | 80 | 42 | 38 | 100 |

**Connector Nut on Page B62**

# STEEL

Plain Finish




# DOWEL SCREWS – for wood

Right-hand Thread (both ends)

For use with pre-drilled holes.

| *SPAENAUR No.* | Diameter | A O/A Lgth. | PKG QTY. |
|---|---|---|---|
| **034-100** | 3/16" | 1-1/2" | 100 |
| **034-101** | | 2" | 100 |
| **034-102** | | 2-1/2" | 100 |
| **034-103** | 1/4" | 2" | 100 |
| ***034-109** | | 2" | 100 |
| **034-104** | | 2-1/2" | 100 |
| **034-105** | 5/16" | 2-1/2" | 100 |
| **034-106** | | 3" | 100 |
| **034-107** | | 3-1/2" | 100 |
| **034-108** | | 4" | 50 |

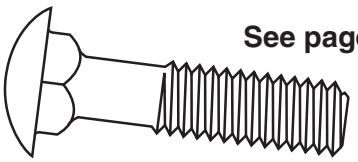
* Zinc Plated



# HEX HEAD LAG SCREW

**See page B257.**

# ROUND HEAD CARRIAGE BOLTS



**See pages B258 to B262.**



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NEW



## INSERTS

Look for this icon to find products that meet the ***European Technical Approval No. ETA-12/0481*** **Standard** for holding strength.



### ▶ ADVANTAGES WHEN USING RAMPA INSERTS

- Quicker insertion due to sharp edged continuous cutting thread
- Cylindrical shape - higher pull out resistance
- Mild Steel, Brass or Stainless Steel - strong materials - wood will break first



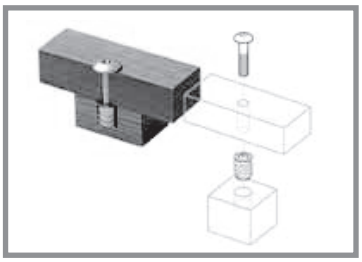
### ▶ WHY USE AN INSERT WITH A FLANGE?

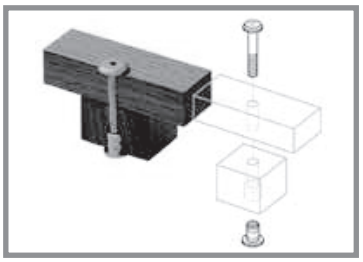
- Flange covers rough edges of the hole, providing cleaner smoother appearance
- Provides a stopping point for inserting



**For more INSERTS, see page C157**

## EXAMPLE APPLICATIONS
FOR SCREW-IN & KNOCK-IN INSERTS





### RAMPA Screw-in Insert Type SKD + KT

The RAMPA Screw-in Insert type SKD allows a hidden assembling of furniture elements together with RAMPA Mushroomhead Screws with hex drive Type KT. Due to the design of the insert, the components will be flush mounted and allow an extensive work load.

### RAMPA Knock-in Insert Type TS + KF

The Knock-in Insert type TS with its knurled shank is driven into the wood. The board is attached from above with a RAMPA Flathead Screw type KF.



RAMPA® is a registered trademark of
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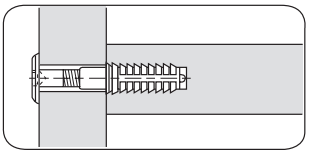
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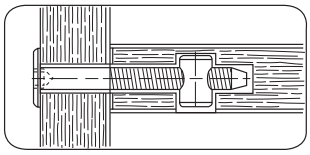
B

# JOINT CONNECTOR BOLT

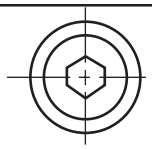
**STEEL - Bronze Plated**

## Decorative Head







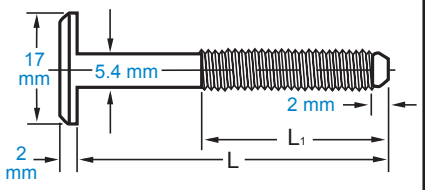


**Hex Drive**
**M4**

Low profile, high quality, decorative head bolt designed to connect components at right angles or parallel.

**Hanger Bolts on Page B60**

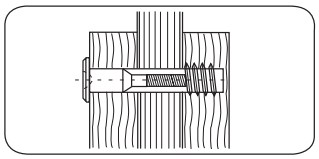
| *SPAENAUR No.* | Thread Size | L | L1 | PKG QTY. |
|---|---|---|---|---|
| **191-450** | 1/4"-20 | 1.969" **(50 mm)** | 1.181" **(30 mm)** | 50 |
| **191-451** | 1/4"-20 | 2.362" **(60 mm)** | 1.575" **(40 mm)** | 50 |
| **191-452** | 1/4"-20 | 2.756" **(70 mm)** | 1.575" **(40 mm)** | 50 |

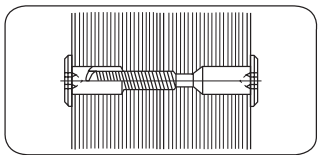


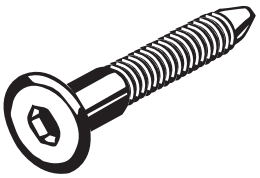

# JOINT CONNECTOR BOLT

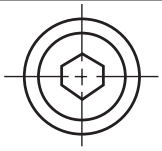
**STEEL - Bronze Plated**

## Decorative Head with Shoulder

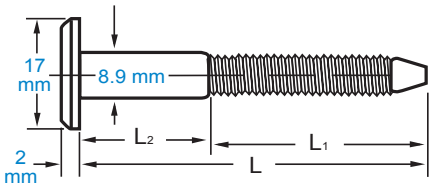








**Hex Drive**
**M5**




Low profile, high quality, decorative head bolt designed to connect components at right angles or parallel. Shoulder is the same diameter as the joint connector nut to allow through hole connection.

| *SPAENAUR No.* | Thread Size | L | L1 | L2 | PKG QTY. |
|---|---|---|---|---|---|
| ***191-456** | 1/4"-20 | 1.575" **(40 mm)** | Full Thread | .394" **(10 mm)** | 50 |
| **191-453** | 1/4"-20 | 1.969" **(50 mm)** | Full Thread | .709" **(18 mm)** | 50 |
| **191-454** | 1/4"-20 | 2.362" **(60 mm)** | 1.378" **(35 mm)** | .709" **(18 mm)** | 50 |
| **191-455** | 1/4"-20 | 2.756" **(70 mm)** | 1.378" **(35 mm)** | .709" **(18 mm)** | 50 |

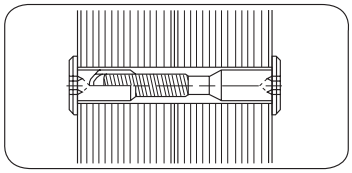
*Black Oxide

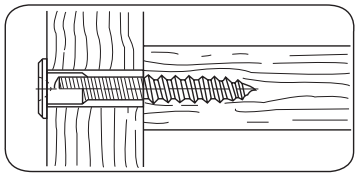
# JOINT CONNECTOR NUT

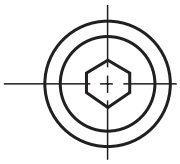


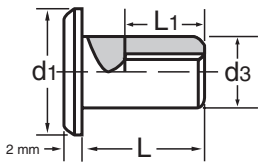
**STEEL - Bronze Plated**

## Decorative Nut










Low Profile, high quality, decorative, cold headed, steel cap. Matches finish and dimensions for use with Joint Connector Bolt.

| *SPAENAUR No.* | Thread Size | L | L1 | d1 | d3 | Hex Drive | PKG QTY. |
|---|---|---|---|---|---|---|---|
| **191-400** | 1/4"-20 | .472" **(12 mm)** | .315" **(8 mm)** | .669" **(17 mm)** | .350" **(9 mm)** | 5 mm | 100 |
| **191-401** | 1/4"-20 | .669" **(17 mm)** | .512" **(13 mm)** | .669" **(17 mm)** | .350" **(9 mm)** | 5 mm | 100 |

**Also see T-Nuts page C58-C61.**

Many other styles, sizes and lengths available special to order. We welcome your inquiry.





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**No More Shimming!**

**The adjustable screw and its ease of use.**

TOP STAR FASTENING SYSTEM

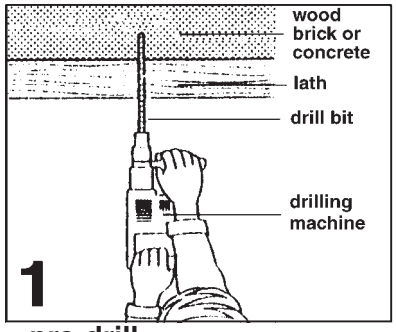
Easy Installation of:

- **WINDOW AND DOOR FRAMES**
- **INSULATION AND PANELLING**
- **BUILT IN WALL UNITS/CABINETS**

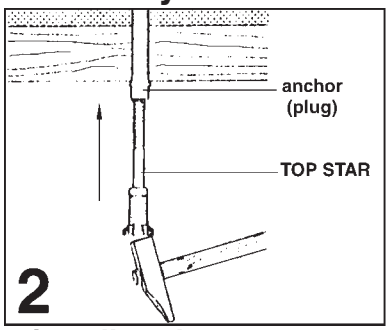
B

This product is perfectly suited to meet professional as well as do-it-yourself needs.
Fine adjustments are possible since TOP STAR may be shifted in both directions.
TOP STAR reduces pre-work to a minimum and the job can be done easily by one person.

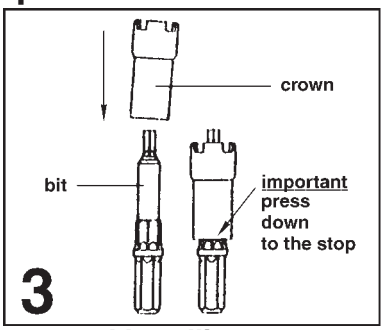
## TOP STAR Easy Installation Tips:



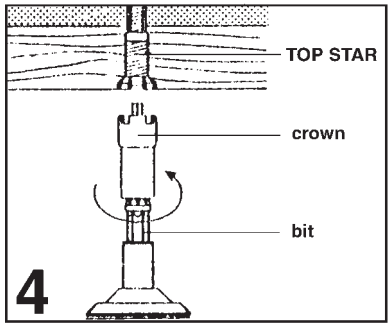

**pre-drill**



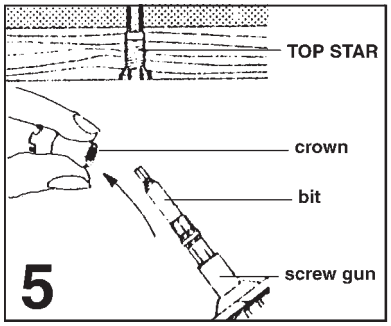

**install anchor**



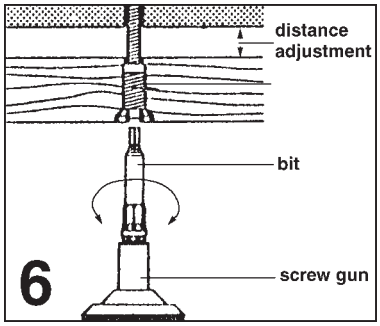

**tool handling**




**install TOP STAR**




**remove crown**




**adjust for perfect fit**

## TOP STAR ADJUSTABLE DISTANCE SCREW



**STEEL**
**Zinc-Plated**
and lubricated,
with T-Star recess drive.

| *SPAENAUR No.* | Dimensions U.S. Standard | Metric | PKG QTY. |
|---|---|---|---|
| **038-200** | 1/4 x 3/8 x 2-1/2" | **6.0 x 60** | 100 |
| **038-203** | 1/4 x 3/8 x 4-3/4" | **6.0 x 120** | 50 |

*Each PKG QTY. contains complete Fastening System - Adjusting Screws with insertion tool.*

## Replacement Parts for Insertion Tool

**876-1567**





**876-1565**
Crown only



**876-1566**
Bit only

**PKG QTY. 1**



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# Wood Screws - Slot Drive

## Vis à bois – tête fendue

Inch

Pouce



*Flat and Oval head have 90° countersunk.*

| Inch Sizes PKG QTY. 100 | | STEEL | | | BRASS | | | Head/Body & Slot Dimensions to ASME B18.6.1 |
|---|---|---|---|---|---|---|---|---|
| | |  |  |  |  |  |  | |
| **DIA.** | **L.** | **FLAT** ZINC PLATED | **ROUND** ZINC PLATED | **OVAL** ZINC PLATED | **FLAT** PLAIN FINISH | **ROUND** PLAIN FINISH | **OVAL** NICKEL PLATED | |
| **1** | 1/2 | | | | | **WS-668** | | |
| | | | | | | | | |
| **2** | 3/8 | | | | **576-011** | **576-E05-1A** | | |
| | 1/2 | **577-221** | **WS-189** | | **WS-635** | **576-E07-1Y** | | |
| | 5/8 | | | | **576-012** | | | |
| | 3/4 | | | | **576-009** | | | |
| **3** | 3/8 | | **WS-199** | | **576-E01-1K** | | | |
| | 1/2 | | **WS-31** | **B-346** | **576-013** | **576-E17-1A** | | |
| | 5/8 | | | | **576-014** | | | |
| | 3/4 | | | | **576-015** | | | |
| | 1 | | | | **WS-671** | | | |
| **4** | 3/8 | **577-223** | | | | **576-E15-1M** | **WS-641** | |
| | 1/2 | **WS-22** | | | **WS-525** | **WS-531** | | |
| | 5/8 | **WS-23** | | | | **WS-670** | **576-064** Plain Finish | |
| | 3/4 | **WS-24** | | | **WS-636** | **576-E06-1P** | | |
| | 1 | **WS-25** | | | **576-008** | **WS-664** | | |
| | 1-1/4 | | | | | **576-058** | | |
| **5** | 3/8 | | | | **576-016** | | | |
| | 1/2 | | | | **576-017** | **576-E13-1K** | | |
| | 5/8 | | | **WS-122** | **576-018** | | | |
| | 3/4 | **WS-188** | | | **576-019** | | | |
| | 7/8 | | | | **576-020** | | | |
| | 1 | | | **WS-114** | **576-021** | | | |
| | 1-1/4 | | | | **576-022** | | | |
| **6** | 1/2 | **WS-26** | **WS-101** | | **WS-660** | **576-E11-1N** | **WS-503** | |
| | 5/8 | **WS-27** | **WS-78** | | **576-E18-1P** | **576-005** | | |
| | 3/4 | **WS-28** | **577-D01-1A** | | **576-E16-1X** | **576-E08-1C** | **981-S** | |
| | 7/8 | | | | **576-024** | **WS-653** | | |
| | 1 | | **WS-175** | | **576-E14-1W** | **WS-654** | **576-E02-1W** | |
| | 1-1/4 | **WS-112** | **577-217** | | **576-E19-1Y** | **WS-665** | **984-S** | |
| | 1-1/2 | **WS-5** | **WS-9** | | **WS-656** | **WS-666** | | |
| | 1-3/4 | **WS-82** | | | | | | |
| | 2 | | **WS-99** | | **576-E12-1T** | | | |
| **7** | 3/4 | | | | | **WS-506** | | |
| | 1 | | | | | **WS-507** | | |
| **8** | 1/2 | **577-D04-1C** | **WS-111** | | **WS-643** | | | |
| | 5/8 | | | | **576-025** | | | |
| | 3/4 | **942** | **WS-177** | **577-226** | **WS-500** | **WS-639** | **987-S** | |
| | 7/8 | **943** | | | **WS-508** | | | |
| | 1 | **944** | **WS-109** | | **WS-501** | **WS-659** | | |
| | 1-1/4 | **577-D03-1Y** | **577-D02-1P** | **WS-107** | **WS-509** | | | |
| | 1-1/2 | **WS-29** | **WS-33** | | **WS-624** | **WS-532** | **991-S** | |
| | 1-3/4 | **WS-137** | **577-218** | | **WS-526** | **WS-674** | | |
| | 2 | **577-227** | **577-219** | | **576-026** | **576-054** | | |
| | 2-1/2 | **WS-3** | | | **576-027** | **576-001** | | |
| | 3-1/2 | **577-228** | | | | | | |

Continued on the next page...



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**Made to ASME B18.6.1**

*Flat and Oval head have 90° countersunk.*

| Inch Sizes Continued from Previous Page | | STEEL | | | BRASS | | | Head/Body & Slot Dimensions to ASME B18.6.1 |
|---|---|---|---|---|---|---|---|---|
| | |  |  |  |  |  |  | |
| **DIA.** | **L.** | **FLAT** ZINC PLATED | **ROUND** ZINC PLATED | **OVAL** ZINC PLATED | **FLAT** PLAIN FINISH | **ROUND** PLAIN FINISH | **OVAL** NICKEL PLATED | |
| **9** | 3/4 | **WS-88** | | | | | | |
| | 7/8 | | | | **576-030** | | | |
| | 1 | **WS-113** | | **WS-7** | **576-031** | | | |
| | 1-1/4 | **WS-89** | | | **576-032** | **WS-675** | | |
| | 1-1/2 | **WS-90** | | | **576-033** | | | |
| | 1-3/4 | | | | **576-034** | | | |
| | 2 | **577-222** | | | **WS-527** | | | |
| **10** | 3/4 | **947** | **WS-186** | **577-225** | **576-035** | **576-004** | | |
| | 7/8 | | | | **576-036** | | | |
| | 1 | **948** | **WS-108** | | **WS-629** | **575-055** | | |
| | 1-1/4 | **949** | **WS-10** | | **576-E03-1M** | | **994-S** | |
| | 1-1/2 | **950** | **WS-174** | | **WS-534** | | | |
| | 1-3/4 | **951** | | | **WS-535** | | | |
| | 2 | **952** | **WS-187** | | **576-038** | | | |
| | 2-1/4 | **WS-118** | | **WS-149** | | | | |
| | 2-1/2 | **WS-119** | **WS-105** | **WS-148** | **576-E09-1N** | | | |
| | 2-3/4 | **WS-21** | | | | | | |
| | 3 | **WS-115** | | | **576-040** | | | |
| | 3-1/2 | **WS-138** | | | **576-E04-1X** | | | |
| | 4 | | | | **576-042** | | | |
| **12** | 5/8 | **WS-15** | | | **WS-513** | | | |
| | 3/4 | | | | **WS-513A** | | | |
| | 1 | **953-S** | **WS-147** | | **576-044** | **576-061** | | |
| | 1-1/4 | **954** | | | **576-E10-1C** | | | |
| | 1-1/2 | **955** | | | | **WS-640** | **576-065** (Plain Finish) | |
| | 1-3/4 | **956** | | | **576-047** | | | |
| | 2 | **957** | **577-220** | | **WS-642** | **576-062** | | |
| | 2-1/4 | | | | | **WS-649** | | |
| | 2-1/2 | **958** | **WS-183** | | **WS-514** | | | |
| | 3 | **WS-16** | **WS-182** | | **WS-529** | | | |
| | 3-1/2 | | | | **576-048** | | | |
| | 4 | | | | **576-049** | | | |
| **14** | 3/4 | | | | **576-050** | | | |
| | 1 | | | | **576-051** | | | |
| | 1-1/4 | **960** | **WS-97** | | **WS-554** | **WS-651** | | |
| | 1-1/2 | **961** | **WS-11** | **WS-8** | **576-052** | | | |
| | 1-3/4 | **WS-92** | | | **WS-633** | | | |
| | 2 | **WS-18** | **WS-6** | | **576-006** | | | |
| | 2-1/2 | **WS-32TF** (TF = Twin Fast Twin Thread) | | | **576-007** | | | |
| | 3 | | | | **576-002** | | | |
| | 3-1/2 | | | | **576-003** | **576-060** | | |
| | 4 | | | | **576-053** | | | |
| **16** | 2-1/4 | | **1307** | | | | | |
| | | | | | | | | |

**PKG QTY. 100**





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SLOT DRIVE

**PKG QTY. 100 ALL ITEMS ON THIS PAGE**

B

## ALUMINUM

Inch Sizes
SLOT DRIVE

| DIAMETER | L. | FLAT |
|---|---|---|
| 4 | 1/2 | 575-017 |
| 6 | 1 | 575-015 |
| 8 | 1-1/4 | 575-025 |
| 10 | 3/4 | 575-027 |
| | 1 | 575-029 |

## STAINLESS STEEL

Head/Body & Slot Dimensions to ASME B18.6.1

Inch Sizes
SLOT DRIVE
TYPE 18-8

| DIAMETER | L. | FLAT | ROUND |
|---|---|---|---|
| 4 | 1/2 | 578-A01-1N | 578-011 |
| 6 | 1/2 | | 578-012 |
| | 3/4 | 578-006 | 578-013 |
| 8 | 1/2 | 578-030 | 578-015 |
| | 3/4 | 578-016 | |
| | 1 | 578-A03-1K | 578-008 |
| | 1-1/4 | 578-002 | |
| | 1-1/2 | 578-A02-1T | |
| | 2 | 578-000 | |
| 10 | 3/4 | 578-019 | 578-020 |
| | 1 | | 578-021 |
| | 1-1/4 | 578-005 | |
| | 1-1/2 | | 578-022 |
| | 1-3/4 | | 578-023 |
| | 2 | | 578-024 |
| | 2-1/2 | | 578-025 |
| 12 | 1 | 578-026 | |
| | 1-1/4 | | 578-027 |
| | 1-1/2 | 578-028 | 578-029 |
| | 2 | 578-003 | 578-007 |

**ASSORTMENT**
**ASSORTIMENT** **805-661-A**

### STEEL
# Wood Screws
### Zinc Plated

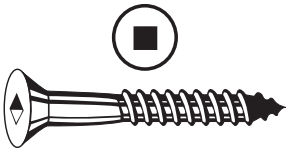
**SQUARE SOCKET DRIVE**

**24 SIZES**
**1150 PIECES**

Furnished in Large Size grey enamel drawer with scooped bins for easy access.

Drawers will fit into Slide Racks shown on page A3

Shipping Weight:
**7.71 kg** (17 lbs)






| Head Type | Spaenaur No. | Dia. X Lgth. | Qty. | Page |
|---|---|---|---|---|
| Flat | WS-56 | 6 x 3/4" | 50 | B68 |
| | 593-K02-1Y | 6 x 1" | | |
| | 593-005 | 6 x 1-1/2" | | |
| | WS-94 | 6 x 2" | | |
| | WS-63 | 8 x 3/4" | | |
| | WS-20 | 8 x 1" | | |
| | WS-65 | 8 x 1-1/4" | | |
| | 593-K05-1T | 8 x 1-1/2" | | |
| | WS-80 | 8 x 2" | | |
| | WS-81 | 8 x 2-1/2" | | |
| | WS-40 | 10 x 1" | | B69 |
| | WS-41 | 10 x 1-1/4" | | |
| | WS-42 | 10 x 1-1/2" | | |
| | 593-K23-1X | 10 x 2" | | |
| | WS-136 | 10 x 2-1/2" | | |
| | WS-96 | 10 x 3" | 25 | |
| | WS-139 | 10 x 3-1/2" | | |
| | WS-46 | 12 x 1-1/2" | 50 | |
| | WS-48 | 12 x 2" | | |
| | WS-50 | 12 x 2-1/2" | | |
| Round | 593-K01-1P | 6 x 3/8" | | B68 |
| | WS-126 | 8 x 1-1/4" | | |
| | WS-157 | 8 x 2" | | |
| | WS-128 | 10 x 3/4" | | |






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From RAMPA TEC. INC. **Pg. C157**

Pour la version française, voir la page suivante

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paulin®

De H.PAULIN & CO. **Pg. B303**

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De RAMPA TEC. INC. **Pg. C157**

For the English version, see previous page

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**PKG QTY. 100**
**ALL ITEMS ON THIS PAGE**



| Inch Sizes | | STEEL | | | BRASS | Head & Drive Dimensions to ASME B18.6.1 |
|---|---|---|---|---|---|---|
| | |  |  |  |  |  |
| **DIA.** | **L.** | **FLAT** ZINC PLATED | **ROUND** ZINC PLATED | **OVAL** NICKEL PLATED | **FLAT** PLAIN FINISH | **ROUND** PLAIN FINISH |
| **3** | 1/2 | | | **B-388** | | |
| | | | | | | |
| **4** | 1/4 | | | | **584-A05-1M** | |
| | 3/8 | | | | **584-001** | |
| | 1/2 | **B-349** | | | **584-002** | **584-015** |
| | 3/4 | | | | **584-003** | |
| | 1 | **B-391** | | | | |
| **6** | 1/2 | **B-351** | | | **584-A03-1K** | **584-017** |
| | 5/8 | | | | **WS-631P** | **584-A02-1T** |
| | 3/4 | **585-004** | **585-014** | **585-010** (Zinc Plated) | **584-004** | **584-019** |
| | 1 | **B-353** | **585-015** | | | |
| | 1-1/4 | | | | **584-033** | |
| **8** | 1/2 | **B-354** | | | **584-005** | **584-020** |
| | 3/4 | **585-P01-1M** | **585-003** (Brass Plated) | | **584-A01-1N** | **584-A06-1X** |
| | 1 | **B-356** | **585-016** | **585-011** | **WS-630P** | |
| | 1-1/4 | **WS-191** | **585-P03-1A** | | **WS-517P** | **584-022** |
| | 1-1/2 | **585-P02-1X** | **WS-196** | | **WS-518P** | **584-023** |
| | 1-3/4 | **WS-192** | | | **584-A04-1W** | |
| | 2 | **WS-195** | **WS-194** | | | |
| | 3 | **585-P06-1C** | | | | |
| **10** | 3/4 | | | | **584-031** | |
| | 1 | **585-P05-1Y** | | | **584-006** | **584-A08-1P** |
| | 1 | | **585-P04-1P** | | | |
| | 1-1/4 | **WS-72** | | **585-013** (Zinc Plated) | **584-A07-1A** | |
| | 1-1/2 | | **585-019** | | **584-008** | |
| | 1-3/4 | **WS-75** | | | **584-009** | |
| | 2 | **WS-76** | | | **584-010** | |
| | 3 | **585-020** | | | | |
| **12** | 1 | | | | **584-032** | |
| | 1-1/2 | **WS-35** | | | **584-011** | **584-029** |
| | 1-3/4 | | | | **584-012** | |
| | 2 | **585-002** | | | **584-013** | **584-030** |
| | 3 | **585-P07-1N** | | | | |
| | 3-1/2 | **585-006** | | | | |
| **14** | 1-1/2 | **585-007** | | | | |
| | 1-3/4 | **585-008** | | | | |
| | 2 | **585-009** | | | | |

For Deck, Fence and Construction Screws see Pages B303-B304





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B

PKG QTY. 100



| Inch Sizes | | STEEL | | | BRASS | | |
|---|---|---|---|---|---|---|---|
| | |  |  |  |  |  |  |
| ASME B18.6.1 | | ZINC PLATED | | | PLAIN FINISH | | |
| DIA. | L. | FLAT | ▲ROUND | OVAL | FLAT | ◘ROUND | OVAL |
| 4 | 3/8 | WS-51 | | | | | |
| | 1/2 | WS-52 | WS-200 | | WS-555 | WS-569 | |
| | 5/8 | 593-001 | | | | | |
| | 3/4 | WS-53 | WS-178 | | WS-556 | | |
| | 1 | WS-201 | | | | | |
| 5 | 1/2 | WS-54 | | | 592-A05-1K | | |
| | 3/4 | WS-55 | WS-134 | | WS-558 | | |
| | 1 | WS-202 | | | | | |
| 6 | 3/8 | | 593-K01-1P | | | | |
| | 1/2 | | WS-120 | | 592-A04-1T | 592-A01-1Y | |
| | 5/8 | WS-180 | WS-2 | | WS-559 | | |
| | 3/4 | WS-56 | WS-132 | | WS-538 | 592-A03-1N | |
| | 1 | 593-K02-1Y | WS-133 | WS-207 | 592-A06-1W | 592-003 | |
| | 1-1/4 | WS-58 | 593-K24-1A | | WS-560 | WS-577 | |
| | 1-1/2 | 593-005 | WS-123 | | WS-646 | | |
| | 1-3/4 | 593-006 | | | | | |
| | 2 | WS-94 | | | | | |
| 7 | 1/2 | | 593-K19-1W | | | | |
| | 3/4 | WS-59 | | | | | |
| | 1 | WS-60 | WS-143 | | | | |
| | 1-1/4 | | WS-154 | | | | |
| | 1-1/2 | WS-203 | | | | | |
| 8 | 5/8 | WS-62 | WS-124 | | | | |
| | 3/4 | WS-63 | 593-K20-1K | | WS-543 | WS-583 | |
| | 3/4 | 593-002 (No. 6 Head) | | | | | |
| | 7/8 | WS-64 | 593-K07-1W | | | | |
| | 1 | WS-20 | WS-150 | | WS-545 | 592-A02-1C | WS-616 |
| | 1-1/4 | WS-65 | WS-126 | | WS-546 | WS-586 | WS-617 |
| | 1-1/2 | 593-K05-1T | WS-156 | 593-K09-1X | WS-547 | 592-A07-1M | |
| | 1-3/4 | WS-179 | WS-127 | | WS-652 | | |
| | 2 | WS-80 | WS-157 | | WS-627 | | |
| | 2-1/2 | WS-81 | WS-158 | | | 592-001 | |
| 9 | 3/4 | 593-K12-1A | | | | | |
| | 1-1/4 | 593-K11-1X | | | | | |
| 10 | 3/4 | WS-69 | WS-128 | | WS-564 | WS-590 | |
| | 7/8 | WS-146 | WS-144 | | | | |
| | 1 | WS-40 | WS-129 | | WS-548 | WS-591 | |
| | 1-1/4 | WS-41 | WS-159 | | WS-549 | | |
| | 1-1/2 | WS-42 | WS-130 | | WS-550 | WS-593 | WS-621 |
| | 1-3/4 | WS-43 | WS-160 | | WS-565 | | |

▲Slight Flattening of Head Crown may occur due to formation of square socket recess.

Continues on Next Page




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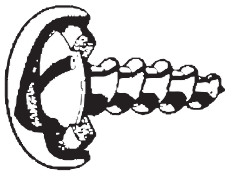
B

PKG QTY. 100



| Inch Sizes<br>Continued from Previous Page | | STEEL | | | BRASS |
|---|---|---|---|---|---|
| | |  |  |  |  Head Dimensions to ASME B18.6.1 |
| | | ZINC PLATED | | | PLAIN FINISH |
| **DIA.** | **L.** | **FLAT** | **▲ROUND** | **OVAL** | **FLAT** |
| **10** | 2 | **593-K23-1X** | **WS-131** | | **WS-566** |
| | 2-1/4 | **WS-95** | **WS-161** | **WS-103** | |
| | 2-1/2 | **WS-136** | **WS-145** | **593-K08-1M** | |
| | 3 | **WS-96** | **593-K03-1C** | **WS-173** | |
| | 3-1/2 | **WS-139** | | | |
| **12** | 1 | **WS-141** | | | |
| | 1-1/4 | **WS-45** | **WS-163** | | |
| | 1-1/2 | **WS-46** | **593-K13-1P** | | |
| | 1-3/4 | **WS-47** | **593-K10-1M** | | **WS-567** |
| | 2 | **WS-48** | **WS-166** | | **WS-553** |
| | 2-1/4 | **WS-49** | **WS-167** | | |
| | 2-1/2 | **WS-50** | **WS-168** | | **592-004** |
| | 3-1/2 | **WS-102** | | | |
| **14** | 1-1/4 | **593-004** | | | |
| | 1-1/2 | | **593-K25-1P** | | |
| | 1-3/4 | **WS-91** | **593-K21-1W** | | |
| | 2 | **WS-70** | **WS-172** | | |
| | 2-1/2 | **593-K06-1K** | | | |
| | 3-1/2 | **593-K22-1M** | | | |
| | 4 | **593-003** | | | |

▲Slight Flattening of Head Crown may occur due to formation of square socket recess.



See page J42 for...

## Snapcaps

**Decorative Plastic Caps**

***Made in colours, to match leather, vinyl, wood, and metals.***

For Countersunk and Finishing Washers see Page D68



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B

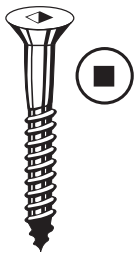
**ASSORTMENT / ASSORTIMENT 805-661-A**

## STEEL Wood Screws
### Zinc Plated

**SQUARE SOCKET DRIVE**

**24 SIZES 1150 PIECES**





Furnished in Large Size grey enamel drawer with scooped bins for easy access. Drawers will fit into Slide Racks shown on page A3

Shipping Weight: **7.71 kg** (17 lbs)

| Head Type | Spaenaur No. | Dia. X Lgth. | Qty. | Page |
|---|---|---|---|---|
| Flat | WS-56 | 6 x 3/4" | 50 | B68 |
| | 593-K02-1Y | 6 x 1" | | |
| | 593-005 | 6 x 1-1/2" | | |
| | WS-94 | 6 x 2" | | |
| | WS-63 | 8 x 3/4" | | |
| | WS-20 | 8 x 1" | | |
| | WS-65 | 8 x 1-1/4" | | |
| | 593-K05-1T | 8 x 1-1/2" | | |
| | WS-80 | 8 x 2" | | |
| | WS-81 | 8 x 2-1/2" | | |
| | WS-40 | 10 x 1" | | B69 |
| | WS-41 | 10 x 1-1/4" | | |
| | WS-42 | 10 x 1-1/2" | | |
| | 593-K23-1X | 10 x 2" | | |
| | WS-136 | 10 x 2-1/2" | | |
| | WS-96 | 10 x 3" | 25 | |
| | WS-139 | 10 x 3-1/2" | | |
| | WS-46 | 12 x 1-1/2" | 50 | |
| | WS-48 | 12 x 2" | | |
| | WS-50 | 12 x 2-1/2" | | |
| Round | 593-K01-1P | 6 x 3/8" | 50 | B68 |
| | WS-126 | 8 x 1-1/4" | | |
| | WS-157 | 8 x 2" | | |
| | WS-128 | 10 x 3/4" | | |

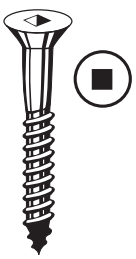
**ASSORTMENT / ASSORTIMENT 805-541A**

## BRASS Wood Screws

**SQUARE SOCKET DRIVE**

**24 SIZES 1125 PIECES**





Furnished in Regular Size grey enamel drawer with scooped bins for easy access. Drawers will fit into Slide Racks shown on page A2

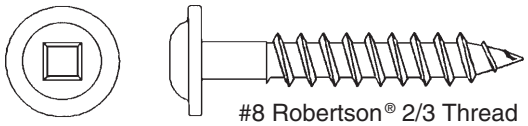
Shipping Weight: **5.18 kg** (11.42 lbs)

| Head Type | Spaenaur No. | Thread Diameter | Screw Length | Qty. | Page |
|---|---|---|---|---|---|
| Flat | WS-555 | #4 | 1/2" | 50 | B68 |
| | WS-558 | #5 | 3/4" | | |
| | WS-538 | #6 | | | |
| | 592-A06-1W | | 1" | | |
| | WS-646 | | 1-1/2" | | |
| | WS-543 | #8 | 3/4" | | |
| | WS-546 | | 1-1/4" | | |
| | WS-547 | | 1-1/2" | | |
| | WS-652 | | 1-3/4" | | |
| | WS-627 | | 2" | 40 | |
| | WS-549 | #10 | 1-1/4" | 50 | B69 |
| | WS-550 | | 1-1/2" | | |
| | WS-567 | #12 | 1-3/4" | 30 | |
| | WS-553 | | 2" | 35 | |
| | 701-529 | M6 | 40mm | 40 | |
| Round | 592-A03-1N | #6 | 3/4" | 50 | B68 |
| | WS-577 | | 1-1/4" | | |
| | WS-583 | #8 | 3/4" | | |
| | WS-586 | | 1-1/4" | | |
| | 592-001 | | 2-1/2" | | |
| | WS-590 | #10 | 3/4" | | |
| Oval | WS-616 | #8 | 1" | | |
| | WS-617 | | 1-1/4" | | |
| | WS-621 | #10 | 1-1/2" | 30 | B69 |




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## STEEL Round Washer Head Wood Screw Robertson® Drive



#8 Robertson® 2/3 Thread
Minor Dia. .103"/.108"

| *SPAENAUR No.* | Dia. x Length | Finish | PKG QTY. |
|---|---|---|---|
| **593-K16-1N** | 8 x 1-1/8" | Zinc | 100 |
| **593-K04-1N** | 8 x 1-3/4" | Lubricized | 100 |
| **593-K15-1C** | 8 x 1-3/4" | Zinc | 100 |
| **593-034** | 8 x 3" | Zinc | 50 |

**Note:**

**Robertson®** is a square recess drive - also known as Scrulox®
**Lubricize** is a dry wax finish over plain heat treated parts.

# *Particleboard/Wood Screws*

## HARDENED STEEL - Yellow Zinc Plated and Wax Coated

### *FLAT HEAD* *(90° countersunk)* *Square Socket Drive*



| *SPAENAUR No.* | Metric Size (mm) | Approx. Inch Equivalent | Qty. per Box |
|---|---|---|---|
| **701-018** | 4.0 x 30 | 8 x 1-1/4" | 100 |

| Use Square Socket Bit | With Metric Diameter | With Inch Diameter |
|---|---|---|
| #1 | M3 - M3.5 | #4 - #6 |
| #2 | M4 - M5 | #8 - #10 |
| #3 | M6 | #12- #14 |

For Power Bits and Hand Bits see Tool Section 'P' for more information.





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B

# *Particleboard/Wood Screws*

## HARDENED STEEL - Yellow Zinc Plated and Wax Coated

### *FLAT HEAD* (90° countersunk) *Torx Drive*

Torx® drive provides a superior positive drive eliminating drive breakout found in other types of drives. Its design requires less force to keep the tool tip engaged.



Sharp, knife-edge threads and sharp point bite instantly. Rough drilling is not necessary.

Secondary shoulder provides additional strength and eliminates the single stress point thus minimizing head "pop-off".

Case hardened material, Zinc di-chromate finish for higher corrosion resistance, and a wax coating for lubrication to enhance performance during insertion.

| *SPAENAUR No.* | Metric Size (mm) | Approx. Inch Equivalent | PKG QTY. |
|---|---|---|---|
| **701-065** | 3.0 x 16 | 4 x 5/8" | 100 |
| **701-066** | 3.0 x 20 | 4 x 3/4" | 100 |
| **701-067** | 3.0 x 25 | 4 x 1" | 100 |
| **701-235** | 3.0 x 30 | 4 x 1-1/4" | 100 |
| **701-068** | 3.5 x 12 | 6 x 1/2" | 100 |
| **701-069** | 3.5 x 16 | 6 x 5/8" | 100 |
| **701-070** | 3.5 x 20 | 6 x 3/4" | 100 |
| **701-072** | 3.5 x 30 | 6 x 1-1/4" | 100 |
| **701-073** | 3.5 x 40 | 6 x 1-1/2" | 100 |
| **701-055** | 3.5 x 45 | 6 x 1-3/4" | 100 |
| **701-074** | 4.0 x 16 | 8 x 5/8" | 100 |
| **701-075** | 4.0 x 20 | 8 x 3/4" | 100 |
| **701-076** | 4.0 x 25 | 8 x 1" | 100 |
| **701-077** | 4.0 x 30 | 8 x 1-1/4" | 100 |
| **701-078** | 4.0 x 40 | 8 x 1-1/2" | 100 |
| **701-079** | 4.0 x 45 | 8 x 1-3/4" | 100 |
| **701-057** | 4.0 x 50 | 8 x 2" | 100 |
| **701-236** | 4.0 x 60 | 8 x 2-1/2" | 100 |
| **701-058** | 4.0 x 70 | 8 x 2-3/4" | 50 |
| **701-080** | 4.5 x 20 | 9 x 3/4" | 100 |
| **701-081** | 4.5 x 25 | 9 x 1" | 100 |
| **701-052** | 4.5 x 30 | 9 x 1-1/4" | 100 |
| **701-060** | 4.5 x 40 | 9 x 1-1/2" | 100 |
| **701-061** | 4.5 x 45 | 9 x 1-3/4" | 100 |
| **701-062** | 4.5 x 50 | 9 x 2" | 100 |
| **701-053** | 4.5 x 60 | 9 x 2-1/2" | 100 |
| **701-059** | 4.5 x 70 | 9 x 2-3/4" | 50 |
| **701-063** | 4.5 x 80 | 9 x 3-1/8" | 50 |

| *SPAENAUR No.* | Metric Size (mm) | Approx. Inch Equivalent | PKG QTY. |
|---|---|---|---|
| **701-082** | 5.0 x 20 | 10 x 3/4" | 100 |
| **701-083** | 5.0 x 25 | 10 x 1" | 100 |
| **701-085** | 5.0 x 40 | 10 x 1-1/2" | 100 |
| **701-086** | 5.0 x 45 | 10 x 1-3/4" | 100 |
| **701-087** | 5.0 x 50 | 10 x 2" | 100 |
| **701-088** | 5.0 x 60 | 10 x 2-1/2" | 100 |
| **701-089** | 5.0 x 70 | 10 x 2-3/4" | 50 |
| **701-051** | 5.0 x 80 | 10 x 3-1/8" | 50 |
| **701-054** | 5.0 x 90 | 10 x 3-1/2" | 50 |
| **701-090** | 5.0 x 100 | 10 x 4" | 50 |
| **701-091** | 6.0 x 50 | 12/14 x 2" | 100 |
| **701-092** | 6.0 x 60 | 12/14 x 2-1/2" | 100 |
| **701-093** | 6.0 x 70 | 12/14 x 2-3/4" | 50 |
| **701-094** | 6.0 x 80 | 12/14 x 3-1/8" | 50 |
| **701-095** | 6.0 x 90 | 12/14 x 3-1/2" | 50 |
| **701-096** | 6.0 x 100 | 12/14 x 4" | 50 |

**Extra Long Lengths.**



| | | | |
|---|---|---|---|
| **701-097** | 6.0 x 120 | 12/14 x 4-3/4" | 50 |
| **701-098** | 6.0 x 140 | 12/14 x 5-5/8" | 50 |
| **701-A01-1T** | 6.0 x 160 | 12/14 x 6-3/8" | 25 |
| **701-228** | 6.0 x 180 | 12/14 x 7-1/4" | 25 |
| **701-229** | 6.0 x 200 | 12/14 x 8" | 25 |
| **701-234** | 6.0 x 300 | 12/14 x 12" | 25 |

For Power Bits and Hand Bits see Tool Section 'P' for more information.





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# RSS Lagscrew

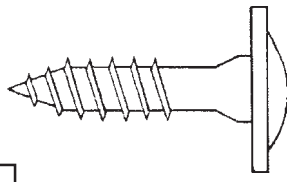
## Torx Drive

## Low Carbon Steel - Case Hardened

Yellow Zinc Plated

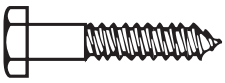
**T-Star Recess**

| *SPAENAUR No.* | Dimensions | | PKG QTY. |
|---|---|---|---|
| | Metric | U.S. Standard | |
| **038-250** | 7.93 x 60 mm | 5/16 x 2-1/2" | 50 |
| **038-251** | 7.93 x 80 mm | 5/16 x 3-1/8" | 50 |
| **038-252** | 7.93 x 100 mm | 5/16 x 4" | 50 |
| **038-253** | 7.93 x 130 mm | 5/16 x 5-1/8" | 50 |
| **038-254** | 7.93 x 150 mm | 5/16 x 6" | 50 |
| **038-255** | 9.52 x 180 mm | 3/8 x 7-1/4" | 10 |
| **038-256** | 9.52 x 200 mm | 3/8 x 8" | 10 |

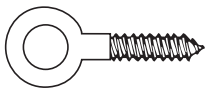


Torx
Washer Head

T30
Recess Drive



For Hex Head Lag Screws in plain and hot galvanized steel and stainless steel see pages B256 and B257.

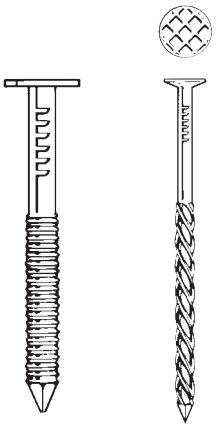


For Lag Screw Eye Bolts see page B273.

For Screw Eyes, Screw Hooks, Shoulder Hooks and Cup Hooks see pages B273-B275.

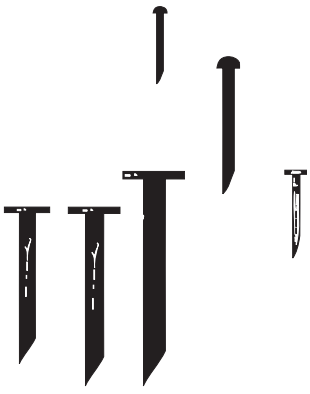






**For**

**Stainless Steel Common Nails**
**Nails for Marine Service**
**Decking Nails for Pressure Treated Lumber**
**Finishing Nails**
**Roofing Nails (Slating Nails)**
**Gimp Tacks**
**Blued Sanitary Upholsterers' Tacks**



See pages M44 and M45

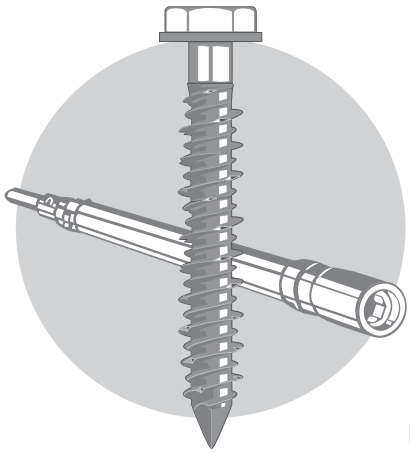




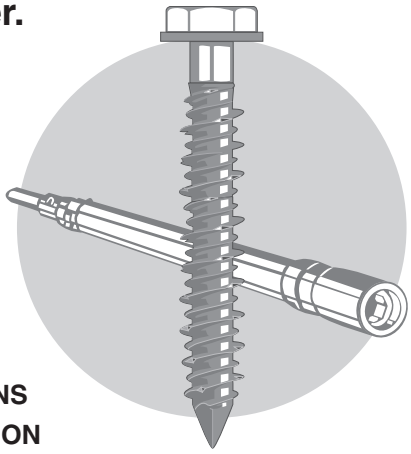
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B

# The anchor that literally taps threads into concrete - for exceptionally reliable holding power.

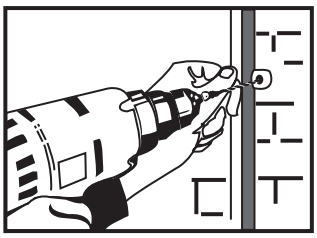


See facing page for CONDRIVE® TOOL components



**INSTALLATION INSTRUCTIONS**
**INSTRUCTIONS D'INSTALLATION**

## makes fastening in concrete as easy as fastening in wood...



### TO DRILL:

- Place drill adapter with drill bit into chuck of hammer drill or electric drill and drill pilot hole into concrete. Hole should be a minimum of 1/4" **(6.3 mm)** deeper than anchor will be embedded.

### TO CHANGE DRILL BIT:

- Loosen set screw on side of drill adapter.
- Remove old drill bit and insert new one.
- Tighten set screw.

### POUR PERCER:

- Placez l'adapteur et la mèche dans le mandrin du marteau-perforateur ou de la perceuse électrique. Percez un trou de guidage dans le béton. La profondeur de ce trou doit être supérieure de 1/4" de po **(6.3 mm)** au moins à celle de l'enfoncement de l'ancre.

### POUR CHANGER LA MÈCHE:

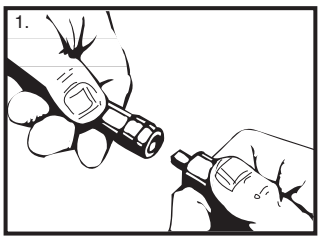
- Desserrez la vis de réglage sur le côté de l'adapteur.
- Enlevez la mèche usagée et insérez une mèche neuve.
- Resserrez la vis de réglage.

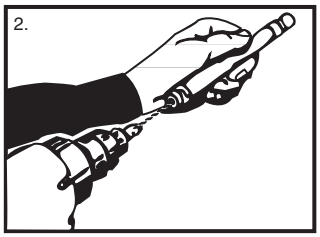
### TO DRIVE:

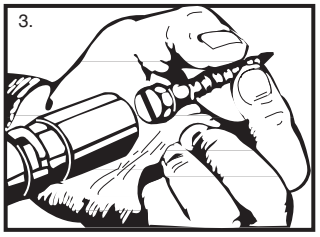
1. Snap appropriate hex or Phillips driver into small end of drive sleeve.
2. Slide end of drive sleeve over drill bit and snap onto drill adapter.
3. Insert head of Tapcon anchor into hex or Phillips driver.
4. Insert anchor into pre-drilled hole in concrete and drive until anchor is fully seated. Driver will automatically disengage from head of anchor to prevent over-driving.

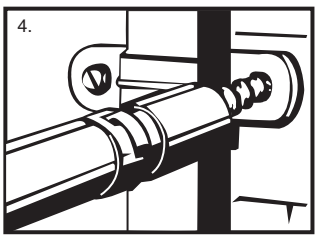
### POUR ENFONCER:

1. Placez la douille à tête hexagonale ou à tête Phillips sur la plus petite extrémité du manchon.
2. Glissez le manchon par-dessus la mèche et fixez-le à l'adaptateur.
3. Insérez la tête de l'ancre TAPCON dans la douille hexagonale ou pour tête Phillips.
4. Positionnez l'ancre dans le trou déjà percé dans le béton et enfoncez jusqu'à ce qu'elle soit bien en place. La douille libérera automatiquement la tête de l'ancre pour empêcher un enfoncement excessif.




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## permet de placer des fixations dans le béton aussi facilement que dans du bois.





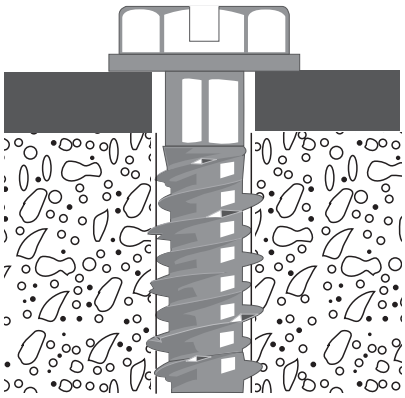
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B

## Components of Complete Tool
## *SPAENAUR No.* 876-500

| LETTER | PART DESCRIPTION | *SPAENAUR No.* | MFG. NO. PART NO. |
|---|---|---|---|
| A | 1/4" **(6.35 mm)** Hex Driver | **876-352** | 790-1006 |
| | 5/16" **(7.94 mm)** Hex Driver | **876-353** | 790-1007 |
| B | #2 Phillips Bit | **876-142** | 790-1008 |
| | #3 Phillips Bit | **876-143** | 790-1009 |
| C | Phillips Driver Adapter | **876-354** | 790-1010 |
| D | 1/4-28 Socket Set Screw (2 required) | **SS-117** | 790-2006 |
| F1 | Drive Sleeve (Std.) 5-7/8" **(149.2 mm)** | **876-356** | 790-1002 |
| F3 | Drive Sleeve (Extra Long) 6-7/8" **(174.6 mm)** | **876-358** | 790-1015 |
| G | 5/32" **(3.97 mm)** Ball Bearing | **876-359** | 790-1004 |
| H | Detent Spring (2 required) | **876-360** | 790-1003 |
| I | 1/8" **(3.18 mm)** Ball Bearing | **876-361** | 790-2008 |
| J | Carbide Drill Bit* (see note) | | |
| | 5/32" x 3-1/2" **(3.97 mm x 88.9 mm)** | **875-159** | 790-0814 |
| | 5/32" x 4-1/2" **(3.97 mm x 114.3 mm)** | **875-160** | 790-0818 |
| | 5/32" x 5-1/2" **(3.97 mm x 139.7 mm)** | **875-161** | 790-0822 |
| | 3/16" x 3-1/2" **(4.76 mm x 88.9 mm)** | **875-162** | 790-1014 |
| | 3/16" x 4-1/2" **(4.76 mm x 114.3 mm)** | **875-163** | 790-1018 |
| | 3/16" x 5-1/2" **(4.76 mm x 139.7 mm)** | **875-164** | 790-1022 |
| | 3/16" x 6-1/2" **(4.76 mm x 165.1 mm)** | **875-165** | 790-1026 |
| K | Drill Adapter | **876-362** | 790-1001 |
| L | 1/8" **(3.18 mm)** Hex Key | **SS-65K** | 790-2010 |

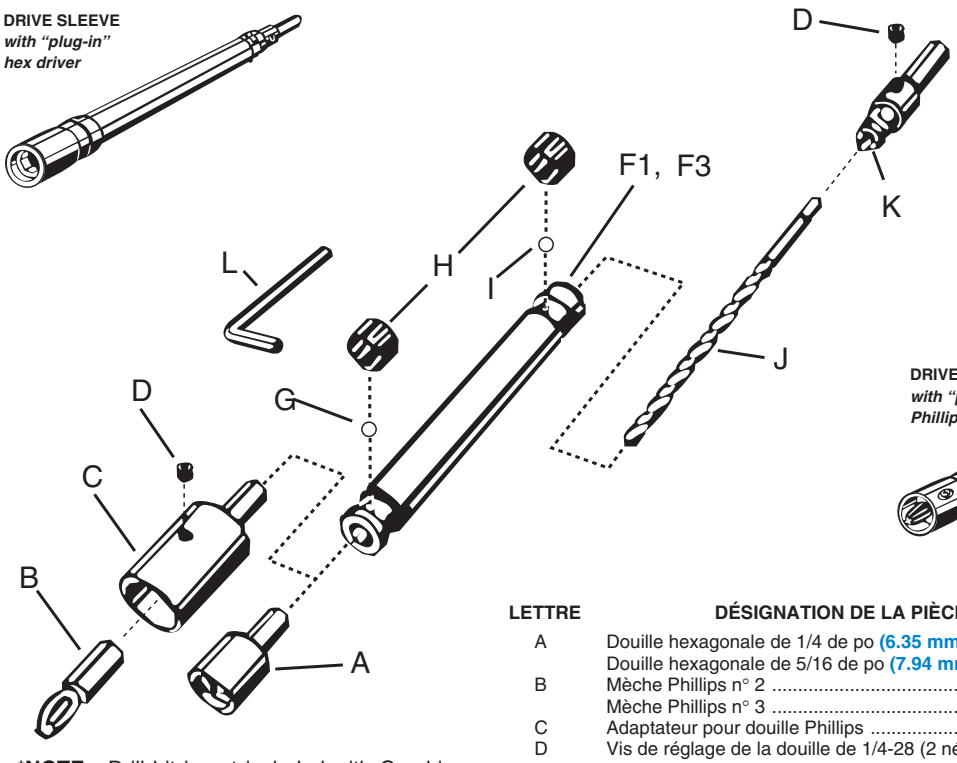
### CONDRIVE® 1000 COMPONENTS
### PIÈCES DU CONDRIVE® 1000



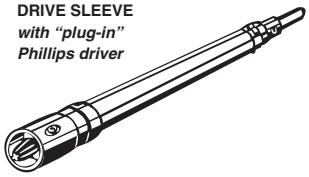
**See pages B74 to B77 for TAPCON® CONCRETE FASTENING SYSTEM DE FIXATION DANS LE BÉTON**

**DRIVE SLEEVE**
***with "plug-in" hex driver***






**DRIVE SLEEVE**
***with "plug-in" Phillips driver***



***NOTE:** Drill bit is not included with Condrive 1000 Tool. One drill bit is included with each box of Tapcon Anchors.

The products on this page are covered by one or more of the following U.S. Patents: 3,937,199 and 3,965,510. Canadian and other patents pending.

***REMARQUE:** La mèche n'est pas livrée avec l'outil CONDRIVE 1000. Cependant, une mèche est jointe à chaque boîte d'ancres TAPCON.

Les produits illustrés sur cette page sont protégés par un ou plusieurs des brevets américains suivants: 3937119 et 3965510. Brevets canadiens et autres en attente.

| LETTRE | DÉSIGNATION DE LA PIÈCE | *SPAENAUR No.* | MFR'S PIÈCE N° |
|---|---|---|---|
| A | Douille hexagonale de 1/4 de po **(6.35 mm)** | **876-352** | 790-1006 |
| | Douille hexagonale de 5/16 de po **(7.94 mm)** | **876-353** | 790-1007 |
| B | Mèche Phillips n° 2 | **876-142** | 790-1008 |
| | Mèche Phillips n° 3 | **876-143** | 790-1009 |
| C | Adaptateur pour douille Phillips | **876-354** | 790-1010 |
| D | Vis de réglage de la douille de 1/4-28 (2 nécessaires) | **SS-117** | 790-2006 |
| F1 | Manchon pour enfoncer (régulière) 5-7/8 po **(149.2 mm)** | **876-356** | 790-1002 |
| F3 | Manchon pour enfoncer (extra long) 6-7/8 po **(174.6 mm)** | **876-358** | 790-1015 |
| G | Roulement à billes de 5/32 de po **(3.97 mm)** | **876-359** | 790-1004 |
| H | Ressort de détente (2 nécessaires) | **876-360** | 790-1003 |
| I | Roulement à billes de 1/8 de po **(3.18 mm)** | **876-361** | 790-2008 |
| J | Mèche au carbure* (voire remarque) | | |
| | 5/32 de po x 3-1/2 po **(3.97 mm x 88.9 mm)** | **875-159** | 790-0814 |
| | 5/32 de po x 4-1/2 po **(3.97 mm x 114.3 mm)** | **875-160** | 790-0818 |
| | 5/32 de po x 5-1/2 po **(3.97 mm x 139.7 mm)** | **875-161** | 790-0822 |
| | 3/16 de po x 3-1/2 po **(4.76 mm x 88.9 mm)** | **875-162** | 790-1014 |
| | 3/16 de po x 4-1/2 po **(4.76 mm x 114.3 mm)** | **875-163** | 790-1018 |
| | 3/16 de po x 5-1/2 po **(4.76 mm x 139.7 mm)** | **875-164** | 790-1022 |
| | 3/16 de po x 6-1/2 po **(4.76 mm x 165.1 mm)** | **875-165** | 790-1026 |
| K | Adaptateur pour percer | **876-362** | 790-1001 |
| L | Clé hexagonale de 1/8 de po **(3.18 mm)** | **SS-65K** | 790-2010 |

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Contact Sales Desk For Package Quantities

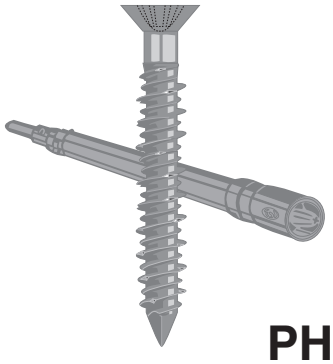
P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B

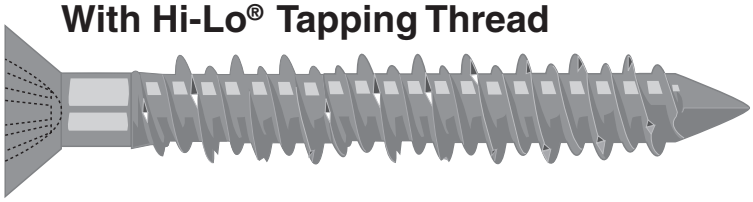
# ALL-NEW MASONRY ANCHOR SYSTEM. EASIER, FASTER, STRONGER, ECONOMICAL.



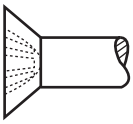
## CONCRETE ANCHOR SYSTEM
## 3/16" and 1/4" DIAMETER

(82° COUNTERSUNK)
## PHILLIPS FLAT HEAD

### With Hi-Lo® Tapping Thread

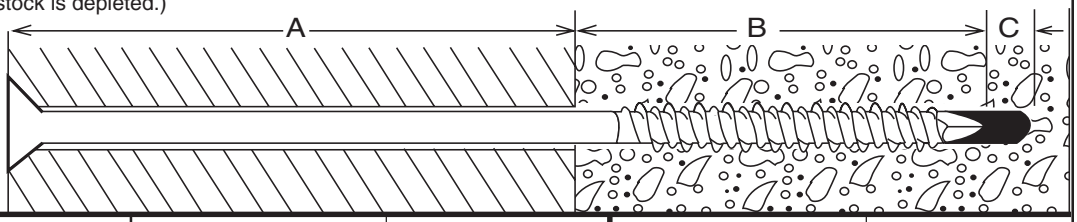


**C-1022 STEEL**
*Case-hardened*

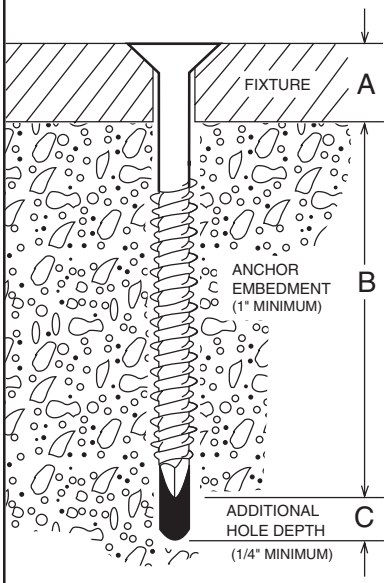


**Finish:** Blue CLIMASEAL® Organometallic Polymer Coating. (Some blue corrosion resistant zinc electroplated screws are still available and will be supplied until present stock is depleted.)

| | | Min. | Max. |
|---|---|---|---|
| **B** | Embedment in Concrete | 1" | 1-1/4" |
| **C** | Additional Hole depth | 1/4" | |

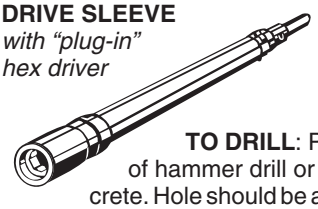



## SELECTOR GUIDE




| TAPCON SCREW ANCHOR SIZE A + B | | PKG QTY. *100 ANCHORS with 1 Drill Bit* | A + B + C DRILL BIT SIZE | | DRILL BIT PKG QTY. 1 |
|---|---|---|---|---|---|
| Dia. | Length | *SPAENAUR No.* | Drill Bit Dia. | Length | *SPAENAUR No.* |
| 3/16" | x 1-1/4" | 506-051 | 5/32" | x 3-1/2" | 875-159 |
| | x 1-3/4" | 506-052 | | | |
| | x 2-1/4" | 506-053 | | x 4-1/2" | 875-160 |
| | x 2-3/4" | 506-054 | | | |
| | x 3-1/4" | 506-055 | | x 5-1/2" | 875-161 |
| | x 4" | 506-056 | | | |
| 1/4" | x 1-1/4" | 506-057 | 3/16" | x 3-1/2" | 875-162 |
| | x 1-3/4" | 506-058 | | | |
| | x 2-1/4" | 506-059 | | x 4-1/2" | 875-163 |
| | x 2-3/4" | 506-060 | | | |
| | x 3-1/4" | 506-061 | | x 5-1/2" | 875-164 |
| | x 4" | 506-062 | | | |
| | x 5" | 506-063 | | x 6-1/2" | 875-165 |

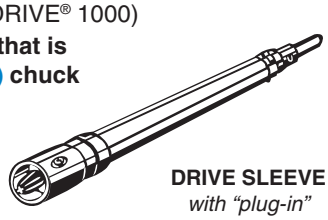
**DRIVE SLEEVE**
*with "plug-in" hex driver*



***SPAENAUR No.* 876-500 TOOL** (Mfrs. No. CONDRIVE® 1000)
**The Condrive 1000 is a multi-purpose installation tool that is inserted into a 3/8 inch (9.53 mm) or 1/2 inch (12.7 mm) chuck of a standard hammer drill or electric drill.**

**TO DRILL**: Place drill adapter with drill bit into chuck of hammer drill or electric drill and drill pilot hole into concrete. Hole should be a minimum of 1/4" deeper than anchor will be embedded.

**TO DRIVE**: Snap appropriate hex Phillips bit into small end of drive sleeve.



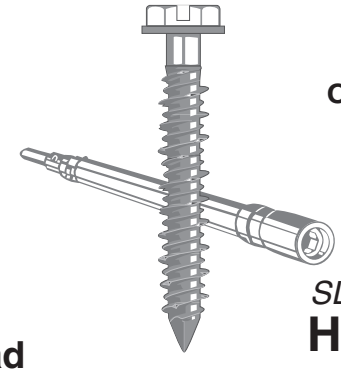
**DRIVE SLEEVE**
*with "plug-in" Phillips driver*



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# THE ALL-NEW MASONRY ANCHOR SYSTEM. EASIER, FASTER, STRONGER, ECONOMICAL.



CONCRETE ANCHOR SYSTEM

## 3/16" and 1/4" DIAMETER

*SLOTTED*

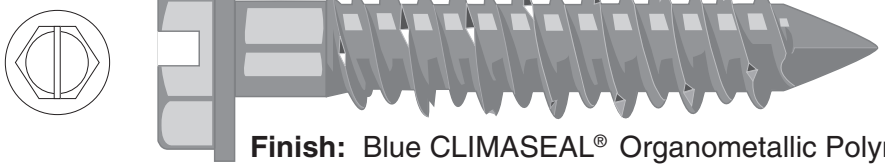
## HEX WASHER HEAD

**C-1022 STEEL**

*Case Hardened*

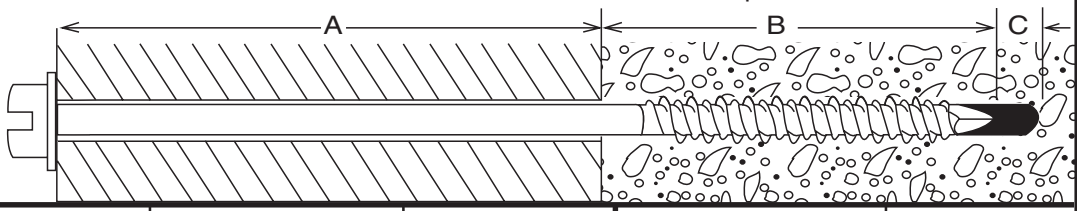
**With Hi-Lo®**

**Tapping Thread**

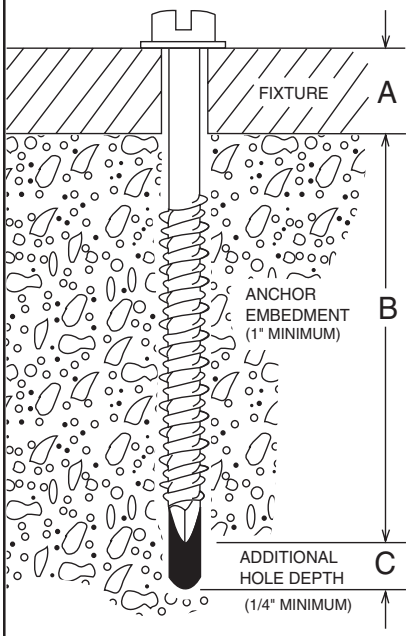


**Finish:** Blue CLIMASEAL® Organometallic Polymer Coating.
(Some blue corrosion resistant zinc electroplated screws are still available and will be supplied until present stock is depleted.)

| | | | | min. | max. |
|---|---|---|---|---|---|
| **Anchor Size** | 3/16" Dia. - 1/4" width across flats<br>1/4" Dia. - 5/16" width across flats | **B**<br>**C** | Embedment in concrete<br>Additional hole depth | 1"<br>1/4" | 1-1/4" |




## SELECTOR GUIDE




| TAPCON SCREW ANCHOR SIZE A + B | | PKG QTY. 100 ANCHORS with 1 Drill Bit | A + B + C DRILL BIT SIZE | | DRILL BIT PKG QTY. 1 |
|---|---|---|---|---|---|
| Dia. | Length | *SPAENAUR No.* | Drill Bit Dia. | Length | *SPAENAUR No.* |
| 3/16" | x 1-1/4" | 506-002 | 5/32" | x 3-1/2" | 875-159 |
| | x 1-3/4" | 506-003 | | | |
| | x 2-1/4" | 506-004 | | x 4-1/2" | 875-160 |
| | x 2-3/4" | 506-005 | | | |
| | x 3-1/4" | 506-006 | | x 5-1/2" | 875-161 |
| | x 4" | 506-007 | | | |
| | x 1-1/4" | 506-010 | | | |
| 1/4" | x 1-3/4" | 506-011 | 3/16" | x 3-1/2" | 875-162 |
| | x 2-1/4" | 506-012 | | | |
| | x 2-3/4" | 506-013 | | x 4-1/2" | 875-163 |
| | x 3-1/4" | 506-014 | | | |
| | x 4" | 506-015 | | x 5-1/2" | 875-164 |
| | x 5" | 506-016 | | x 6-1/2" | 875-165 |



TAPCON®

**DRILL BITS**

**ONE DRILL BIT IS PROVIDED WITH EVERY BOX OF 100 TAPCON ANCHORS.**

Use only TAPCON high-quality, carbide tipped MASONRY DRILL BITS for installation of all TAPCON Anchors.

Typical TAPCON Drill Bit. See above (right) for available sizes.
For max. life, use only in Hammer-type Drills. Rotary drills reduce bit life.



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PLASTIKIT «PLASTIKIT» **A-5**

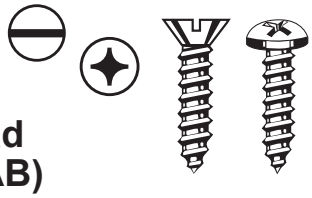
**Pan Slot Head**
## TYPE AB TAPPING SCREWS
**STEEL, Zinc Plated**

**20 SIZES - 140 PIECES**

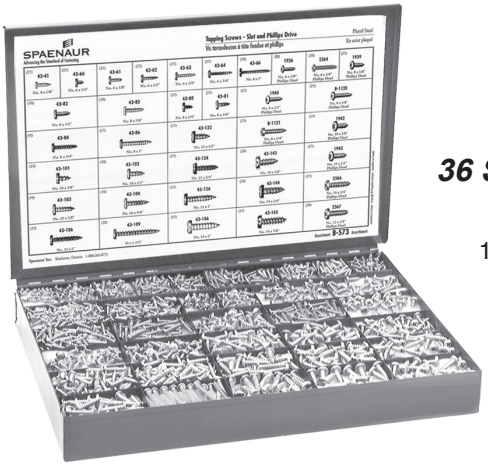



Shipping weight **0.34 kg** (0.75 lbs.)

ASSORTMENT ASSORTIMENT **B-573**



## SPECIAL ASSORTMENT
## Slotted & Phillips Pan Head TAPPING SCREWS (Type AB)




**ALL SCREWS ZINC PLATED**

***36 SIZES - 1000 PIECES***

16-1/16" x 11-1/2" x 1-3/4"
Excellent "General Purpose" kit. Red enamelled STEEL box. 12 SCOOPED bins, 24 regular bins.

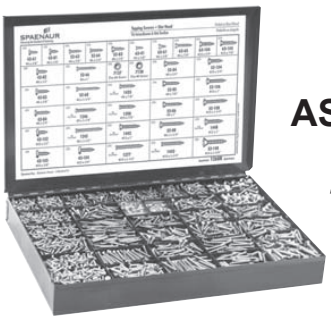
Shipping weight:
**5.33 kg** (11-3/4 lbs.)

**For the complete assortment contents turn to A35**

## Slotted Pan, Oval, & Flat Head TAPPING SCREWS (Type AB)
**ALL SCREWS NICKEL OR ZINC PLATED**



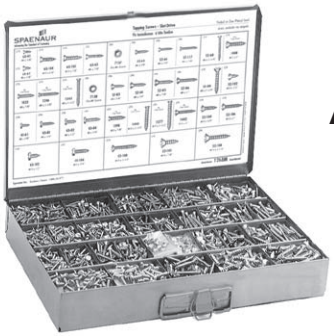
ASSORTMENT ASSORTIMENT **1268R**




**SPECIAL ASSORTMENT**
***36 Sizes***
***1025 Pieces***

16-1/4" x 11-3/4" x 2"
Red enamelled metal box. Hinged lid, 12 SCOOPED bins, 24 regular bins & dividers.
Shipping weight: **5.22 kg** (11-1/2 lbs.)

ASSORTMENT ASSORTIMENT **1268M**




**REGULAR ASSORTMENT**
***36 Sizes***
***995 Pieces***

13-3/8" x 9-1/4" x 2"
Grey enamelled metal box. Hinged lid, SCOOPED bins & dividers.
Shipping weight: **4.08 kg** (9 lbs.)

**For the complete assortment contents turn to A36**





P: **1-800-265-8772** F: **1-888-252-6380** **service@spaenaur.com**

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## Hardened STEEL




Inch Sizes

**FINISHES:** ALL OVAL HEADS - **NICKEL PLATED**
ALL OTHERS **ZINC PLATED**

**STYLE:** **Type AB** ("B" fine thread with "A" sharp point) is now standard.
We will furnish Type A as shown until all stock of same is exhausted.

**PACKING:** **Contact Sales Desk For Package Quantities**

**ORDER:** By ***SPAENAUR*** NUMBERS from the following Master Charts.

**Made to ASME B18.6.3**



**Type AB thread**

| Inch Sizes (Approx. Metric mm equivalent shown in brackets.) | | 80° to 82° LENGTH | 80° to 82° LENGTH | LENGTH |
|---|---|---|---|---|
| DIA. | L. | OVAL | FLAT | PAN |
| 2 (2.2 mm) | 3/16 | | | ST-139 |
| | 1/4 | | | ST-196 |
| | | | | |
| 4 (2.9 mm) | 1/4 | | | ST-24 |
| | 3/8 | | | 43-41 |
| | 1/2 | | ST-134 | 43-42 |
| | 5/8 | | | ST-140 |
| | 3/4 | | | ST-141 |
| | 1 | | | 520-B02-1M |
| 6 (3.5 mm) | 1/4 | | | 43-60 |
| | 3/8 | | 63-61 | 43-61 |
| | 1/2 | | | 43-62 |
| | 5/8 | | 63-63 | 43-63 |
| | 3/4 | 52-64 | ST-188 | 43-64 |
| | 7/8 | | | ST-143 |
| | 1 | | | 43-66 |
| | 1-1/4 | | | ST-135 |
| 8 (4.2 mm) | 3/8 | | | 43-81 |
| | 1/2 | | | 43-82 |
| | 3/4 | 52-84 | | 43-84 |
| | 1 | 52-86 | B-889 | 43-86 |
| | 1-1/4 | | | 43-88 |
| | 1-1/2 | | | 43-89 |
| | 2 | | | ST-144 |

| Inch Sizes (Approx. Metric mm equivalent shown in brackets.) | | 80° to 82° LENGTH | LENGTH | 80° to 82° LENGTH | LENGTH | LENGTH |
|---|---|---|---|---|---|---|
| DIA. | L. | OVAL | ROUND | FLAT | PAN | TRUSS |
| 10 (4.8 mm) | 3/8 | | | | 43-101 | |
| | 1/2 | | 83-102 | | 43-102 | ST-106 |
| | 3/4 | 52-104 | | | 43-104 | |
| | 7/8 | | | | 43-105 | |
| | 1 | | 83-106 | 63-106 | 43-106 | |
| | 1-1/4 | | | | 43-108 | |
| 12 (5.5 mm) | 1/2 | | | | 43-122 | |
| 14 (6.3 mm) | 1/2 | | | | 43-142 | |
| | 5/8 | | | | 43-143 | |
| | 3/4 | | | | 43-144 | |
| | 1 | | | | 43-146 | |

## Hardened STEEL

Inch Sizes




TYPE B SLOT DRIVE

**FINISHES:** ALL OVAL HEADS - **NICKEL PLATED**
ALL OTHERS **ZINC PLATED**

**PACKING:** **Contact Sales Desk For Package Quantities**

**ORDER:** By ***SPAENAUR*** NUMBERS from the following Master Chart.

**Made to ASME B18.6.4**

| Inch Sizes (Approx. Metric mm equivalent shown in brackets.) | | LENGTH | LENGTH |
|---|---|---|---|
| DIA. | L | PAN | TRUSS |
| 2 (2.2 mm) | 1/4 | ST-323B | |
| | 1/2 | 520-570 | |
| 4 (2.9 mm) | 1/4 | ST-466B | |
| | 3/8 | | 520-B01-1W |
| | | | |
| 6 (3.5 mm) | 1/4 | ST-684B | |
| | | | |
| 8 (4.2 mm) | 3/8 | 520-B03-1X | |
| | 1 | 520-572 | |
| | | | |
| 10 (4.8 mm) | 3/8 | ST-159B | |
| | 1 | 520-566 | |
| | | | |



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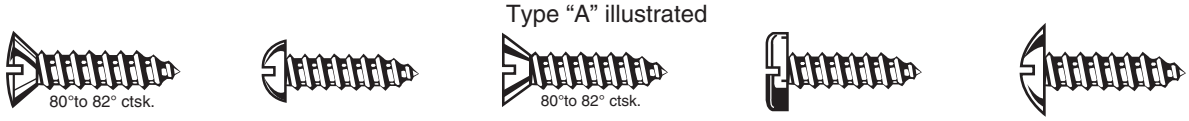
# 18-8 STAINLESS STEEL

**INCH Sizes**

## TYPE "AB"

**Note:** *Type AB will be supplied when Type A stocks are depleted.

Type "A" illustrated




***STYLE:** **Type AB** ("B" fine thread with "A" sharp point) is now standard. We will furnish Type A as shown until all stock of same is exhausted.

**PACKING:** **PKG QTY.100 (PER SIZE)**

**Head/Body & Slot Dimensions to ASME B18.6.4**

| Inch Sizes (Approx. Metric mm equivalent shown in Brackets) DIA. | L. | OVAL | ROUND | FLAT | PAN | TRUSS |
|---|---|---|---|---|---|---|
| 4 (2.9 mm) | 1/4 | | | | ST-2030 | |
| | 3/8 | ST-2034 | | ST-2032 | ST-2033 | |
| | 1/2 | ST-2036 | | | ST-2035 | |
| | 3/4 | | | | ST-2038 | |
| 6 (3.5 mm) | 1/4 | | | | ST-2039 | |
| | 3/8 | ST-2130 | ST-2040 | ST-2129 | ST-2042 | 521-A05-1T |
| | 1/2 | ST-2131 | | 521-A03-1C | ST-2045 | |
| | 5/8 | | | ST-2132 | ST-2046 | |
| | 3/4 | ST-2059 | ST-2047 | ST-2133 | ST-2048 | |
| | 1 | | | 521-059 | ST-2049 | |
| | 1-1/2 | | | | 521-062 | |
| 7 (3.9 mm) | 3/8 | | | | ST-2052 | |
| | 1/2 | | | | ST-2054 | |
| | 3/4 | | | | ST-2055 | |
| | 1 | | | | ST-2056 | |
| 8 (4.2 mm) | 3/8 | | ST-2057 | | ST-2058 | ST-2016 |
| | 1/2 | ST-2062 | | | ST-2061 | ST-2104 |
| | 5/8 | ST-2065 | ST-2063 | 521-A02-1Y | ST-2064 | |
| | 3/4 | 521-061 | | ST-2066 | ST-2068 | ST-2014 |
| | 1 | | ST-2093 | ST-2015 | ST-2004 | 521-A07-1W |
| | 1-1/4 | | | 521-063 | ST-2098 | |

| Inch Sizes (Approx. Metric mm equivalent shown in Brackets) DIA. | L. | OVAL | ROUND | FLAT | PAN |
|---|---|---|---|---|---|
| 10 (4.8 mm) | 3/8 | | | | ST-2070 |
| | 1/2 | | ST-2071 | 521-058 | ST-2072 |
| | 5/8 | | | | ST-2074 |
| | 3/4 | | ST-2075 | 521-A06-1K | ST-2076 |
| | 1 | | | ST-2077 | ST-2079 |
| | 1-1/4 | 521-060 | ST-2096 | ST-2095 | 521-A01-1P |
| | 1-1/2 | 521-064 | | ST-2100 | 521-057 |
| 12 (5.5 mm) | 1/2 | | | | ST-2081 |
| | 3/4 | | | | ST-2082 |
| | 1 | | ST-2094 | | 521-A04-1N |
| 14 (6.3 mm) | 3/4 | | ST-2092 | | ST-2084 |
| | 1 | | | | ST-2099 |

See page R12 for Technical Information relating to Tapping Screws

**ASSORTMENT / ASSORTIMENT 805-526** — **TYPE "AB"**



### 18-8 Stainless Steel TAPPING SCREWS

**36 SIZES - 1,000 PIECES**

Furnished in a REGULAR SIZE drawer, with lid and scooped bin.

Fits the slide racks shown on Page A2

Shipping Weight: **3.40 kg** (7-1/2 lbs.)

**ASSORTMENT / ASSORTIMENT B-570B** — **TYPE "AB"**



### PHILLIPS DRIVE (Oval, Pan and Flat Head)

**Steel, Nickel Plated (Or Zinc)**

### TAPPING SCREWS

**36 SIZES - 1,095 PIECES**

16-1/4" x 11-1/4" x 2"

Red enamelled, all steel container

Shipping Weight: **5.90 kg** (13 lbs.)



**For the complete assortment contents turn to A37**



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Hardened
# STEEL
## TAPPING SCREWS INCH Sizes




## TYPE AB
## PHILLIPS DRIVE

**Made to ASME B18.6.3**
**ALL OVAL HEADS - NICKEL PLATED**
**ALL OTHERS - ZINC PLATED**

**NOTE:** Type A, as shown, is being replaced by Type AB ("B" fine thread with "A" sharp point). Type A will be furnished until stock sold.

| Inch Sizes (Approx. Metric mm equivalent shown in Brackets.) | | 80° to 82° OVAL | FLAT | PAN | TRUSS |
|---|---|---|---|---|---|
| DIA. | L. | | | | |
| 2 (2.2 mm) | 1/2 | | | 530-B18-1M | |
| 4 (2.9 mm) | 1/4 | | 530-B23-1P | 530-B51-1C | |
| | 3/8 | ST-525P | 530-001 | 530-B34-2A | |
| | 1/2 | 530-B66-1K | 530-B24-1Y | 530-B08-1A | |
| | 5/8 | | 530-B84-1A | 530-B93-1W | |
| | 3/4 | B-348 | 530-003 | 530-B29-1W | |
| | 1 | | 530-004 | 530-B19-1X | |
| 6 (3.5 mm) | 1/4 | | 530-B67-1W | 1935 | ST-702P |
| | 5/16 | | | 530-B25-1C | |
| | 3/8 | B-1558 | ST-168P | 530-B02-1N | 530-062 |
| | 1/2 | ST-63P | 530-B52-1N | 530-B80-1K | 530-B61-1P |
| | 5/8 | 1793 | 530-005 | ST-41P | 530-B36-1Y |
| | 3/4 | 1794 | 530-B56-1M | 2364 | 530-B70-1M |
| | 7/8 | | 530-006 | | |
| | 1 | 1796 | 530-007 | ST-89P | |
| | 1-1/4 | 1797 | 530-B77-1T | 530-044 | |
| | 1-1/2 | | 530-008 | 530-045 | |
| | 2 | | 530-009 | 530-046 | |
| 7 (3.9 mm) | 1/2 | | | 530-B91-1T | |
| 8 (4.2 mm) | 1/4 | | | 530-B53-1T | |
| | 3/8 | | 530-010 | 530-B14-2N | ST-176P |
| | 1/2 | 2358 | 530-B92-1K | 530-B60-1A | 530-065 |
| | 1/2 | | *1711 | | |
| | 5/8 | ST-13P | 530-011 | B-1120 | 530-742 |
| | 5/8 | *1421 | | | |
| | 3/4 | 2359 | 530-012 | B-1121 | 530-B55-1W |
| | 3/4 | *530-B68-1M | *1712 | | |
| | 7/8 | ST-14P | 530-013 | 530-047 | |
| | 7/8 | *1800 | | | |
| | 1 | 2360 | 530-743 | 530-B37-1C | 530-066 |
| | 1 | *1483 | | | |
| | 1-1/8 | *530-B65-1T | | ST-346P | |
| | 1-1/4 | 2361 | *530-B58-1A | ST-631P | 530-067 |
| | 1-3/8 | ST-32P | | | |
| | 1-3/8 | *1803A | | | |
| | 1-1/2 | 2362 | 530-014 | ST-723P | |
| | 1-3/4 | ST-25P | 530-015 | 2088 | |
| | 1-3/4 | *1933 | | | |
| | 2 | ST-26P | 530-016 | 530-048 | |
| | 2 | *ST-2P | | | |

| Inch Sizes (Approx. Metric mm equivalent shown in Brackets.) | | 80° to 82° OVAL | ROUND | FLAT | PAN | TRUSS |
|---|---|---|---|---|---|---|
| DIA. | L. | | | | | |
| 8 (4.2 mm) | 2-1/4 | | | 530-135 | | |
| | 2-1/2 | *ST-312P | | 530-B89-1T | 530-049 | |
| | 3 | | | 530-018 | 530-050 | |
| | *With No.6 Hd. | | | | | |
| 10 (4.8 mm) | 3/8 | | | | 1942 | 530-B86-1Y |
| | 1/2 | | | 530-019 | 1943 | 530-B15-1T |
| | 1/2 | **ST-77P | | **530-B69-1Y | | |
| | 5/8 | | 530-134 | ST-578P | 1943A | 530-B90-1N |
| | 5/8 | **ST-16P | | | | |
| | 3/4 | ST-18P | | ST-43P | 530-B30-1K | 530-B78-1K |
| | 3/4 | *1717 | | | | |
| | 7/8 | 530-B83-1X | | | | ST-488P |
| | 1 | ST-17P | | 530-020 | 530-B49-1C | ST-465P |
| | 1 | *1804 | | | | |
| | 1 | **ST-19P | | | | |
| | 1-1/8 | 1807 | | | | |
| | 1-1/4 | ST-20P | | 530-021 | 530-B16-1K | ST-524P |
| | 1-3/8 | ST-21P | | | | |
| | 1-1/2 | ST-22P | | 530-022 | 1943B | ST-489P |
| | 1-1/2 | *2046 | | | | |
| | 1-1/2 | **ST-69P | | | | |
| | 1-3/4 | ST-23P | | 530-023 | 530-051 | |
| | 1-3/4 | *2047 | | | | |
| | 2 | ST-4P | | 530-B54-1K | 530-B50-1Y | |
| | 2 | *ST-71P | | | | |
| | 2-1/4 | ST-75P | | 530-025 | 530-128 | |
| | 2-1/4 | •ST-74PBO | | | | |
| | 2-1/2 | | | 530-026 | 530-053 | |
| | 3 | | | 530-027 | 530-054 | |
| | •Black Zinc | | *With No.6 Hd. | | **With No. 8 Hd. | |
| 12 (5.5 mm) | 1/2 | ST-412P | | | 530-B40-1N | 530-069 |
| | 5/8 | | | | ST-343P | |
| | 3/4 | ST-418P | | 530-028 | 2367 | 530-070 |
| | 1 | ***ST-422P | | ST-172P | 530-B57-1X | 530-071 |
| | 1-1/4 | | | 530-029 | 530-055 | |
| | 1-1/2 | **ST-427P | | | 530-B71-1X | |
| | 1-3/4 | **ST-429P | | 530-030 | 530-B75-1C | |
| | 2 | **ST-432P | | 530-031 | ST-10P | |
| | 2-1/2 | | | 530-032 | 530-057 | |
| | 3 | | | 530-033 | 530-058 | |

*With No.6 Hd. **With No. 8 Head ***With No. 10 Hd.

Contact Sales Desk For Package Quantities

B



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B

## Hardened STEEL TAPPING SCREWS PHILLIPS DRIVE

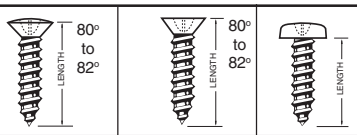
ASME B18.6.4

PLATING: Oval Heads - Nickel Plated; Other Styles - Zinc Plated

TYPE AB

PKG QTY. 100

Inch Sizes (Approx. Metric mm equivalent shown in brackets.)




| DIAMETER | L. | OVAL | FLAT | PAN |
|---|---|---|---|---|
| 14 (6.3 mm) | 1/2 | ST-437P | | ST-464P |
| | 1/2 | *ST-435P | | |
| | 5/8 | | | 2216 |
| | 3/4 | *ST-441P | 530-034 | 530-B85-1P |
| | 7/8 | | 530-B12-1Y | ST-523P |
| | 1 | | 530-B63-1C | ST-315P |
| | 1-1/4 | | 530-036 | 530-059 |
| | 1-1/2 | ST-453P | 530-037 | ST-33P |
| | 1-3/4 | *ST-454P | | ST-34P |
| | 1-3/4 | •ST-455P | | |
| | 2 | | 530-038 | 530-061 |
| | 2-1/4 | | | B-1336 |
| | 2-1/2 | | 530-039 | ST-11P |
| | 3 | | 530-040 | ST-12P |

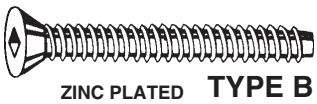
*With No. 10 Head •With No. 12 Head

STAINLESS STEEL SEE B83. Made to ASME B18.6.3

## Hardened STEEL TAPPING SCREWS

Inch Sizes

ASME B18.6.4



ZINC PLATED TYPE B

PKG QTY. 100

SLOTTED/SOCKET DRIVE

| DIA. | LGTH. | ROUND | FLAT | PAN | TRUSS |
|---|---|---|---|---|---|
| 8 (Approx. 4.2 mm) | 1/4" | | | 535-A08-1A | |
| | 5/16" | | | 535-021 | 535-020ZP |
| | 5/16" | | | | ▲535-020 |

SOCKET DRIVE

▲ Green Aerodite Finish

| DIA. | LGTH. | ROUND | FLAT | PAN | TRUSS |
|---|---|---|---|---|---|
| 6 (Approx. 3.5 mm) | 3/8" | | | 535-A19-1X | |
| | 5/8" | ST-687 | | | |
| 8 (Approx. 4.2 mm) | 3/8" | | | 535-A06-1M | 535-016 |
| 10 (Approx. 4.8 mm) | 3/4" | | ST-197 | | |

See page B87-88 for Tapping Screws, Square Socket, Type AB.
See page B102 for larger sizes.

## Hardened STEEL TAPPING SCREWS PHILLIPS DRIVE

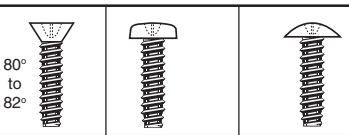
ASME B18.6.4

FINISH: ZINC PLATED

TYPE B

PKG QTY. 100

Inch Sizes (Approx. Metric mm equivalent shown in brackets.)




| DIA. | L. | FLAT | PAN | TRUSS |
|---|---|---|---|---|
| 2 (2.2 mm) | 3/16 | | 530-B35-1P | |
| | 1/4 | 530-072 | 530-B42-1K | |
| | 5/16 | 530-733 | 530-B20-1M | |
| | 3/8 | ST-605P | 530-B32-1M | |
| | 7/16 | | ▲530-747 | |
| | 9/16 | | 530-748 | |
| 4 (2.9 mm) | 1/4 | | 530-B03-2T | |
| | 3/8 | 530-073 | 530-B87-1C | |
| | 1/2 | 530-B45-1X | 530-086 | |
| 6 (3.5 mm) | 1/4 | | 530-B72-1A | |
| | 5/16 | 530-730 | 530-B39-1T | |
| | 3/8 | 530-B76-2N | B-1436 | 530-117 |
| | 1/2 | 530-B79-1W | | |
| | 7/8 | | 530-088 | |
| | 1 | ▲530-746 | 530-745 | |
| 8 (4.2 mm) | 1/4 | | ST-175PB | |
| | 5/16 | | 530-B06-1M | |
| | 3/8 | | ■530-B04-2K | ST-176PB |
| | 1/2 | 530-B81-1W | 530-B38-1N | 530-118 |
| | 5/8 | 530-B28-1K | 530-B27-2T | 530-119 |
| | 3/4 | 530-076 | 530-B09-1P | 530-120 |
| | 1 | 530-077 | 530-B13-1C | |
| | 1-1/4 | 530-078 | 530-090 | |
| 10 (4.8 mm) | 3/8 | | 530-B05-1W | 530-121 |
| | 1/2 | ▲530-079 | 530-727 | 530-B26-1N |
| | 5/8 | 530-080 | 530-B82-1M | 530-123 |
| | 3/4 | 530-081 | 530-091 | 530-124 |
| | 1 | 530-082 | 530-092 | |
| | 1-1/4 | 530-083 | 530-093 | |
| 12 (5.5 mm) | 1/2 | | 530-094 | 530-B21-1X |
| | 3/4 | | 530-B74-1Y | |
| | 1 | | 530-096 | |
| 14 (6.3 mm) | 1/2 | 530-129 | 530-097 | ST-177PB |
| | 5/8 | | | B-1399 |
| | 1 | | 530-098 | 530-734 |
| | 1-1/4 | 530-B59-1P | 530-099 | |
| | 1-1/2 | 530-B31-1W | 530-114 | |
| | 1-3/4 | | 530-115 | |
| | 2 | ST-214P | 530-116 | |

PKG QTY. 100 ▲ Undercut Hd. ■ Phillips/Slot Comb. Drive

## Phillips Rd. Washer Head

Low Profile



Head O.D. 3/8"

## TYPE AB SELF-TAPPING SCREWS

PKG QTY. 100

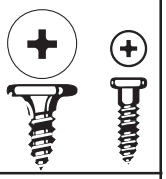
| SPAENAUR No. | Size | Finish |
|---|---|---|
| 530-740 | 8 x 3/8" | Black Zinc |
| 530-725 | 8 x 3/8" | Zinc |
| 530-B46-2A | 8 x 1/2" | Chromate |
| 530-B10-1A | 8 x 5/8" | Finish |

## Phillips Wafer Head

ASME B18.6.4

| SPAENAUR No. | Size | Hd. Dia. | Finish |
|---|---|---|---|
| 530-B47-1P | 8 x 1/2" | 7/16" | Z. Chr. |

**Material:** Case Hardened Steel



For Truck and Trailer FLOORBOARD SCREWS - see page B102.



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# 18-8 STAINLESS STEEL TAPPING SCREWS




## TYPE A (or AB at our option) PHILLIPS DRIVE

Head/Body & Recess Dimensions to ASME B18.6.3

B

| Inch Sizes (Approx. mm equivalent shown in brackets.) | | 80° to 82° | 80° to 82° | | |
|---|---|---|---|---|---|
| DIA. | L. | OVAL | FLAT | PAN | TRUSS |
| 2 (2.2 mm) | 7/16 | | | 526-004 (Type B) | |
| | | | | | |
| 4 (2.9 mm) | 1/4 | | | 531-A61-1T | 531-163 |
| | 3/8 | 531-A04-2A | 531-A46-1N | 531-A22-1N | 531-164 |
| | 1/2 | 531-020 | 531-A32-1Y | 531-A02-2A | 531-A13-1W |
| | 5/8 | | 531-A20-1Y | 531-013 | |
| | 3/4 | 531-A29-1P | 531-A15-1X | 531-A57-1C | |
| | 1 | 531-A65-1X | 531-019 | 531-A59-1T | |
| 6 (3.5 mm) | 1/4 | | | 531-A41-1X | |
| | 3/8 | 531-040 | 531-A26-1M | 531-025 | 531-A34-1N |
| | 1/2 | 531-A58-1N | 531-034 | 531-A14-1M | 531-A43-1P |
| | 5/8 | 531-A28-1A | 531-A64-1M | 531-A42-1A | 531-048 |
| | 3/4 | 531-A54-1A | 531-036 | 531-A11-1T | 531-A36-1K |
| | 1 | 531-044 | 531-037 | 531-029 | 531-050 |
| | 1-1/4 | 531-045 | 531-A27-1X | 531-030 | 531-051 |
| | 1-1/2 | 531-A55-1P | 531-039 | 531-A08-1N | |
| | 2 | | | 531-A05-1P | |
| 8 (4.2 mm) | 3/8 | | 531-A39-1X | 531-052 | 531-078 |
| | 1/2 | 531-A25-1W | 531-062 | 531-053 | 531-001 |
| | 5/8 | 531-071 | 531-A69-1C | 531-A31-1P | 531-A18-1Y |
| | 3/4 | 531-072 | 531-064 | 531-A44-1Y | 531-080 |
| | 1 | 531-073 | 531-A24-1K | 531-A45-1C | 531-081 |
| | 1-1/4 | 531-A63-1W | 531-066 | 531-057 | 531-A66-1A |
| | 1-1/2 | 531-075 | 531-067 | 531-058 | 531-A47-1T |
| | 1-3/4 | 531-076 | 531-068 | 531-059 | |
| | 2 | 531-A37-1W | 531-A49-1W | 531-A06-1Y | 531-A07-1C |
| 10 (4.8 mm) | 3/8 | | | 531-085 | 531-117 |
| | 1/2 | 531-107 | 531-A19-1C | ■531-A40-1M | 531-118 |
| | 5/8 | 531-108 | 531-098 | 531-A62-1K | 531-119 |
| | 3/4 | 531-A21-1C | 531-099 | 531-088 | 531-120 |
| | 1 | 531-110 | 531-A17-1P | 531-090 | 531-A38-1M |
| | 1-1/4 | 531-111 | 531-101 | 531-091 | 531-122 |
| | 1-1/2 | 531-112 | 531-102 | 531-092 | 531-A33-1C |
| | 1-3/4 | 531-A16-1A | 531-A67-1P | 531-093 | 531-124 |
| | 2 | 531-114 | 531-104 | 531-A53-1X | 531-A03-2X |
| | 2-1/2 | 531-115 | 531-105 | 531-095 | 531-162 |
| | 3 | 531-116 | 531-106 | 531-096 | |

| Inch Sizes (Approx. mm equivalent shown in brackets.) | | 80° to 82° | 80° to 82° | | |
|---|---|---|---|---|---|
| DIA. | L. | OVAL | FLAT | PAN | TRUSS |
| 12 (5.5 mm) | 1/2 | | | 531-A68-1Y | |
| | 5/8 | | | 531-A09-1T | |
| | 3/4 | 531-138 | 531-A10-1N | 531-128 | |
| | 1 | 531-139 | 531-A60-1N | 531-129 | |
| | 1-1/4 | 531-140 | 531-135 | 531-A50-1K | |
| | 1-1/2 | 531-A56-1Y | 531-A23-1T | 531-131 | |
| | 2 | 531-142 | 531-137 | 531-132 | |
| 14 (6.3 mm) | 1/2 | 531-154 | | 531-143 | |
| | 3/4 | 531-155 | 531-A52-1M | 531-144 | |
| | 3/4 | ST-2000P (#12 Hd., 430 S.S.) | | | |
| | 1 | 531-156 | 531-150 | 531-145 | 531-160 |
| | 1-1/4 | 531-157 | 531-151 | 531-146 | |
| | 1-1/2 | 531-A30-1A | 531-A51-1W | 531-147 | |
| | 2 | 531-A12-1K | 531-A35-1T | 531-A48-1K | |

■**526-002** Type B

**ASSORTMENT / ASSORTIMENT 805-546**

**Made to ASME/ANSI B18.6.3**

### 18-8 STAINLESS STEEL TAPPING SCREWS
PHILLIPS DRIVE

### 36 SIZES - 1000 PIECES

Furnished in Regular Size Steel drawer which will fit into Slide Racks shown on page A2
Shipping Wght: **3.60 kg** (7.95 lbs.)

**PLASTIKIT / «PLASTIKIT» 804-080**

### 18-8 STAINLESS STEEL Type A-AB TAPPING SCREWS
PHILLIPS DRIVE
Oval, Flat, Pan and Truss Heads

### 20 VARIETIES - 200 PIECES

Clear durable, plastic container 1" x 2-3/4" x 4-1/2"
Shipping Weight: **0.48 kg** (1.05 lbs.)



**For the complete assortment contents turn to A38**

Contact Sales Desk For Package Quantities



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**INCH Sizes** Hardened **STEEL**

**PKG QTY. 100**
**ALL SCREWS ON THIS PAGE**

B

**ASSORTMENT / ASSORTIMENT 805-531A**

## TAPPING SCREWS

### 32 SIZES - 1000 PIECES

TYPE AB
SQUARE SOCKET OVAL,
FLAT, PAN & TRUSS HEAD













Regular Size grey enamelled steel drawer.

Shipping Wt. **4.39 kg** (9.7 lbs.)




**Page A39**


| Inch Sizes (Approx. metric mm equivalent shown in brackets) | |  80° to 82° ctsk. OVAL |  ▲ROUND |  80° to 82° ctsk. FLAT |  PAN |  TRUSS |
|---|---|---|---|---|---|---|
| DIA. | L. | | | | | |
| 4 (2.9 mm) | 1/4 | | | | 535-A17-1W | |
| | 3/8 | | | ST-255 | 535-A09-1P | ST-294 |
| | 1/2 | | | | 535-002 | ST-295 |
| | 3/4 | | ST-314 | 535-010 | | ST-690 |
| 6 (3.5 mm) | 1/4 | | | | 535-A22-1W | |
| | 5/16 | | | | 535-A05-1W | |
| | 3/8 | | | 535-A02-1N | 535-A35-1P | 535-A33-1X |
| | 1/2 | | | ST-257 | ■ST-275 | 535-A12-1Y |
| | 5/8 | ST-225 | | | ST-276 | 535-A21-1X |
| | 3/4 | 535-A07-1X | | ST-258 | ST-311 | |
| | 1 | ST-227 | | ST-259 | ST-629 | |
| | 1-1/4 | | 535-401 | 535-A29-1W | | 535-003 |
| | 1-1/2 | | | ST-66 | | 535-A34-1A |
| | 2 | | | | 535-A30-1K | |
| 8 (4.2 mm) | 1/4 | | | | 535-A38-1N | |
| | 3/8 | | | 535-A11-1P | 535-A24-1Y | 535-006 |
| | 1/2 | | | ST-260 | 535-A13-2C | 535-A15-1T |
| | 5/8 | ST-228 | | | ST-280 | |
| | 3/4 | ST-229 | | •ST-261 | 535-A01-1C | ST-298 |
| | 1 | ST-231 | | ST-262 | 535-A37-1C | ST-299 |
| | 1-1/4 | | | ST-263 | 535-A27-1T | |
| | 1-1/2 | | | ST-264 | ST-503 | ST-609 |
| | 2 | | | | | ST-628 |
| | 2-1/2 | | | | 535-025 | |
| 10 (4.8 mm) | 3/8 | | | | ST-283 | |
| | 1/2 | ST-233 | | | 535-A36-1Y | 535-A23-1W |
| | 5/8 | | | | ST-285 | 535-A31-1W |
| | 3/4 | ST-234 | | 535-A20-1M | 535-A18-1M | 535-A10-1A |
| | 7/8 | | | | | ST-301 |
| | 1 | ST-235 | | ST-266 | ST-287 | ST-627 |
| | 1-1/4 | ST-236 | | ST-729 | ST-317 | ST-302 |
| | 1-1/2 | | | ST-267 | 535-A26-1N | |
| | 1-3/4 | | | | 535-015 | |
| | 2 | | | 535-A16-1K | ST-482 | |
| 12 (5.5 mm) | 1/2 | | | | ST-288 | |
| | 3/4 | | | ST-268 | 535-A28-1K | 535-A03-1T |
| | 1 | | | | ST-290 | ST-304 |
| | 1-1/4 | | | ST-269 | ST-584 | |
| | 1-1/2 | 535-A32-1M | | | | |
| | 2 | | | | 535-023 | |
| 14 (6.3 mm) | 5/8 | | | | 535-A14-1N | |
| | 3/4 | | | | 535-A04-1K | |
| | 7/8 | | | | ST-292 | |
| | 1 | | | ST-270 | ST-293 | |
| | 1-1/4 | | | | ST-204 | ST-586 |
| | 1-1/2 | | | ST-501 | ST-203 | |
| | 2 | | | | ST-202 | |

■**535-017** Slot/Socket •**535-018** 60° CTSK. ▲Type AB (Slight Flattening of Head Crown may occur due to formation of square socket recess.

**Note:** Type A, as shown, is being replaced by Type AB ("B" fine thread with "A" sharp point). We will furnish Type A until all stock of same is exhausted. Made to IFI Specifications. Finish: Zinc Plated. Type B can be found on B82.




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# 18-8 STAINLESS STEEL

## INCH Sizes

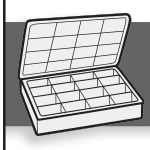
Head/Body & Recess Dimensions to ASME B18.6.3

See page R12 for Technical Information relating to Tapping Screws

| Inch Sizes (Approx. mm equivalent shown in brackets) | |  80° to 82° ctsk. OVAL |  80° to 82° ctsk. FLAT |  PAN | PKG QTY. |
|---|---|---|---|---|---|
| DIA. | L. | | | | |
| 6 (3.5 mm) | 3/8 | | | 536-066 | 100 |
| | 1/2 | 536-024 | 536-A24-1P | 536-001 | |
| | 3/4 | 536-A20-1W | 536-A11-1A | 536-A22-1X | |
| | 1 | 536-026 | 536-038 | 536-003 | |
| 8 (4.2 mm) | 1/2 | | 536-039 | ▲536-A10-1X | |
| | 5/8 | | | 536-073 | |
| | 3/4 | 536-027 | 536-A26-1C | 536-A29-1K | |
| | 1 | 536-A18-1W | 536-A06-1W | 536-005 | 50 |
| | 1-1/4 | 536-029 | 536-A16-1T | 536-A08-1X | |
| | 1-1/2 | 536-A28-1T | 536-043 | 536-A05-1K | |
| | 1-3/4 | | 536-044 | | |
| | 2 | | 536-045 | 536-A19-1M | |
| 10 (4.8 mm) | 1/2 | | 536-046 | 536-009 | 100 |
| | 3/4 | 536-031 | 536-047 | 536-A25-1Y | 50 |
| | 1 | 536-032 | 536-048 | 536-011 | |
| | 1-1/4 | 536-A15-1N | 536-A27-1N | 536-A12-1P | |
| | 1-1/2 | 536-034 | 536-A01-2Y | 536-A09-1A | |
| | 1-3/4 | | 536-051 | | 25 |
| | 2 | 536-035 | 536-052 | 536-A03-1N | |
| | 2-1/2 | | 536-053 | 536-067 | |
| | 3 | | 536-A04-1T | | |
| 12 (5.5 mm) | 3/4 | | | 536-A02-1C | 50 |
| | 1 | | 536-065 | 536-016 | |
| | 1-1/4 | | 536-A07-1M | 536-A23-1A | |
| | 1-1/2 | | 536-056 | 536-A21-1M | 25 |
| | 1-3/4 | | 536-057 | | |
| | 2 | | 536-058 | 536-A14-1C | |
| | 2-1/2 | | 536-059 | | |
| | 3-1/2 | | 536-069 | 536-068 | |
| 14 (6.3 mm) | 3/4 | | | 536-020 | 50 |
| | 1 | | | 536-A17-1K | 25 |
| | 1-1/4 | | 536-060 | | |
| | 1-1/2 | | 536-061 | 536-022 | |
| | 2 | | 536-A13-1Y | 536-023 | |
| | 2-1/2 | | 536-063 | | |
| | 3 | | 536-064 | | |

▲ **536-072** Truss Head

**Note:** Type A, as shown, is being replaced by Type AB ("B" fine thread with "A" sharp point). We will furnish Type A until all stock of same is exhausted.



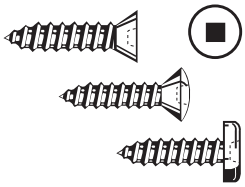
Page A39

ASSORTMENT / ASSORTIMENT **805-530**

## Tapping Screws

**30 SIZES - 690 PIECES**

TYPE AB
SQUARE SOCKET OVAL, FLAT, PAN HEAD



Regular Size grey enamelled steel drawer.
Shipping Wt. **4.19 kg** (9.24 lbs.)





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B

# TORX®

## STAINLESS STEEL, Type 302

*Auto Trim* *Torx Drive*

## METRIC TAPPING SCREWS

**Type AB Thread**

***A "must" for Auto Body Shops***




TAPPING Screws




**4.2 mm** Screw Dia. = #8 Inch Dia.



### *Torx* OVAL HEAD

| *SPAENAUR No.* | Size (mm) Dia. x Lgth. | Finish | PKG QTY. | Driver |
|---|---|---|---|---|
| **541-002** | 4.2 x 16 | Chrome | 50 | Bit Size T15 Driver No. 876-609 |
| **541-003** | 4.2 x 20 | Chrome | 50 | |
| **541-004** | 4.2 x 20 | Black | 50 | |
| **541-005** | 4.2 x 30 | Chrome | 50 | |
| **541-006** | 4.2 x 30 | Black | 50 | |
| **541-007** | 4.2 x 55 | Chrome | 25 | |
| **541-008** | 4.2 x 70 | Chrome | 25 | |
| **541-009** | 4.2 x 70 | Black | 25 | |



### *Torx* PAN HEAD

| *SPAENAUR No.* | Size (mm) Dia. x Lgth. | Finish | PKG QTY. | Driver |
|---|---|---|---|---|
| **541-201** | 4.2 x 13 | Plain | 50 | Bit Size T15 Driver No. 876-609 |
| **541-203** | 4.2 x 20 | Chrome | 50 | |
| **541-204** | 4.2 x 20 | Black | 50 | |
| **541-206** | 4.2 x 20 | Plain | 50 | |
| **541-205** | 4.2 x 25 | Plain | 50 | |
| **541-209** | 4.2 x 35 | Chrome | 25 | |
| **541-211** | 4.2 x 50 | Black | 25 | |

Hardened

# STEEL

## TAPPING SCREWS

### Metric Sizes

STYLE: Type AB ("B" fine thread with "A" sharp point)
FINISH: ZINC PLATED

| *SPAENAUR No.* | Size (mm) Dia. x Lgth. | PKG QTY. | Bit Size | Use Driver No. |
|---|---|---|---|---|
| **540-054** | M2.9 x 9.5 | 100 | T8 | 876-607 |
| **540-055** | M2.9 x 13.0 | 100 | T8 | 876-607 |
| **540-A01-1N** | M4.8 x 19.0 | 100 | T20 | 876-610 |

**PAN HEAD**
**TORX®**



- ***Faster installation***
- ***Stops cam-out***
- ***Bits last longer***

| DIAMETER COMPARISONS | | |
|---|---|---|
| **Metric** | **Inch Gauge** | **Inch Decimal** |
| M2.9 | (#4) | 0.1120 |
| M3.5 | (#6) | 0.1380 |
| M3.9 | (#7) | 0.1510 |
| M4.2 | (#8) | 0.1640 |
| M4.8 | (#10) | 0.1900 |
| M5.5 | (#12) | 0.2160 |
| M6.3 | (#14) | 0.2580 |

**PLASTIKIT «PLASTIKIT» A-5**

**Pan Slot Head**

**TYPE AB TAPPING SCREWS**

**STEEL, Zinc Plated**



**20 SIZES**
**140 PIECES**

**ASSORTMENT ASSORTIMENT B-573**

**Slotted & Phillips Pan Head (Type AB) TAPPING SCREWS All Screws Zinc Plated**

**36 SIZES - 1000 PIECES**

**SPECIAL ASSORTMENT**





**For the complete assortment contents turn to A35**

See page P16 for Torx Drive Screwdrivers





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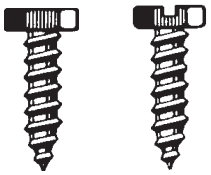
**ASSORTMENT / ASSORTIMENT B-575C**

## SPECIAL ASSORTMENT

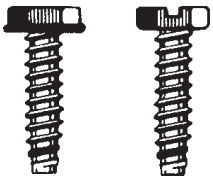
# HEXAGON HEAD TAPPING SCREWS
**Hardened Steel**

**Inch Sizes**

## 36 SIZES - 716 SCREWS



**TYPE AB**



**TYPE B**

Red enamelled, all-steel box.
Hinged lid with illustrated chart.
Smaller screws are in SCOOPED bottom bins for easy removal.

1-1/2" x 10-5/8" x 15-3/4"

Shipping weight: **7.14 kg** (15-3/4 lbs.)




| Name | Spaenaur No. | Thread Diameter | Screw Length | Qty. | Page |
|---|---|---|---|---|---|
| Regular Hex Head Type AB | 525-D37-1Y | 3/8" | 1" | 10 | B89 |
| | 525-D22-1X | 5/16" | 5/8" | 15 | |
| | 525-D23-1A | | 3/4" | 20 | |
| | 2268 | | 1" | 15 | |
| | 2269 | | 1-1/4" | | |
| | ST-616H | #6 | 1/4" | 25 | B88 |
| | 2368 | #8 | 3/8" | | |
| | 2389 | | 1/2" | | |
| | 2388 | #10 | 5/8" | 20 | B89 |
| | 1780 | #12 | 1/2" | 25 | |
| | 2012 | #14 | | | |
| | 2179 | | 5/8" | | |
| | ST-622H | | 3/4" | | B89 |
| | 525-152 | | 1-1/2" | 15 | |
| Slotted Hex Head Type B | B-1098 | #6 | 1/4" | 25 | B88 |
| | 525-D04-1T | #8 | 5/16" | | |
| | 2011 | #10 | 1/2" | 20 | |
| Hex Washer Head Type AB | 525-D24-1P | #8 | 3/4" | 25 | B88 |
| | 2369 | #10 | 1/2" | 20 | B89 |
| | 2330 | #14 | 3/4" | 25 | |
| | 525-D07-1M | | 5/8" | | |
| | 525-D11-1A | | 1" | | |
| | 525-163 | | 1-1/4" | 20 | |
| Hex Washer Head Type B | T-60 | #10 | 1" | 15 | |
| | ST-85H | #14 | 9/16" | 25 | |
| Slot Hex Washer Head Type AB | ST-625H | #12 | 3/4" | | |
| ACME Thread | 1916 | 5/16" | 7/8" | 15 | |
| Slotted Hex Head Type A | 525-D01-1Y | #8 | 1/2" | 25 | B88 B94 |

| Name | Spaenaur No. | Thread Size | Screw Length | Qty. | Page |
|---|---|---|---|---|---|
| Indented Hex Head Type 1 | 2013 | 1/4"-20 | 3/4" | 15 | |
| | 491-P31-1X | 5/16"-18 | 1" | | B98 |
| | 491-P10-1Y | 3/8"-16 | | 10 | |
| Indented Hex Washer Head Type 1 | 491-P03-2W | 1/4"-20 | 1/2" | 25 | |
| | 491-P22-1Y | 5/16"-18 | | 15 | |
| | 491-P06-1A | | 5/8" | 6 | |
| | B-1063 | 3/8"-16 | | 15 | |
| | 491-P05-2X | #10 - 24 | | | |



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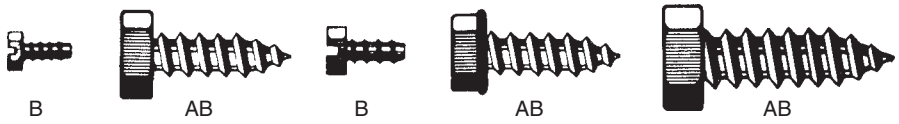


B

Hardened

# STEEL

## TAPPING SCREWS




**TYPE AB**
**TYPE B**
**INDENTED HEXAGON HEAD**



**TYPE AB**



**NOTE:** Type AB replaces Type A. Most sizes are supplied Type AB but for some sizes, Type A will be furnished until stock is exhausted.

**FINISHES:** ALL SCREWS - ZINC PLATED

**PACKING:** Contact Sales Desk For Package Quantities

**ORDER:** By SPAENAUR NUMBERS from the following master chart.

**Made to ASME B18.6.3**

| Inch Sizes (Approx. Metric mm equivalent shown in brackets.) | |  | |  | |  | |  | |  | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SIZE** | | **REGULAR HEXAGON HEAD TYPE AB** | | **HEXAGON WASHER HEAD TYPE AB** | | **SLOTTED HEX. WASHER HEAD TYPE AB** | | **SLOTTED HEXAGON HEAD TYPE B** | | **HEXAGON WASHER HEAD TYPE B** | |
| **DIA.** | **L.** | ***SPAENAUR No.*** | Hex Width | ***SPAENAUR No.*** | Hex Width | ***SPAENAUR No.*** | Hex Width | ***SPAENAUR No.*** | Hex Width | ***SPAENAUR No.*** | Hex Width |
| **4** (2.9 mm) | 1/4 | | | | | | | | | **525-172** Slotted Head | 3/16 |
| **6** (3.5 mm) | 1/4 | **ST-616H** | 1/4 | | | | | **B-1098** | 1/4 | | |
| | 3/8 | | | **525-156** | 1/4 | **ST-372H** | 1/4 | **B-1519** | 1/4 | | |
| | 1/2 | | | **525-D36-1P** | 1/4 | **ST-373H** | 1/4 | **B-1520** | 1/4 | | |
| | 5/8 | | | **525-143** | 1/4 | **ST-374H** | 1/4 | | | | |
| | 3/4 | | | | | **525-D27-1N** | 1/4 | | | | |
| | 1 | | | **525-153** | 1/4 | **ST-377H** | 1/4 | | | | |
| **8** (4.2 mm) | 5/16 | | | | | | | **525-D04-1T** | 1/4 | ▲**525-D09-2A** | 1/4 |
| | 3/8 | **2368** | 1/4 | | | **525-D03-1N** | 1/4 | | | **525-002** | 1/4 |
| | 1/2 | | | **525-151** | 1/4 | **525-D01-1Y** | 1/4 | **ST-6H** | 1/4 | **525-D17-1K** | 1/4 |
| | 5/8 | | | | | **ST-379H** | 1/4 | | | | |
| | 3/4 | | | **525-D24-1P** | 1/4 | **525-D19-1M** | 1/4 | | | | |
| | 7/8 | | | | | **ST-381H** | 1/4 | | | | |
| | 1 | | | **525-D16-1T** | 1/4 | **ST-382H** | 1/4 | | | | |
| | 1-1/4 | | | **ST-574H** | 1/4 | **ST-383H** | 1/4 | | | | |
| | 1-1/2 | | | **525-145** | 1/4 | **ST-469H** | 1/4 | | | | |

▲ Slotted Head


For Automotive and other Specialty Screws and Bolts see Pages B117-B124

See page B94 for Type A Threads





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**Hardened**
# STEEL

## INDENTED HEXAGON HEAD TAPPING SCREWS TYPE AB TYPE B

**NOTE:** Type AB replaces Type A. Most sizes are supplied Type AB but for some sizes, Type A will be furnished until stock is exhausted.

**ZINC PLATED**
ASME B18.6.3








| INCH SIZES (Approx. Metric mm equivalent shown in brackets) | | REGULAR HEXAGON HEAD TYPE AB | | SLOTTED HEXAGON HEAD TYPE AB | | HEXAGON WASHER HEAD TYPE AB | | SLOTTED HEX. WASHER HEAD TYPE AB | | SLOTTED HEXAGON HEAD TYPE B | | HEXAGON WASHER HEAD TYPE B | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **DIA.** | **L.** | ***SPAENAUR No.*** | Hex Width | ***SPAENAUR No.*** | Hex Width | ***SPAENAUR No.*** | Hex Width | ***SPAENAUR No.*** | Hex Width | ***SPAENAUR No.*** | Hex Width | ***SPAENAUR No.*** | Hex Width |
| **10** (4.8 mm) | 3/8 | | | | | **ST-47H** | 5/16 | **ST-384H** | 5/16 | **ST-7H** | 5/16 | **525-D14-1C** (slotted) | 5/16 |
| | 3/8 | | | | | | | | | | | **525-D18-1D** | 5/16 |
| | 1/2 | | | | | **2369** | 5/16 | **ST-385H** | 5/16 | **525-D30-1T** | 5/16 | | |
| | 5/8 | **2388** | 5/16 | | | **525-D33-1M** | 5/16 | **ST-386H** | 5/16 | | | | |
| | 3/4 | **ST-31H** | 5/16 | **525-165** | 5/16 | **525-159** | 5/16 | **ST-387H** | 5/16 | | | | |
| | 7/8 | | | | | | | **ST-388H** | 5/16 | | | | |
| | 1 | | | | | **ST-637H** | 5/16 | **525-D10-1X** | 5/16 | | | **T-60** | 5/16 |
| | 1-1/4 | | | | | **525-D31-1K** | 5/16 | **ST-390H** | 5/16 | | | | |
| | 1-1/2 | | | | | | | **ST-391H** | 5/16 | | | | |
| | 2 | | | | | **525-155** | 5/16 | | | | | | |
| **12** (5.5 mm) | 1/2 | **1780** | 5/16 | | | | | **ST-392H** | 5/16 | | | | |
| | 5/8 | | | | | | | **ST-393H** | 5/16 | | | | |
| | 3/4 | **525-D32-1W** | 5/16 | | | | | **ST-394H** | 5/16 | | | | |
| | 7/8 | | | | | | | **ST-395H** | 5/16 | | | | |
| | 1 | **ST-350H** | 5/16 | | | | | **ST-396H** | 5/16 | | | | |
| | 1-1/4 | | | | | | | **ST-397H** | 5/16 | | | | |
| | 1-1/2 | | | **ST-500H** | 5/16 | | | **ST-398H** | 5/16 | | | | |
| | 2 | **525-166** | 5/16 | | | | | **525-167** | 5/16 | | | | |
| **14** (6.3 mm) | 1/2 | **2012** | 3/8 | | | **525-D05-1K** | 3/8 | **525-173** | 3/8 | | | **2329** | 3/8 |
| | 5/8 | | | | | **525-D07-1M** | 3/8 | | | | | **ST-163H** | 3/8 |
| | 3/4 | **ST-622H** | 3/8 | | | **2330** | 3/8 | | | **ST-478H** (unslotted) | 3/8 | **ST-474H** | 3/8 |
| | 3/4 | | | | | **525-D28-1T** | 7/16 | | | | | | |
| | 1 | | | | | **525-D11-1A** | 7/16 | | | | | | |
| | 1 | | | | | **525-D02-1C** | 3/8 | | | | | | |
| | 1-1/4 | | | | | **525-163** | 3/8 | | | | | | |
| | 1-1/2 | | | | | **ST-367H** | 7/16 | **525-169** | 3/8 | | | | |
| | 1-1/2 | **525-152** | 3/8 | | | **525-164** | 3/8 | | | | | | |
| | 1-3/4 | **525-D21-1M** | 7/16 | | | | | | | | | | |
| | 2 | **525-150** | | | | **525-161** | 3/8 | | | | | | |
| **5/16"** (8.0 mm) | 5/8 | **525-D22-1X** | 1/2 | | | **525-D15-1N** | 1/2 | | | | | | |
| | 3/4 | **525-D23-1A** | 1/2 | | | **525-D13-1Y** | 1/2 | **525-D26-1C** | 1/2 | | | | |
| | 7/8 | **525-D25-1Y** | 1/2 | | | | | | | | | | |
| | 1 | **2268** | 1/2 | | | **525-D08-1X** | 1/2 | | | | | | |
| | 1-1/4 | **2269** | 1/2 | | | **525-D35-1A** | 1/2 | | | | | | |
| | 1-1/2 | **ST-86H** | 1/2 | | | **525-D34-1X** | 1/2 | | | | | | |
| | 2 | **525-D12-1P** | 1/2 | | | | | | | | | | |
| **3/8"** (9.5 mm) | 1 | **525-D37-1Y** | 9/16 | | | | | | | | | | |
| | 1-1/2 | **ST-361H** | 9/16 | | | | | | | | | | |
| | 1-3/4 | **525-D20-1W** Type AB Thread | 9/16 | | | | | | | | | | |

**Contact Sales Desk For Package Quantities**



See pages R13 & R14 for "DRILL and HOLE SIZE" CHART.

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



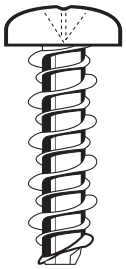
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Type H-L (high-low) Self-Tapping Screws are double-lead, thread-forming fasteners with a unique high and low thread design. The thread design increases resistance to pull-out, and prevents workpiece damage. **For use in wood, particle board, and plastics.** (Do not use in steel.)

B

# Self-Tapping Screws Type H-L

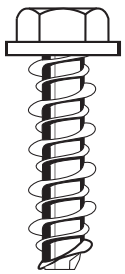
## Hardened Steel Zinc Plated *Phillips* Pan Head



| DIA. | 4 | 6 | 8 | 10 |
|---|---|---|---|---|
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | |
| 1/4" | **530-B11-1P** | **530-104** | **530-B33-1X** | |
| 5/16" | **530-101** | ***530-105** | | |
| 3/8" | | **530-B01-1C** | **530-109** | |
| 1/2" | **530-B43-1W** | **530-B07-1X** | **530-B17-1W** | **530-B73-1P** |
| 5/8" | | **530-B64-1N** | | |
| 3/4" | | | **530-111** | |

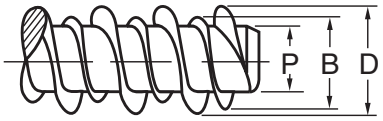
***530-B88-1N** Black Oxide Finish

## *Unslotted* Hex Washer Head



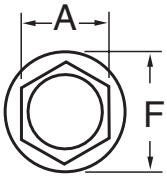
| DIA. | 4 | 6 | 8 | 10 |
|---|---|---|---|---|
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | |
| 1/4" | **525-100** | **525-104** | **525-108** | |
| 5/16" | **525-101** | **525-105** | | |
| 3/8" | **525-102** | **525-106** | **525-109** | **525-112** |
| 1/2" | **525-103** | **525-107** | **525-110** | **525-113** |
| 5/8" | | | | **525-114** |
| 3/4" | | | **525-111** | **525-D29-1K** |

## Specifications



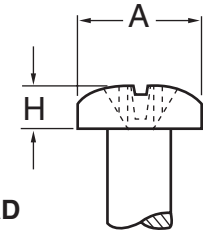

**HIGH-LOW THREAD**

| Nominal Diameter and Thread | D High Thread Diameter | B Low Thread Diameter | P Point Diameter |
|---|---|---|---|
| **4**-24 | .105-.115 | .086 | .061-.070 |
| **6**-19 | .135-.145 | .108 | .080-.090 |
| **8**-18 | .160-.170 | .130 | .095-.105 |
| **10**-16 | .185-.195 | .145 | .099-.110 |




**UNSLOTTED HEX WASHER HEAD**

| Nom. Size | A Width Across Flats Max. | A Width Across Flats Min. | F Diameter of Washer Max. | F Diameter of Washer Min. |
|---|---|---|---|---|
| **4** | .125 | .120 | .177 | .163 |
| **6** | .188 | .181 | .260 | .240 |
| **8** | .250 | .244 | .328 | .302 |
| **10** | .250 | .244 | .348 | .322 |




**PAN HEAD**

| A Diameter of Head Max. | A Diameter of Head Min. | H Height of Head Recessed Max. | H Height of Head Recessed Min. |
|---|---|---|---|
| .193 | .180 | .071 | .062 |
| .254 | .240 | .097 | .087 |
| .270 | .256 | .097 | .087 |
| .322 | .306 | .115 | .105 |



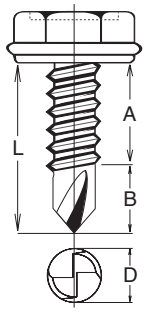
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# 410 STAINLESS STEEL SELF-DRILLING FASTENERS

HARDENED

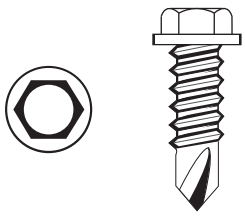
Thread and Point Dimensions to IFI-113

**HEX WASHER HEAD**




**PKG QTY. 100**

| *SPAENAUR No.* | NOMINAL SIZE | L Length Under Hd. | A Thread Length | B Pilot Length | D Point Dia. | Point Style | Hex Width | Material Penetration Range (Inches) |
|---|---|---|---|---|---|---|---|---|
| **508-800** | 6-20 x 3/8" | 3/8" | 15/64" | 9/64" | .107/.105" | 2 | 1/4" | .035-.090 |
| **508-T07-1C** | 6-20 x 1/2" | 1/2" | 23/64" | 9/64" | | 2 | | .035-.090 |
| **508-T17-1P** | 8-18 x 1/2" | 1/2" | 11/32" | 5/32" | | 2 | | .035-.100 |
| **508-803** | 8-18 x 5/8" | 5/8" | 15/32" | 5/32" | .126/.124" | 2 | 1/4" | .035-.100 |
| **508-T11-1T** | 8-18 x 3/4" | 3/4" | 19/32" | 5/32" | | 2 | | .035-.100 |
| **508-805** | 8-18 x 1" | 1" | 27/32" | 5/32" | | 2 | | .035-.100 |
| **508-T04-1A** | 8-18 x 1-1/4" | 1-1/4" | 1-3/32" | 5/32" | .126/.124" | 2 | 1/4" | .035-.100 |
| **508-T19-1C** | 8-18 x 1-1/2" | 1-1/2" | 1-11/32" | 5/32" | | 2 | | .035-.100 |
| **508-808** | 10-16 x 1/2" | 1/2" | 19/64" | 13/64" | | 2 | | .035-.110 |
| **508-T14-1M** | 10-16 x 5/8" | 5/8" | 27/64" | 13/64" | .145/.143" | 2 | 5/16" | .035-.110 |
| **508-T03-1X** | 10-16 x 3/4" | 3/4" | 35/64" | 13/64" | | 2 | | .035-.110 |
| **508-T10-1N** | 10-16 x 1" | 1" | 51/64" | 13/64" | | 2 | | .035-.110 |
| **508-T06-1Y** | 10-16 x 1-1/4" | 1-1/4" | 1-3/64" | 13/64" | .145/.143" | 2 | 5/16" | .035-.110 |
| **508-813** | 10-16 x 1-1/2" | 1-1/2" | 1-19/64" | 13/64" | | 2 | | .035-.110 |
| **508-T08-1N** | 12-14 x 3/4" | 3/4" | 33/64" | 15/64" | .179/.175" | 3 | 5/16" | .110-.210 |
| **508-T12-1K** | 12-14 x 1" | 1" | 49/64" | 15/64" | | 3 | | .110-.210 |
| **508-T15-1X** | 1/4"-14 x 3/4" | 3/4" | 29/64" | 19/64" | | 3 | | .110-.250 |
| **508-T16-1A** | 1/4"-14 x 1" | 1" | 45/64" | 19/64" | .207/.203" | 3 | 3/8" | .110-.250 |
| **508-T18-1Y** | 1/4"-14 x 1-1/4" | 1-1/4" | 61/64" | 19/64" | | 3 | | .110-.250 |
| **508-T05-1P** | 1/4"-14 x 1-1/2" | 1-1/2" | 1-13/64" | 19/64" | .207/.203" | 3 | 3/8" | .110-.250 |
| **508-T09-1T** | 1/4"-14 x 2" | 2" | 1-45/64" | 19/64" | | 3 | | .110-.250 |



## Self - Drilling Screw *Aluminum*

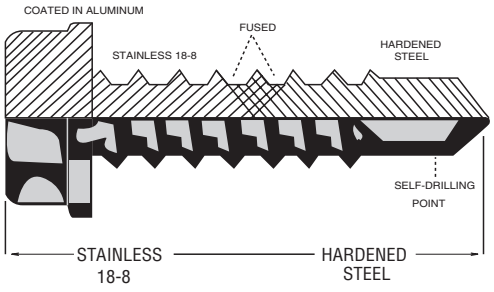
*7075-T6 Alloy/Etched Finish*

**Hex Washer Head**

**PKG QTY. 100**

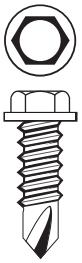
| *SPAENAUR No.* | Nominal Size |
|---|---|
| **508-300** | 8-18 x 1/2" |
| **508-301** | 8-18 x 3/4" |
| **508-302** | 8-18 x 1" |
| **508-303** | 10-16 x 1/2" |
| **508-305** | 10-16 x 3/4" |

## *MULTI-METAL SELF-DRILLING SCREWS* *Fusing the maximum corrosion resistance of a stainless 18-8 screw with the power of a hardened steel drill point.*




**PKG QTY. 100**

### Hex Washer Head



| *SPAENAUR No.* | Nominal Size |
|---|---|
| **508-821** | 8-18 x 1/2" |
| **508-822** | 8-18 x 3/4" |
| **508-823** | 8-18 x 1" |
| **508-824** | 10-16 x 3/4" |
| **508-825** | 10-16 x 1" |
| **508-826** | 12-14 x 3/4" |
| **508-827** | 1/4"-14 x 1" |

### Phillips Pan Head



| *SPAENAUR No.* | Nominal Size |
|---|---|
| **508-828** | 8-18 x 1/2" |
| **508-829** | 8-18 x 3/4" |
| **508-831** | 10-16 x 3/4" |
| **508-832** | 10-16 x 1" |

**MULTI-METAL SELF-DRILLING SCREWS: Material Length & Drilling Capacity**

| SCREW SIZE | MINIMUM LENGTH UNDER HEAD | MINIMUM LENGTH STAINLESS 18-8 PART | MINIMUM LENGTH STEEL POINT AND ATTACHMENT AREA | MAXIMUM DRILLING CAPACITY |
|---|---|---|---|---|
| #8 | 1/2" | .275" | .236" | .091" |
| #10 | 3/4" | .335" | .413" | .126" |
| #12 | 3/4" | .394" | .354" | .126" |
| #14 | 1" | .413" | .571" | .177" |

Multi-Metal Self-Drilling Screws have a remarkable steel point that can drill their own holes in hardened steel. The drilling capacity is dictated by the minimum length under the head of each screw size (see chart). They are also coated in aluminum offering superior corrosion resistance.



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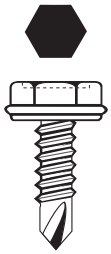
**ASSORTMENT / ASSORTIMENT 805-532**

# TEKS®
# SELF-DRILLING SCREWS

## Carbon Steel Hardened
## Plated

## 26 SIZES
## 575 PIECES

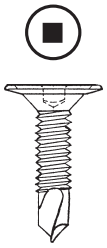


Hex Washer Hd.



Sq. Socket Pan Hd.
Phillips Pan Hd.



Sq. Socket Wafer Hd.

| Head Type | Thread Size | Spaenaur No. | Screw Length | Qty. | Page |
|---|---|---|---|---|---|
| Hex Washer | #8-18 | **ST-668H** | 1/2" | 25 | B93 |
| | | **508-013** | 3/4" | | |
| | #10-16 | **508-001** | 1/2" | | |
| | | **508-014** | 5/8" | | |
| | | **508-005** | 3/4" | | |
| | | **508-006** | 1" | | |
| | #12-14 | **508-007** | 3/4" | | |
| | | **508-018** | 1" | | |
| | | **508-019** | 1-1/2" | | |
| | | **508-020** | 2" | 15 | |
| | 1/4"-14 | **508-008** | 3/4" | | |
| | | **508-021** | 1" | | |
| | | **508-022** | 1-1/2" | | |
| | | **508-023** | 2" | | |
| Square Socket Pan Head | #6-20 | **508-101** | 1/2" | 50 | |
| | #8-18 | **ST-727T** | | 25 | |
| | | **508-102** | 5/8" | | |
| | | **508-103** | 3/4" | | |
| | | **508-104** | 1" | | |
| | #10-16 | **508-105** | 1/2" | 20 | |
| | | **508-106** | 3/4" | | |
| | | **508-107** | 1" | 15 | |
| | | **508-108** | 1-1/4" | | |
| Square Socket Wafer Head | #10-24 | **508-T20-1Y** | 3/4" | 20 | |
| | | **508-011** | 1-1/4" | | |
| | #11-16 | **508-403** | 3/4" | 15 | |

Furnished in a REGULAR SIZE grey enamelled steel drawer that will fit slide racks shown on page A2

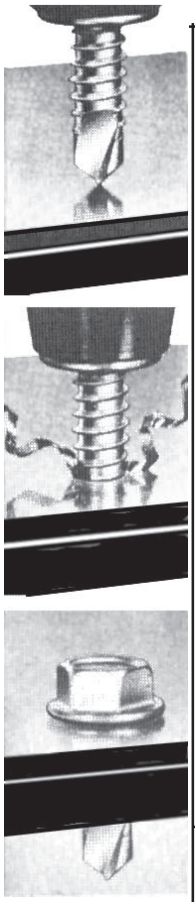
Shipping Weight **4.03 kg** (8.88 lbs.)



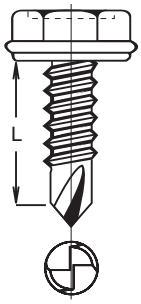

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## OF CARBON STEEL - HARDENED



### HEX WASHER HEAD




**CLIMASEAL®**

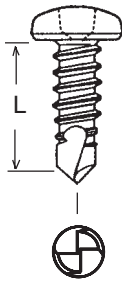
- Compatible with painted or metal surfaces.
- Attractive silver grey finish.
- Provides long-term corrosion protection.
- Outperforms existing mechanical and electro-platings.

**ZINC PLATED** (with clear chromate finish)
**and CLIMASEAL® CORROSION RESISTANT COATING**

**PKG QTY. 100**
**All Items on this page.**

| | *SPAENAUR No.* | Nom. Size Dia. x Pitch x L (length under hd.) | TEKS Point | Drill & Tap Capacity | Max. Material Attachment | Hex. Width |
|---|---|---|---|---|---|---|
| Zinc Plated | **ST-668H** | 8-18 x 1/2" | 2 | .036-.100" | .205" | 1/4" |
| | **508-T22-1N** | 8-18 x 5/8" | 2 | .036-.100" | .330" | 1/4" |
| | **508-013** | 8-18 x 3/4" | 2 | .036-.100" | .455" | 1/4" |
| | **508-001** | 10-16 x 1/2" | 3 | .036-.175" | .150" | 5/16" |
| | **508-014** | 10-16 x 5/8" | 3 | .036-.175" | .200" | 5/16" |
| | **508-006** | 10-16 x 1" | 3 | .036-.175" | .575" | 5/16" |
| Climaseal® | **508-005** | 10-16 x 3/4" | 3 | .036-.175" | .325" | 5/16" |
| | **508-007** | 12-14 x 3/4" | 3 | .036-.210" | .290" | 5/16" |
| | **508-024** | 12-24 x 7/8" | 4 | .125-.250" | .325" | 5/16" |
| | **508-018** | 12-14 x 1" | 3 | .036-.210" | .525" | 5/16" |
| | **508-019** | 12-14 x 1-1/2" | 2 | .036-.210" | .810" | 5/16" |
| | **508-020** | 12-14 x 2" | 3 | .036-.210" | 1.525" | 5/16" |
| | **508-008** | 1/4"-14 x 3/4" | 3 | .036-.210" | .210" | 3/8" |
| | **508-021** | 1/4"-14 x 1" | 3 | .036-.210" | .460" | 3/8" |
| | **508-022** | 1/4"-14 x l-1/2" | 3 | .036-.210" | .960" | 3/8" |
| | **508-023** | 1/4"-14 x 2" | 3 | .036-.210" | 1.460" | 3/8" |

### SQUARE SOCKET PAN HEAD
**Zinc Plated**




**Phillips PAN**



**PAN HEAD** (SQUARE-RECESSED SOCKET)

| | | | | | Driver |
|---|---|---|---|---|---|
| **508-101** | 6-20 x 1/2" | 2 | .036-.100" | .225" | #2 |
| **ST-727T** | 8-18 x 1/2" | 2 | .036-.100" | .205" | #2 |
| ***508-T13-1W** | 8-18 x 1/2" | 2 | .035-.100" | — | #2 |
| **508-102** | 8-18 x 5/8" | 2 | .036-.100" | .330" | #2 |
| **508-103** | 8-18 x 3/4" | 2 | .036-.100" | .455" | #2 |
| **508-104** | 8-18 x 1" | 2 | .036-.100" | .705" | #2 |
| **508-105** | 10-16 x 1/2" | 3 | .036-.175" | .150" | #2 |
| **508-106** | 10-16 x 3/4" | 3 | .036-.175" | .325" | #2 |
| **508-107** | 10-16 x 1" | 3 | .036-.175" | .575" | #2 |
| **508-108** | 10-16 x 1-1/4" | 3 | .036-.175" | .825" | #2 |

**PAN HEAD** (PHILLIPS CROSS-RECESS)

| | | | | | |
|---|---|---|---|---|---|
| ***508-200** | 8-18 x 1/2" | 2 | .035-.100 | .170" | #2 |

*(Not Teks ® Screws)

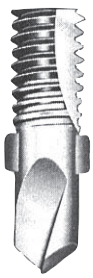
✦ Reamer Teks (see below)

Use this style to fasten plywood to Low Carbon Steel or Aluminum.

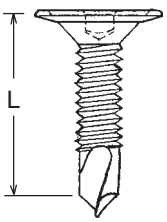
Wings break off when the point pierces the metal.

See No's.
**508-400**
**508-T21-1C**
**508-T01-1W**

**✦REAMER TEKS POINT**



**SQ. SOCKET WAFER HEAD**
**Zinc Plated**




**WAFER HEAD** (SQUARE RECESSED SOCKET)

| | | | | | | Head Dia. |
|---|---|---|---|---|---|---|
| **508-T20-1Y** | 10-24 x 3/4" | 3 | .036-.175" | .350" | #2 | 15/32" |
| **508-011** | 10-24 x 1-1/4" | 3 | .036-.175" | .750" | #2 | 15/32" |
| **✦508-400** | 10-24 x 1-7/16" | 3 | .036-.175" | .750" | #2 | 15/32" |
| **508-403** | 11-16 x 15/16" | 3 | .036-.175" | .430" | #2 | 15/32" |
| **✦508-T21-1C** | 12-24 x 2" | 4 | .125-.250" | 1.000" | #3 | 17/32" |
| **✦508-T01-1W** | 12-24 x 2-5/8" | 4 | .125-.250" | 1.500" | #3 | 17/32" |



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B

## STAINLESS STEEL

**TAPPING SCREW ASSEMBLIES**



Neo-bond Washer



**TYPE "B"**
Fluted

| *SPAENAUR No.* | SIZE | SCREW TYPE | WASHER STYLE | WASHER O.D. | S.S. TYPE |
|---|---|---|---|---|---|
| **465-K01-2M** | 14 x 1-1/2" | AB | Neo-bond | 15mm | 304 |
| **465-K09-1K** | 14 x 1-1/2" | A | Neo-bond | 3/4" | 304 |
| ***465-K10-1T** | 14 x 2" | B Fluted | Neo-bond | 5/8" | 18-8 |
| **465-K05-1Y** | 17 x 3" | B Fluted | Neo-bond | 15mm | 304 |
| **465-K07-2N** | 14 x 4" | B Fluted | Neo-bond | 15mm | 18-8 |

*Not plated

**All above fasteners have 3/8" width across flats.**
Fasteners are cad. plated for extra protection.

**PKG QTY. 100**



**"TEKS" SELF-DRILLING HEX WASHER HD.**

## CONSTRUCTION FASTENERS

**Carbon Steel - Case Hardened - Mechanical Zinc with Oxyseal Coating**
**Assembled with Neo-bond Sealer Washers**
**PKG QTY. 100**

| *SPAENAUR No.* | A/F | Size | Grip |
|---|---|---|---|
| **464-A02-1A** | 5/16" | 12 x 1" | 3/8" |

With special long point for overlap structural applications.

| | | | |
|---|---|---|---|
| ***464-112** | 3/8" | 14 x 1" | 7/16" |
| ***464-A03-1P** | 3/8" | 14 x 1-1/2" | 7/8" |

*TEKS No. 3 point

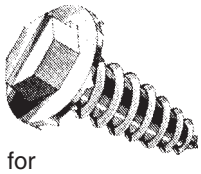
## MASTER SEAL™ WASHERS



**Used with Round, Pan, or Hex Head Screws - as a Weather Seal Fastener.**

Shown on page D71.

**More sealing washers, on same page.**



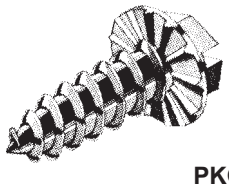
Used as tire studs for motorcycle ice racing.

## SELF TAPPING SCREWS

Slotted, Hex-Washer Head
"Lo-Root" style. Serrated.

**525-148** **10 x 1/2" x 1/4" A.F.**

**Hardened Steel - Zinc Plated**



**PKG QTY. 100**

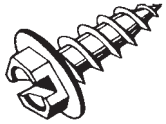
**ASME B18.6.4**

## SELF-TAPPING SCREWS

**Indented Slotted Hex-Washer Head, Tapping Screws, Type A**
**Carbon Steel - Case Hardened, Bright Zinc Plated.**



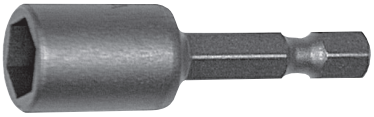
**Needle-nose Point**



| *SPAENAUR No.* | Size | Hex Width | PKG QTY. |
|---|---|---|---|
| **525-D01-1Y** | 8 x 1/2" | 1/4 | 100 |
| **ST-328H** | 10 x 1/2" | 1/4 | 100 |

### MAGNETIC DRIVER

**Fits any standard 1/4" Electric Drill.**



See page P13 for more drivers.

| | | |
|---|---|---|
| **T-208A** | For 1/4" A/F | (Drives all screws shown at left.) |
| **T-208B** | For 5/16" A/F | |
| **876-198** | For 3/8" A/F | |
| **876-199** | For 7/16" A/F | |

**PKG QTY. 1**



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# Thread Cutting Screws - Slot/Phillips/Square/Socket Drive

## Vis autotaraudeuses taillant le filet – tête fendue/cruciforme/carrée/creuse

**Case-Hardened**

# STEEL

**Zinc Plated**

**Contact Sales Desk For Package Quantities**

See page R12 for SELECTOR GUIDE

## VARIOUS TYPES & HEAD STYLES



| *SPAENAUR No.* | Size | Drive and Head Style | Type |
|---|---|---|---|
| **ST-714P** | 2-56 x 1/4" | Phillips Flat | F |
| **492-C17-1C** | 2-56 x 1/4" | Phillips Pan | F |
| **492-C08-1K** | 4-40 x 3/16" | Phillips Binding | F |
| **492-C12-1M** | 4-40 x 1/4" | Phillips Pan | F |
| **492-C44-1N** | 4-40 x 1/4" | Socket Pan | F |
| **ST-621** | 4-40 x 1/4" | Slot Pan | F |
| **ST-610** | 4-40 x 5/16" | Slot Pan | F |
| **ST-676** | #4 x 5/16" | Slot Pan | 25 |
| **492-079** | 4-40 x 3/8" | Socket/Slot Round | F |
| **492-070** | 4-40 x 5/8" | Phillips Pan | F |
| **492-071** | #5 x 5/8" | Phillips Flat (Black Zinc) | 25 |
| **ST-477P** | 6-32 x 1/4" | Phillips Pan | 1 |
| **492-081** | 6-32 x 1/4" | Phillips Pan | F |
| **ST-308** | 6-32 x 1/4" | Socket Pan | F |
| **492-C03-1P** | 6-32 x 3/8" | Phillips Truss | 1 |
| **ST-184P-BZ** | 6-32 x 3/8" | Phillips Truss (Black Zinc) | 1 |
| **ST-623** | 6-32 x 3/8" | Slot Pan | F |
| **ST-667** | #6 x 3/8" | Slot Pan | 25 |
| **492-C25-1A** | #6 x 3/8" | Socket Pan | 25 |
| **492-C15-2P** | 6-32 x 3/8" | Phillips Round | 1 |
| **ST-678** | 6-32 x 3/8" | Socket Pan | 1 |
| **492-C11-2W** | 6-32 x 3/8" | Socket Flat | F |
| **ST-399P** | 6-32 x 1/2" | Phillips Pan | F |
| **ST-185P** | 6-32 x 1/2" | Phillips Truss | 1 |
| **492-C38-1A** | 6-32 x 1/2" | Socket Fillister | 1 |
| **ST-562P** | 6-32 x 5/8" | Phillips Pan | 1 |
| **492-C31-1C** | 6-32 x 7/8" | Socket Binding | 1 |
| **492-122** | 6-32 x 7/8" | Phillips Pan | F |
| **492-C42-1Y** | 8-32 x 1/4" | Phillips Round | 1 |
| **492-121** | 8-32 x 5/16" | Phillips Truss | 1 |
| **492-C13-1X** | 8-32 x 5/16" | Phillips Truss | F |
| **ST-84P** | #8 x 3/8" | Phillips Binding | 25 |
| **492-C34-1K** | 8-32 x 3/8" | Phillips Pan | 1 |
| **ST-493P** | 8-32 x 3/8" | Phillips Truss | 1 |
| **492-C10-1K** | 8-32 x 7/16" | Phillips Flat | F |
| **ST-90P** | 8-32 x 7/16" | Phillips Flat | 23 |
| **492-C39-1P** | 8-32 x 1/2" | Phillips Oval | 1 |
| **492-C19-1T** | 8-32 x 1/2" | Phillips Pan | 1 |
| **492-C26-2A** | 8-32 x 1/2" | Socket Pan | F |
| **492-075** | 8-32 x 1/2" | Phillips Pan (Parkerize Finish) | 1 |

Continues on next column

| *SPAENAUR No.* | Size | Drive and Head Style | Type |
|---|---|---|---|
| **492-074** | 8-32 x 3/4" | Phillips Flat | 1 |
| **ST-619P** | 8-32 x 3/4" | Phillips Fillister | F |
| **492-C27-1P** | 8-32 x 3/4" | Phillips Pan | F |
| **ST-66P** | 8-32 x 7/8" | Phillips Round | 1 |
| **492-C21-1T** | 8-32 x 1" | Socket Pan | F |
| **492-C29-1C** | 8-32 x 1-1/4" | Phillips Pan | 1 |
| **ST-618P** | 8-32 x 1-1/4" | Phillips Fillister | F |
| **ST-675** | 10-24 x 5/16" | Slot Pan | F |
| **492-C43-1C** | 10-24 x 5/16" | Socket/Slot Pan (Black Phosph.) | F |
| **492-C24-1X** | 10-24 x 3/8" | Phillips Truss | 1 |
| **ST-330** | 10-24 x 1/2" | Socket Pan | 1 |
| **ST-485** | 10-24 x 1/2" | Socket Pan | 23 |
| **492-C45-1T** | 10-24 x 1/2" | Phillips Truss | 23 |
| **492-C07-1T** | 10-24 x 1/2" | Socket Round | F |
| **ST-265** | 10-24 x 3/4" | Socket Round | F |
| **492-C18-1N** | 10-24 x 3/4" | Phillips Pan | F |
| **ST-596P** | 10-32 x 1/2" | Phillips Oval | 1 |
| **ST-207P** | 10-32 x 1/2" | Phillips Truss | 1 |
| **492-083** | 10-32 x 1/2" | Phillips Truss | 23 |
| **492-C16-1Y** | 10-32 x 1/2" | Socket Round | F |
| **492-C04-1Y** | 10-32 x 5/8" | Phillips Pan | 1 |
| **492-C09-1W** | 10-32 x 5/8" | Socket Flat | 23 |
| **492-C06-1N** | 10-32 x 1" | Phillips Flat | F |
| **492-C20-1N** | 10-32 x 1" | Socket Pan | F |
| **492-C40-1A** | 10-32 x 1-1/2" | Phillips Flat | F |
| **492-C41-1P** | 12-24 x 1/2" | Phillips Flat (Undercut) | F |
| **ST-681P** | 1/4"-20 x 5/8" | Phillips Flat | F |
| **492-C14-1A** | 1/4"-20 x 5/8" | Socket Round | 1 |
| **492-C32-1N** | 1/4"-20 x 3/4" | Phillips Round | 1 |
| **492-C02-1A** | 1/4"-20 x 1" | Phillips Truss | F |
| **492-C35-1W** | 1/4"-20 x 1" | Phillips Oval | F |
| **ST-472P** | 1/4"-20 x 1-1/4" | Phillips Pan | F |
| **492-C33-1T** | 1/4"-20 x 1-1/2" | Socket Flat | F |
| **492-C30-1Y** | 1/4"-20 x 1-1/2" | Phillips Round | 23 |
| **492-123** | 1/4"-20 x 1-1/2" | Phillips Pan | 23 |
| **ST-221** | 1/4"-20 x 2" | Socket Flat | F |
| **ST-222** | 1/4"-20 x 2-1/4" | Socket Flat | F |
| **ST-223** | 1/4"-20 x 2-1/2" | Socket Flat | F |
| **ST-224** | 1/4"-20 x 3" | Socket Flat | F |
| **ST-599** | 1/4"-28 x 1-1/4" | Slot Flat | F |
| **ST-674P** | 5/16"-18 x 3/4" | Phillips Truss | 1 |

See page B117 for more Thread-Cutting Screws



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B

# STAINLESS STEEL

**Hardened Thread-Cutting Screws**

Phillips Drive
Pan, Truss and Binding Heads
Thread & Point Dimensions to ASME B18.6.3

| *SPAENAUR No.* | Size | Head Style | S.S. Alloy | Type |
|---|---|---|---|---|
| **501-002** | 4-40 x 3/16" | Phillips Pan | 410 | F |
| **501-A05-1C** | 4-40 x 1/4" | Phillips Pan | 410 | F |
| **501-004** | 4-40 x 5/16" | Phillips Pan | 410 | F |
| **501-005** | 4-40 x 3/8" | Phillips Pan | 410 | F |
| **501-A01-1X** | 4-40 x 1/2" | Phillips Pan | 410 | F |
| **501-007** | 4-40 x 3/4" | Phillips Pan | 410 | F |
| **501-A07-1T** | 6-32 x 1/4" | Phillips Pan | 410 | F |
| **501-009** | 6-32 x 3/8" | Phillips Pan | 410 | F |
| **501-010** | 6-32 x 1/2" | Phillips Pan | 410 | F |
| **501-011** | 6-32 x 5/8" | Phillips Pan | 410 | F |
| **501-012** | 6-32 x 3/4" | Phillips Pan | 410 | F |
| **501-A04-1Y** | 8-32 x 3/8" | Phillips Pan | 410 | F |
| **501-001** | 8-32 x 3/8" | Phillips Truss | 410 | 1 |
| **501-028** | 8-32 x 1/2" | Phillips Flat | 410 | F |
| **501-014** | 8-32 x 1/2" | Phillips Pan | 410 | F |
| **ST-2012P** | 8-32 x 1/2" | Phillips Truss | 410 | 1 |
| **501-015** | 8-32 x 5/8" | Phillips Pan | 410 | F |
| **501-A08-1K** | 8-32 x 3/4" | Phillips Pan | 410 | F |
| **501-017** | 8-32 x 1" | Phillips Pan | 410 | F |
| **501-018** | 10-24 x 3/8" | Phillips Pan | 410 | F |
| **501-019** | 10-24 x 1/2" | Phillips Pan | 410 | F |
| **ST-2017** | 10-24 x 1/2" | Slot Binding | 430 | F |
| **501-A02-1A** | 10-24 x 5/8" | Phillips Pan | 410 | F |
| **501-021** | 10-24 x 3/4" | Phillips Pan | 410 | F |
| **501-A03-1P** | 10-24 x 1" | Phillips Pan | 410 | F |
| **501-023** | 10-32 x 3/8" | Phillips Pan | 410 | F |
| **501-024** | 10-32 x 1/2" | Phillips Pan | 410 | F |
| **501-025** | 10-32 x 5/8" | Phillips Pan | 410 | F |
| **501-A06-1N** | 10-32 x 3/4" | Phillips Pan | 410 | F |
| **501-027** | 10-32 x 1" | Phillips Pan | 410 | F |

**PKG QTY. 100**

**ASSORTMENT / ASSORTIMENT 805-540**

## THREAD-CUTTING SCREWS

**PHILLIPS DRIVE**
**CASE-HARDENED STEEL**
**Zinc Plated**

## 24 SIZES - 1270 PIECES




**Type 1** **Type F** **Type 23**



| Head Style | Spaenaur No. | Size | Thread Type | Qty. | Page |
|---|---|---|---|---|---|
| Pan | **492-C12-1M** | #4-40 x 1/4" | Type F | 50 | **B95** |
| | **ST-477P** | #6-32 x 1/4" | Type 1 | | |
| | **ST-399P** | #6-32 x 1/2" | Type F | 60 | |
| | **ST-657P** | #8-32 x 1/2" | Type 1 | | |
| | **492-C27-1P** | #8-32 x 3/4" | Type F | | **B95** |
| | **492-C18-1N** | #10-24 x 3/4" | | | |
| | **492-C04-1Y** | #10-32 x 5/8" | Type 1 | | |
| Truss | **492-C03-1P** | #6-32 x 3/8" | | | |
| | **ST-185P** | #6-32 x 1/2" | | | |
| | **492-C24-1X** | #10-24 x 3/8" | | 50 | **B95 H34** |
| | **492-073** | #10-24 x 1/2" | Type 23 | | |
| | **ST-207P** | #10-32 x 1/2" | Type 1 | | **B95** |
| Flat | **ST-714P** | #2-56 x 1/4" | Type F | | |
| | **492-C10-1K** | #8-32 x 7/16" | | | |
| | **492-C40-1A** | #10-32 x 1-1/2" | | 40 | |
| | **492-C41-1P** | #12-24 x 1/2" | | 50 | |
| Round | **492-C42-1Y** | #8-32 x 1/4" | Type 1 | | |
| | **ST-66P** | #8-32 x 7/8" | | 60 | |
| | **492-C14-1A** | 1/4"-20 x 5/8" | | 50 | |
| | **492-C32-1N** | 1/4"-20 x 3/4" | | | |
| Oval | **ST-56P** | #8-32 x 1/2" | | 60 | |
| | **ST-596P** | #10-32 x 1/2" | | 50 | |
| | **492-C35-1W** | 1/4"-20 x 1" | Type F | | **B95** |
| Fillister | **ST-618P** | #8-32 x 1-1/4" | | 40 | |

Furnished in Regular Size grey enamel Steel drawer with scooped bins for easy access. Drawer will fit into Slide Racks shown on page A2
Shipping Weight: **4.96 kg** (10.94 lbs.)





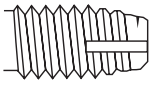
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Case-Hardened
# STEEL
ZINC PLATED

## SLOT DRIVE
## Inch Sizes

ORDER BY SPAENAUR NUMBER FROM CHART

ASME/ANSI B18.6



TYPE 1

PKG QTY. 100

| SIZE | | | | |
|---|---|---|---|---|
| DIA. | L. | ROUND | FLAT | PAN |
| 4-40 | 3/8 | | ST-180 | |
| 6-32 | 1/4 | | B-895 | B-725 |
| | 1/2 | B-437 | | B-469 |
| | 3/4 | | B-452 | B-470 |
| 8-32 | 1/4 | | | B-726 |
| | 3/8 | | | ST-404 |
| | 1/2 | | B-454 | B-472 |
| | 5/8 | | | B-487 |
| | 3/4 | | | B-473 |
| | 1 | | | B-474 |
| 10-24 | 3/8 | | | B-982 |
| | 1/2 | | B-460 | B-478 |
| | 5/8 | | B-461 | B-479 |
| | 3/4 | | | B-1058 |
| | 1 | | | B-480 |
| 10-32 | 3/8 | | | B-727 |
| | 1/2 | | B-457 | B-728 |
| | 5/8 | | | B-475 |
| | 3/4 | | B-458 | |
| 12-20 | 3/4 | | 490-003 | |
| 12-24 | 3/4 | | B-464 | |
| 1/4-20 | 1/2 | | 490-C01-1P | |
| | 1 | | | B-485 |
| 1/4-28 | 1-1/4 | | ST-599 | |

For AVK Industrial Products see page C125


A-H™ INSERT SERIES THREADED HEX INSERTS C128-C129


A-K™ INSERT SERIES KNURLED THREADED INSERTS C130-C131


A-L™ INSERT SERIES KNURLED THREADED INSERTS C132-C133


A-O™ INSERT SERIES THREADED INSERTS C134


A-T™ INSERT SERIES KNURLED THREADED INSERTS C135-C136


A-W® INSERT SERIES KNURLED THREADED INSERTS C137


E-H™ INSERT SERIES THREADED HEX INSERTS C138 NEW


E-L™ INSERT SERIES KNURLED THREADED INSERTS C139 NEW


R-N® RIVET NUT SERIES THREADED INSERTS C140-C141

Power and Hand Tools for AVK Series Inserts. C142-C153

AVK Technical and Test Data. C154-C156



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B

**Case-Hardened**

# STEEL

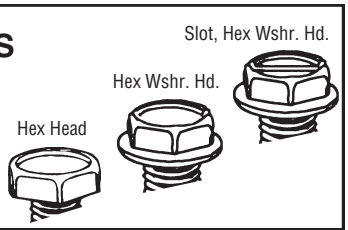
**ZINC PLATED**

ASME B18.6.3

## THREE INDENTED HEXAGON HEAD STYLES

### Four Thread Cutting Types




| *SPAENAUR No.* | SIZE | HEAD STYLE | TYPE | Hex A/F |
|---|---|---|---|---|
| **491-050** | #4 x 5/16" | Hex. Washer | 25 | 3/16" |
| **491-P07-1P** | 6-32 x 1/4" | Slot, Hex. Wshr. | F | 1/4" |
| **ST-579H** | 6-32 x 3/8" | Hexagon | F | 1/4" |
| **ST-726H** | 6-32 x 3/8" | Slot, Hex. | F | 1/4" |
| **491-048** | 8-32 x 5/16" | Hex. Washer | F | 1/4" |
| **491-P24-1N** | 8-32 x 5/16" | Hexagon | F | 1/4" |
| **491-P25-1T** | 8-18 x 1/2" | Slot, Hex. | F | 1/4" |
| **491-121** | 8-32 x 1/2" | Hex. Washer | 25 | 1/4" |
| **ST-529H** | 8-32 x 3/4" | Hex. Washer | 1 | 1/4" |
| **491-003** | 8-32 x 3/4" | Hex. Washer | F | 1/4" |
| **491-P28-1M** | #10 x 3/8" | Hexagon | 25 | 5/16" |
| **491-052** | 10-24 x 5/8" | Slot, Hex. Washer | F | 5/16" |
| **491-P23-1C** | 10-24 x 7/16" | Hex. Washer | 1 | 5/16" |
| **ST-607H** | 10-24 x 1/2" | Hexagon | 1 | 5/16" |
| **491-001** | 10-24 x 1/2" | Hex. Washer | F | 5/16" |
| **ST-51H** | 10-24 x 9/16" | Hexagon | 1 | 5/16" |
| **491-P05-2X** | 10-24 x 5/8" | Hex. Washer | 1 | 5/16" |
| **491-P21-1P** | 10-32 x 1/2" | Hexagon | 23 | 5/16" |
| **491-P17-1X** | 10-32 x 1/2" | Hexagon | F | 5/16" |
| **491-120** | 10-32 x 1" | Slot, Hex.Washer | 23 | 5/16" |
| **491-P13-1T** | 12-24 x 1/2" | Hex. Washer | 1 | 5/16" |
| **491-P08-1Y** | 12-24 x 5/8" | Hex. Washer | 1 | 5/16" |
| **491-P32-1A** | 1/4"-20 x 3/4" | Hex. Washer | 23 | 3/8" |
| **ST-732H** | 1/4"-20 x 3/8" | Hex. Washer | F | 3/8" |
| **ST-693H** | 1/4"-20 x 3/8" | Hexagon | F | 3/8" |
| **491-006** | 1/4"-20 x 1/2" | Hex. Washer | F | 3/8" |

| *SPAENAUR No.* | SIZE | HEAD STYLE | TYPE | Hex A/F |
|---|---|---|---|---|
| **ST-88H** | 1/4"-20 x 3/8" | Hex. Washer | 1 | 3/8" |
| **ST-647H** | 1/4"-20 x 1/2" | Hex. Washer | 23 | 3/8" |
| **491-P26-1K** | 1/4"-20 x 1/2" | Hexagon | 1 | 3/8" |
| **491-P03-2W** | 1/4"-20 x 1/2" | Hex. Washer | 1 | 3/8" |
| **B-434A** | 1/4"-20 x 1/2" | Hex. Washer | 1 | 7/16" |
| **491-P12-1N** | 1/4"-20 x 5/8" | Hex. Washer | 1 | 3/8" |
| **B-434-SL** | 1/4"-20 x 5/8" | Slot, Hex. Washer | 1 | 3/8" |
| **491-053** | 1/4"-20 x 3/4" | Hexagon | F | 3/8" |
| **491-P04-2M** | 1/4"-20 x 3/4" | Hex. Washer | F | 3/8" |
| **491-P14-1K** | 1/4"-20 x 3/4" | Hexagon | 1 | 7/16" |
| **491-P16-1M** | 1/4"-20 x 1" | Hexagon | 1 | 3/8" |
| **491-P09-1C** | 1/4"-20 x 1" | Hex. Washer | 1 | 3/8" |
| **491-P29-1X** | 1/4"-20 x 1-1/4" | Hex. Washer | 1 | 3/8" |
| **ST-686H** | 5/16"-18 x 5/8" | Hex. Washer | F | 1/2" |
| **491-P06-1A** | 5/16"-18 x 5/8" | Hex. Washer | 1 | 1/2" |
| **491-P22-1Y** | 5/16"-18 x 1/2" | Hex. Washer | 1 | 1/2" |
| **491-P27-1W** | 5/16"-18 x 5/8" | Hexagon | 1 | 1/2" |
| **B-1636** | 5/16"-18 x 3/4" | Hexagon | F | 1/2" |
| **491-P31-1X** | 5/16"-18 x 1" | Hexagon | 1 | 1/2" |
| **491-P02-1K** | 5/16 -18 x 1" | Hex. Washer | 1 | 1/2" |
| **491-047** | 3/8"-16 x 5/8" | Hexagon | 1 | 9/16" |
| **B-1063** | 3/8"-16 x 5/8" | Hex. Washer | 1 | 1/2" |
| **491-P10-1Y** | 3/8"-16 x 1" | Hexagon | 1 | 9/16" |
| **491-P01-1T** | 3/8"-16 x 1-3/4" | Hexagon | 1 | 9/16" |

**Contact Sales Desk For Package Quantities**

See our 'Tapping Screws Selector Guide' on Page R12 for
a detailed depiction of Tapping Screws and Thread-Cutting Screws



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B

High-Performance Thread-Rolling Screws roll-form a clean, strong thread, yet these screws do not cut metal, and leave no chips. Excellent for use in electrical assemblies where chips would cause shorts, or in deep blind holes where chips would prevent proper seating. May also be used in thin sheet metal where thread-cutting action would weaken the walls of punch-extruded holes.

High-Performance Thread-Rolling Screws drive easier than other thread-forming screws, and with uniform torque. You can drive them into tougher material, deeper holes, and faster, with less tool wear. They are self-locking and vibration-resistant along the entire length of the thread.

# High-Performance Thread-Rolling Screws

**Case-Hardened Steel, Zinc Plated & Waxed**

## *Phillips* Pan Head

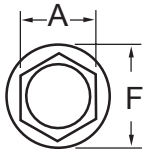


| DIA. | 4 | 6 | 8 | 10 | 1/4" |
|---|---|---|---|---|---|
| THREAD | 40 | 32 | 32 | 32 | 20 |
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 1/4" | **492-C36-1M** | **492-C23-1W** | | **492-111** | |
| 5/16" | **492-101** | | | | |
| 3/8" | **492-102** | **492-C28-2Y** | **492-C05-1C** | **492-112** | **492-116** |
| 1/2" | **492-103** | **492-106** | **492-108** | **492-113** | **492-117** |
| 5/8" | | | **492-109** | **492-114** | **492-118** |
| 3/4" | | | **492-110** | **492-115** | **492-119** |
| 1" | | | | | **492-120** |

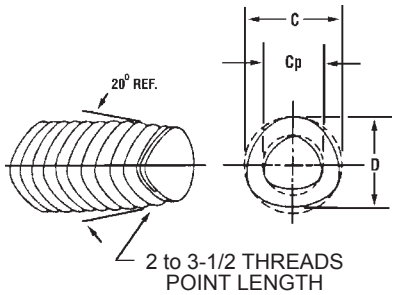
## *Indented* Hex Washer Head



| DIA. | 4 | 6 | 8 | 10 | 1/4" | 5/16" |
|---|---|---|---|---|---|---|
| THREAD | 40 | 32 | 32 | 32 | 20 | 18 |
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 1/4" | **491-100** | **491-104** | | | | |
| 5/16" | **491-101** | | | | | |
| 3/8" | **491-P18-1A** | **491-P20-1A** | **491-P11-1C** | **491-111** | **491-P30-1M** | |
| 1/2" | **491-103** | **491-106** | **491-P19-1P** | **491-112** | **491-116** | **491-005** |
| 5/8" | | | **491-109** | **491-113** | **491-117** | |
| 3/4" | | | **491-110** | **491-114** | **491-P15-1W** | |
| 1" | | | | | **491-119** | |




## Specifications: Thread and Point *Indented* Hex Washer Head




| Nominal Screw Size | Threads Per Inch | Basic Screw Diameter | C Diameter of Circumscribing Centre Max. | C Diameter of Circumscribing Centre Min. | D Measurement Across Centre Max. | D Measurement Across Centre Min. | CP Circum-scribing Circle (Point) Max. |
|---|---|---|---|---|---|---|---|
| **4** | 40 | 0.1120 | 0.1145 | 0.1105 | 0.1095 | 0.1055 | 0.090 |
| **6** | 32 | 0.1380 | 0.1410 | 0.1350 | 0.1350 | 0.1290 | 0.111 |
| **8** | 32 | 0.1640 | 0.1670 | 0.1610 | 0.1610 | 0.1550 | 0.137 |
| **10** | 32 | 0.1900 | 0.1940 | 0.1880 | 0.1850 | 0.1790 | 0.153 |
| **1/4"** | 20 | 0.250 | 0.2550 | 0.2490 | 0.2460 | 0.2400 | 0.206 |

| Nominal Size | A Width Across Flats Max. | A Width Across Flats Min. | F Diameter of Washer Max. | F Diameter of Washer Min. |
|---|---|---|---|---|
| **4** | .187 | .181 | .243 | .225 |
| **6** | .250 | .244 | .328 | .302 |
| **8** | .250 | .244 | .348 | .322 |
| **10** | .312 | .305 | .414 | .384 |
| **1/4"** | .375 | .367 | .520 | .480 |

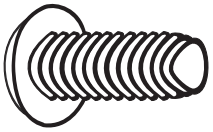
See next page for recommended pilot hole sizes.

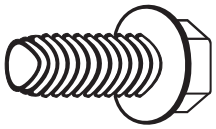


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B

# RECOMMENDED PILOT HOLE SIZES for LOW CARBON STEEL and ALUMINUM SHEETS.





| | | MATERIAL THICKNESS | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | .020" - .078" | | | .063" - .140" | | | .125" - .266" | | | .250" - .328" | | | .313" - .500" | | |
| SCREW SIZE | MATERIAL | DRILL SIZE | DECI-MAL | % THRD. ENGAGE | DRILL SIZE | DECI-MAL | % THRD. ENGAGE | DRILL SIZE | DECI-MAL | % THRD. ENGAGE | DRILL SIZE | DECI-MAL | % THRD. ENGAGE | DRILL SIZE | DECI-MAL | % THRD. ENGAGE |
| 4-40 | Steel | 40 | .098 | 85 | 38 | .120 | 65 | 37 | .104 | 50 | | | | | | |
| | Aluminum | 40 | .098 | 85 | 39 | .100 | 75 | 38 | .102 | 65 | 38 | .102 | 65 | | | |
| 5-40 | Steel | 34 | .111 | 85 | 33 | .113 | 75 | 32 | .116 | 55 | | | | | | |
| | Aluminum | 35 | .110 | 90 | 34 | .111 | 85 | 33 | .113 | 75 | 33 | .113 | 75 | 32 | .116 | 55 |
| 6-32 | Steel | | | | 31 | .120 | 90 | 1/8 | .125 | 65 | 30 | .129 | 50 | | | |
| | Aluminum | 31 | .120 | 90 | 31 | .120 | 90 | 1/8 | .125 | 65 | 1/8 | .125 | 65 | 1/8 | .125 | 65 |
| 8-32 | Steel | | | | 26 | .147 | 85 | 25 | .150 | 70 | 23 | .154 | 50 | | | |
| | Aluminum | | | | 26 | .147 | 85 | 25 | .150 | 70 | 24 | .152 | 60 | 24 | .152 | 60 |
| 10-24 | Steel | | | | 19 | .166 | 90 | 11/64 | .172 | 70 | 16 | .177 | 50 | | | |
| | Aluminum | | | | 19 | .166 | 90 | 19 | .166 | 90 | 18 | .170 | 75 | 17 | .173 | 65 |
| 10-32 | Steel | | | | 17 | .173 | 85 | 16 | .177 | 65 | 15 | .180 | 50 | | | |
| | Aluminum | | | | 17 | .173 | 85 | 17 | .173 | 85 | 16 | .177 | 65 | 15 | .180 | 50 |
| 12-24 | Steel | | | | 10 | .194 | 80 | 8 | .199 | 65 | 13/64 | .203 | 50 | | | |
| | Aluminum | | | | 11 | .191 | 90 | 9 | .196 | 75 | 8 | .199 | 65 | 13/64 | .203 | 50 |
| 1/4-20 | Steel | | | | 7/32 | .219 | 95 | 5.7M | .224 | 80 | 1 | .228 | 70 | A | .234 | 50 |
| | Aluminum | | | | 7/32 | .219 | 95 | 2 | .221 | 90 | 5.7M | .224 | 80 | 1 | .228 | 70 |
| 5/16-18 | Steel | | | | K | .281 | 85 | K | .281 | 85 | 7.25M | .285 | 75 | L | .290 | 60 |
| | Aluminum | | | | K | .281 | 85 | K | .281 | 85 | 7.25M | .285 | 75 | 7.3M | .287 | 70 |
| 3/8-16 | Steel | | | | | | | 11/32 | .344 | 75 | S | .348 | 65 | 9M | .355 | 50 |
| | Aluminum | | | | | | | R | .339 | 90 | 11/32 | .344 | 75 | S | .348 | 65 |

**PLASTIKIT «PLASTIKIT» 1140**

## MACHINE SCREWS WITH HEXAGON NUTS

**Steel, Zinc Plated**

**Round Slot Head**

**25 Sizes - 159 Pieces**

Handy size, hinged lid and positive clasp
1" x 2-3/4" x 4-1/2"






| Name | Head Type | Spaenaur No. | Thread Size | Screw Length | Qty. | Page |
|---|---|---|---|---|---|---|
| Machine Screw Slot Drive Steel ASME/ANSI B18.6.3 | Round | 380-F10-1N | #4-40 | 3/8" | 6 | B6 |
| | | 380-F53-1X | | 1" | | |
| | | 786 | #6-32 | 5/16" | 12 | |
| | | 786A | | 1" | | |
| | | 785 | #8-32 | 1/2" | 10 | B7 |
| | | 1042 | | 3/4" | | |
| | | B-1500 | | 1" | | |
| | | 380-F83-1C | | 1-1/2" | 6 | |
| | | 1484 | #10-24 | 7/8" | 8 | B8 |
| | | 1027 | #10-32 | | | |
| | | 1028 | | 1/2" | | |
| | | 801-A | | 1-1/2" | 6 | |
| | | 1032 | #12-24 | 1/2" | 2 | B8 |
| | | 1153 | | 3/4" | | |
| | | 380-F07-1C | | 7/8" | | |
| | | 775 | 1/4"-20 | 1/2" | | |
| | | 1467 | | 3/4" | | B9 |
| | | 871 | | 1" | 1 | |
| | | 380-F08-1N | | 1-1/4" | | |
| Hex Nut Machine Screw Steel Zinc Plated | | 155-P11-1K | #4-40 | | 5 | C2 |
| | | 155-P03-2A | #6-32 | | 10 | |
| | | 155-P04-1P | #8-32 | | 18 | |
| | | 155-P08-1T | #10-24 | | 8 | B273 C2 |
| | | 155-P02-1X | #10-32 | | 10 | C2 |
| | | 155-P22-1T | #12-24 | | 6 | |





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# STEEL

## TYPE "U" DRIVE SCREWS

ASME B18.6.3

**ROUND HEAD**
**CASE-HARDENED STEEL**
**ZINC PLATED**



Hammer-driven for making permanent fastenings to ferrous and non-ferrous castings, heavy gauge steel, plastics, etc.

B

| DIAMETER GA. | DIAMETER INCHES | DRILL SIZE | LENGTH 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 00 | .058 | 55 | | B-1570 | B-1571 | | | | | |
| 0 | .073 | 51 | B-1572 | 376-H11-1C | 376-H07-2Y | | | | | |
| 2 | .098 | 44 | 376-H05-1X | 376-H21-1P | 376-H10-1Y | | | | | |
| 4 | .114 | 37 | | 376-H02-1K | 376-H01-1T | B-1768 | 376-H12-1N | | | |
| 6 | .138 | 31 | | 376-H03-1W | 376-H03-1W | B-1858 | B-1125 | | | |
| 7 | .152 | 29 | | | | 376-H14-1K | B-1860 | B-1861 | | |
| 8 | .164 | 27 | | | | | 376-H06-1A | B-1862 | B-1863 | |
| 10 | .179 | 20 | | | 376-H04-1M | | 376-H09-1C | 376-H08-1Y | B-1866 | |
| 12 | .209 | 11 | | | | | | B-1867 | B-1868 | B-1869 |
| 14 | .239 | 2 | | | | | | | B-1871 | 376-H13-1T |

**PACKAGING**
**Gauges 00 to 4, incl. - PKG QTY. 1000 Gauges 6 to 10, incl. - PKG QTY. 500 Gauges 12 and 14 - PKG QTY. 250**

# 18-8 STAINLESS STEEL

## TYPE "U" DRIVE SCREWS

Dimensionally to ASME B18.6.3

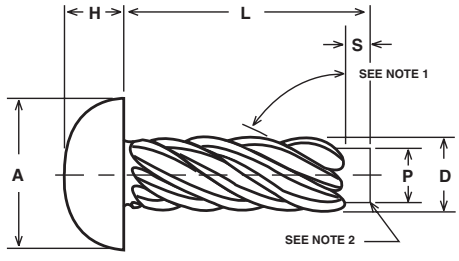
**ROUND HEAD**



Hammer-driven for making permanent fastenings to ferrous and non-ferrous castings, heavy gauge steel, plastics, etc.

| DIAMETER GA. | DIAMETER INCHES | DRILL SIZE | LENGTH 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |
|---|---|---|---|---|---|---|---|---|
| 00 | .058 | 55 | 376-800 | 376-H15-1W | | | | |
| 0 | .073 | 51 | 376-802 | 376-803 | 376-H17-1X | | | |
| 2 | .098 | 44 | 376-H22-1Y | 376-H25-1T | 376-H24-1N | | | |
| 4 | .114 | 37 | | 376-H23-1C | 376-H26-1K | 376-810 | 376-H20-1A | |
| 6 | .138 | 31 | | | 376-H18-1A | 376-813 | 376-814 | |
| 8 | .164 | 27 | | | 376-H19-1P | | 376-816 | 376-817 |
| 10 | .179 | 20 | | | | | | 376-H16-1M |
| | | | PKG QTY. 100 | | | | | |

## DIMENSIONS OF METALLIC DRIVE SCREWS TYPE U




1. The lead angle of the Type U Metallic Drive Screw thread shall be 45 to 65 degrees.
2. The blunt end of the pilot may have a slight angle, as illustrated above, due to the natural flow of material in the cut-off process.

| Nominal Screw Size | Number of Thread Starts | D Outside Diameter Max. | D Outside Diameter Min. | A Head Diameter Max. | A Head Diameter Min. | H Head Height Max. | H Head Height Min. | P Pilot Diameter Max. | P Pilot Diameter Min. | Recommended Hole Size Drill Size No. | Recommended Hole Size Hole Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 00 | 6 | 0.060 | 0.057 | 0.099 | 0.090 | 0.034 | 0.026 | 0.049 | 0.046 | 55 | 0.052 |
| 0 | 6 | 0.075 | 0.072 | 0.127 | 0.118 | 0.049 | 0.041 | 0.063 | 0.060 | 51 | 0.067 |
| 2 | 8 | 0.100 | 0.097 | 0.162 | 0.146 | 0.069 | 0.059 | 0.083 | 0.080 | 44 | 0.086 |
| 4 | 7 | 0.116 | 0.112 | 0.211 | 0.193 | 0.086 | 0.075 | 0.096 | 0.092 | 37 | 0.104 |
| 6 | 7 | 0.140 | 0.136 | 0.260 | 0.240 | 0.103 | 0.091 | 0.116 | 0.112 | 31 | 0.120 |
| 7 | 8 | 0.154 | 0.150 | 0.285 | 0.264 | 0.111 | 0.099 | 0.126 | 0.122 | 29 | 0.136 |
| 8 | 8 | 0.167 | 0.162 | 0.309 | 0.287 | 0.120 | 0.107 | 0.136 | 0.132 | 27 | 0.144 |
| 10 | 8 | 0.182 | 0.177 | 0.359 | 0.334 | 0.137 | 0.123 | 0.150 | 0.146 | 20 | 0.161 |
| 12 | 8 | 0.212 | 0.206 | 0.408 | 0.382 | 0.153 | 0.139 | 0.177 | 0.173 | 11 | 0.191 |
| 14 | 9 | 0.242 | 0.236 | 0.457 | 0.429 | 0.170 | 0.155 | 0.202 | 0.198 | 2 | 0.221 |
| 5/16" | 11 | 0.315 | 0.309 | 0.590 | 0.557 | 0.216 | 0.198 | 0.272 | 0.267 | M | 0.295 |
| 3/8" | 12 | 0.378 | 0.371 | 0.708 | 0.670 | 0.256 | 0.237 | 0.334 | 0.329 | T | 0.358 |

| L | Nominal Screw Length | 1/8" | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" | 3/4" | 1 inch and over |
|---|---|---|---|---|---|---|---|---|---|---|
| S | Pilot Length | 0.047 | 0.047 | 0.047 | 0.047 | 0.062 | 0.062 | 0.078 | 0.078 | 0.125 |



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B

# FLORTORX® SCREWS

TORX Drive

The unique thread-forming screw designed specifically for the truck trailer industry. Full line in stock!



Full Thread (F)
Partial Thread (P)

82° Ctsk. FLAT HEAD



CASE-HARDENED STEEL
Black Phosphate & Oil Finish

| *SPAENAUR No.* | Size | Recess Size |
|---|---|---|
| **537-501** | 1/4"-20 x 1-1/4" (F) | TORX T-30 |
| **537-502** | 1/4"-20 x 1-1/2" (F) | |
| **537-503** | 1/4"-20 x 1-3/4" (F) | |
| **537-504** | 1/4"-20 x 2" (P) | |
| **537-505** | 1/4"-20 x 2-1/2" (P) | |
| **537-506** | 1/4"-20 x 3" (P) | |
| **537-511** | 1/4"-20 x 4" (P) | |
| **537-509** | 5/16"-18 x 2-1/4" (P) | TORX T-40 |
| **537-510** | 5/16"-18 x 2-1/2" (P) | |

**PKG QTY. 50**

# CAMTAINER® FRP FASTENERS

PATENTED

Specially designed for FRP trailers and containers. Camtainer fastens, seals, and secures.

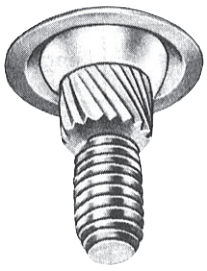
## Grade 5.1 Steel

Cadmium Plated & Clear Chromate Finish

## CAMTAINER STUD

Dome Head

| *SPAENAUR No.* | Size and Length Under Head | Head Dia. | How Used |
|---|---|---|---|
| **191-150** | 5/16"-18 x 3/4" | 7/8" | For Metal Surfaces |
| **191-151** | 5/16"-18 x 7/8" | | |
| **191-042** | 5/16"-18 x 1" | | |



## CAMTAINER T-NUTS

with Torx Recess

| *SPAENAUR No.* | Size and Length Under Head | Head Dia. | Torx Recess |
|---|---|---|---|
| **191-M10-1M** | 5/16"-18 x 1/2" | 5/8" | T-50 |
| **191-102** | 5/16"-18 x 1/2" | 1" | T-55 |

**PKG QTY. 25 (Separate Parts)**

Barrel O.D. 25/64"

**191-M10-1M**

**191-102**

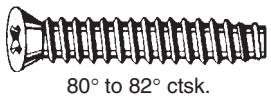


# FLOORBOARD SCREWS

Other Popular Styles

**Case Hardened**
**STEEL**
**Zinc Plated**
**ASME B18.6.3**

**TYPE B**



80° to 82° ctsk.
**PHILLIPS FLAT HEAD**

| *SPAENAUR No.* | Size | PKG QTY. |
|---|---|---|
| **ST-320P** | 14 x 1-1/4" | 50 |
| **530-B31-1W** | 14 x 1-1/2" | 100 |
| **ST-213P** | 14 x 1-3/4" | 100 |
| **ST-214P** | 14 x 2" | 100 |
| **ST-215P** | 14 x 2-1/4" | 100 |
| **ST-216P** | 14 x 2-1/2" | 100 |
| **ST-217P** | 14 x 3" | 100 |

**TYPE B**



80° to 82° ctsk.
**SLOT FLAT HEAD**

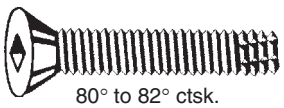
| *SPAENAUR No.* | Size | PKG QTY. |
|---|---|---|
| **ST-156B** | 14 x 1-1/4" | 50 |
| **B-1528** | 14 X 1-1/2" | 100 |
| **B-1247** | 14 x 1-3/4" | 100 |
| **B-1107** | 14 x 2" | 100 |
| **B-1248** | 14 x 2-1/2" | 100 |
| **B-1249** | 14 x 3" | 100 |

# Thread Cutting Screw
## Square Socket

**Low Carbon Steel, Case Hardened Zinc Chromate**

ANSI B18.6

**TYPE F**



80° to 82° ctsk.
**Square**
**SOCKET FLAT HEAD**

| *SPAENAUR No.* | Thread | L. | PKG QTY. |
|---|---|---|---|
| **492-C33-1T** | 1/4-20 UNC | 1-1/2" | 100 |
| **ST-221** | | 2" | 100 |
| **ST-222** | | 2-1/4" | 100 |
| **ST-223** | | 2-1/2" | 100 |
| **ST-224** | | 3" | 100 |

# Thread Cutting Screw
## Slot Drive

**Low Carbon Steel, Case Hardened Zinc Chromate**

ANSI B18.6

**TYPE 1**



80° to 82° ctsk.
**SLOT FLAT HEAD**

| *SPAENAUR No.* | Thread | L. | PKG QTY. |
|---|---|---|---|
| **B-467** | 1/4-20 UNC | 1" | 100 |
| **B-468** | | 1-1/4" | 100 |
| **ST-206** | | 1-1/2" | 100 |
| **2474** | | 1-3/4" | 100 |
| **2476** | | 2-1/2" | 100 |
| **ST-82** | | 3" | 100 |





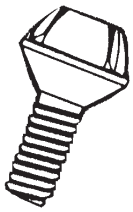
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# "TAMPRUF™" Fasteners

**STEEL Zinc Plated**



## Tamper-Resistant MACHINE SCREWS



Standard Head

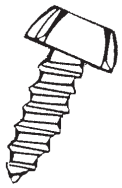


Countersunk Head



| SPAENAUR No. | SIZE | HEAD STYLE |
|---|---|---|
| 381-050 | 4-40 x 1/2" | Std. |
| 381-080 | 6-32 x 3/8" | Ctsk. |
| 381-051 | 6-32 x 5/8" | Std. |
| 381-081 | 8-32 x 1/2" | Ctsk. |
| 381-052 | 8-32 x 3/4" | Std. |
| 381-082 | 8-32 x 3/4" | Ctsk. |
| 381-053 | 8-32 x 1" | Std. |
| 381-054 | 8-32 x 1" | Ctsk. |
| 381-055 | 8-32 x 1-1/4" | Std. |
| 381-094 | 8-32 x 1-1/2" | Std. |
| 381-083 | 10-24 x 1/2" | Ctsk. |
| 381-056 | 10-24 x 5/8" | Std. |
| 381-057 | 10-24 x 1" | Std. |
| 381-059 | 10-24 x 1-1/2" | Std. |
| 381-096 | 10-32 x 1" | Std. |
| 381-085 | 10-32 x 1" | Ctsk. |
| 381-073 | 10-32 x 1-1/2" | Std. |
| 381-086 | 1/4-20 x 1/2" | Ctsk. |
| 381-060 | 1/4-20 x 3/4" | Std. |
| 381-087 | 1/4-20 x 3/4" | Ctsk. |
| 381-061 | 1/4-20 x 1" | Std. |
| 381-088 | 1/4-20 x 1" | Ctsk. |
| 381-062 | 1/4-20 x 1-1/4" | Ctsk. |
| 381-063 | 1/4-20 x 1-1/2" | Std. |
| 381-090 | 1/4-20 x 2" | Ctsk. |

**PKG QTY. 100**



Standard Head



Countersunk Head



## Tamper-Resistant WOOD/METAL SCREWS

**Case-hardened**

| SPAENAUR No. | SIZE | HEAD STYLE |
|---|---|---|
| 381-064 | 6 x 1/2" | Std. |
| 381-076 | 6 x 1/2" | Ctsk. |
| 381-065 | 6 x 3/4" | Std. |
| 381-077 | 8 x 1/2" | Ctsk. |
| 381-066 | 8 x 3/4" | Std. |
| 381-091 | 8 x 3/4" | Ctsk. |
| 381-067 | 8 x 1" | Ctsk. |
| 381-071 | 8 x 1-1/2" | Std. |
| 381-074 | 10 x 1/2" | Std. |
| 381-095 | 10 x 3/4" | Std. |
| 381-078 | 10 x 3/4" | Ctsk. |
| 381-068 | 10 x 1" | Std. |
| 381-069 | 10 x 1" | Ctsk. |
| 381-079 | 10 x 1-1/4" | Ctsk. |
| 381-075 | 10 x 1-1/2" | Std. |
| 381-072 | 10 x 2" | Std. |

**PKG QTY. 100**



## "TAMPRUF" BITS

Bits require 1/4" square driver.

**PKG QTY. 1**

| SPAENAUR No. | Fits Standard Hd. | Fits Ctsk. Hd. | |
|---|---|---|---|
| 876-533 | #4 | #6 | (Not for use with power driver.) |
| 876-534 | #6 & #8 | #8 & #10 | |
| 876-789 | #10, 12 & 1/4" | 1/4" | |

**ASSORTMENT / ASSORTIMENT 805-433**

## "TAMPRUF™" SCREWS STEEL, Zinc Plated

## 239 PIECES - 25 SIZES

**Plus Screw Driver and Bits**

Furnished in Regular Size grey enamel Steel drawer with scooped bins for easy access. Drawer will fit into Slide Racks shown on page A2

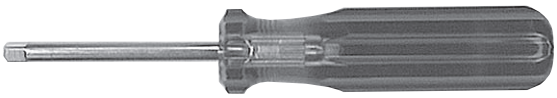
Shipping Wt. **2.95 kg** (6-1/2 lbs.)



**For the complete assortment contents turn to A41**

## DRIVER HANDLE (Spinner) - use with "TAMPRUF" Bits.

1/4" Square Drive



Overall length 7"

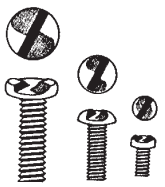
***SPAENAUR No.*** **876-536** **PKG QTY. 1**

See page C62 for "TAMPRUF" Nuts.



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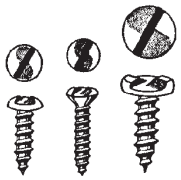
B



# ONE-WAY SLOT DRIVE

**Easy to insert - with slot screwdriver**
**Very difficult to remove**

**PKG QTY. 100**
**All Fasteners this page**



## STEEL — *ONE WAY SLOT* MACHINE SCREWS

| *SPAENAUR No.* | Screw Size | Head Style | Finish |
|---|---|---|---|
| **381-021** | 8-32 x 5/8" | Round | Zinc |
| **381-013** | 8-32 x 3/4" | Round | Zinc |
| **381-003** | 8-32 x 1" | Oval | Nickel |
| **381-004** | 8-32 x 1" | Round | Nickel |
| **381-012** | 10-24 x 3/8" | Round | Zinc Ch. |
| **381-009** | 10-32 x 1/2" | Round | Zinc Ch. |
| **381-010** | 10-32 x 3/4" | Round | Nickel |

## STEEL — *ONE WAY SLOT* TAPPING SCREWS

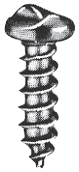
| *SPAENAUR No.* | Screw Size | Head Style | Finish |
|---|---|---|---|
| **516-001** | 6 x 3/4" | Round | Nickel |
| **516-003** | 10 x 5/8" | Round | Nickel |
| **516-005** | 10 x 3/4" | Round | Nickel |
| **516-013** | 10 x 1" | Round | Zinc |
| **516-006** | 12 x 1-1/2" | Pan | Nickel |
| **516-008** | 14 x 3/4" | Pan | Nickel |
| **516-010** | 14 x 2-1/2" | Pan | Nickel |

## ONE-WAY ROUND HEAD MACHINE SCREWS, 18-8 STAINLESS STEEL



| Lgth. / Dia. | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|---|---|---|---|---|---|---|---|---|
| | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 4-40 | | | **381-964** | **381-965** | **381-966** | | | |
| 6-32 | **381-967** | **381-968** | **381-969** | **381-970** | **381-G08-1M** | | | |
| 8-32 | **381-972** | **381-973** | **381-974** | **381-975** | **381-976** | **381-977** | **381-978** | |
| 10-24 | | **381-979** | **381-980** | **381-981** | **381-982** | **381-983** | **381-984** | |
| 10-32 | **381-985** | | **381-986** | **381-987** | **381-988** | **381-989** | **381-990** | |
| 1/4"-20 | | | **381-991** | **381-992** | **381-993** | **381-994** | **381-995** | **381-996** |
| 5/16"-18 | | | | **381-997** | **381-998** | | **381-999** | |

## ONE-WAY ROUND HEAD SHEET METAL SCREWS, 18-8 STAINLESS STEEL



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6A | | | **516-889** | **516-890** | **516-891** | **516-892** | | |
| 8A | | | **516-893** | **516-894** | **516-895** | **516-896** | **516-897** | |
| 10A | | | **516-898** | **516-899** | **516-900** | **516-901** | **516-902** | |
| 12A | | (*Pan Head) | ***516-903** | ***516-904** | ***516-905** | ***516-906** | ***516-907** | |
| 14A | | | **516-909** | **516-A02-1P** | **516-911** | **516-912** | **516-A03-1Y** | **516-914** |

## ONE-WAY OVAL HEAD SHEET METAL SCREWS, 18-8 STAINLESS STEEL



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8A | | | **516-915** | **516-916** | **516-917** | | | |
| 10A | | | **516-918** | **516-919** | **516-920** | | | |

Extremely hard points.




**PKG QTY. 1**

**WARNING:** "Un-Do-It" Screw Drivers are **NOT GUARANTEED** against breakage or wear because of their extremely hard points.

## UN-DO-IT SCREW TOOL

Needed for removing "ONE-WAY SLOT" Machine Screws Only

| *SPAENAUR Driver No.* | 876-804 | 876-807 | 876-810 |
|---|---|---|---|
| For Screw Sizes | 4 to 8 ga. | 10-12 ga. | 14 ga. (1/4" & 5/16") |
| Points C. to C. | 5/32" | 7/32" | 15/64" |





One-Way Slotted Drive Shoulder Screws and Barrel Nuts shown on page C66.

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## SPANNER OVAL HEAD MACHINE SCREWS, 18-8 STAINLESS STEEL


(82° Ctsk. Hd.)

| Lgth. / Dia. | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" |
|---|---|---|---|---|---|---|---|---|---|---|
| | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 6-32 | | 381-800 | 381-802 | | 381-803 | 381-M33-1W | 381-805 | 381-G10-1M | | |
| 8-32 | | | 381-807 | | 381-M25-1P | 381-809 | 381-801 | 381-810 | 381-798 | 381-797 (Partial Thread) |
| 10-24 | | | 381-811 | 381-812 | 381-813 | 381-M26-1Y | 381-815 | 381-816 | | |
| 10-32 | | | 381-817 | 381-818 | 381-M31-1T | 381-820 | 381-821 | 381-822 | 381-799 | |

## SPANNER FLAT HEAD MACHINE SCREWS, 18-8 STAINLESS STEEL


(82° Ctsk. Hd.)

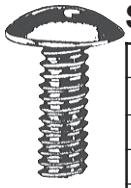
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-40 | 381-859 | | 381-860 | | | | | | | |
| 6-32 | 381-861 | | 381-862 | | 381-863 | 381-864 | | 381-865 | 381-866 | |
| 8-32 | 381-867 | | 381-868 | 381-758 | 381-869 | 381-870 | 381-871 | 381-872 | 381-873 | |
| 10-24 | | | 381-875 | | 381-876 | 381-877 | | 381-878 | 381-879 | |
| 10-32 | | | 381-881 | | 381-882 | 381-883 | 381-884 | 381-885 | 381-886 | |
| 12-24 | | | 381-887 | | 381-888 | 381-889 | | 381-890 | | |
| 1/4"-20 | | 381-891 | 381-892 | 381-893 | 381-G09-2X | 381-895 | 381-896 | 381-897 | 381-898 | |
| 5/16"-18 | | | | | 381-899 | 381-900 | | 381-901 | 381-M34-1M | |
| 3/8"-16 | | | | | 381-903 | 381-904 | | 381-905 | | |

## SPANNER PAN HEAD MACHINE SCREWS, 18-8 STAINLESS STEEL



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-40 | 381-906 | 381-907 | 381-908 | | | | | | | |
| 6-32 | 381-909 | 381-910 | 381-911 | 381-912 | 381-M32-1K | 381-M27-1C | 381-915 | 381-916 | 381-917 | |
| 8-32 | 381-918 | 381-919 | 381-920 | 381-921 | 381-922 | 381-923 | 381-924 | 381-925 | 381-926 | |
| 10-24 | 381-927 | 381-928 | 381-929 | 381-930 | 381-931 | 381-932 | 381-933 | 381-M28-1N | 381-935 | |
| 10-32 | 381-936 | 381-937 | 381-938 | 381-939 | 381-940 | 381-941 | 381-942 | 381-943 | 381-944 | |
| 12-24 | | | 381-M24-1A | | 381-M41-1C | 381-M29-2T | | | 381-948 | PKG QTY. 50 |
| 1/4"-20 | | 381-949 | 381-950 | 381-951 | 381-952 | 381-953 | 381-M30-1N | 381-955 | 381-956 | |

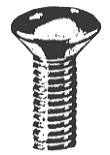
## SPANNER TRUSS HEAD MACHINE SCREWS, 18-8 STAINLESS STEEL



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-32 | | 381-823 | 381-824 | | 381-825 | 381-826 | | | | |
| 8-32 | | | 381-827 | 381-828 | 381-829 | 381-830 | 381-831 | 381-832 | | |
| 10-24 | | | 381-837 | | 381-838 | 381-G06-1K | | | | |
| 10-32 | | | 381-833 | | 381-835 | 381-836 | | | | |
| 1/4"-20 | | 381-841 | 381-842 | | 381-843 | 381-G05-1T | 381-845 | 381-846 | 381-847 | |
| 5/16"-18 | | | | | 381-848 | 381-G07-1W | 381-850 | 381-851 | | |
| *3/8"-16 | | | | | 381-852 | 381-853 | 381-854 | 381-855 | 381-856 | |

***381-857** 3" Long ***381-858** 3-1/2" Long

## SPANNER OVAL HEAD MACHINE SCREWS, BRASS Plain Finish


(82° Ctsk. Hd.)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-32 | | 381-516 | | | 381-518 | 381-519 | | | | |
| 8-32 | | | 381-521 | | 381-522 | | 381-524 | 381-525 | 381-526 | |
| 10-24 | | 381-533 | 381-534 | | 381-535 | 381-536 | | 381-537 | | |
| 10-32 | | | 381-527 | 381-528 | 381-529 | 381-530 | | 381-531 | 381-532 | |

## SPANNER FLAT HEAD MACHINE SCREWS, BRASS Plain Finish


(82° Ctsk. Hd.)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-32 | 381-502 (3/16" Lgth.) | | 381-503 | | 381-504 | 381-505 | | | | |
| 8-32 | | | 381-506 | | 381-507 | | | 381-509 | | |
| 10-24 | | | 381-511 | | 381-512 | 381-513 | | 381-514 | | |

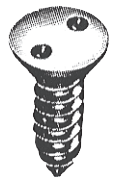
6-32 to 1/4"-20 dia. - PKG QTY. 100
5/16" and 3/8" dia. - PKG QTY. 50



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B

## SPANNER FLAT HEAD SHEET METAL SCREWS, STEEL, Case-Hardened Zinc Plated


(82° Ctsk. Hd.)

| Lgth. | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
|---|---|---|---|---|---|---|---|---|---|
| Dia. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 8A/AB | | | | | 381-151 | | | | |

## SPANNER OVAL HEAD SHEET METAL SCREWS, 18-8 STAINLESS STEEL


(82° Ctsk. Hd.)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 6A/AB | | | 516-876 | | 516-877 | 516-878 | 516-879 | 516-880 | |
| 8A/AB | | | 516-881 | | 516-882 | 516-883 | 516-884 | | |
| 10A/AB | | | 516-885 | | 516-886 | 516-887 | 516-888 | | |

## SPANNER FLAT HEAD SHEET METAL SCREWS, 18-8 STAINLESS STEEL


(82° Ctsk. Hd.)

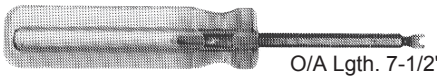
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4A/AB | 516-800 | 516-801 | 516-802 | | 516-803 | | | | |
| 6A/AB | | 516-804 | 516-805 | 516-806 | 516-807 | 516-808 | 516-809 | 516-810 | 516-811 |
| 8A/AB | | 516-812 | 516-813 | | 516-814 | 516-815 | 516-816 | 516-817 | 516-818 |
| 10A/AB | | | 516-819 | 516-820 | 516-821 | 516-822 | 516-823 | 516-824 | 516-825 |
| 12A/AB | | | 516-C43-1N | | 516-827 | 516-828 | 516-829 | 516-830 | 516-831 |
| 14A/AB | | | 516-832 | | 516-833 | 516-834 | 516-835 | 516-836 | 516-837 |

## SPANNER PAN HEAD SHEET METAL SCREWS, 18-8 STAINLESS STEEL



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4A/AB | 516-838 | 516-839 | 516-840 | | 516-841 | | | | |
| 6A/AB | | 516-842 | 516-843 | 516-844 | 516-845 | 516-846 | 516-847 | 516-848 | 516-849 |
| 8A/AB | | 516-850 | 516-851 | | 516-852 | 516-853 | 516-854 | 516-855 | 516-856 |
| 10A/AB | | | 516-857 | 516-858 | 516-859 | 516-860 | 516-861 | 516-862 | 516-863 |
| 12A/AB | | | 516-864 | | 516-865 | 516-866 | 516-867 | 516-868 | 516-C40-1P |
| 14A/AB | | | 516-870 | | 516-871 | 516-872 | 516-873 | 516-874 | 516-875 |

### DRIVERS FOR SPANNER (drilled head) SCREWS


O/A Lgth. 7-1/2"

| *SPAENAUR No.* | For Screw Size | Points C. to C. |
|---|---|---|
| 876-F46-1W | No. 4 | 3/32" |
| 876-186 | No. 6 | 1/8" |
| 876-187 | No. 8 | 5/32" |
| 876-F01-2A | No. 10 | 3/16" |
| 876-994 | No. 12 | 7/32" |
| 876-189 | 1/4", 5/16" & 3/8" | 1/4" |

### INSERT BITS FOR SPANNER SCREWS (drilled head)



Do **NOT** use Bit with Power Driver

| *SPAENAUR No.* | For Screw Size | Bit Size | Points C. to C. |
|---|---|---|---|
| 876-991 | No. 4 | 5/16" Hex x 1-1/2" Lgth. | 3/32" |
| 876-190 | No. 6 | 1/4" Hex x 1" Lgth. | 1/8" |
| 876-191 | No. 8 | 1/4" Hex x 1" Lgth. | 5/32" |
| 876-999 | No. 8 | 5/16" Hex x 1-1/2" Lgth. | 5/32" |
| 876-192 | No. 10 | 1/4" Hex x 1" Lgth. | 3/16" |
| 876-992 | No. 12 | 5/16" Hex x 1-1/2" Lgth. | 7/32" |
| 876-193 | 1/4", 5/16", 3/8" | 5/16" Hex x 1-1/2" Lgth. | 1/4" |

Magnetic Screwdrivers - **Hollow Handle** (without Bits)



Bits can be stored in hollow handle

For 1/4" Hex, use Driver **876-129** **876-131**

For 5/16" Hex, use Driver **876-130**

**WARNING:** "Spanner" Screw Drivers and Insert Bits are **NOT GUARANTEED** against breakage or wear because of their extremely hard points.

### SPANNER NUTS AND BITS



on page C62.

## SPANNER FLAT HEAD (Metric Coarse Thread) MACHINE SCREWS, 18-8 STAINLESS STEEL



| DIAMETER | Lgth. ▶ | 10 mm | 12 mm | 16 mm | 20 mm | 22 mm | 25 mm | 30 mm |
|---|---|---|---|---|---|---|---|---|
| | M3 | 381-313 | 381-314 | 381-315 | | | | |
| | M4 | 381-316 | 381-317 | 381-318 | 381-319 | | 381-320 | |
| | M5 | | 381-321 | 381-322 | 381-323 | | 381-324 | 381-325 |

## SPANNER PAN HEAD (Metric Coarse Thread) MACHINE SCREWS, 18-8 STAINLESS STEEL



| DIAMETER | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | M3 | 381-300 | 381-301 | 381-302 | | | | |
| | M4 | 381-303 | 381-304 | 381-305 | 381-306 | | 381-307 | |
| | M5 | | 381-308 | 381-309 | 381-310 | | 381-311 | 381-312 |
| | M6 | | | | | | 381-326 (use bit 876-189) | |

All Screws this page PKG QTY. 100
All Tools and Bits - PKG QTY 1

### SPANNER BITS

**METRIC - Heat Treated**



**877-689** for M3 screws (5/16" Hex.)

Use with Magnetic Driver No. 876-130 (See above.)

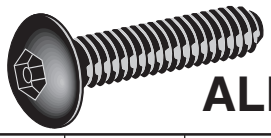


**877-691** for M5 screws (5/16" Hex.)




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# SECURITY HEX SOCKET BUTTON HEAD CAP SCREWS



Plain Finish
**ALLOY STEEL**

| LENGTH | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | 1-3/4" | 2" |
|---|---|---|---|---|---|---|---|---|---|---|
| DIA. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 4-40 | ▲381-M35-1X | 381-212 | 381-213 | | 381-214 | 381-215 | | | | |
| 6-32 | 381-216 | 381-217 | 381-218 | | 381-220 | 381-221 | | 381-222 | | |
| 8-32 | 381-223 | 381-224 | 381-225 | 381-226 | 381-227 | 381-228 | 381-229 | 381-230 | | |
| 10-24 | 381-231 | 381-232 | 381-233 | 381-234 | 381-235 | 381-236 | 381-237 | 381-238 | | |
| 10-32 | 381-239 | 381-240 | 381-241 | 381-242 | 381-243 | 381-244 | 381-245 | 381-246 | | |
| 1/4"-20 | 381-247 | 381-248 | 381-249 | 381-250 | 381-251 | 381-252 | 381-253 | ◆381-254 | 381-255 | 381-256 |
| 5/16"-18 | | | 381-257 | | 381-258 | 381-259 | | 381-260 | | |
| 3/8"-16 | | | 381-261 | | 381-262 | 381-263 | 381-264 | 381-265 | | 381-266 |

▲**381-177ZP** Zinc Plated
◆**381-254ZP** Zinc Plated

## 18-8 STAINLESS STEEL

Head/Body & Socket Dimensions to ANSI/ASME B 18.3

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-40 | 381-759 | 381-760 | 381-761 | | 381-762 | 381-763 | | | | |
| 6-32 | 381-350 | 381-351 | 381-352 | 381-764 | 381-353 | 381-354 | | 381-765 | | |
| 8-32 | 381-766 | *381-355 | 381-356 | 381-767 | 381-357 | 381-358 | 381-768 | 381-359 | | |
| 10-24 | 381-368 | 381-369 | 381-370 | 381-769 | 381-371 | 381-372 | 381-770 | 381-373 | | 381-374 |
| 10-32 | 381-360 | 381-361 | 381-362 | 381-773 | 381-363 | 381-364 | 381-365 | 381-366 | | 381-367 |
| 1/4"-20 | 381-771 | 381-772 | 381-375 | 381-376 | 381-377 | 381-378 | 381-379 | 381-380 | | 381-381 |
| 1/4"-28 | | | 381-382 | | | 381-383 | | | | |
| 5/16"-18 | | | 381-384 | | 381-385 | 381-386 | 381-387 | 381-388 | | 381-389 |
| 3/8"-16 | | | 381-390 | | 381-391 | 381-392 | | 381-393 | | |

***381-199** Use with 1/8" A/F Security Driver.

# SECURITY HEX SOCKET FLAT HEAD CAP SCREWS




Plain Finish
**ALLOY STEEL**

| LENGTH | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | 1-3/4" | 2" |
|---|---|---|---|---|---|---|---|---|---|---|
| DIA. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 4-40 | | 381-267 | 381-268 | | 381-269 | 381-270 | | | | |
| 6-32 | 381-271 | 381-272 | 381-273 | 381-274 | 381-275 | 381-276 | | 381-277 | | |
| 8-32 | 381-278 | 381-279 | 381-280 | 381-281 | 381-282 | 381-283 | 381-284 | 381-285 | | |
| 10-24 | | 381-287 | 381-288 | 381-289 | 381-290 | 381-291 | 381-292 | 381-293 | | |
| 10-32 | | 381-295 | 381-296 | 381-297 | 381-298 | ■381-299 | 381-154 | 381-155 | | |
| 1/4"-20 | | 381-157 | 381-158 | 381-159 | 381-160 | 381-161 | 381-162 | 381-163 | 381-164 | 381-165 |
| 5/16"-18 | | | 381-166 | | 381-167 | 381-168 | | 381-169 | | |
| 3/8"-16 | | | 381-170 | | 381-171 | 381-172 | 381-173 | 381-174 | | 381-175 |

## 18-8 STAINLESS STEEL

■**381-299ZP** Zinc Plated

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-32 | 381-774 | 381-394 | | 381-775 | 381-396 | 381-776 | | 381-777 | | |
| 8-32 | 381-778 | 381-397 | 381-398 | 381-779 | 381-399 | 381-400 | 381-780 | 381-781 | | |
| 10-24 | | 381-405 | 381-406 | 381-783 | 381-407 | 381-408 | 381-784 | 381-785 | | |
| 10-32 | | 381-787 | 381-401 | 381-788 | 381-402 | 381-403 | 381-789 | 381-404 | | |
| 12-24 | | | 381-409 | | | | | | | |
| 1/4"-20 | | 381-791 | 381-410 | 381-792 | 381-411 | 381-412 | 381-413 | 381-414 | | 381-793 |
| 5/16"-18 | | | 381-415 | | 381-416 | 381-417 | 381-794 | 381-418 | | |
| 3/8"-16 | | | | | 381-419 | 381-420 | 381-421 | 381-422 | | |

Continues on pages B108 and B109





PKG QTY. #6 to 1/4" Dia. - 100
PKG QTY. 5/16" and 3/8" Dia. - 50

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B

# SECURITY PHILLIPS DRIVE PAN HEAD MACHINE SCREWS

## 18-8 STAINLESS STEEL

| DIA. THREAD | 10 24 UNC | 10 32 UNF | 12 24 UNC | 1/4 20 UNC |
|---|---|---|---|---|
| DRIVER SIZE | P2 | P2 | P3 | P3 |
| **LENGTH** | **ORDER BY *SPAENAUR* NUMBERS LISTED BELOW** | | | |
| 1/2" | **381-446** | **381-440** | **381-452** | **381-456** |
| 3/4" | **381-447** | **381-441** | **381-453** | **381-457** |
| 1" | **381-448** | **381-442** | **381-454** | **381-458** |
| 1-1/4" | **381-449** | **381-443** | | **381-459** |
| 1-1/2" | **381-450** | **381-444** | **381-455** | **381-460** |
| 2" | **381-451** | **381-445** | | **381-461** |



**PKG QTY. 100**

# SECURITY PHILLIPS DRIVE FLAT HEAD MACHINE SCREWS

## 18-8 STAINLESS STEEL

| | | | | |
|---|---|---|---|---|
| 1/2" | **381-483** | **381-477** | **381-489** | **381-493** |
| 3/4" | **381-484** | **381-478** | **381-490** | **381-494** |
| 1" | **381-485** | **381-479** | **381-491** | **381-495** |
| 1-1/4" | **381-486** | **381-480** | | **381-496** |
| 1-1/2" | **381-487** | **381-481** | **381-492** | **381-497** |
| 2" | **381-488** | **381-482** | | **381-498** |




**PKG QTY. 100**

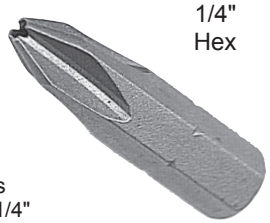
# PHILLIPS SECURITY BIT

***SPAENAUR No.***
**876-773**

Phillips #2 Pin-Head Bits fit sizes #6 to #10 screws.

***SPAENAUR No.***
**876-1573**

Phillips #3 Pin-Head Bits fit sizes #12 to 1/4" screws.




**PKG QTY. 1**

**For MAGNETIC DRIVERS - Solid and Hollow Handle
See page P17.**

# PHILLIPS SECURITY SCREW DRIVER




***SPAENAUR No.***
**876-851**

Screw Driver fits #6 to #10 Dia. Phillips Drive Security Screws.

**PKG QTY. 1**

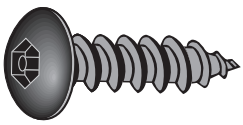




Security Bits and Tools are not guaranteed against overtorque, breakage or wear

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# SECURITY HEX SOCKET BUTTON HEAD, Type A or AB SHEET METAL SCREWS (our option)



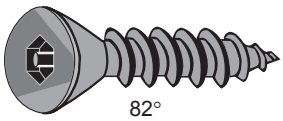
**STEEL**
**Case-Hardened**
Zinc Plated

| LENGTH | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | TOOLS BIT | TOOLS KEYS |
|---|---|---|---|---|---|---|---|---|---|---|
| DIA. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 6 (3.5 mm) | 516-050 | 516-051 | 516-052 | 516-053 | 516-054 | | 516-055 | | 876-769 | 130-093 |
| 8 (4.2 mm) | 516-056 | 516-057 | 516-058 | 516-059 | 516-060 | 516-061 | 516-062 | 516-063 | 876-770 | 130-T03-1C |
| 10 (4.8 mm) | | 516-064 | 516-065 | 516-066 | 516-067 | 516-068 | 516-069 | 516-070 | 876-770 | 130-T03-1C |
| 14 (6.3 mm) | | 516-071 | 516-072 | 516-073 | 516-074 | 516-075 | 516-076 | 516-077 | 876-770 | 130-T03-1C |

## 18-8 STAINLESS STEEL

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 (3.5 mm) | 516-748 | 516-749 | 516-750 | 516-751 | 516-752 | | 516-753 | | 876-769 | 130-093 |
| 8 (4.2 mm) | 516-754 | 516-755 | 516-756 | 516-757 | 516-758 | 516-759 | 516-760 | 516-761 | 876-770 | 130-T03-1C |
| 10 (4.8 mm) | | 516-762 | 516-763 | 516-764 | 516-765 | 516-766 | 516-767 | 516-768 | 876-770 | 130-T03-1C |
| 14 (6.3 mm) | | 516-769 | | 516-770 | 516-771 | 516-772 | 516-773 | 516-774 | 876-770 | 130-T03-1C |

# SECURITY HEX SOCKET FLAT HEAD, Type A or AB SHEET METAL SCREWS (our option)



82°
Ctsk. Hd.

**STEEL**
**Case-Hardened**
Zinc Plated

| LENGTH | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | TOOLS BIT | TOOLS KEYS |
|---|---|---|---|---|---|---|---|---|---|---|
| DIA. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 6 (3.5 mm) | 516-078 | 516-079 | 516-080 | 516-081 | 516-082 | | 516-083 | | 876-769 | 130-093 |
| 8 (4.2 mm) | | 516-084 | 516-085 | 516-086 | 516-087 | 516-088<br>**516-088BK** Oil Black Phosphate Fin. | 516-089 | 516-090 | 876-770 | 130-T03-1C |
| 10 (4.8 mm) | | 516-091 | 516-092 | 516-093<br>**516-093P** Plain Finish | 516-094 | 516-095 | 516-096 | 516-097 | 876-770 | 130-T03-1C |
| 14 (6.3 mm) | | | 516-098 | 516-099 | 516-100 | 516-101 | 516-102 | 516-103 | 876-770 | 130-T03-1C |

## 18-8 STAINLESS STEEL

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 (3.5 mm) | 516-775 | 516-776 | 516-777 | 516-778 | 516-779 | | 516-780 | | 876-769 | 130-093 |
| 8 (4.2 mm) | | 516-781 | 516-782 | 516-783 | 516-784 | 516-785 | 516-786 | 516-787 | 876-770 | 130-T03-1C |
| 10 (4.8 mm) | | 516-788 | 516-789 | 516-790 | 516-791 | 516-792 | 516-793 | 516-794 | 876-770 | 130-T03-1C |
| 14 (6.3 mm) | | | | 516-795 | 516-796 | 516-797 | 516-798 | 516-799 | 876-770 | 130-T03-1C |

SECURITY BITS & TOOLS ARE NOT GUARANTEED AGAINST OVERTORQUE, BREAKAGE OR WEAR.

## HEX SOCKET SECURITY BITS



1/4" Hex

| *SPAENAUR No.* | ACROSS FLATS | FITS BUTTON HEAD | FITS FLAT HEAD |
|---|---|---|---|
| 876-835 | 3/32" | #4 | #4 |
| 876-769 | 1/8" | #6 | #6 |
| 876-770 | 5/32" | #8, #10, #14, and 1/4" | #8, #10, #14, and 1/4" |
| 876-771 | 3/16" | 5/16" | 5/16" |
| 876-772 | 7/32" | 3/8" | 3/8" |



**Alloy Steel**

**Short Arm Security Hex Keys**
Drilled on both ends.
(*Drilled both or short end only - our option.)

| *SPAENAUR No.* | *NOM. KEY SIZE OR ACROSS FLATS | W WIDTH ACROSS FLATS Max. | B LENGTH OF SHORT ARM Max. | C LENGTH OF LONG ARM Max. | HOLE SIZE +.005 |
|---|---|---|---|---|---|
| 130-100 | 3/32" (0.094)" | 0.0937" | 0.750" | 2.094" | .050" |
| 130-093 | 1/8" (0.125)" | 0.1250" | 0.844" | 2.344" | .075" |
| 130-094 | 9/64" (0.141)" | 0.1406" | 0.891" | 2.469" | .084" |
| 130-T03-1C | 5/32" (0.156)" | 0.1562" | 0.938" | 2.594" | .097" |
| 130-096 | 3/16" (0.188)" | 0.1875" | 1.031" | 2.844" | .102" |
| 130-097 | 7/32" (0.219)" | 0.2187" | 1.125" | 3.094" | .123" |
| *130-098 | 1/4" (0.250)" | 0.2500" | 1.219" | 3.344" | .123" |
| *130-099 | 5/16" (0.312)" | 0.3125" | 1.344" | 3.844" | .201" |

Please refer to above chart when selecting security Hex Keys by Screw Diameter(s).

For MAGNETIC DRIVERS - Solid Handle
See page P17.

All Security Bits PKG QTY. 1
All screws this page PKG QTY. 100



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B

## SECURITY PHILLIPS DRIVE PAN HEAD SHEET METAL SCREWS TYPE A or AB (our option)



**18-8 STAINLESS STEEL**

| DIA. | #10 | #12 | #14 |
|---|---|---|---|
| DRIVER SIZE | P2 | P3 | P3 |
| **LENGTH** | **ORDER BY *SPAENAUR* NUMBERS LISTED BELOW** | | |
| 1/2" | **516-977** | **516-986** | **516-994** |
| 3/4" | **516-978** | **516-987** | **516-995** |
| 1" | **516-979** | **516-988** | **516-996** |
| 1-1/4" | **516-980** | **516-989** | **516-997** |
| 1-1/2" | **516-981** | **516-990** | **516-998** |
| 2" | **516-982** | **516-991** | **516-999** |
| 2-1/2" | **516-983** | **516-992** | **516-1000** |
| 3" | **516-984** | **516-C42-1C** | **516-1001** |
| 3-1/2" | **516-985** | | |

## SECURITY PHILLIPS DRIVE FLAT HEAD SHEET METAL SCREWS TYPE A or AB (our option)




**18-8 STAINLESS STEEL**

| DIA. | #10 | #12 | #14 |
|---|---|---|---|
| DRIVER SIZE | P2 | P3 | P3 |
| **LENGTH** | **ORDER BY *SPAENAUR* NUMBERS LISTED BELOW** | | |
| 1/2" | **516-1017** | **516-1025** | |
| 3/4" | **516-1018** | **516-1026** | **516-1034** |
| 1" | **516-1019** | **516-1027** | **516-1035** |
| 1-1/4" | **516-1020** | **516-1028** | **516-1036** |
| 1-1/2" | **516-1021** | **516-1029** | **516-1037** |
| 2" | **516-1022** | **516-1030** | **516-1038** |
| 2-1/2" | **516-1023** | **516-1031** | **516-1039** |
| 3" | **516-1024** | **516-1032** | **516-1040** |

**ALL SCREWS ON THIS PAGE - PKG QTY. 50**



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# TORX® TAMPER-RESISTANT BUTTON HEAD MACHINE SCREWS



Plain Finish
**ALLOY STEEL**

| LENGTH | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | Torx Recess Size |
|---|---|---|---|---|---|---|---|---|
| DIA. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 6-32 | **381-600** | **381-601** | | **381-602** | **381-603** | | **381-604** | TR10 |
| 8-32 | **381-605** | **381-606** | | **381-607** | **381-608** | **381-609** | **381-610** | TR15 |
| 10-24 | | **381-611** | | **381-612** | **381-613** | **381-614** | **381-615** | TR25 |
| 10-32 | | **381-616** | | **381-617** | **381-618** | **381-619** | **381-620** | TR25 |
| 1/4"-20 | **381-621** | **381-622** | | **381-623** | **381-624** | **381-625** | **381-626** | TR27 |

## 18-8 STAINLESS STEEL

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6-32 | **381-654** | **381-655** | | **381-656** | **381-657** | | **381-658** | TR10 |
| 8-32 | **381-659** | **381-660** | | **381-661** | **381-G04-1N** | **381-663** | **381-664** | TR15 |
| 10-24 | **381-665** | **381-666** | | **381-667** | **381-668** | **381-669** | **381-670** | TR25 |
| 10-32 | **381-671** | **381-672** | | **381-673** | **381-674** | **381-675** | **381-676** | TR25 |
| 1/4"-20 | **381-677** | **381-678** | **381-679** | **381-680** | **381-681** | **381-682** | **381-683** | TR27 |

# TORX® TAMPER-RESISTANT FLAT HEAD MACHINE SCREWS



82° Ctsk. Hd.

Plain Finish
**ALLOY STEEL**

| LENGTH | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | Torx Recess Size |
|---|---|---|---|---|---|---|---|---|
| DIA. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 6-32 | **381-627** | **381-628** | | **381-629** | **381-630** | | **381-631** | TR15 |
| 8-32 | **381-632** | **381-633** | | **381-634** | **381-635** | **381-636** | **381-637** | TR20 |
| 10-24 | | **381-638** | | **381-639** | **381-640** | **381-641** | **381-642** | TR25 |
| 10-32 | | **381-643** | | **381-644** | **381-645** | **381-646** | **381-647** | TR25 |
| 1/4"-20 | ***381-648** | ***381-649** | **381-599** | **381-650** | **381-651** | **381-652** | **381-653** | TR30 |

*Undercut Head - TR27 Drive

## 18-8 STAINLESS STEEL

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6-32 | **381-684** | **381-685** | | **381-686** | **381-687** | | **381-688** | TR15 |
| 8-32 | **381-689** | **381-690** | | **381-691** | **381-692** | **381-693** | **381-694** | TR20 |
| 10-24 | **381-695** | **381-696** | | **381-697** | •**381-698** | **381-699** | **381-700** | TR25 |
| 10-32 | **381-701** | **381-702** | | **381-703** | **381-704** | **381-705** | **381-706** | TR25 |
| 12-24 | | ▲**381-707** | | **381-708** | **381-709** | | | TR25 |
| 1/4"-20 | ■**381-710** | ■**381-711** | | | | | | TR27 |
| 1/4"-20 | **381-718** | | **381-712** | **381-713** | **381-714** | **381-715** | **381-716** | TR30 |

▲ Undercut Head - TR20 Drive • **381-717** TR20 Drive ■ Undercut Head

**All Screws on This Page - PKG QTY. 100**

**For Torx® Tamper-Resistant Bits and Drivers See page B115.**



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B

## TORX® TAMPER-RESISTANT BUTTON HEAD, Type A or AB (our option) SHEET METAL SCREWS



**STEEL**
Plain Finish
C-1018/C-1022
**Case-Hardened**
**PKG QTY. 100**

| LENGTH | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | Torx Recess Size |
|---|---|---|---|---|---|---|---|
| DIA. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 6 (3.5 mm) | 516-200 | | 516-201 | 516-202 | | 516-203 | TR10 |
| 8 (4.2 mm) | 516-204 | | 516-205 | 516-206 | 516-207 | 516-208 | TR15 |
| 10 (4.8 mm) | 516-209 | | 516-210 | 516-211 | 516-212 | 516-213 | TR25 |
| 14 (6.3 mm) | 516-214 | | 516-215 | 516-216 | 516-217 | 516-218 | TR27 |

### 18-8 STAINLESS STEEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6 (3.5 mm) | 516-921 | | 516-922 | 516-923 | | 516-924 | TR10 |
| 8 (4.2 mm) | 516-925 | | 516-926 | 516-927 | 516-928 | 516-929 | TR15 |
| 10 (4.8 mm) | 516-930 | | 516-931 | 516-932 | 516-933 | 516-934 | TR25 |
| 14 (6.3 mm) | 516-935 | | 516-936 | 516-937 | 516-938 | 516-939 | TR27 |

## TORX® TAMPER-RESISTANT FLAT HEAD, Type A or AB (our option) SHEET METAL SCREWS



82°
Ctsk. Hd.

**STEEL**
Plain Finish
C-1018/C-1022
**Case-Hardened**
**PKG QTY. 100**

| LENGTH | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | Torx Recess Size |
|---|---|---|---|---|---|---|---|
| DIA. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 6 (3.5 mm) | | | | 516-221 | | | TR10 |
| 6 (3.5 mm) | 516-026 | | 516-220 | | | 516-222 | TR15 |
| 8 (4.2 mm) | 516-237 | | 516-239 | 516-240 | 516-238 | 516-242 | TR20 |
| 10 (4.8 mm) | | | 516-229 | | | | TR20 |
| 10 (4.8 mm) | 516-228 | | | 516-230 | 516-231 | 516-232 | TR25 |
| 14 (6.3 mm) | | | 516-233 | 516-234 | 516-235 | 516-236 | TR30 |

### 18-8 STAINLESS STEEL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6 (3.5 mm) | 516-940 | | 516-941 | 516-942 | | 516-943 | TR15 |
| 8 (4.2 mm) | 516-944 | | 516-945 | 516-946 | 516-947 | 516-948 | TR20 |
| 10 (4.8 mm) | 516-949 | | 516-950 | 516-951 | 516-952 | 516-953 | TR25 |
| 14 (6.3 mm) | | 516-954 | 516-955 | 516-956 | 516-957 | 516-958 | TR30 |

**Torx® Pan Head, Tamper-Resistant Self-Drilling, Tapping Screw**

***SPAENAUR No.***
**516-199**

#8 x 3/4" long



#2 Point Style
**410 Stainless Steel**-Hardened
*(Use TR20 Torx Bit)*
**PKG QTY. 100**

**For additional Torx Tamper-Resistant items see pages B111, B113 - B115.**



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# TORX® TAMPER-RESISTANT SHEET METAL SCREWS

## Alloy Steel

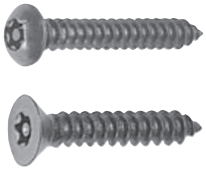
## 27 Items - 507 Pieces

13-3/8" W x 9-1/4" D x 2" H

Furnished in a REGULAR SIZE grey enamelled steel drawer. Drawer will fit into Slide Racks shown on page A2

805-547A Shipping weights
**3.61 kg** (7.97 lbs.)
**3.64 kg** (8.04 lbs.)



ASSORTMENT / ASSORTIMENT **805-548**

### Machine Screws

| Spaenaur No. | Size | Qty. | Page |
|---|---|---|---|
| **Button Head** | | | |
| **381-600** | #6-32 x 3/8" | 25 | **B111** |
| **381-601** | #6-32 x 1/2" | | |
| **381-602** | #6-32 x 3/4" | | |
| **381-606** | #8-32 x 1/2" | | |
| **381-608** | #8-32 x 1" | | |
| **381-612** | #10-24 x 3/4" | | |
| **381-613** | #10-24 x 1" | | |
| **381-617** | #10-32 x 3/4" | | |
| **381-618** | #10-32 x 1" | | |
| **381-624** | 1/4"-20 x 1" | | |
| **381-626** | 1/4"-20 x 1-1/2" | | |
| **Flat Head** | | | |
| **381-627** | #6-32 x 3/8" | 25 | **B111** |
| **381-633** | #8-32 x 1/2" | | |
| **381-634** | #8-32 x 3/4" | | |
| **381-638** | #10-24 x 1/2" | | |
| **381-639** | #10-24 x 3/4" | | |
| **381-640** | #10-24 x 1" | | |
| **381-645** | #10-32 x 1" | | |
| **381-650** | 1/4"-20 x 3/4" | | |
| **381-651** | 1/4"-20 x 1" | | |
| **Insert Bits** | | | |
| **876-348** | TR10 | 1 | **B113 P16** |
| **876-349** | TR15 | | |
| **876-823** | TR20 | | |
| **876-350** | TR25 | | |
| **876-351** | TR27 | | |
| **876-892** | TR30 | | |
| **Driver** | | | |
| **876-124** | 1/4" | 1 | **P17** |

ASSORTMENT / ASSORTIMENT **805-547A**

### Sheet Metal Screws

| Spaenaur No. | Size | Qty. | Page |
|---|---|---|---|
| **Button Head** | | | |
| **516-200** | #6 x 1/2" | 25 | **B112** |
| **516-202** | #6 x 1" | | |
| **516-204** | #8 x 1/2" | | |
| **516-206** | #8 x 1" | | |
| **516-208** | #8 x 1-1/2" | | |
| **516-209** | #10 x 1/2" | | |
| **516-211** | #10 x 1" | | |
| **516-213** | #10 x 1-1/2" | | |
| **516-216** | #14 x 1" | | |
| **516-218** | #14 x 1-1/2" | | |
| **Flat Head** | | | |
| **516-026** | #6 x 1/2" | 25 | **B112** |
| **516-221** | #6 x 1" | | |
| **516-237** | #8 x 1/2" | | |
| **516-240** | #8 x 1" | | |
| **516-242** | #8 x 1-1/2" | | |
| **516-228** | #10 x 1/2" | | |
| **516-230** | #10 x 1" | | |
| **516-232** | #10 x 1-1/2" | | |
| **516-234** | #14 x 1" | | |
| **516-236** | #14 x 1-1/2" | | |
| **Insert Bits** | | | |
| **876-348** | TR10 | 1 | **B115 P16** |
| **876-349** | TR15 | | |
| **876-823** | TR20 | | |
| **876-350** | TR25 | | |
| **876-351** | TR27 | | |
| **876-892** | TR30 | | |
| **Driver** | | | |
| **876-124** | 1/4" | 1 | **P17** |

ASSORTMENT / ASSORTIMENT **805-543**

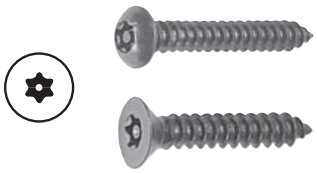
# TORX® TAMPER-RESISTANT SCREWS

## 18-8 Stainless Steel

## 27 SIZES - 507 PIECES

Furnished in a REGULAR SIZE grey enamelled steel drawer. Drawer will fit into Slide Racks shown on page A2

13-3/8" W x 9-1/4" D x 2" H
Shipping Weight: **3.5 kg** (7-3/4 lbs.)



| Spaenaur No. | Size | Qty. | Page |
|---|---|---|---|
| **Button Head** | | | |
| **516-921** | #6 x 1/2" | 25 | **B112** |
| **516-923** | #6 x 1" | | |
| **516-925** | #8 x 1/2" | | |
| **516-927** | #8 x 1" | | |
| **516-929** | #8 x 1-1/2" | | |
| **516-930** | #10 x 1/2" | | |
| **516-932** | #10 x 1" | | |
| **516-934** | #10 x 1-1/2" | | |
| **516-937** | #14 x 1" | | |
| **516-939** | #14 x 1-1/2" | | |
| **Flat Head** | | | |
| **516-940** | #6 x 1/2" | 25 | **B112** |
| **516-942** | #6 x 1" | | |
| **516-944** | #8 x 1/2" | | |
| **516-946** | #8 x 1" | | |
| **516-948** | #8 x 1-1/2" | | |
| **516-949** | #10 x 1/2" | | |
| **516-951** | #10 x 1" | | |
| **516-953** | #10 x 1-1/2" | | |
| **516-956** | #14 x 1" | | |
| **516-958** | #14 x 1-1/2" | | |
| **Insert Bits** | | | |
| **876-348** | TR10 | 1 | **B115 P16** |
| **876-349** | TR15 | | |
| **876-823** | TR20 | | |
| **876-350** | TR25 | | |
| **876-351** | TR27 | | |
| **876-892** | TR30 | | |
| **Driver** | | | |
| **876-124** | 1/4" | 1 | **P17** |





P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B

## Torx® Tamper-Resistant Button Head Machine Screws



A2 Stainless Steel

| | M4 | M5 | M6 |
|---|---|---|---|
| | Pitch 0.70 | Pitch 0.80 | Pitch 1.00 |
| Torx Recess Size | TR20 | TR25 | TR30 |
| Length mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | |
| 8 | 381-1057 | 381-1066 | |
| 10 | 381-1058 | 381-1067 | 381-1076 |
| 12 | 381-1059 | 381-1068 | 381-1077 |
| 16 | 381-1060 | 381-1069 | 381-1078 |
| 20 | 381-1061 | 381-1070 | 381-1079 |
| 25 | 381-1062 | 381-1071 | 381-1080 |
| 30 | 381-1063 | 381-1072 | 381-1081 |
| 40 | 381-1064 | 381-1073 | 381-1082 |
| 50 | 381-1065 | 381-1074 | 381-1083 |
| 60 | | 381-1075 | 381-1084 |

## Torx® Tamper-Resistant Flat Head Machine Screws

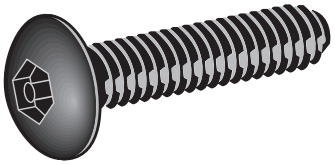


90° Ctsk. Hd.

A2 Stainless Steel

| | | | |
|---|---|---|---|
| 8 | 381-1085 | 381-1094 | |
| 10 | 381-1086 | 381-M40-1Y | 381-1105 |
| 12 | 381-1087 | 381-1096 | 381-1106 |
| 16 | 381-1088 | 381-1097 | 381-1107 |
| 20 | 381-1089 | 381-1098 | 381-1108 |
| 25 | 381-1090 | 381-1099 | 381-1109 |
| 30 | 381-1091 | 381-1100 | 381-1110 |
| 40 | 381-1092 | 381-1101 | 381-1111 |
| 50 | 381-1093 | 381-1102 | 381-1113 |
| 60 | | 381-1103 | 381-1112 |
| 70 | | 381-1104 | |

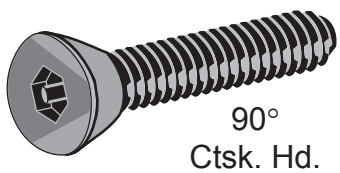
## Security Hex Socket Button Head Machine Screws



A2 Stainless Steel

| | M4 | M5 | M6 | M8 | M10 |
|---|---|---|---|---|---|
| | Pitch 0.70 | Pitch 0.80 | Pitch 1.00 | Pitch 1.25 | Pitch 1.50 |
| Bit/Tool Size | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm |
| Length mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 8 | 381-G02-1Y | | | | |
| 10 | 381-1002 | 381-M37-1P | 381-1015 | | |
| 12 | 381-1003 | 381-1009 | 381-1016 | 381-1023 | |
| 16 | 381-1004 | 381-1010 | 381-M36-2A | 381-1024 | |
| 20 | 381-1005 | 381-1011 | 381-1018 | 381-1025 | 381-1030 |
| 25 | 381-1006 | 381-1012 | 381-1019 | 381-1026 | 381-1031 |
| 30 | 381-1007 | 381-1013 | 381-1020 | 381-1027 | 381-1032 |
| 40 | | 381-1014 | 381-1021 | 381-1028 | 381-1033 |
| 50 | | | 381-1022 | 381-1029 | 381-1034 |

## Security Hex Socket Flat Head Machine Screws



90° Ctsk. Hd.

A2 Stainless Steel

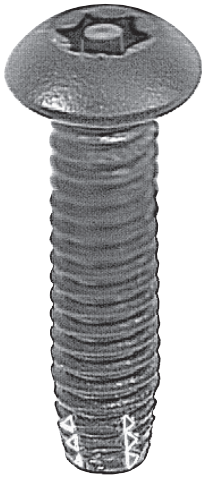
| | | | |
|---|---|---|---|
| 8 | 381-1035 | | |
| 10 | 381-1036 | 381-1042 | 381-1049 |
| 12 | 381-1037 | 381-1043 | 381-1050 |
| 16 | 381-1038 | 381-1044 | 381-1051 |
| 20 | 381-1039 | 381-1045 | 381-1052 |
| 25 | 381-1040 | 381-1046 | 381-1053 |
| 30 | 381-1041 | 381-1047 | 381-1054 |
| 40 | | 381-1048 | 381-1055 |
| 50 | | | 381-1056 |



PKG QTY. M4 to M8 - 50
PKG QTY. M10 - 25

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B



## TORX TAMPER-RESISTANT
**BUTTON HEAD**
**Type F**
**Case-Hardened STEEL**
**Zinc Plated**

## THREAD-CUTTING SCREWS

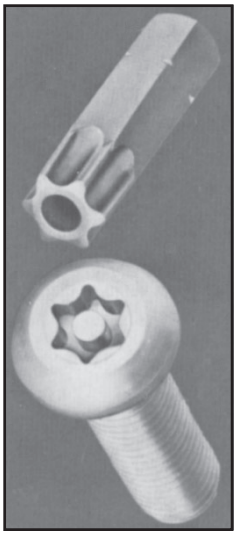
Also suitable for use as machine screws in pre-threaded holes.

| *SPAENAUR No.* | Type F Screw Size | Head Style | Torx Recess Size | PKG QTY. |
|---|---|---|---|---|
| **381-201** | 8-32 x 3/4" | Button Head TORX Tamper-Resistant | TR15 | 100 |
| **381-202** | 8-32 x 1" | | | 100 |
| **381-207** | 10-24 x 5/8" | | TR25 | 100 |
| **381-G01-1P** | 10-24 x 1" | | | 100 |
| **381-204** | 10-32 x 1/2" | | | 100 |
| **381-205** | 10-32 x 3/4" | | | 100 |
| **381-209** | 1/4"-20 x 3/4" | | TR27 | 100 |
| **381-210** | 1/4"-20 x 1" | | | 100 |
| **381-211** | 1/4"-20 x 1-1/2" | | | 100 |

## TORX® TAMPER-RESISTANT BITS and DRIVERS for Recessed Tamper-Resistant Screws

The tamper-resistant TORX drive has a post in the centre of its recess which requires a specially mated driver to remove the fastener. Unauthorized removal is prevented.

| | *SPAENAUR* NUMBERS LISTED BELOW | | | |
|---|---|---|---|---|
| **Torx Recess Size** | **HAND DRIVER** Approx. O/A Lgth. | with integral Bit and plastic handle | ***INSERT BIT** 1/4" Hex - 1" long ▲5/16" Hex - 1-1/4" long | **KEY WRENCH** Short Arm drilled both ends Alloy Steel |
| TR7 | 5-7/8" | **876-F16-1C** | — | — |
| TR8 | 5-7/8" | **876-1705** | **876-890** | — |
| TR9 | 5-7/8" | **876-F53-1Y** | **876-891** | — |
| TR10 | 5-7/8" | **876-1707** | **876-348** | **876-1785** |
| TR15 | 6-7/8" | **876-345** | **876-349** | **876-1786** |
| TR20 | 6-7/8" | **876-1708** | **876-823** | **876-1787** |
| TR25 | 7-3/4" | **876-346** | **876-350** | **876-1788** |
| TR27 | 8" | **876-347** | **876-351** | **876-1789** |
| TR30 | 8-1/2" | **876-1709** | **876-892** | **876-1790** |
| TR40 | 8-1/2" | **876-1710** | **876-893** | **876-1791** |
| TR45 | 8-1/2" | **876-1711** | ▲**876-1792** | — |
| TR50 | 8-1/2" | — | ▲**876-1793** | — |



See pages B111 and B112 for screws.

*Not for use with power driver.



(Hollow handle for storing bits.)

(Bits not included.)

**NOTE:** SPANNER and TORX "Tamper Resistant" tools, are NOT guaranteed against overtorque, misuse, breakage or wear.

**ALL BITS and TOOLS PKG QTY.1**

| *Spaenaur No.* | Magnetic Driver Handles |
|---|---|
| **876-129 876-131** | for 1/4" hex bits shown in chart. |
| **876-130** | for 5/16" hex bits shown in chart. |



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B

OPSIT™



# A New Twist In Tamper-Resistant Screws



**Type A**

**18-8 STAINLESS STEEL**

The Opsit has a Tri-Wing® drive and low-profile Truss Head with a left-hand thread that tightens the screw with each **counter-clockwise** turn!

| *SPAENAUR No.* | Type A Screw Size | Bit Size | PKG QTY. |
|---|---|---|---|
| **516-1041** | #8 x 1/2" | 4 | 50 |
| **516-1042** | #8 x 3/4" | 4 | 50 |
| **516-1043** | #8 x 1" | 4 | 50 |
| **516-1046** | #10 x 1/2" | 5 | 50 |
| **516-C41-1Y** | #10 x 3/4" | 5 | 50 |
| **516-1048** | #10 x 1" | 5 | 50 |
| **516-1049** | #10 x 1-1/4" | 5 | 50 |
| **516-1050** | #10 x 1-1/2" | 5 | 50 |

## Insert Bits for use with Tri-Wing® Screws above.

*Not for use with power drivers.*



**Tri-Wing**

**Alloy Steel**
**Top Quality, extra hard (Grey)**

1/4" hex shanks, 1" long.

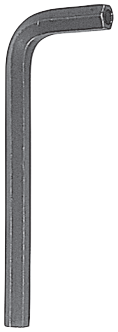
***See page P17 for Bit Driver Handles.***

| Bit Point Size | *SPAENAUR No.* |
|---|---|
| **0** | **876-1631** |
| **1** | **876-218** |
| **2** | **876-1634** |
| **3** | **876-1635** |
| **4** | **876-1636** |
| **5** | **876-1637** |
| **6** | **876-1638** |

**All Bits PKG QTY. 1**

## Metric Hex Socket Security Bits and Keys

**All Bits & Keys PKG QTY. 1**

| Bit Size Across Flats |  | Insert Bits *SPAENAUR No.* | Insert Bits Length and Hex Size |  | Hex Keys *SPAENAUR No.* | Hex Keys Lengths |
|---|---|---|---|---|---|---|
| 2.5 mm | | **877-535** | 25 x 6.3 mm | | - | - |
| 3 mm | | **877-536** | 25 x 6.3 mm | | - | - |
| 4 mm | | **877-537** | 25 x 6.3 mm | | **877-C09-1Y** | 21 x 64 mm |
| 5 mm | | **877-538** | 25 x 6.3 mm | | **877-543** | 25 x 68 mm |
| 6 mm | | **877-539** | 25 x 6.3 mm | | **877-544** | 32 x 90 mm |

Hex keys have a hole in both ends.

For Tampruf Fasteners see Page B103



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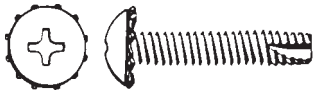
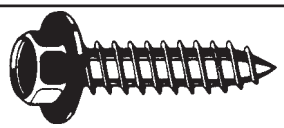
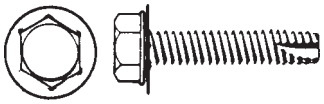
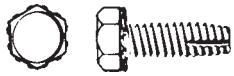
Hardened
# STEEL

## "SEMS" TYPE TAPPING SCREWS

HEXAGON & PHILLIPS DRIVE

**TYPES**
**A, B, 1, 23, 25**

B

| ILLUSTRATION | *SPAENAUR No.* | SIZE | DESCRIPTION | PKG QTY. |
|---|---|---|---|---|
|  | **464-109** | #6 x 1/2" (1/4" AF) | Indented Hexagon Head, Steel, Zinc Plated Type 25 - with 1/4" O.D. External Tooth Lockwasher. | 100 |
|  | **460-B07-1N** | 8-32 x 1/2" | Phillips Truss Head, Steel, Zinc Plated Type 23 - with 3/8" O.D. External Tooth Lockwasher. | 100 |
|  | **2357** | #8 x 7/16" | Phillips Round Washer Head, Steel, Nickel Plated Type A - with 3/8" O.D. External Tooth Lockwasher. | 100 |
|  | **SE-29**<br>**SE-30**<br>**SE-31**<br>**SE-32** | #8 x 5/8"<br>#8 x 3/4"<br>#8 x 1"<br>#8 x 1-1/4" | Phillips Oval Head, Steel, Nickel Plated Type A - with Nickel Plated Finishing Washer. Screws have No. 6 Head.<br>***Auto Trim* TAPPING Screws** | 100<br>100<br>100<br>100 |
|  | **ST-78H** | #14A x 3/4" | Indented Hexagon Head (7/16" AF), Steel, Zinc Plated Type AB - with 5/8" O.D. x 3/64" Thick Flat Washer. | 50 |
|  | **464-A01-1X** | 5/16"-18 x 1-5/8" (1/2" AF) | Indented Hexagon Head, Steel, Cadmium Plated Type 23 - with 3/4" O.D. Flat Washer. Indented Hexagon Head, Steel, Zinc Plated | 100 |
|  | **460-B03-1A** | 5/16"-18 x 1/2" (1/2" AF) | Type 1 - with 9/16" O.D. External Tooth Lockwasher. | 100 |

NEW

E-Z COIL

For E-Z Coil® Thread Repair Kit
See Page C191




STANDARD




ECONOMY



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# STEEL
**Inch Sizes**
**ASME B18.13**

## "SEMS" TYPE MACHINE SCREWS

**SLOT** | **PHILLIPS**

**PLATING:** Zinc or Cadmium at our option.

B

| ILLUSTRATION | *SPAENAUR No.* | SIZE | DESCRIPTION | PKG QTY. |
|---|---|---|---|---|
|  | **B-950** | 1/4"-20 UNC x 7/16" | Slot Binding Head, Steel, Plated, Sems Screw - with External Tooth Shakeproof Lockwasher. | 100 |
|  | **460-B01-1M** | 4-40 UNC x 1/4" | Phillips Pan Head, Steel, Plated, Sems Screw- with External Tooth Shakeproof Lockwasher. | 100 |
| | **460-001** | 4-40 UNC x 1/2" | | 100 |
| | **460-B02-1X** | 6-32 UNC x 1/4" | | 100 |
| | **460-B04-1P** | 6-32 UNC x 3/8" | | 100 |
| | **SE-84P** | 10-24 UNC x 7/8" | | 100 |
| | **SE-26** | 10-32 UNF x 5/18" | | 100 |
| | **460-022** | 10-32 UNF x 1" | | 100 |
|  | **460-B05-1Y** | 8-32 UNC x 3/8" | Phillips Pan Head, Steel, Nickel Plated, Sems Screw- with Internal Tooth Lockwasher. | 100 |

# STEEL

## PHILLIPS DRIVE
(Cross Recess)

| ILLUSTRATION | *SPAENAUR No.* | SIZE | DESCRIPTION | PKG QTY. |
|---|---|---|---|---|
|  | **SE-50P** | 8-32 UNC x 1/2" | Phillips Binding Head, Zinc Plated Steel, Sems | 100 |

# STEEL
**Inch Sizes**
*Type 23 Thread-Cutting.

| *SPAENAUR No.* | Screw Size | Head Style | Width Across Flat | Washer Type | Washer O.D. | Finish | PKG QTY. |
|---|---|---|---|---|---|---|---|
| **SE-18-ZP** | 1/4"-20 x 5/8" | Indented Hex. | 7/16" | Ext. Tooth | .480" | Zinc | 50 |
| ***SE-77H** | 5/16"-18 x 1-5/8" | Indented Hex. | 1/2" | Flat | 3/4" | Zinc Chr. | 100 |

## KNURLED HEAD MACHINE SCREWS
Steel - Nickel Plated

**MS-443** | 8-32 x 1/2" | Nic. Pltd

**PKG QTY. 100**

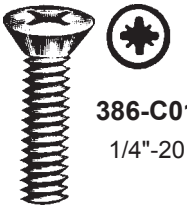
Hardened Screw-in Stud. Stainless steel replaces weld on stud used for attaching moulding clips to body.

**599-015**

**SIZE:** #4B x 5/8"



**PKG QTY. 100**



**386-C01-1K**
1/4"-20 x 1"

**Pozi-Drive Flat Ctsk.**
**Steel Mach. Screw**
Zinc Di-chromate
ASME B18.6.3

**PKG QTY. 100**

**535-005**



10 x 1-1/4" Round Hd.

**"SCRULOX 8" Drive**
(use Robertson Square Soc. Driver)

**Type AB**
**Tapping Screws**

Zinc Chromate Plated

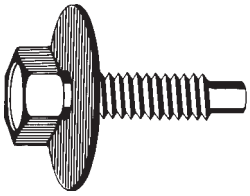
**PKG QTY. 100**



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# STEEL

## Hex Head



## Dog Point

**Ford Products '77/.**

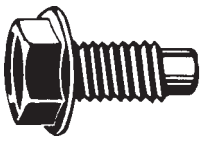
B

| *SPAENAUR No.* | Screw Size | Hex Width | Washer O.D. | Finish | PKG QTY. |
|---|---|---|---|---|---|
| **460-002** | 1/4"-20 x 3/4" | 7/16" | 3/4" | Phosphate and Oil | 50 |
| **460-003** | 1/4"-20 x 15/16" | 7/16" | 3/4" | Black Phosphate | 50 |
| **460-004** | 1/4"-20 x 15/16" | 7/16" | 3/4" | Dichromate | 50 |
| **460-005** | 1/4"-20 x 1-1/8" | 7/16" | 3/4" | Dichromate | 50 |
| **460-006** | 5/16"-18 x 15/16" | 1/2" | 7/8" | Dichromate | 50 |
| **460-007** | 5/16"-18 x 15/16" | 1/2" | 7/8" | Phosphate and Oil | 50 |
| **460-008** | 5/16"-18 x 1-1/16" | 1/2" | 7/8" | Dichromate | 50 |
| **460-009** | 5/16"-18 x 1-3/16" | 1/2" | 7/8" | Dichromate | 50 |
| **460-011** | 5/16"-18 x 1-3/16" | 1/2" | 7/8" | Phosphate and Oil | 50 |
| **460-B06-1C** | 5/16"-18 x 1-7/16" | 1/2" | 7/8" | Dichromate | 50 |
| **460-013** | 3/8"-16 x 1-3/16" | 9/16" | 1" | Phosphate and Oil | 50 |

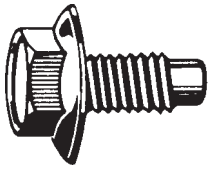
***See Page B121 and B122 for Metric sizes.***

# Automotive and Special Screws
# Vis d'automobile et vis spéciales

## STEEL



**MS-243**



**MS-241**

**INCH SIZES**

| *SPAENAUR No.* | Screw Size | Head Style, Etc. | Hex. Width | Head O.D. | Point Style | Finish |
|---|---|---|---|---|---|---|
| **MS-243** | 5/16"-18 x 3/4" | Indented Hex. Washer "Spin-Lok" | 1/2" | 13/16" | Dog | Cadmium |
| **MS-241** | 5/16"-24 x 1" | Indented Hex. Washer "Spin-Lok" | 1/2" | 13/16" | Dog | Parkerized |

**PKG QTY. 50**

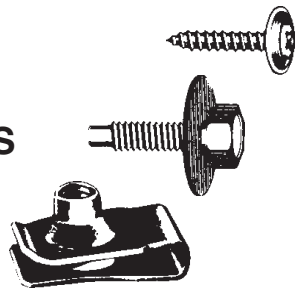
**ASSORTMENT 805-513A**
**ASSORTIMENT**

## AUTOMOTIVE SPECIAL SCREWS & NUTS WITH TINNERMAN® FASTENERS

*Panel Nuts & Automotive Screws*

**Steel**

**26 SIZES - 321 PIECES**







**For the complete assortment contents turn to A43**



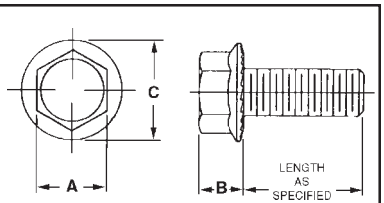
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# STEEL

**Case-hardened to RC 40**

## HEX FLANGE (Serrated) SCREW

**Zinc Plated**




B

| Thread Size | *SPAENAUR No.* | Length Under Head | A Min. Width A/F | B Flange Head Thick. | C Flange Dia. Min. | PKG QTY. |
|---|---|---|---|---|---|---|
| 6-32 UNC | 328-048 | 1/4" | .181" | .132" | .254" | 100 |
| | 328-049 | 3/8" | | | | 100 |
| | 328-001 | 1/2" | | | | 100 |
| | 328-041 | 5/8" | | | | 100 |
| | 328-002 | 3/4" | | | | 100 |
| | 328-003 | 1" | | | | 100 |
| 8-32 UNC | 328-050 | 5/16" | .241" | .161" | .341" | 100 |
| | 328-004 | 1/2" | | | | 100 |
| | 328-025 | 5/8" | | | | 100 |
| | 328-005 | 3/4" | | | | 100 |
| | 328-006 | 1" | | | | 100 |
| 10-24 UNC | 328-008 | 3/4" | .305" | .185" | .425" | 100 |
| | 328-027 | 1-1/4" | | | | 100 |
| 10-32 UNF | 328-011 | 3/4" | .305" | .185" | .425" | 100 |
| | 328-012 | 1" | | | | 100 |
| | 328-028 | 1-1/4" | | | | 100 |
| 1/4"-20 UNC | 328-013 | 1/2" | .367" | .216" | .513" | 100 |
| | 328-029 | 5/8" | | | | 100 |
| | 328-030 | 7/8" | | | | 100 |
| 1/4"-28 UNF | 328-042 | 1/2" | .367" | .216" | .513" | 100 |
| | 328-031 | 3/4" | | | | 100 |
| 5/16"-18 UNC | 328-034 | 7/8" | .491" | .274" | .686" | 100 |
| | 328-035 | 1-1/2" | | | | 100 |
| 3/8"-16 UNC | 328-F05-1W | 3/4" | .552" | .307" | .771" | 50 |
| | 328-F04-1K | 1" | | | | 50 |
| | 328-F06-1M | 1-1/4" | | | | 50 |
| | 328-F08-1A | 1-1/2" | | | | 50 |
| 7/16"-14 UNC | 328-038 | 1-1/4" | .612" | .365" | .856" | 50 |
| 1/2"-13 UNC | 328-045 | 3/4" | .736" | .430" | 1.027" | 25 |
| | 328-039 | 1" | | | | 25 |
| | 328-046 | 1-1/4" | | | | 25 |
| | 328-040 | 1-1/2" | | | | 25 |
| | 328-047 | 2" | | | | 25 |



**Advantages:**

**Fully Reusable**

**One Piece Construction —** Eliminates lockwashers and multiple piece assemblies.

**Flange Base —** Distributes load over greater area, higher strength.

**Excellent Locking Features —** 30% more torque to remove than to apply.

**Excellent Electrical Contact —** Positive bearing surface to bearing surface contact.

**Lower Cost than Preassembled Fasteners —** 1. Increases product reliability.
2. Reduces assembly time.

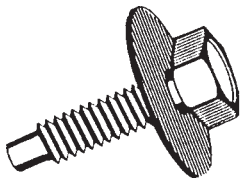
See page C23 for
**FLANGE WHIZ-LOCK NUTS**



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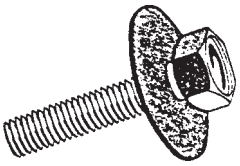
# STEEL

Hex Head
Dog Point

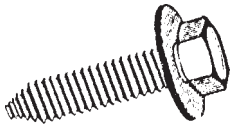


**Ford Products '79/.**

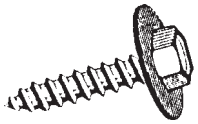
| *SPAENAUR No.* | Screw Size | Hex Width | Washer O.D. | Finish | PKG QTY. |
|---|---|---|---|---|---|
| **461-018** | M6 x 1.00 x 18 mm | 8 mm | 19 mm | Zinc, Yellow Dichromate | 50 |
| **461-019** | M6 x 1.00 x 23 mm | 8 mm | 19 mm | Zinc, Yellow Dichromate | 50 |



▲Regular Point



*with Starter Point



Substance & FINISH:
Usually to O.E.M. Specifications

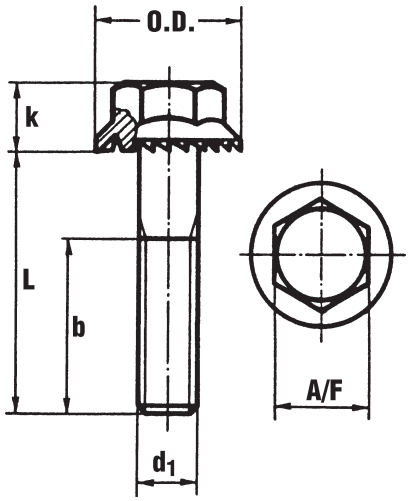
**General Motors '77/'79**

| | | | | | |
|---|---|---|---|---|---|
| **▲461-A01-1Y** | M6 x 1.00 x 25 mm | 10 mm | 17 mm | Phosphate (Black) | 25 |
| **▲461-004** | M6.3 x 1.00 x 20 mm | 10 mm | 17 mm | Phosphate (Black) | 25 |
| ***461-001** | M6.3 x 1.00 x 20 mm | 10 mm | 20 mm | Phosphate (Blue) | 25 |
| ***461-A02-1C** | M6.3 x 1.00 x 25 mm | 10 mm | 23.8 mm | Phosphate (Black) | 25 |
| ***461-005** | M10 x 1.50 x 40 mm | 15 mm | 28.6 mm | Phosphate (Black) | 25 |
| **466-001** | M6.3 x 20 mm | 10 mm | 23.8 mm | Phosphate (Black) | 25 |

## Tensilok®



One Piece
Construction




## Hex Flange (serrated) Screws

Steel — Black Finish

| d1=Dia. | M5 | M6 | M8 | M10 | M12 | M16 |
|---|---|---|---|---|---|---|
| Pitch mm | 0.8 | 1 | 1.25 | 1.5 | 1.75 | 2 |
| b max. | 16 | 18 | 22 | 26 | 30 | 38 |
| O.D. max. | 11.20 | 14.25 | 18.25 | 21 | 24 | 31 |
| k max. | 4.3 | 5.5 | 7 | 7.9 | 8.7 | 11.2 |
| A/F | 8 | 10 | 13 | 15 | 17 | 22 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 8 | **328-210** | | | | | |
| 10 | **328-211** | **328-215** | | | | PKG QTY. |
| 12 | **328-212** | **328-216** | **328-222** | | | 25 |
| 16 | **328-213** | **328-217** | **328-223** | **328-231** | | |
| 18 | | **328-218** | **328-224** | **328-232** | | |
| 20 | **328-214** | **328-F16-1K** | **328-225** | **328-233** | **328-239** | |
| 22 | | | **328-226** | **328-234** | | |
| 25 | | **328-220** | **328-227** | **328-235** | **328-240** | **328-246** |
| 30 | | **328-221** | **328-228** | **328-236** | **328-241** | **328-247** |
| 35 | | | **328-229** | **328-237** | **328-242** | **328-248** |
| 40 | | | **328-230** | **328-238** | **328-243** | **328-249** |
| 45 | | | | | **328-244** | **328-250** |
| 50 | | | | | **328-245** | **328-251** |
| 55 | | PKG QTY. 50 | | | | **328-252** |
| 60 | | | | | | **328-253** |
| 70 | | | | | | **328-254** |

**Tensile strength $R_m$:**
- for **M5 - M10** dia. min. **900-1100 MPa** (approx. 130500-159500 psi)
- for **M12 - M16** dia. min. **1000-1200 MPa** (approx. 145000-174000 psi)



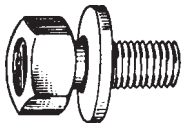


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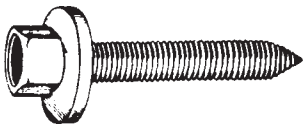
B

# STEEL

Substance and FINISH: Usually to O.E.M. Specifications



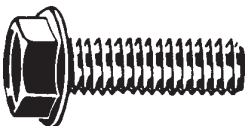
**461-014**
**10 mm x 22 mm**
(15 mm across flats)
Blue
Prop. Class 9.8
Indented Hex Head Bolt with 20 mm Washer.
General Motors '77/.
**PKG QTY. 50**



**461-016**
**6.3 mm x 40 mm**
(10 mm across flats)
Indented Hex Head Bolt with 17 mm Washer.
General Motors '77/.
**PKG QTY. 50**



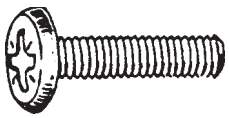
**461-017**
**4 mm x 0.7 x 16 mm Black**
(7 mm across flats)
Hex Head Screw with 12 mm Washer.
General Motors '77/.
**PKG QTY. 100**



**542-004**
**M8 x 1.25 x 25 mm**
Indented
Hex-Washer Head
(13 mm across flats)
Hardened - Machine Screw
Phosphate & Oil Finish
**PKG QTY. 50**

**461-012**
**8 mm x 1.25 x 25 mm Grade 9.8**
(13 mm across flats)
Indented Hex Head Bolt Type CA with 23 mm Conical Washer.
General Motors '77/.
**PKG QTY. 50**

**461-015**
**10 mm x 40 mm**
(15 mm across flats)
Screw Indented Hex Head with Loose 30 mm Washer, CA Point
General Motors Cars '76/.
**PKG QTY. 50**



**389-001**
**M6 x 20 mm**
(Pozidrive)
Screw, Rear License Plate Attaching
Ford Fiesta 78/.
STEEL, Zinc Dichromate Plated
**PKG QTY. 50**

## 814-026

**Dura-Hang™ Panel Hangers**

Made of Steel and Nickel Plated these hangers are ideal to hang storage racks 814-043 and 814-044.



They are adjustable to fit up to 3-3/8" wide panels.

**PKG QTY. 1 Set**
**(Includes 2 hangers and a wrench)**

## 814-043

**Storage Rack Holds 5 Regular Size Plastic Compartment Boxes**

This versatile cold rolled steel rack with grey baked enamel finish has been designed for three way use. Keyhole slots are furnished for wall mounting. A handle is provided and bolt holes permit stacking.



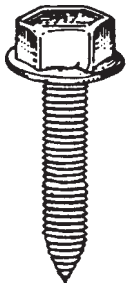




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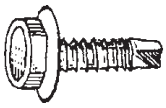
**392-014**
**M4 x 0.70 x 42 mm**
6.3 mm (1/4") across flats
Slotted Hex Washer Head Machine Screw
Black Zinc Plated
**PKG QTY. 50**



Screw, Hex Washer Head
General Motors '76/'79
**392-004**
Replaces 11503616
**M6.3 x 25 mm**
10 mm across flats
**PKG QTY. 50**

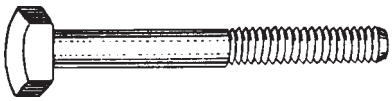
**392-002**
(362029)
**M8 x 1.25 Pitch x 30 mm**
13 mm across flats
**PKG QTY. 25**

Substance and FINISH:
Usually to OEM specifications



**491-002**
**M4.2 x 12 mm**
(8-18 x 1/2")
6.3 mm (1/4") across flats
Screw, Indented Hex Head, for use in Plastic Grills, etc.
General purpose, all cars, trucks, etc.
**PKG QTY. 100**

B

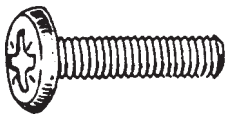


**392-006**
Replaces 11500039
**M6 x 45 mm**
10 mm across flats
Hex Head Bolt, Metric
General Motors '79/.
**PKG QTY. 50**

**392-007**
Replaces 11504023
**M6 x 65 mm**
10 mm across flats
Hex Head Bolt, Metric
General Motors '79/.
**PKG QTY. 50**



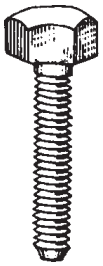
**392-011**
Replaces 11504499
**M8 x 1.25 x 30 mm**
13 mm across flats
16 mm washer hd. O.D.
Bolt, Indented Hex Washer Head:
General Motors '79/.
**PKG QTY. 50**

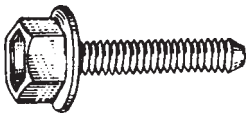


**389-001**
**M6 x 20 mm** (Pozi-Drive)
Screw, Rear License Plate Attaching
Ford Fiesta '78/.
**PKG QTY. 50**

**392-008**
Replaces 11500001
**M6 x 20 mm**
10 mm across flats
Hex Head Bolt, Metric
General Motors '79/.
**PKG QTY. 50**

**392-009**
Replaces 11503948
**M6 x 25 mm**
10 mm across flats
Hex Head Bolt, Metric
General Motors '79/.
**PKG QTY. 50**

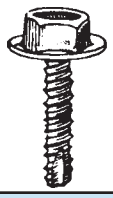




Metric Hex Flange Head Screw
General Motors '77/'79.
**392-001**
(11504499)
(11504501)
**M8 x 1.25 Pitch x 25 mm**
13 mm across flats
15 mm washer hd. O.D.
**PKG QTY. 25**



**389-002**
Replaces 11502623
**M4 x 0.7 x 20 mm** Blue
Metric, Philips Flat Head Machine Screw
Pozi-Drive
General Motors '77/.
**PKG QTY. 100**



**496-001**
Replaces 11501917
**M7.9 x 1.59 x 20 mm**
10 mm across flats
Oldsmobile '77/.
Hex, Washer Head Bolt, Hi-Lo Thread Grill and Fiberglass Front End Members.
**PKG QTY. 50**

**ASSORTMENT / ASSORTIMENT 805-513A**

## AUTOMOTIVE SPECIAL SCREWS & NUTS WITH TINNERMAN® FASTENERS

*Panel Nuts & Automotive Screws*

**Steel**

***26 SIZES — 321 PIECES***

Furnished in Regular Size, Grey enamelled STEEL Drawer with scooped bins. Drawer will fit into Slide Racks shown on page A2

*Size: 13-3/8" x 9-1/4" x 2"*
Shipping Wt. **4.88 kg** (10-3/4 lbs.)



**For the complete assortment contents turn to A43**



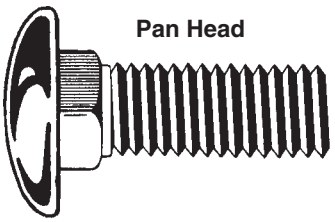
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B

# STEEL

**ZINC PLATED with POLISHED STAINLESS STEEL CAPPED HEADS**

**Regular Round Head**
**Inch Sizes**




**(NO NUTS)**

***IMPORTANT:***
***Please check head dimensions.***

| *SPAENAUR No.* | SIZE | HEAD DIMENSIONS and STYLE |
|---|---|---|
| **010-073** | 5/16"-18 x 3/4" | 3/4" x 5/32" Pan Hd. |
| **010-069** | 3/8"-16 x 1" | 27/32" x 5/32" Pan Hd. |

**PKG QTY. 10**

See full range of carriage bolts on pages B258-B262
For Lag Screws See Page B257



ACQ

## CEDAR DECK & FENCE SCREWS - SQUARE SOCKET - FLAT HEAD UNC

STEEL, DURADIZED II COATED, ACQ APPROVED



High quality Paulin® Cedar Deck Screws are compatible with ACQ treated wood. The DURADIZED II coating is formulated to prevent rust, staining, or streaking. Call for pricing.

DIMENSIONS IN INCHES (IN)

| SPAENAUR # | Screw Size | Overall Length | PKG QTY. | |
|---|---|---|---|---|
| | | | Packaging | Pail |
| **593-K38-1Y** | #6 | 1-5/8” | 500 | |
| **593-K64-1Y** | | | | 3000 |
| **593-K42-1N** | #8 | 1-1/2” | 600 | |
| **593-K43-1T** | | 1-3/4” | 500 | |
| **593-K44-1K** | | 2” | 400 | |
| **593-K39-1C** | | | 500 | |
| **593-K65-1C** | | | | 1800 |
| **593-K40-1Y** | | 2 -1/2” | 350 | |
| **593-K67-1T** | | | | 1200 |
| **593-K45-1W** | | | 250 | |
| **593-K46-1M** | | 3” | 200 | |
| **593-K41-1C** | | | 250 | |
| **593-K66-1N** | | | | 1000 |
| **593-K47-1X** | #10 | 3-1/2” | 125 | |
| **593-K68-1K** | | | | 500 |

paulin®

NEW

For Paulin Deck Screws See Page B303





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# SPAENAUR

*Fasteners Right Now®*

**NEW** KWIK-THRED® SELF-CLINCHING STUD

## Secure and strong

Available in Steel, Stainless Steel & Aluminum.



From CRESCENT MANUFACTURING **Pg. B127**

**NEW** U-BOLTS, STRAP PLATES & BENT EYE BOLTS IN BLACK OXIDE FINISH

## Offers a variety of advantages

- Can be Welded
- Improved Lubrication Characteristics
- Will not Chip, Flake, Peel or Rub off

**No** White Corrosion

**No** Hydrogen Embrittlement



From CHICAGO HARDWARE **Pg. B305**

Pour la version française, voir la page suivante

T: **1-800-265-8772** F: **1-888-252-6380** **service@spaenaur.com**

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SPAENAUR

*Fasteners Right Now®*

**Nouveau** GOUJON SERTISSEUR KWIK-THRED[MD]

## Sécuritaire et robuste

Offert en acier,
acier inoxydable
et aluminium.



De CRESCENT MANUFACTURING **Pg. B127**

**Nouveau** BOULONS EN U, PLAQUES DE LIAISON ET BOULONS À ŒIL À FINITION D'OXYDE NOIR

## Gamme d'avantages offerts

- Soudables
- Caractéristiques de lubrification améliorées
- Ce produit ne s'ébrèche, s'effrite, s'écale et ne déteint pas

**Pas** de rouille blanche
**Pas** de fragilisation par hydrogène



De CHICAGO HARDWARE **Pg. B305**

For the English version, see previous page

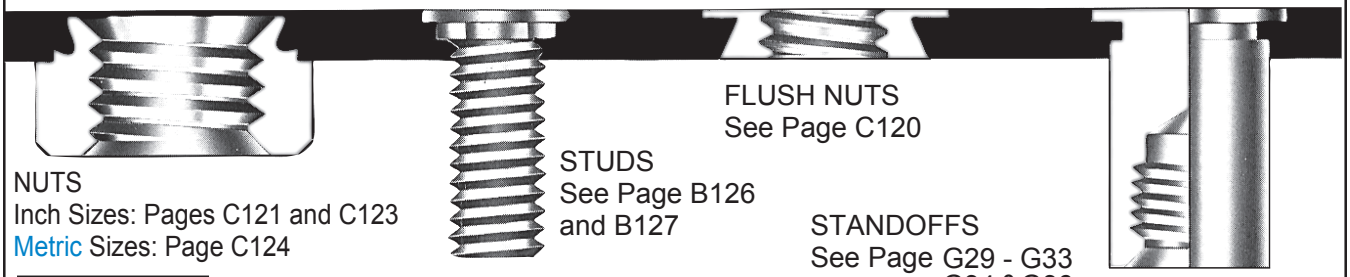
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# SELF-CLINCHING FASTENERS

B

## Self-Clinching Fasteners add strong threads in thin metal sections - available in carbon steel, stainless steel, and aluminum



NUTS
Inch Sizes: Pages C121 and C123
Metric Sizes: Page C124

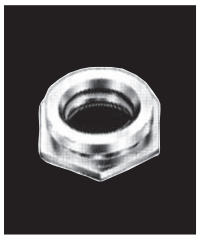
STUDS
See Page B126 and B127

FLUSH NUTS
See Page C120

STANDOFFS
See Page G29 - G33 G34 & G36









*Self-Clinching* fasteners are used in a multitude of applications: aircraft and spacecraft componentry, automobiles, off-the-road vehicles, other transportation equipment, agriculture machinery, electronic and electrical equipment, business machines, industrial and consumer appliances, recreational devices, vending machines, metal furniture - wherever load-bearing threads must be designed into ductile metal sheet too thin to thread.

### Simple, quick, low-cost installation

*Self-Clinching* fasteners are installed in punched or drilled holes simply by squeezing them in with any adjustable force, parallel-acting mechanical, hydraulic, or pneumatic press. The shanks of *Self-Clinching* fasteners are round, and act as their own pilots. No indexing is required. Several fasteners may be installed with a single squeeze, effecting notable economies in assembly.

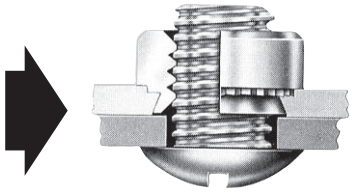
### No secondary operations or refinishing required

*Self-Clinching* fasteners maintain thread integrity while being squeezed in. Neither retapping or reclinching is necessary. No grinding or burnishing is needed either, since the anvil side of the sheet remains flush. *Self-Clinching* fasteners may be installed before or after surfaces are finished. They will not distort or discolour painted or lacquered panels.

### High torque-out and push-out resistance

When *Self-Clinching* fasteners are squeezed into thin sheet, the steel, aluminum, copper, brass, or other ductile matrix metal flows into undercut, knurled, or lugged surfaces, giving them the push-out and torque-out strengths the fasteners need to stay in place all down the production line and under conditions of end use.

*Note: The correct assembly of machine screws to Self-Clinching nuts (Page C120), is from the anvil side.*





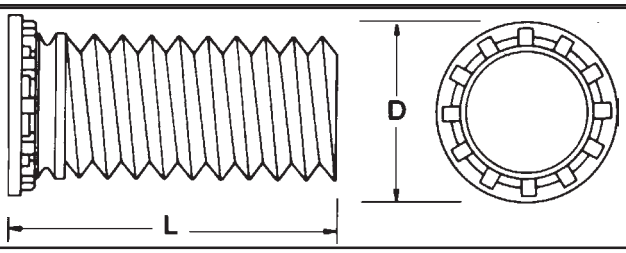
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B

# Steel
# Stainless Steel
# Aluminum




**PKG QTY. 100**

## Inch Sizes — DIMENSIONS & SPECIFICATIONS:

| THREAD SIZE | D. Head Dia. ±1/64 | Hole in Sheet +.003 -.000 | Min. Edge Distance to center of Hole in Panel | Kind of Metal | (L) Length in inches | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 |
| | | | | | ORDER BY *SPAENAUR No's* LISTED BELOW | | | | | | | | | |
| **2-56** | 9/64 | .085 | .19 | STEEL<br>S.S. | **614-808** | **614-809** | **614-003**<br>**614-810** | **614-004**<br>**614-811** | **614-005**<br>**614-812** | | | | | |
| **4-40** | 3/16 | .111 | .22 | STEEL<br>S.S.<br>ALUM. | **614-006**<br>**614-813** | **614-007**<br>**614-814** | **614-008**<br>**614-800**<br>**614-300** | **614-009**<br>**614-801**<br>**614-301** | **614-010**<br>**614-815** | **614-011**<br>**614-816** | | | | |
| **6-32** | 13/64 | .137 | .25 | STEEL<br>S.S.<br>ALUM. | **614-057** | **614-012**<br>**614-817** | **614-013**<br>**614-802**<br>**614-302** | **614-014**<br>**614-803**<br>**614-C03-1W** | **614-015**<br>**614-818**<br>**614-312** | **614-016**<br>**614-819**<br>**614-313** | **614-017**<br>**614-820** | **614-018**<br>**614-821**<br>**614-314** | **614-019** | |
| **8-32** | 15/64 | .163 | .28 | STEEL<br>S.S.<br>ALUM. | | | **614-020**<br>**614-822** | **614-021**<br>**614-804** | **614-022**<br>**614-805** | **614-023**<br>**614-823** | **614-024**<br>**614-824** | **614-025**<br>**614-825** | **614-026** | **614-027** |
| **10-24** | 1/4 | .189 | .28 | STEEL<br>S.S.<br>ALUM. | | | **614-028**<br>**614-826** | **614-029**<br>**614-827** | **614-030**<br>**614-828**<br>**614-305** | **614-031**<br>**614-829** | **614-032**<br>**614-830** | **614-033**<br>**614-831**<br>**614-319** | **614-034** | **614-C01-1T** |
| **10-32** | 1/4 | .189 | .28 | STEEL<br>S.S.<br>ALUM. | | | **614-036**<br>**614-832** | **614-037**<br>**614-806**<br>**614-306** | **614-038**<br>**614-807** | **614-039**<br>**614-833** | **614-040** | **614-041**<br>**614-834**<br>**614-321** | **614-042** | **614-043** |
| **1/4"-20** | 21/64 | .249 | .31 | STEEL<br>S.S.<br>ALUM. | | | | **614-044**<br>**614-835** | **614-045**<br>**614-841** | **614-046**<br>**614-836**<br>**614-307** | **614-047** | **614-048**<br>**614-837**<br>**614-323** | | **614-050** |
| **5/16"-18** | 25/64 | .311 | .38 | STEEL<br>S.S.<br>ALUM. | **THREAD**<br>**Class 2A (MIL-S-7742)** | | | | **614-051** | **614-052**<br>**614-838** | **614-053** | **614-054**<br>**614-839** | **614-055** | **614-056**<br>**614-840** |

### MATERIAL AND FINISHES

**STEEL**
Carbon Steel, Heat Treated, Zinc or Cadmium Plated, QQ-P-416, Type 1, Class 3, Plus Clear Chromate Dip

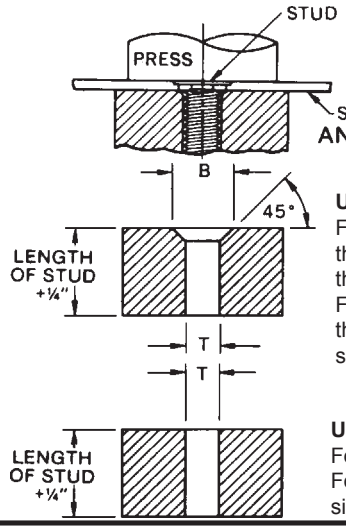
**STAINLESS STEEL (S.S.)**
300 Series Stainless Steel (Passivated, QQ-P-35, Type I)

**ALUMINUM (ALUM.)**
2024-T4 Aluminum

## ANVIL DIMENSIONS

| THREAD SIZE | ANVIL B | ANVIL T |
|---|---|---|
| **2-56** | .110<br>.114 | .087<br>.090 |
| **4-40** | .136<br>.140 | .113<br>.116 |
| **6-32** | .162<br>.166 | .139<br>.142 |
| **8-32** | .188<br>.192 | .165<br>.168 |
| **10-24** | .216<br>.220 | .191<br>.194 |
| **1/4-20** | .295<br>.300 | .250<br>.253 |
| **5/16-18** | | .3125<br>.3155 |

**INSTALLATION NOTE:** Apply only sufficient squeezing pressure to embed head of stud flush with panel. Do not use more pressure than necessary. Amount of pressure varies with panel metal and size of stud. Studs install flush in sheets .040" or thicker, but will project up to .020" in thinner sheets.




## INSTALLATION

**GENERAL TOOLING SETUP**

**USE THIS ANVIL**
For panels less than .060" in thickness, with #2 thru #10 thread sizes.
For panels less than .093" in thickness, with 1/4" thread size.

**USE THIS ANVIL**
For panels .060" and more in thickness, with #2 thru #10 thread sizes.
For panels .093" and more in thickness, with 1/4" and 5/16" thread sizes.

**Note:** These values are for general reference only.
*Maximum nut tightening values

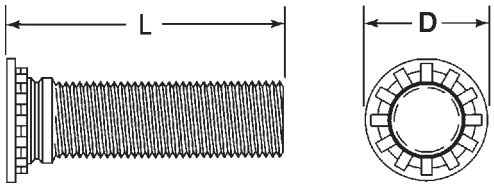
| THREAD SIZE | *Torque (IN-LB) | Installation (LB) | |
|---|---|---|---|
| | | STEEL | ALUM |
| 2-56 | 2-1/2 | 3000 | 2000 |
| 4-40 | 5 | 4000 | 3000 |
| 6-32 | 10 | 4500 | 3500 |
| 8-32 | 20 | 5000 | 4000 |
| 10-24 | 25 | 6000 | 4500 |
| 10-32 | 35 | 6000 | 4500 |
| 1/4-20 | 80 | 7000 | 5000 |
| 5/16-18 | 140 | 8000 | 6000 |



See WELDING SCREWS on pages B128-B133

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# Steel
# Stainless Steel
# Aluminum




**THREAD**
**Class 2A (MIL-S-7742)**

**PKG QTY. 100**

B

Kwik-Thred self-clinching studs provide the strength of a threaded assembly in areas where the panel is too thin to be tapped. Their primary application is panel-to-panel, usually metal, but they are also very good with printed circuit boards (PCB). The serrated head of the stud is made to grip the panel securely when the nut is tightened, eliminating the need to weld. Unlike many other brands that have six serrations, Crescent's has twelve for significantly more gripping power. Kwik-Threds are available in sizes from #2 to #5/16. Available materials are Carbon Steel, 300 Series Stainless Steel, Aluminum and Phos Bronze. Other materials can be manufactured upon request.

| THREAD SIZE | Dimensions in inches: D. Head Dia. |  |  | Kind of Metal | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW — (L) Length in inches: 1/4 (.250) | 5/16 (.3125) | 3/8 (.375) | 1/2 (.500) | 5/8 (.625) | 3/4 (.750) | 7/8 (.875) | 1 (1.00) | 1-1/4 (1.25) | 1-1/2 (1.50) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-56 | .144 ±.015 | .085 | .187 | STEEL | 614-C05-1X | 614-C06-1A | 614-C07-1P | 614-C08-1Y | 614-C09-1C | | | | | |
| | | | | S.S. | 614-C62-1N | 614-C63-1T | 614-C64-1K | 614-C65-1W | 614-C66-1M | | | | | |
| | | | | ALUM. | | | 614-D05-1N | | | | | | | |
| 4-40 | .176 ±.015 | .111 | .219 | STEEL | 614-C10-1Y | 614-C11-1C | 614-C12-1N | 614-C13-1T | 614-C14-1K | 614-C15-1W | | | | |
| | | | | S.S. | 614-C67-1M | 614-C68-1A | 614-C69-1P | 614-C70-1A | 614-C71-1P | 614-C72-1Y | | | | |
| | | | | ALUM. | | | 614-D06-1T | 614-D07-1K | 614-D08-1W | 614-D09-1M | | | | |
| 6-32 | .206 ±.015 | .137 | .250 | STEEL | 614-C16-1M | 614-C17-1X | 614-C18-1A | 614-C19-1P | 614-C20-1A | 614-C21-1P | 614-C22-1Y | 614-C23-1C | 614-C24-1N | |
| | | | | S.S. | | 614-C73-1C | 614-C74-1N | 614-C75-1T | 614-C76-1C | 614-C77-1W | 614-C78-1M | 614-C79-1X | | |
| | | | | ALUM. | | | 614-D10-1W | 614-D11-1M | 614-D12-1X | 614-D13-1A | | 614-D14-1P | | |
| 8-32 | .237 ±.015 | .163 | .281 | STEEL | | | 614-C25-1T | 614-C26-1K | 614-C27-1W | 614-C28-1M | 614-C29-1X | 614-C30-1M | 614-C31-1X | 614-C32-1A |
| | | | | S.S. | | | 614-C80-1M | 614-C81-1X | 614-C82-1A | 614-C83-1P | 614-C84-1Y | 614-C85-1C | | |
| | | | | ALUM. | | | | 614-D15-1Y | | 614-D16-1C | | 614-D17-1N | | 614-D18-1T |
| 10-24 | .256 ±.015 | .189 | .281 | STEEL | | | 614-C33-1P | 614-C34-1Y | 614-C35-1C | 614-C36-1N | | 614-C38-1K | 614-C39-1W 614-C37-1T | 614-C01-2T |
| | | | | S.S. | | | 614-C86-1N | 614-C87-1T | 614-C88-1K | 614-C89-1W | 614-C90-1K | 614-C91-1W | | |
| | | | | ALUM. | | | | 614-D19-1K | 614-D20-1T | | | 614-D21-1K | | |
| 10-32 | .256 ±.015 | .189 | .281 | STEEL | | | 614-C41-1W 614-C40-1K | 614-C42-1M | 614-C43-1X | 614-C44-1A | 614-C45-1P | 614-C46-1Y | 614-C47-1C | 614-C48-1N |
| | | | | S.S. | | | 614-C92-1M | 614-C93-1X | 614-C94-1A | 614-C95-1P | | 614-C96-1Y | | |
| | | | | ALUM. | | | | 614-D22-1W | | 614-D23-1M | | 614-D24-1X | | |
| 1/4-20 | .337 ±.015 | .249 | .312 | STEEL | | | | 614-C49-1T | 614-C50-1N | 614-C51-1T | 614-C52-1K | 614-C53-1W | 614-C54-1M | 614-C55-1X |
| | | | | S.S. | | | | 614-C97-1C | 614-C98-1N | 614-C99-1T | | 614-D01-1A | | |
| | | | | ALUM. | | | | 614-D25-1A | | 614-D26-1P | | 614-D27-1Y | | |
| 5/16-18 | .376 ±.015 | .311 | .375 | STEEL | | | | | 614-C56-1A | 614-C57-1P | 614-C58-1Y | 614-C59-1C | 614-C60-1Y | 614-C61-1C |
| | | | | S.S. | | | | | | 614-D02-1P | | 614-D03-1Y | | 614-D04-1C |
| | | | | ALUM. | | | | | | 614-D28-1C | | | | 614-D29-1N |

**MATERIAL AND FINISHES**

| STEEL | STAINLESS STEEL (S.S.) | ALUMINUM (ALUM.) |
|---|---|---|
| Carbon Steel, Heat Treated, Zinc Plated | 300 Series Passivated | 2024-T4 Aluminum |

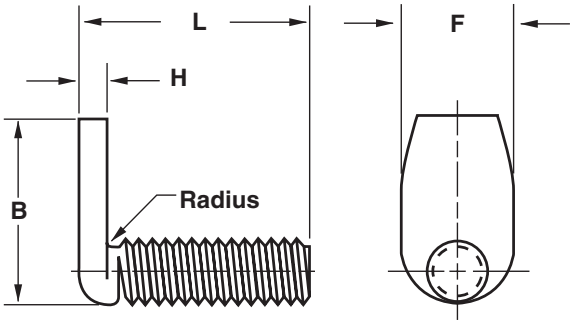
For Inch Taper Pin Reamers see Page P30





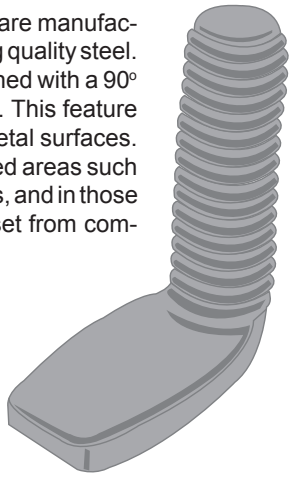
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B




# SPOT WELD SCREWS "LJ" SERIES

The LJ Series, Spot Weld Screws are manufactured from low carbon, high welding quality steel. These spot weld screws are designed with a 90° plain spade head for spot welding. This feature allows for welding to or through metal surfaces. The product can be used in confined areas such as narrow channels, walled corners, and in those applications requiring threads offset from component surfaces.



Not Plated

Can be manufactured to meet specific requirements in production run. Prices available upon request.

**PKG QTY. 100**

| Size | #10 | #10 | 1/4" | 5/16" | 3/8" |
|---|---|---|---|---|---|
| Head Width (F) | .312" | .343" | .375" | .437" | .531" |
| Head Thickness (H) | .062" | .062" | .094" | .125" | .156" |
| Head Length (B) | .687" | .687" | .750" | .875" | 1.000" |
| Threads Per Inch | 24 | 32 | 20 | 18 | 16 |
| Overall Length (L) | **ORDER BY *SPAENAUR* NUMBERS LISTED BELOW** Available size range of LJ Spot Weld Screws. | | | | |
| 1/2" | **573-B01-2N** | | | | |
| 3/4" | **573-128** | | | | |
| 1" | | **573-117** | | | |
| 1-1/4" | | | **573-129** | | |
| 1-1/2" | | | | | **573-116** |
| 2" | | | | **573-121** | |

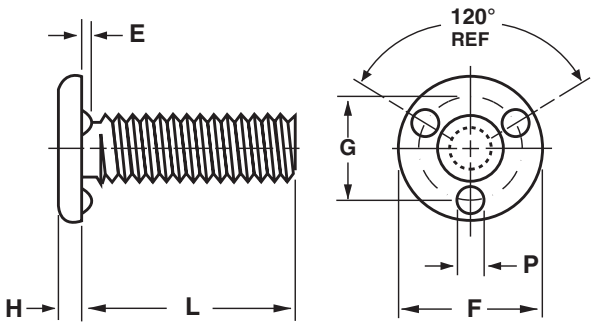
Typical weld settings for use with C-1010 steel only. Thickness range of steel sheets, 24 gauge to 6 gauge. Steel sheets must be free from scale, rust and dirt and be uncoated.

| SIZE | WELD TIME IN CYCLES | WELD PRESSURE IN POUNDS | WELD CURRENT IN AMPS |
|---|---|---|---|
| #10 | 5 to 10 | 400 to 800 | 9,000 to 15,000 |
| 1/4" | 6 to 12 | 500 to 900 | 12,000 to 18,000 |
| 5/16" | 8 to 14 | 800 to 14,000 | 14,000 to 20,000 |
| 3/8" | 10 to 25 | 1,000 to 2,000 | 15,000 to 24,000 |

For Spot Weld Pins see Page B133

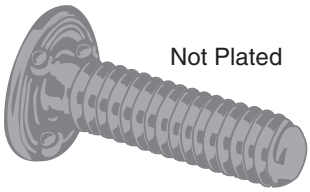


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# PROJECTION WELD SCREWS "MN" SERIES

The MN Series, Projection Weld Screws are manufactured from low carbon, high welding quality steel. These projection weld screws are designed with 3 weld projections under the head. This feature allows for flush mounting in through-hole applications.




**PKG QTY. 100**

| Size | #10 | 1/4" | 5/16" | 3/8" |
|---|---|---|---|---|
| Head Diameter (F) | .437" | .562" | .750" | .875" |
| Head Thickness (H) | .062" | .078" | .094" | .109" |
| Projection Height (E) | .028" | .038" | .043" | .048" |
| Projection Width (P) | .086" | .104" | .119" | .133" |
| Locating Circle (G) | .312" | .406" | .531" | .625" |
| Threads Per Inch | 32 | 20 | 18 | 16 |
| Length Under Head (L) | **ORDER BY *SPAENAUR* NUMBERS LISTED BELOW** Available size range of MN Projection Weld Screws. | | | |
| 1/2" | | ■ **573-020** | | |
| 3/4" | | **573-130** | | |
| 7/8" | | | | ◆ **573-009** |
| 1" | ◆ **573-016** | | **573-015** | |
| 1-1/4" | ◆ **573-063** | **573-B02-1T** | ◆ **573-022** | |
| 1-1/2" | | | | **573-025** |
| 2" | | | **573-043** | |

■ **573-801** Stainless Steel (Not Stanley Engineered Fastening)
◆ Not Stanley Engineered Fastening

Typical weld settings for use with C-1010 steel only. Thickness range of steel sheets, 24 gauge to 6 gauge. Steel sheets must be free from scale, rust and dirt and be uncoated.

**Weld Cycle Time - Cycle = 1/60th of a second**

| SIZE | WELD TIME IN CYCLES | WELD PRESSURE IN POUNDS | WELD CURRENT IN AMPS |
|---|---|---|---|
| #10 | 3 to 8 | 400 to 900 | 6,000 to 14,000 |
| 1/4" | 3 to 12 | 600 to 1,000 | 10,000 to 15,000 |
| 5/16" | 4 to 16 | 700 to 1,100 | 12,000 to 18,000 |
| 3/8" | 6 to 18 | 800 to 1,200 | 13,000 to 20,000 |

## PROJECTION WELD SCREW "MNM" METRIC SERIES

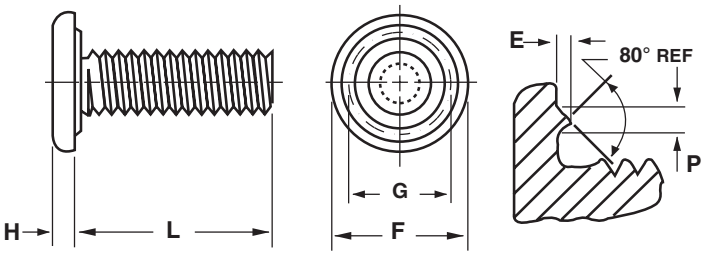
| *SPAENAUR No.* | Nom. Size x Pitch x Length |
|---|---|
| **573-300** | M6 x 1 x 20 mm |

**E = 1.07-0.97 mm** **H = 2.03-1.77 mm**
**F = 14.3-13.7 mm** **P = 2.67-2.41 mm**
**G = 10.3 mm** See illustration top left.



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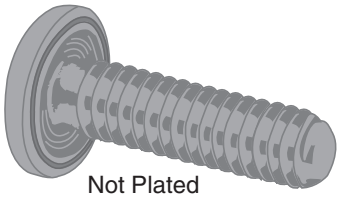
B




# PROJECTION WELD SCREWS "UN" SERIES

The UN Series, Projection Weld Screws are manufactured from low carbon, high welding quality steel. These projection weld screws are designed with a continuous weld ring projection under the head. This feature allows for flush mounting in hermetically sealed applications.

**PKG QTY. 100**



Not Plated

| Size | 1/4" | 3/8" |
|---|---|---|
| Head Diameter (F) | .562" | .875" |
| Head Thickness (H) | .078" | .109" |
| Projection Height (E) | .025" | .034" |
| Projection Width (P) | .049" | .067" |
| Locating Circle (G) | .422" | .641" |
| Threads Per Inch | 20 | 16 |
| Length Under Head (L) | ORDER BY *SPAENAUR No.* LISTED BELOW | |
| 5/8" | **573-053** | |
| 1-1/4" | | **573-062** |

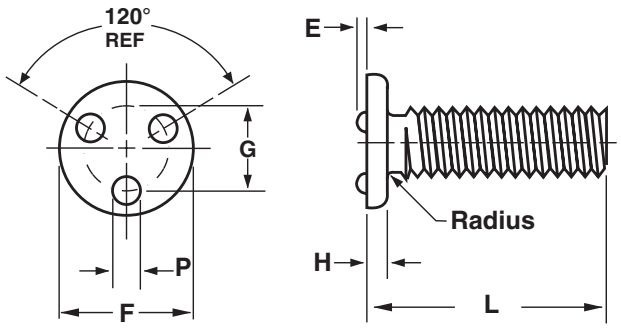
Typical weld settings for use with C-1010 steel only. Thickness range of steel sheets, 24 gauge to 6 gauge. Steel sheets must be free from scale, rust and dirt and be uncoated.

| SIZE | WELD TIME IN CYCLES | WELD PRESSURE IN POUNDS | WELD CURRENT IN AMPS |
|---|---|---|---|
| #6 | 3 to 8 | 300 to 900 | 9,000 to 18,000 |
| #8 | 4 to 9 | 400 to 1,000 | 10,000 to 19,000 |
| #10 | 5 to 10 | 700 to 1,000 | 13,000 to 20,000 |
| 1/4" | 5 to 14 | 900 to 1,500 | 18,000 to 24,000 |
| 5/16" | 8 to 19 | 1,200 to 2,000 | 22,000 to 42,000 |
| 3/8" | 10 to 24 | 1,500 to 2,500 | 28,000 to 50,000 |

**Weld Cycle Time - Cycle = 1/60th of a second.**

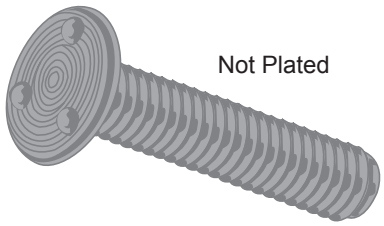


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# PROJECTION WELD SCREWS "GW" SERIES

The GW Series, Projection Weld Screws are manufactured from low carbon, high welding quality steel. These projection weld screws are designed with 3 weld projections on top of the head. This feature eliminates the need for prepared holes and is ideal in those applications where product appearance is a prime consideration.




**PKG QTY. 100**

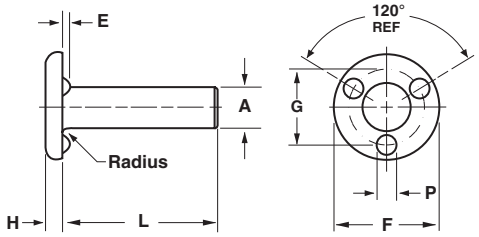
| Size | #6 | #8 | #10 | | 1/4" | | 5/16" | | 3/8" | |
|---|---|---|---|---|---|---|---|---|---|---|
| Head Diameter (F) | .250" | .312" | .375" | | .500" | | .625" | | .750" | |
| Head Thickness (H) | .031" | .047" | .062" | | .078" | | .094" | | .109" | |
| Projection Height (E) | .020" | .024" | .024" | | .038" | | .043" | | .048" | |
| Projection Width (P) | .058" | .060" | .082" | | .104" | | .119" | | .133" | |
| Locating Circle (G) | .152" | .203" | .234" | | .312" | | .391" | | .484" | |
| Threads Per Inch | 32 | 32 | 24 | 32 | 20 | 28 | 18 | 24 | 16 | 24 |
| Total Length (L) | ORDER BY *SPAENAUR No'S* LISTED BELOW | | | | | | | | | |
| 3/8" | **573-058** | | | | | | | | | |
| 1/2" | **573-059** | | | **573-047** | | | | | | |
| 3/4" | | | | | **573-048** | | | | | |
| 7/8" | **573-034** | | | | | | | | | |
| 1" | | | | | | | | | **573-060** | |
| 2" | | | | | **573-046** | | | | | |

For Weld Nuts see Pages C43-C47



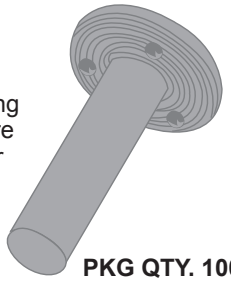
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B



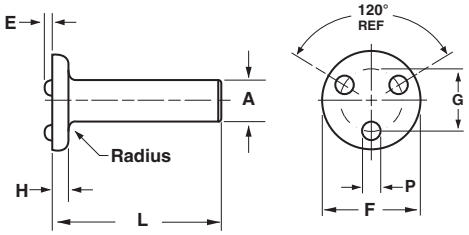

# PROJECTION WELD PINS "MP" SERIES

The MP Series, Projection Weld Pins are manufactured from low carbon, high welding quality steel. These projection weld pins are designed with three weld projections under the head. This feature allows for flush mounting and centering for through-hole applications.



**Not Plated** **PKG QTY. 100**

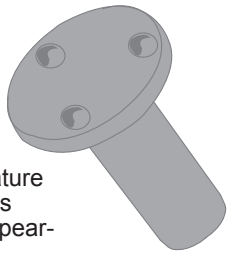
| Pin (A) Body Dia. | .117" | .144" | .163" | .190" | .218" | .250" | .277" | .335" | .375" |
|---|---|---|---|---|---|---|---|---|---|
| Head Diameter (F) | .312" | .375" | .437" | .500" | .562" | .625" | .750" | .875" | .875" |
| Head Thickness (H) | .047" | .062" | .062" | .078" | .078" | .078" | .094" | .109" | .109" |
| Proj. Height (E) | .020" | .024" | .028" | .033" | .038" | .038" | .043" | .048" | .048" |
| Proj. Width (P) | .058" | .072" | .086" | .090" | .104" | .104" | .119" | .133" | .133" |
| Locating Circle (G) | .225" | .266" | .312" | .359" | .406" | .437" | .531" | .625" | .625" |
| Length Under Head (L) | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 5/16" | **573-064** ("PH" SERIES Not Gripco) | | | | | **573-049** ("PH" SERIES Not Gripco) | | | |
| 3/8" | | | | | | **573-038** | | | |




Can be manufactured to meet specific requirements in production run. Prices are available upon request.

# PROJECTION WELD PINS "NP" SERIES

The NP Series, Projection Weld Pins are manufactured from low carbon, high welding quality steel. These projection weld pins are designed with three weld projections on top of the head. This feature eliminates the need for prepared holes and is ideal in those applications where product appearance is a prime consideration.

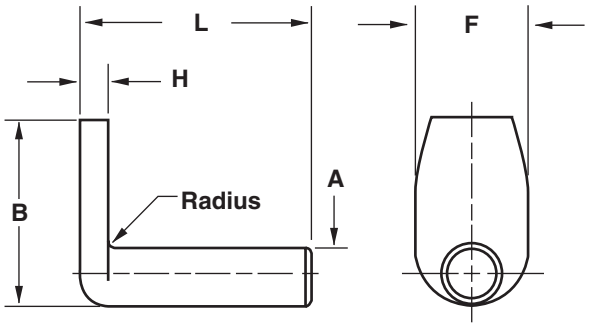


**PKG QTY. 100** **Not Plated**

| Pin (A) Body Dia. | .117" | .144" | .163" | .190" | .218" | .250" | .277" | .335" | .375" |
|---|---|---|---|---|---|---|---|---|---|
| Head Diameter (F) | .250" | .312" | .375" | .437" | .500" | .500" | .625" | .750" | .750" |
| Head Thickness (H) | .031" | .047" | .062" | .062" | .078" | .078"" | .094" | .109" | .109" |
| Proj. Height (E) | .020" | .024" | .024" | .033" | .038" | .038" | .043" | .048" | .048" |
| Proj. Width (P) | .058" | .060" | .082" | .090" | .104" | .104" | .119" | .133" | .133" |
| Locating Circle (G) | .152" | .203" | .234" | .277" | .312" | .312" | .391" | .484" | .484" |
| Total Length (L) | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 1/2" | | | | | | **573-037** | | | |



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# SPOT WELD PINS "LU" SERIES

The LU Series, Spot Weld Pins are manufactured from low carbon, high welding quality steel. These spot weld pins are designed with a 90° plain spade head. This feature allows for welding to go through metal surfaces.



**PKG QTY. 100**

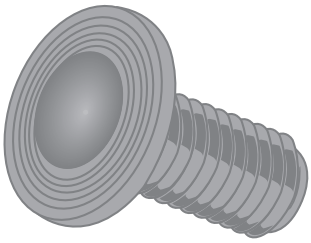
Not Plated

| Pin (A) Body Dia. | .117" | .144" | .163" | .190" | .218" | .250" | .277" | .335" | .375" |
|---|---|---|---|---|---|---|---|---|---|
| Head Width (F) | .219" | .250" | .312" | .406" | .375" | .375" | .437" | .531" | .562" |
| Head Thickness (H) | .047" | .062" | .062" | .062" | .094" | .125" | .125" | .156" | .187" |
| Head Length Overall (B) | .562" | .625" | .687" | .687" | .750" | .750" | .875" | .750" | 1.000" |
| Overall Length (L) | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 1/2" | **573-122** | | | | | | | | |
| 5/8" | | **573-123** | | **573-124** | | | | | |

Fasteners shown below are special and are subject to minimum production runs.

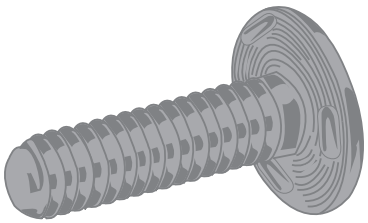
**Contact Sales Desk For Package Quantities**

See Section C of our catalog for Weld Nuts.



## PROJECTION WELD SCREWS "NA" SERIES

These projection weld screws are designed with a single button projection on the top of the head. This feature permits welding to tubing and curved surfaces.



## PROJECTION WELD SCREWS "AA" SERIES

These projection weld screws are designed with three sausage-shaped weld projections under the head. This feature provides greater weld area.

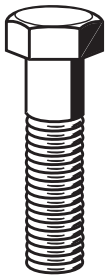
For Vise-Grip® Welding Clamps see Page P94



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B

C1020
LOW CARBON
STEEL
HEAT TREATED
STRESS RELIEVED
ZINC PLATED



Length shown is under head to end in inches.

MINIMUM THREAD LENGTH
Up to 6" long: (2D + 1/4)
Twice diameter plus 1/4 inch.
Over 6" long: (2D + 1/2)
Twice diameter plus 1/2 inch.

# COARSE THREAD

UNIFIED STANDARD
CLASS 2A FIT

## COARSE THREAD (U.N.C.) (U.S.S.)

| DIA. | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" |
|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 |
| LG. ▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 3/8 | B-41 | | | | |
| 1/2 | 325-168 | | | | |
| 3/4 | 325-A11-1X | 325-A31-1T | 325-169 | | |
| 1 | 325-146 | 325-A33-1W | 325-152 | 325-177 | 325-153 |
| 1-1/4 | | 325-166 | 325-A24-1A | | 325-A26-1Y |
| 1-1/2 | 325-A23-1X | 325-A37-1P | 325-181 | 325-188 | 325-154 |
| 1-3/4 | 325-182 | | | | 325-178 |
| 2 | 325-156 | 325-173 | 325-157 | 325-186 | 325-165 |
| 2-1/4 | | 325-A32-1K | | | |
| 2-1/2 | 325-183 | 325-185 | 325-A34-1M | 325-189 | 325-167 |
| 2-3/4 | 325-193 | | | | |
| 3 | 325-A29-1T | 325-A28-1N | 325-180 | | 325-155 |
| 3-1/4 | 325-172 | | | | |
| 3-1/2 | | 325-A30-1N | | | |
| 4 | S-71Z | 325-187 | 325-184 | | 325-158 |

**Contact Sales Desk For Package Quantities**

# SAE GRADE 2

## ZINC PLATED

The standard grade for all general applications where extreme strength is not required.

**ASME B18.2.1**

| DIA. | 5/8" | 3/4" |
|---|---|---|
| THD. | 11 | 10 |
| LG.▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | |
| 1 | 325-174 | |
| 1-1/4 | 325-175 | |
| 2 | 325-190 | |
| 2-1/2 | 325-150 | 325-170 |
| 2-3/4 | 325-A27-1C | |
| 3 | 325-179 | 325-171 |
| 3-1/2 | | 325-159 |
| 4 | 325-A25-1P | 325-160 |

Material Spec. ASTM A 307

MINIMUM TENSILE STRENGTH (PSI)
Up to 1/2" dia. inclusive - 69,000 PSI
Over 1/2" to 3/4" inclusive - 64,000 PSI
Over 3/4" to 1-1/2" inclusive 55,000 PSI

**Contact Sales Desk For Package Quantities**

**ASSORTMENT / ASSORTIMENT 805-001B**

## HEX CAP SCREWS, NUTS, SPLIT LOCK & FLAT WASHERS

ASME B18.21.1 ASME/ANSI B18.2.1 ASME/ANSI B18.2.2

**2950 PIECES**
**40 SIZES**

The perfect choice for easily accessible storage in parts departments, tool crib areas, maintenance and repair shops, garages, and for the handyman.

**About the Storage Bin!**
The grey baked enamel Durham bin is extremely sturdy. Produced from prime cold rolled steel - interlocked and welded construction, it will not warp, twist or sag. Each shelf has a fully hemmed 1-1/8" turn on the front providing space for labelling contents. It has 40 compartments for assortment contents. Overall bin measurements are width 33-3/4", height 22-1/4", depth 8-3/4", minimizing premium floor space requirements.

**Reordering Stock - EASY!**
When stock items are getting low, simply contact our Order Desk, identify the items you require by **SPAENAUR Number** and we'll send you the unit package quantities to refill your bin.



***SPAENAUR No.* 814-040 BASE STAND**
Sturdy all-steel construction. Overall measurements: height 5-3/4", width 34", depth 9".



**For the complete assortment contents turn to A44**



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**C1020**

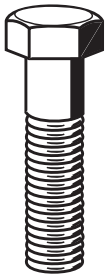
**LOW CARBON**

# STEEL

**HEAT TREATED**

**STRESS RELIEVED**

**PLAIN FINISH**



Length shown is under head to end in inches.

MINIMUM THREAD LENGTH
Up to 6" long: (2D + 1/4)
Twice diameter plus 1/4 inch.
Over 6" long: (2D + 1/2)
Twice diameter plus 1/2 inch.

# COARSE THREAD

UNIFIED STANDARD
CLASS 2A FIT

## COARSE THREAD (U.N.C.) (U.S.S.)

| DIA. | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" |
|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 |
| LG. ▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 1/2 | B-42 | B-49 | B-56 | | |
| 5/8 | | CS-9 | | | |
| 3/4 | B-44 | B-50 | B-57 | B-66 | 325-A08-1M |
| 7/8 | | | B-58 | | |
| 1 | B-45 | B-51 | B-59 | B-67 | B-73 |
| 1-1/4 | B-46 | B-52 | 325-A18-1K | B-68 | B-74 |
| 1-1/2 | B-47 | B-53 | 325-A38-1Y | B-69 | B-75 |
| 1-3/4 | | B-54 | B-62 | S-48 | 325-A20-1K |
| 2 | B-48 | 325-A15-1C | B-63 | B-70 | 325-A17-1T |
| 2-1/4 | | S-75 | S-8 | S-49 | S-50 |
| 2-1/2 | S-4 | S-6 | B-64 | 325-A19-1W | B-78 |
| 2-3/4 | | | 325-A21-1W | | B-79 |
| 3 | S-5 | S-7 | B-65 | S-9 | 325-A16-1N |
| 3-1/4 | CS-3 | | | | |
| 3-1/2 | | | | S-58 | |
| 4 | S-71 | S-65 | S-60 | S-10 | S-57 |
| 5 | 325-016 | CS-5 | | | |
| 6 | 325-027 | | | | 325-029 |
| 7 | | | S-66 | | |

**Contact Sales Desk For Package Quantities**

# SAE GRADE 2

The standard grade for all general applications where extreme strength is not required.

Material Spec. ASTM A 307

MINIMUM TENSILE STRENGTH (PSI)
Up to 1/2" dia. inclusive - 69,000 PSI
Over 1/2" to 3/4" inclusive - 64,000 PSI
Over 3/4" to 1-1/2" inclusive 55,000 PSI

**ASME B18.2.1**

| DIA. | 5/8" | 3/4" | 7/8" | 1" | 1-1/8" | 1-1/4" |
|---|---|---|---|---|---|---|
| THD. | 11 | 10 | 9 | 8 | 7 | 7 |
| LG.▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 1 | B-82 | S-56 | | | | |
| 1-1/2 | B-83 | 325-010 | | | | |
| 1-3/4 | B-84 | 325-011 | 325-012 | | | |
| 2 | B-85 | 325-A14-1Y | 325-013 | | | |
| 2-1/4 | CS-11 | | 325-014 | 325-015 | | |
| 2-1/2 | B-86 | B-89 | CS-8 | 325-005 | | 325-001 |
| 3 | B-87 | 325-A35-1X | 325-006 | | | |
| 3-1/2 | 325-003 | 325-025 | 325-004 | 325-007 | | |
| 4 | S-55 | S-61 | 325-019 | 325-008 | | |
| 4-1/2 | 325-002 | 325-017 | | 325-009 | 325-024 | |
| 5 | | 325-018 | | 325-020 | | 325-022 |
| 6 | | S-62 | 325-028 | S-68 | 325-021 | |
| 7 | | | CS-2 | | | 325-023 |
| 8 | S-39 | | | S-69 | | |
| 11 | | | | S-70 | | |

**Contact Sales Desk For Package Quantities**

SPAENAUR
*Fasteners Right Now®*

For Hex Nut & Nylon Insert Locknut Assortment see Page A60



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B

| FINE THREAD (U.N.F.) (S.A.E.) | | | | | |
|---|---|---|---|---|---|
| **DIA.** | **1/4"** | **5/16"** | **3/8"** | **7/16"** | **1/2"** |
| **THD.** | 28 | 24 | 24 | 20 | 20 |
| **LG.▼** | **ORDER BY *SPAENAUR* NUMBERS LISTED BELOW** | | | | |
| 1<br>1-1/4 | **B-3** | | | **B-22**<br>**B-23** | **B-28** |
| 1-1/2<br>1-3/4<br>2 | | **B-10** | | <br>**B-25**<br>**B-26** | **B-30**<br>**B-31**<br>**B-32** |
| 2-1/4<br>2-1/2<br>3 | | **B-12** | **B-20** | <br>**B-27**<br>**S-18** | **S-46** |
| 3-1/4<br>3-1/2<br>4 | | **S-15** | | <br>**S-19**<br>**S-42** | **S-47**<br>**S-21**<br>**S-22** |
| 4-1/2<br>5 | <br>**CS-1** | | | | **CS-12** |

**Contact Sales Desk For Package Quantities**

**C1020**

**LOW CARBON**

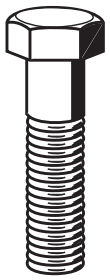
# STEEL

**HEAT TREATED**

**STRESS RELIEVED**

**PLAIN FINISH**





Length shown is under head to end in inches.

MINIMUM THREAD LENGTH
Up to 6" long: (2D + 1/4)
Twice diameter plus 1/4 inch.
Over 6" long: (2D + 1/2)
Twice diameter plus 1/2 inch.

| DIA. | 5/8" | 3/4" | 7/8" | 1" |
|---|---|---|---|---|
| **THD.** | 18 | 16 | 14 | 14 |
| **LG.▼** | **ORDER BY *SPAENAUR* NUMBERS LISTED BELOW** | | | |
| 2<br>2-1/4 | **B-37**<br>**S-28** | **B-39** | | |
| 3<br>3-1/2<br>4 | **S-29**<br>**S-31**<br>**CS-4** | **S-33**<br>**325-A22-1M** | **CS-7** | |
| 4-1/2<br>10<br>11 | | **S-34**<br>**S-72**<br>**S-74** | | <br><br>**S-73** |

**Contact Sales Desk For Package Quantities**

# FINE THREAD

UNIFIED STANDARD
CLASS 2A FIT

# SAE GRADE 2

Material Spec. ASTM A 307

MINIMUM TENSILE STRENGTH (PSI)
Up to 1/2" dia. inclusive - 69,000 PSI
Over 1/2" to 3/4" inclusive - 64,000 PSI
Over 3/4" to 1-1/2" inclusive 55,000 PSI

**ASME B18.2.1**

The standard grade for all general applications where extreme strength is not required.

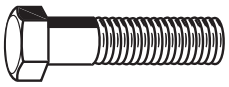



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**C1020 LOW CARBON STEEL**
**HEAT TREATED STRESS RELIEVED**

**Material Spec. ASTM A 307**

**HOT GALVANIZED**



**ASME B18.2.1**

**SAE GRADE 2**

The standard grade for all general applications where extreme strength is not required.

**MINIMUM TENSILE STRENGTH (PSI)**

| | |
|---|---|
| **Up to 1/2" dia. inclusive** | **69,000 psi** |
| **Over 1/2" to 3/4" inclusive** | **64,000 psi** |
| **Over 3/4" to 1-1/2" inclusive** | **55,000 psi** |

Length shown is under head to end in inches.

MINIMUM THREAD LENGTH
Up to 6" long: (2D + 1/4) Twice diameter plus 1/4 inch.
Over 6" long: (2D + 1/2) Twice diameter plus 1/2 inch.

B

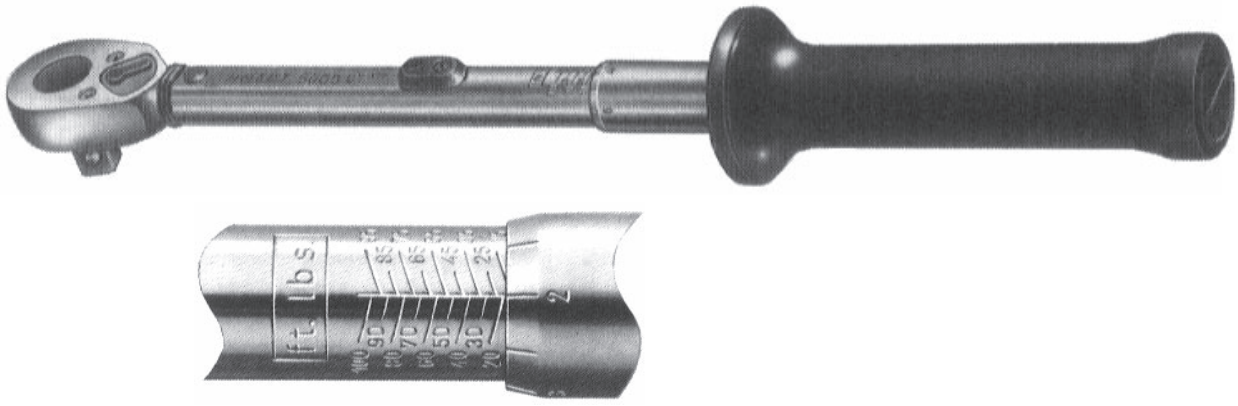
## COARSE THREAD (U.N.C.) (U.S.S.) UNIFIED STANDARD CLASS 2A FIT

| DIA. | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" |
|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 13 | 11 |
| LG.▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 1 | **325-100** | | **325-116** | | |
| 1-1/4 | **325-101** | **325-A09-1X** | | **325-125** | |
| 1-1/2 | **325-102** | **325-109** | **325-117** | **325-A36-1A** | **325-136** |
| 2 | **325-103** | **325-110** | **325-118** | **325-A13-1P** | **325-137** |
| 2-1/2 | **325-104** | **325-111** | **325-119** | **325-A06-1K** | **325-A10-1M** |
| 3 | **325-105** | **325-112** | **325-120** | **325-A05-1T** | **325-143** |
| 3-1/2 | | | | **325-A07-1W** | **325-139** |
| 4 | **325-106** | **325-113** | **325-122** | **325-131** | |
| 5 | **325-107** | **325-114** | **325-123** | **325-132** | **325-141** |
| 6 | | **325-115** | **325-124** | **325-A12-1A** | **325-142** |

**Contact Sales Desk For Package Quantities**

*Note: Tapped oversize Nuts must be used with Hot Galvanized Hex Cap Screws.*
*For Hot Galvanized Hexagon Nuts, see page C6.*

For Torque Wrenches see Page N46






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# STEEL

**FOR EXTRA STRENGTH**

**SAE GRADE 5**
**Material Spec. ASTM A 449**

**FULLY THREADED**

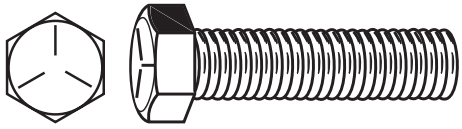
**C1035-1041 MEDIUM CARBON STEEL**
**QUENCHED and TEMPERED**
**BRIGHT ZINC CHROMATE PLATED**

**Note the SAE Grade 5 marking on head. (3 radial lines 120° apart)**

**For applications requiring a high tensile Cap Screw fully threaded to head.**

**MINIMUM TENSILE STRENGTH (PSI)**
**Up to 1" dia. inclusive 120,000 PSI**

**ASME B18.2.1**



**FULLY THREADED TO HEAD**
May or may not have a washer face under the head.

Length shown is under head to end in inches.

**COARSE THREAD (U.N.C.) (U.S.S.)** — UNIFIED STANDARD — CLASS 2A FIT

| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 |
| LENGTH▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 1/2 | HC-8 | HC-23 | HC-39 | | | | | |
| 5/8 | HC-9 | HC-24 | 326-G18-1T | | | | | |
| 3/4 | HC-10 | HC-25 | HC-41 | HC-56 | HC-71 | | | |
| 7/8 | HC-11 | HC-26 | HC-42 | HC-57 | 326-340 | | | |
| 1 | HC-12 | HC-27 | HC-43 | HC-58 | HC-73 | HC-87 | HC-101 | HC-112 |
| 1-1/8 | | 326-349 | 326-G12-1X | | 326-360 | | | |
| 1-1/4 | 326-G05-1N | HC-28 | HC-44 | HC-5 | HC-74 | HC-88 | HC-102 | HC-256 |
| 1-3/8 | | | 326-355 | | | | | |
| 1-1/2 | 326-334 | 326-G16-1C | 326-G07-1K | HC-59 | HC-75 | | HC-103 | HC-113 |
| 1-3/4 | 326-335 | 326-337 | 326-G14-1P | | HC-76 | | | 326-345 |
| 2 | 326-336 | 326-338 | FT-10 | 326-G06-1T | FT-15 | | HC-105 | |
| 2-1/4 | 326-348 | 326-350 | 326-356 | | 326-362 | | 326-367 | |
| 2-1/2 | | 325-351 | 326-G11-1M | | 326-363 | | 326-368 | |
| 2-3/4 | | 326-352 | | | | | | |
| 3 | 326-413 | 326-G09-1M | 326-358 | | 326-364 | | 326-369 | 326-374 |
| 3-1/2 | | | 326-359 | | 326-365 | | 326-370 | 326-G01-1A |
| 4 | | | | | 326-366 | | 326-G10-1W | 326-376 |

**FINE THREAD (U.N.F.) (S.A.E.)** — UNIFIED STANDARD — CLASS 2A FIT

| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|---|---|
| THD. | 28 | 24 | 24 | 20 | 20 | 18 | 18 | 16 |
| LENGTH▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 1/2 | HC-121 | HC-136 | | | | | | |
| 5/8 | HC-122 | HC-137 | | | | | | |
| 3/4 | HC-123 | HC-138 | HC-150 | | | | | |
| 7/8 | | HC-139 | HC-151 | | | | | |
| 1 | HC-125 | | HC-152 | 326-G22-1W | 326-G48-1X | HC-186 | HC-198 | |
| 1-1/4 | | | HC-153 | | HC-175 | HC-187 | | |
| 1-1/2 | | FT-22 | FT-24 | | | | HC-199 | HC-207 |
| 2 | | | FT-25 | | | | | |

**Contact Sales Desk For Package Quantities**

For SAE Grade 5 Hexagon Cap Screws in Standard Thread Lengths:
Coarse Thread - see page B139.
Fine Thread - see page B140.



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# STEEL

**FOR EXTRA STRENGTH**

**SAE GRADE 5**

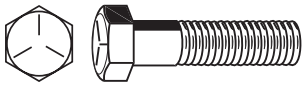
**Material Spec. ASTM A 449**
Length shown is under head to end in inches

**C1035-1041**
**MEDIUM CARBON STEEL** FINISHED HEXAGON BOLTS

**BRIGHT ZINC CHROMATE PLATED**
**QUENCHED AND TEMPERED**

**MINIMUM TENSILE STRENGTH (PSI)**
**Up to 1" dia. inclusive 120,000 PSI**
**Over 1" to 1-1/2" inclusive 105,000 PSI**

**ASME B18.2.1**



MINIMUM THREAD LENGTH (Standard)
Up to 6" long: (2D + 1/4) Twice diameter plus 1/4 inch.
Over 6" long: (2D + 1/2) Twice diameter plus 1/2 inch.

**NOTE: See listing on page B138 for Grade 5 Cap Screws with full thread length.**



## COARSE THREAD (U.N.C.) (U.S.S.)

**UNIFIED STANDARD CLASS 2A FIT**

| DIA. | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" | 9/16" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 |
| LENGTH▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 3/8 | 326-412 | | | | | | | |
| 1-1/4 | HC-13 | | | | | | | |
| 1-1/2 | HC-14 | HC-29 | HC-45 | | | HC-89 | | |
| 1-3/4 | HC-15 | 326-G46-1W | HC-46 | HC-60 | | HC-90 | | |
| 2 | HC-16 | HC-31 | HC-47 | HC-61 | HC-77 | HC-91 | | HC-114 |
| 2-1/4 | HC-17 | HC-32 | HC-48 | HC-62 | HC-78 | HC-92 | 326-012 | 326-313 |
| 2-1/2 | HC-18 | HC-33 | HC-49 | HC-63 | HC-79 | HC-93 | HC-106 | HC-115 |
| 2-3/4 | HC-19 | HC-34 | HC-50 | HC-64 | HC-80 | HC-94 | 326-013 | 326-437 |
| 3 | HC-20 | HC-35 | HC-51 | HC-65 | HC-81 | HC-95 | HC-107 | HC-116 |
| 3-1/4 | | | 326-440 | | 326-007 | | 326-347 | 326-434 |
| 3-1/2 | HC-21 | HC-36 | HC-52 | HC-66 | HC-82 | HC-96 | HC-108 | 326-319 |
| 4 | HC-22 | HC-37 | HC-53 | HC-67 | HC-83 | HC-97 | HC-109 | HC-117 |
| 4-1/2 | 326-312 | 326-318 | HC-54 | HC-68 | HC-84 | HC-98 | HC-110 | HC-245 |
| 5 | 326-G13-1A | 326-G08-1W | HC-55 | HC-69 | HC-85 | HC-99 | HC-110A | HC-118 |
| 5-1/2 | 326-468 | 326-444 | 326-442 | 326-454 | 326-014 | | 326-458 | 326-446 |
| 6 | 326-326 | HC-241 | HC-242 | HC-70 | HC-86 | HC-100 | HC-111 | HC-119 |
| 6-1/2 | 326-469 | 326-450 | | 326-455 | 326-002 | | 326-G15-1Y | 326-001 |
| 7 | 326-327 | | 326-316 | 326-456 | 326-004 | | 326-459 | 326-010 |
| 7-1/2 | | | | | 326-474 | | 326-460 | 326-328 |
| 8 | | | 326-323 | | HC-258 | | HC-259 | 326-435 |
| 8-1/2 | | | | | 326-325 | | 326-461 | 326-315 |
| 9-1/2 | | | | | | | 326-462 | 326-G03-1Y |
| 10 | | | | | 326-471 | | 326-G20-1T | 326-449 |
| 11 | | | | | 326-472 | | | HC-253 |

| DIA. | 7/8" | 1" | 1-1/8" | 1-1/4" | 1-1/2" |
|---|---|---|---|---|---|
| THD. | 9 | 8 | 7 | 7 | 6 |
| 1-1/2 | HC-214 | 326-003 | | | |
| 1-3/4 | | 326-415 | | | |
| 2 | HC-215 | HC-222 | | | |
| 2-1/4 | 326-463 | 326-418 | | | |
| 2-1/2 | HC-216 | HC-223 | | | |
| 3 | HC-217 | HC-224 | | | |
| 3-1/2 | 326-310 | HC-267 | | | 326-416 |
| 4 | HC-218 | HC-225 | | | |
| 4-1/2 | 326-331 | 326-422 | | HC-268 | |
| 5 | HC-219 | HC-226 | 326-G21-1K | 326-330 | |
| 6 | HC-220 | HC-227 | | | |
| 6-1/2 | | 326-425 | | | |
| 7 | | 326-447 | | 326-321 | HC-264 |
| 7-1/2 | | 326-314 | | HC-269 | |
| 8 | | 326-445 | HC-262 | HC-263 | |
| 9 | HC-260 | | | | |
| 10 | 326-377 | | | | |
| 11 | | HC-254 | | | |
| 12 | | 326-317 | | | |

**Contact Sales Desk For Package Quantities**



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# STEEL

**FOR EXTRA STRENGTH**

**SAE GRADE 5**

**Material Spec. ASTM A 449**

Length shown is under head to end in inches

**C1035-1041**
**MEDIUM CARBON STEEL**

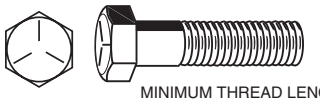
**BRIGHT ZINC CHROMATE PLATED**

**QUENCHED AND TEMPERED**

**MINIMUM TENSILE STRENGTH (PSI)**
**Up to 1" dia. inclusive 120,000 PSI**
**Over 1" to 1-1/2" inclusive 105,000 PSI**

**ASME B18.2.1**

FINISHED HEXAGON BOLTS



MINIMUM THREAD LENGTH (Standard)
Up to 6" long: (2D + 1/4) Twice diameter plus 1/4 inch.
Over 6" long: (2D + 1/2) Twice diameter plus 1/2 inch.

**NOTE: See page B138 for Grade 5 Cap Screws with full thread length.**

## FINE THREAD (U.N.F.) (S.A.E.)

**UNIFIED STANDARD CLASS 2A FIT**

| DIA. | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" | 9/16" |
|---|---|---|---|---|---|---|
| THD. | 28 | 24 | 24 | 20 | 20 | 18 |
| LENGTH ▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 1/2 | | | HC-244 | | | |
| 3/4 | | | | HC-270 | | |
| 7/8 | HC-124 | | | | | |
| 1 | HC-125 | HC-140 | | | | HC-186 |
| 1-1/4 | HC-126 | HC-3 | HC-153 | HC-164 | | HC-187 |
| 1-1/2 | HC-127 | 326-G02-1P | HC-154 | HC-165 | HC-6 | HC-188 |
| 1-3/4 | HC-128 | HC-4 | HC-155 | HC-166 | HC-176 | HC-189 |
| 2 | HC-129 | HC-142 | HC-156 | HC-167 | HC-177 | HC-190 |
| 2-1/4 | 326-G23-1M | HC-143 | HC-157 | HC-167A | HC-178 | HC-191 |
| 2-1/2 | HC-131 | HC-144 | HC-158 | HC-168 | HC-179 | HC-192 |
| 2-3/4 | HC-132 | HC-145 | | | | |
| 3 | 326-G47-1M | HC-146 | HC-159 | HC-168A | HC-180 | HC-193 |
| 3-1/4 | | | 326-393 | | | |
| 3-1/2 | HC-134 | HC-147 | HC-160 | HC-169 | HC-181 | HC-194 |
| 4 | HC-135 | 326-G19-1K | HC-161 | HC-170 | HC-182 | HC-195 |
| 4-1/2 | | | | HC-171 | HC-183 | |
| 5 | | HC-149 | HC-162 | HC-172 | HC-184 | |
| 6 | | | | HC-173 | HC-185 | HC-197 |

| DIA. | 5/8" | 3/4" | 7/8" | 1" | 1-1/4" |
|---|---|---|---|---|---|
| THD. | 18 | 16 | 14 | 14 | 12 |
| 1 | | HC-252 | | | |
| 1-1/2 | | | HC-228 | | |
| 1-3/4 | HC-246 | | | | |
| 2 | HC-200 | HC-208 | | HC-236 | |
| 2-1/2 | HC-201 | HC-209 | HC-230 | HC-237 | |
| 3 | HC-202 | HC-210 | HC-231 | HC-238 | |
| 3-1/2 | 326-G17-1N | HC-243 | HC-247 | | |
| 4 | HC-204 | HC-211 | HC-232 | HC-239 | |
| 4-1/2 | HC-205 | | HC-248 | | |
| 5 | HC-1 | HC-212 | HC-233 | HC-240 | |
| 6 | HC-206 | HC-213 | HC-234 | HC-2 | 326-311 |
| 6-1/2 | | 326-308 | 326-309 | | |
| 7 | HC-250 | | | | |
| 8 | | | | 326-324 | |
| 10 | | HC-257 | | | |

**Contact Sales Desk For Package Quantities**

For Grade 5 Hex Nuts see Page C3





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# STEEL

**FOR EXTRA STRENGTH**

**SAE GRADE 5**

**Material Spec. ASTM A 449**

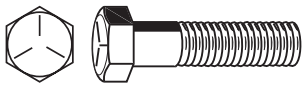
Length shown is under head to end in inches

**C1035-1041**
**MEDIUM CARBON STEEL** FINISHED HEXAGON BOLTS

**PLAIN FINISH**
**QUENCHED AND TEMPERED**

**MINIMUM TENSILE STRENGTH (PSI)**
**Up to 1" dia. inclusive 120,000 PSI**
**Over 1" to 1-1/2" inclusive 105,000 PSI**

**ASME B18.2.1**



MINIMUM THREAD LENGTH (Standard)
Up to 6" long: (2D + 1/4) Twice diameter plus 1/4 inch.
Over 6" long: (2D + 1/2) Twice diameter plus 1/2 inch.

**NOTE: See listing on page B138, B139 & B140 for Grade 5 Cap Screws bright zinc chromate plated**

B

## COARSE THREAD (U.N.C.) (U.S.S.)

**UNIFIED STANDARD CLASS 2A FIT**

| DIA. | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 | 11 | 10 |
| LENGTH▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 1/2 | **326-406** | | | | | | |
| 1 | **326-395** | | | | **326-006** | | |
| 1-1/4 | **326-383** | | **326-399** | | **326-005** | **326-398** | |
| 1-1/2 | | **326-396** | | **•▪HC-59B** | **326-384** | ***326-390** | |
| 1-3/4 | | | | | | | **326-400** |
| 2 | | **326-397** | | **HC-61B** | | | **326-379** |
| 2-1/4 | | | | | | | **326-394** |
| 2-1/2 | | | | | **326-385** | | **326-401** |
| 2-3/4 | | | | | | **▲326-388** | **326-404** |
| 3 | | | | **HC-65B** | **326-386** | | **326-380** |
| 3-1/2 | | | | | | **HC-108B** | **326-403** |
| 3-3/4 | | | | | **326-473** | **326-467** | |
| 4 | | **326-408** | **326-407** | | **HC-83B** | | **326-381** |
| 4-1/2 | | | | | **HC-84B** | | **326-382** |
| 5 | | | | | **326-391** | | |
| 5-1/2 | | | | | **326-387** | | **326-008** |
| 6 | | | | | **326-409** | | |
| 7 | | | | | **326-405** | | |
| 11 | | | | | | | **326-410** |

| DIA. | 7/8" | 1" | 1-1/8" | 1-1/2" |
|---|---|---|---|---|
| THD. | 9 | 8 | 7 | 6 |
| 1-3/4 | | **326-414** | | |
| 2 | | **326-417** | | |
| 2-1/4 | | **326-431** | | |
| 2-1/2 | | | **326-429** | |
| 2-3/4 | | **326-419** | | |
| 3 | | **HC-224B** | | |
| 3-1/2 | **326-310B** | | **326-430** | **326-427** |
| 3-1/4 | | **326-432** | | |
| 4 | **326-402** | **HC-225B** | | |
| 4-1/2 | **326-331B** | **326-009** | **326-389** | **326-428** |
| 5 | | **326-433** | | |
| 5-1/2 | **326-378** | | | |
| 6 | **HC-220B** | **326-441** | | |

**Contact Sales Desk For Package Quantities**

**▲326-439** 5/8"-11 UNF x 2-3/4" Fully Threaded ***326-411** 5/8"-18 UNF x 1-1/2" Fully Threaded
**•326-465** 7/16"-20 UNF x 1-1/4" Fully Threaded **▪326-466** 7-16"-20 UNF x 1-1/2" Fully Threaded



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B

**ASSORTMENT / ASSORTIMENT 805-001B**

# HEX CAP SCREWS, NUTS, SPLIT LOCK & FLAT WASHERS

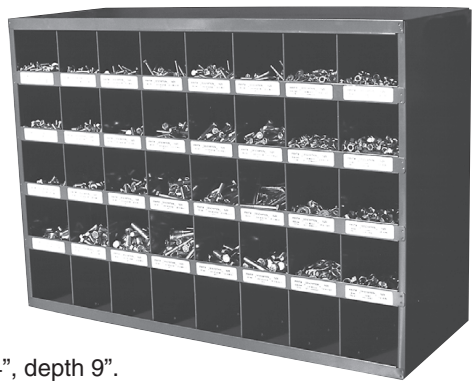
ASME B18.21.1 ASME/ANSI B18.2.1 ASME/ANSI B18.2.2

**2950 PIECES**
**41 SIZES**

The perfect choice for easily accessible storage in parts departments, tool crib areas, maintenance and repair shops, garages, and for the handyman.

**About the Storage Bin!**
The grey baked enamel Durham bin is extremely sturdy. Produced from prime cold rolled steel - interlocked and welded construction, it will not warp, twist or sag. Each shelf has a fully hemmed 1-1/8" turn on the front providing space for labelling contents. It has 32 compartments for assortment contents and 8 compartments for additional storage for your use. Overall bin measurements are width 33-3/4", height 22-1/4", depth 8-3/4", minimizing premium floor space requirements.

**Reordering Stock - EASY!**
When stock items are getting low, simply call our Order Desk, identify the items you require by **SPAENAUR Number** and we'll send you the unit package quantities to refill your bin.



## *SPAENAUR No.* 814-040 BASE STAND

Sturdy all-steel construction. Overall measurements: height 5-3/4", width 34", depth 9".

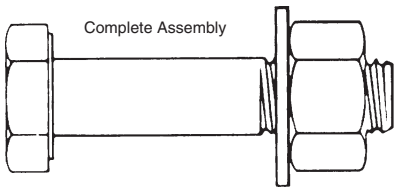
| Name | Compatible Bolt Size | Spaenaur No. | Inner Diameter | Outer Diameter | Thickness | Qty. | Page |
|---|---|---|---|---|---|---|---|
| Flat Washer S.A.E Zinc Plated | 1/4" | 656-B33-1M | 9/32" | 5/8" | 0.051" - 0.080" | 100 | D2 |
| | 5/16" | 656-B47-1A | 11/32" | 11/16" | | | |
| | 3/8" | 656-B02-1Z | 13/32" | 13/16" | | | |
| | 7/16" | 656-B09-1A | 15/32" | 59/64" | | | |
| **Name** | **Compatible Bolt Size** | **Spaenaur No.** | **Width** | **Thickness** | | **Qty.** | **Page** |
| Washer Lockwasher Helical Spring Split Plain & Zinc Plated ASME B18.21.1 | 1/4" | 16-SN | 0.109" | 0.062" | | 100 | D22 |
| | 5/16" | 17-SN | 0.125" | 0.078" | | | |
| | 3/8" | 663-W06-1P | 0.141" | 0.094" | | | |
| | 7/16" | 19-SN | 0.156" | 0.109" | | | |
| **Name** | **Thread Size** | **Spaenaur No.** | **Length Under Head** | | | **Qty.** | **Page** |
| Cap Screw Partial Thread Hexagon Head Bright Zinc Chromate Finish ASME/ANSI B18.2.1 | 1/4"-20 | HC-8 | 1/2" | | | 100 | B138 |
| | | HC-10 | 3/4" | | | 50 | |
| | | HC-12 | 1" | | | 100 | |
| | | HC-14 | 1-1/2" | | | | B139 |
| | | HC-15 | 1-3/4" | | | 50 | B139 |
| | | HC-16 | 2" | | | | |
| | | HC-18 | 2-1/2" | | | | |
| | 5/16"-18 | HC-25 | 3/4" | | | | B138 |
| | | HC-27 | 1" | | | | |
| | | HC-29 | 1-1/2" | | | | B139 |
| | | HC-31 | 2" | | | | |
| | | HC-33 | 2-1/2" | | | | |
| | | HC-35 | 3" | | | | |
| | 3/8"-16 | HC-41 | 3/4" | | | | B138 |
| | | HC-43 | 1" | | | | |
| | | HC-45 | 1-1/2" | | | | B139 |
| | | HC-47 | 2" | | | | |
| | | HC-49 | 2-1/2" | | | | |
| | | HC-51 | 3" | | | | |
| | 7/16"-14 | HC-58 | 1" | | | | B138 |
| | | HC-59 | 1-1/2" | | | | |
| | | HC-61 | 2" | | | | B139 |
| | | HC-63 | 2-1/2" | | | | |
| | | HC-65 | 3" | | | 25 | |
| | | HC-66 | 3-1/2" | | | | |
| **Name** | **Thread Size** | **Spaenaur No.** | | | | **Qty.** | **Page** |
| Eye Bolt Bent | 5/16"-18 | B-92 | | | | 100 | B265 B273 C3 |
| | 3/8"-16 | B-93 | | | | | |
| Nut Steel Hex Finished Full SAE Grade 5 ASME/ANSI B18.2.2 | 1/4"-20 | B-91 | | | | | B265 C3 |
| | 7/16"-14 | 155-P39-1A | | | | | C3 |
| Locknut Cap Screw Sizes Regular Hex Standard Height | 1/4"-20 | 178-C03-1N | | | | | C26 |
| | 5/16"-18 | 178-C26-1C | | | | | C26 |
| | 3/8"-16 | 178-C05-2P | | | | | |
| | 7/16"-14 | HN-181 | | | | | |



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# Hex Head Cap Screws Structural Bolt Assemblies

## Ensembles de boulons structuraux/vis d'assemblage à tête hexagonale




**One Heavy Hex Bolt, one Heavy Hex Nut and one Hardened Washer Assembled.**

Spec. ASTM A-325 Type 1 Plain.

B

### 1/2" Diameter UNC

| Length Under Head Inches | A-325 TYPE-1 Plain | PKG QTY. |
|---|---|---|
| 1-1/4 | **333-001** | 25 |
| 1-1/2 | **333-002** | 25 |
| 1-3/4 | **333-003** | 25 |
| 2 | **333-004** | 25 |
| 2-1/4 | **333-005** | 25 |
| 2-1/2 | **333-006** | 25 |
| 2-3/4 | **333-007** | 25 |
| 3 | **333-008** | 25 |
| 3-1/4 | **333-009** | 25 |
| 3-1/2 | **333-010** | 25 |

### 5/8" Diameter UNC

| | | |
|---|---|---|
| 1-1/4 | **333-011** | 10 |
| 1-1/2 | **333-012** | 10 |
| 1-3/4 | **333-013** | 10 |
| 2 | **333-014** | 10 |
| 2-1/4 | **333-015** | 10 |
| 2-1/2 | **333-016** | 10 |
| 2-3/4 | **333-017** | 10 |
| 3 | **333-018** | 10 |
| 3-1/4 | **333-019** | 10 |
| 3-1/2 | **333-020** | 10 |
| 3-3/4 | **333-021** | 10 |
| 4 | **333-022** | 10 |
| 4-1/2 | **333-023** | 10 |

### 3/4" Diameter UNC

| Length Under Head Inches | A-325 TYPE-1 Plain | PKG QTY. |
|---|---|---|
| 1-1/2 | **333-024** | 10 |
| 1-3/4 | **333-025** | 10 |
| 2 | **333-026** | 10 |
| 2-1/4 | **333-027** | 10 |
| 2-1/2 | **333-028** | 10 |
| 2-3/4 | **333-029** | 10 |
| 3 | **333-030** | 10 |
| 3-1/4 | **333-031** | 10 |
| 3-1/2 | **333-032** | 10 |
| 3-3/4 | **333-033** | 10 |
| 4 | **333-034** | 10 |
| 4-1/4 | **333-035** | 10 |
| 4-1/2 | **333-036** | 10 |
| 4-3/4 | **333-037** | 10 |
| 5 | **333-038** | 10 |
| 5-1/2 | **333-040** | 10 |
| 6 | **333-042** | 10 |
| 6-1/2 | **333-043** | 1 |
| 7 | **333-044** | 1 |
| 8 | **333-045** | 1 |

### 7/8" Diameter UNC

| Length Under Head Inches | A-325 TYPE-1 Plain | PKG QTY. |
|---|---|---|
| 1-3/4 | **333-046** | 10 |
| 2 | **333-047** | 10 |
| 2-1/4 | **333-048** | 10 |
| 2-1/2 | **333-049** | 10 |
| 2-3/4 | **333-050** | 10 |
| 3 | **333-051** | 10 |
| 3-1/4 | **333-052** | 10 |
| 3-1/2 | **333-053** | 10 |
| 3-3/4 | **333-054** | 10 |
| 4 | **333-055** | 10 |
| 4-1/4 | **333-056** | 10 |
| 4-1/2 | **333-057** | 10 |
| 4-3/4 | **333-058** | 10 |
| 5 | **333-059** | 10 |
| 5-1/2 | **333-061** | 10 |
| 6 | **333-063** | 10 |
| 6-1/2 | **333-065** | 1 |
| 7 | **333-066** | 1 |

Spec. ASTM A-325 Type 1 Hot Galvanized and Type 3 Weathering Steel available but not stocked

See page D3 for ASTM F436 Structural Flat Washers

See page C4 for ASTM A194-2H Structural Hex Nuts

### 1" Diameter UNC

| Length Under Head Inches | A-325 TYPE-1 Plain | PKG QTY. |
|---|---|---|
| 2-1/4 | **333-068** | 1 |
| 2-1/2 | **333-069** | 1 |
| 2-3/4 | **333-070** | 1 |
| 3 | **333-071** | 1 |
| 3-1/4 | **333-072** | 1 |
| 3-1/2 | **333-073** | 1 |
| 3-3/4 | **333-074** | 1 |
| 4 | **333-075** | 1 |
| 4-1/4 | **333-076** | 1 |
| 4-1/2 | **333-077** | 1 |
| 4-3/4 | **333-078** | 1 |
| 5 | **333-079** | 1 |
| 5-1/4 | **333-080** | 1 |
| 5-1/2 | **333-081** | 1 |
| 5-3/4 | **333-082** | 1 |
| 6 | **333-083** | 1 |
| 6-1/2 | **333-085** | 1 |
| 7 | **333-086** | 1 |
| 8 | **333-087** | 1 |

### 1-1/8" Diameter UNC

| | | |
|---|---|---|
| 3 | **333-088** | 1 |
| 3-1/2 | **333-089** | 1 |
| 4 | **333-090** | 1 |
| 4-1/2 | **333-091** | 1 |
| 5 | **333-092** | 1 |
| 5-1/2 | **333-093** | 1 |
| 6 | **333-094** | 1 |

### 1-1/4" Diameter UNC

| | | |
|---|---|---|
| 3-1/2 | **333-095** | 1 |
| 4 | **333-096** | 1 |
| 4-1/2 | **333-097** | 1 |
| 5 | **333-098** | 1 |
| 5-1/2 | **333-099** | 1 |
| 6 | **333-100** | 1 |

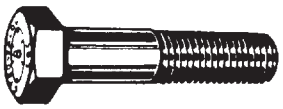
For L9 Fasteners See Pages B147-B150



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B

## Alloy STEEL



Length shown is under head to end in inches

**MINIMUM THREAD LENGTH**
**Up to 6" long:**
Twice diameter plus 1/4 inch.
**Over 6" long:**
Twice diameter plus 1/2 inch.

## SAE GRADE 8

**QUENCHED AND TEMPERED**

## COARSE THREAD

**MINIMUM TENSILE STRENGTH (PSI)**
**1/4" through 1-1/2" - 150,000 PSI**

**ZINC PLATED & DICHROMATE DIPPED GOLDEN ALLOY FINISH**

**UNIFIED STANDARD CLASS 2A FIT**

**ASME B18.2.1**

## COARSE THREAD (U.N.C.) (U.S.S.)

| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 |
|---|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 | 12 | 11 |
| LG▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 1/2 | SA-1 | SA-25 | SA-53 | | | | |
| 5/8 | SA-3 | SA-27 | 327-D07-1A | | | | |
| 3/4 | SA-5 | SA-29 | SA-57 | SA-95 | | | |
| 7/8 | | | SA-59 | | | | |
| 1 | SA-7 | SA-31 | 327-D12-1C | SA-97 | SA-121 | | SA-153 |
| 1-1/4 | SA-9 | SA-33 | SA-63 | SA-99 | SA-123 | | SA-155 |
| 1-1/2 | SA-11 | SA-35 | SA-65 | SA-101 | SA-125 | | SA-157 |
| 1-3/4 | SA-13 | SA-37 | SA-67 | SA-103 | SA-127 | | SA-159 |
| 2 | SA-15 | SA-39 | SA-69 | SA-105 | SA-129 | 327-312 | SA-161 |
| 2-1/4 | SA-17 | SA-41 | SA-71 | SA-107 | SA-131 | | SA-163 |
| 2-1/2 | SA-19 | SA-43 | SA-73 | SA-109 | SA-133 | | SA-165 |
| 2-3/4 | SA-21 | SA-45 | SA-75 | SA-111 | SA-135 | *327-315 | SA-167 |
| 3 | SA-23 | SA-47 | SA-77 | SA-113 | SA-137 | 327-321 | SA-169 |
| 3-1/4 | | | SA-79 | | SA-139 | | |
| 3-1/2 | | SA-49 | SA-81 | SA-115 | SA-141 | | SA-171 |
| 3-3/4 | | | | 327-297 | | | |
| 4 | | SA-51 | SA-85 | SA-117 | SA-143 | | SA-173 |
| 4-1/2 | | | SA-87 | 327-307 | SA-145 | | SA-175 |
| 5 | | | 327-D11-1Y | | SA-147 | | SA-177 |
| 5-1/2 | | | SA-91 | | SA-149 | | SA-179 |
| 6 | | 327-001 | SA-93 | | SA-151 | | SA-181 |
| 6-1/2 | | | 327-326 | | SA-257 | | |
| 7 | | | 327-306 | | 327-295 | | SA-261 |
| 8 | | | | ▲327-298 | | | |
| 8-1/2 | | | | | 327-319 | | |

▲**327-322** Plain Finish *Zinc Plated

| DIA. | 3/4 | 7/8 | 1 | 1-1/8 | 1-1/4 | 1-3/8 | 1-1/2 |
|---|---|---|---|---|---|---|---|
| THD. | 10 | 9 | 8 | 7 | 7 | 6 | 6 |
| LG▼ | | | | | | | |
| 1-1/2 | SA-183 | | | | | | |
| 1-3/4 | SA-185 | | | | | | |
| 2 | SA-187 | SA-211 | SA-237 | | | | |
| 2-1/4 | SA-189 | SA-213 | | | | | |
| 2-1/2 | 327-D01-1N | SA-215 | SA-239 | | | | |
| 2-3/4 | SA-193 | SA-217 | | | | | |
| 3 | SA-195 | SA-219 | SA-241 | | SA-258 | | |
| 3-1/4 | SA-197 | SA-221 | | | | | |
| 3-1/2 | SA-199 | SA-223 | SA-243 | | | | |
| 3-3/4 | | SA-225 | | | | | |
| 4 | SA-201 | SA-227 | SA-245 | | 327-002 | | |
| 4-1/2 | SA-203 | SA-229 | SA-247 | 327-288 | | | |
| 5 | 327-D05-1M | SA-231 | SA-249 | | 327-287 | | |
| 5-1/2 | SA-207 | SA-233 | SA-251 | | 327-300 | | |
| 6 | SA-209 | SA-235 | SA-253 | SA-263 | SA-273 | 327-318 | SA-279 |
| 6-1/2 | | | SA-259 | | | | |
| 7 | | 327-293 | 327-290 | SA-255 | 327-262 | | |
| 7-1/2 | 327-313 | SA-267 | | | SA-275 | | |
| 8 | SA-265 | | 327-291 | | | | 327-292 |
| 10 | | | SA-271 | 327-286 | 327-D06-1X | | SA-283 |
| 12 | 327-303 | | | | | | SA-285 |

**Contact Sales Desk For Package Quantities**





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ASSORTMENT
ASSORTIMENT
**805-515**

## Hexagon CAP SCREWS

**SAE GRADE 5 STEEL - For Extra Strength**
Bright Zinc Chromate Plated

**ALL COARSE THREAD INCH SIZES**

***13 sizes PARTIALLY THREADED***
***11 sizes FULLY THREADED***

**24 SIZES - 180 PIECES**

Regular Size grey enamelled drawer fits the Slide Racks shown on page A2

Shipping Wt: **5.78 kg** (12-3/4 lbs.)





ASSORTMENT
ASSORTIMENT
**805-657B**

## HEX CAP SCREWS, NUTS, SPLIT LOCK & FLAT WASHERS

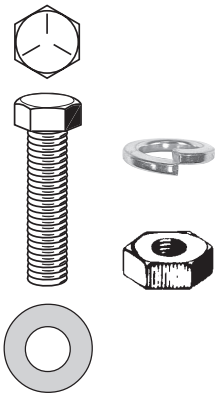
**SAE GRADE 5 STEEL - For Extra Strength**
Bright Zinc Chromate Plated

**COARSE THREAD (UNC)**
**SAE GR. 5 STEEL For Extra Strength**

**23 SIZES - 1170 PIECES**

Furnished in a Large Size welded metal drawer with hinged lid and catch. Drawer will fit into Slide Racks shown on page A3

Shipping Wt: 1**5.9 kg** (35 lbs.)





**For the complete assortment contents turn to A45**

## HEX CAP SCREWS & NUTS

**Each assortment contains:**

**20 Sizes — 750 Pieces** Hex Cap Screws

**4 Sizes — 350 Pieces** Hex Nuts

Zinc Plated & Dichromate Dipped Golden Alloy Finish

ASSORTMENT
ASSORTIMENT
**805-660**

**COARSE (UNC) THREAD**

Shipping Weight: **20.86 kg** (46 lbs.)

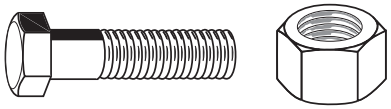
ASSORTMENT
ASSORTIMENT
**805-650**

**FINE (UNF) THREAD**

Shipping Weight : **21.27 kg** (46.9 lbs.)



**SAE GR. 8**



Each Assortment is furnished in a Large Size grey enamel steel drawer with hinged lid and catch.

Drawers have scooped bins for easy access and will fit into Slide Racks shown on page A3

**For the complete assortment contents turn to A46**



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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## FINE THREAD (U.N.F.) (S.A.E.)

| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 |
|---|---|---|---|---|---|---|
| THD. | 28 | 24 | 24 | 20 | 20 | 18 |
| LG▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 1/2 | SA-2 | SA-26 | SA-54 | | | |
| 5/8 | SA-4 | | | | | |
| 3/4 | SA-6 | SA-30 | SA-58 | SA-96 | | |
| 7/8 | | | SA-60 | | | |
| 1 | SA-8 | SA-32 | SA-62 | SA-98 | SA-122 | |
| 1-1/4 | SA-10 | SA-34 | SA-64 | SA-100 | SA-124 | |
| 1-1/2 | SA-12 | SA-36 | 327-D10-1P | SA-102 | SA-126 | |
| 1-3/4 | SA-14 | SA-38 | SA-68 | SA-104 | SA-128 | 327-294 |
| 2 | SA-16 | SA-40 | SA-70 | SA-106 | SA-130 | 327-311 |
| 2-1/4 | SA-18 | SA-42 | SA-72 | SA-108 | SA-132 | |
| 2-1/2 | 327-D03-1K | SA-44 | SA-74 | SA-110 | SA-134 | |
| 2-3/4 | SA-22 | SA-46 | SA-76 | SA-112 | SA-136 | |
| 3 | ▲SA-24 | SA-48 | 327-D04-1W | SA-114 | SA-138 | 327-310 |
| 3-1/4 | | | SA-80 | | SA-140 | |
| 3-1/2 | | SA-50 | SA-82 | SA-116 | SA-142 | |
| 3-3/4 | | | 327-003 | | | |
| 4 | | SA-52 | SA-86 | SA-118 | SA-144 | |
| 4-1/2 | | | SA-88 | | SA-146 | |
| 5 | 327-308 | | SA-90 | | SA-148 | |
| 5-1/2 | | | | | SA-150 | |
| 6 | | | SA-94 | | | |
| 7 | | | | | 327-299 | |

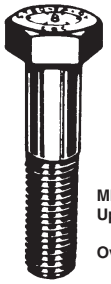
▲**327-323** Plain Finish

| DIA. | 5/8 | 3/4 | 7/8 | 1 |
|---|---|---|---|---|
| THD. | 18 | 16 | 14 | 14 |
| LG▼ | | | | |
| 1 | SA-154 | | | |
| 1-1/4 | 327-D13-1N | | | |
| 1-1/2 | ▪SA-158 | SA-184 | | |
| 1-3/4 | SA-160 | SA-186 | | |
| 2 | SA-162 | SA-188 | SA-212 | SA-238 |
| 2-1/4 | SA-164 | SA-190 | SA-214 | |
| 2-1/2 | SA-166 | SA-192 | SA-216 | SA-240 |
| 2-3/4 | SA-168 | SA-194 | SA-218 | |
| 3 | SA-170 | SA-196 | SA-220 | SA-242 |
| 3-1/4 | | SA-198 | SA-222 | |
| 3-1/2 | SA-172 | SA-200 | SA-224 | SA-244 |
| 3-3/4 | | | SA-226 | |
| 4 | SA-174 | SA-202 | SA-228 | SA-246 |
| 4-1/2 | SA-176 | SA-204 | SA-230 | SA-248 |
| 5 | SA-178 | SA-206 | SA-232 | SA-250 |
| 5-1/2 | | | | SA-252 |
| 6 | SA-182 | SA-210 | SA-236 | SA-254 |
| 6-1/2 | 327-314 | 327-D09-1Y | | SA-260 |
| 7 | | 327-289 | 327-309 | 327-301 |
| 7-1/2 | 327-305 | | | |
| 8 | | SA-266 | | |
| 12-1/2 | | | | 327-302 |

▪**327-324** Plain Finish

**Contact Sales Desk For Package Quantities**

**Alloy STEEL**



Length shown is under head to end in inches.

**MINIMUM THREAD LENGTH**
**Up to 6" long:**
**Twice diameter plus 1/4 inch.**
**Over 6" long:**
**Twice diameter plus 1/2 inch.**

# SAE GRADE 8

**QUENCHED AND TEMPERED**

**FINE THREAD**

**MINIMUM TENSILE STRENGTH (PSI)**
**1/4" through 1-1/2" - 150,000 PSI**

**ZINC PLATED & DICHROMATE DIPPED GOLDEN ALLOY FINISH**

**UNIFIED STANDARD CLASS 2A FIT**

**ASME B18.2.1**






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# Alloy STEEL
## Heat Treated





Length shown is under head to end in inches.

**MINIMUM THREAD LENGTH**
**Up to 6" long: Twice diameter plus 1/4 inch.**
**Over 6" long: Twice diameter plus 1/2 inch.**

# L•9® HEXAGON Bolts

**20% stronger than SAE Grade 8**

**IMPORTANT NOTE:**
To obtain optimum strength values, use only L•9 fasteners.

**ZINC PLATED**
**Yellow Dichromate Finish**

**Rockwell Hardness**
**C38-42**

**UNIFIED STANDARD**
**CLASS 2A FIT**

**MINIMUM**
**TENSILE STRENGTH**
**180,000 PSI**

### Bolt Head Specifications

| DIA. | WIDTH ACROSS FLATS MAX | WIDTH ACROSS FLATS MIN | HEAD HEIGHT MAX | HEAD HEIGHT MIN |
|---|---|---|---|---|
| 1/4 | .437 | .428 | .194 | .181 |
| 5/16 | .500 | .489 | .242 | .227 |
| 3/8 | .562 | .551 | .290 | .273 |
| 7/16 | .625 | .612 | .338 | .319 |
| 1/2 | .750 | .736 | .386 | .364 |
| 9/16 | .812 | .798 | .433 | .410 |
| 5/8 | .937 | .922 | .481 | .456 |
| 3/4 | 1.125 | 1.110 | .577 | .548 |
| 7/8 | 1.312 | 1.285 | .672 | .640 |
| 1 | 1.500 | 1.469 | .706 | .670 |
| 1-1/8 | 1.687 | 1.631 | .806 | .756 |
| 1-1/4 | 1.875 | 1.812 | .886 | .832 |
| 1-1/2 | 2.250 | 2.175 | 1.062 | 1.000 |

## COARSE THREAD (U.N.R.C.)

| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 |
|---|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 | 12 | 11 |
| LG.▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 1/2 | 329-001 | 329-011 | 329-022 | | | | |
| 3/4 | 329-002 | 329-012 | 329-023 | 329-037 | 329-049 | | |
| 1 | 329-003 | 329-013 | 329-024 | 329-038 | 329-050 | 329-065 | 329-073 |
| 1-1/4 | 329-004 | 329-014 | 329-025 | 329-039 | 329-051 | | 329-074 |
| 1-1/2 | 329-005 | 329-015 | 329-026 | 329-040 | 329-052 | 329-066 | 329-075 |
| 1-3/4 | 329-006 | 329-016 | 329-027 | 329-041 | 329-053 | | 329-076 |
| 2 | 329-007 | 329-017 | 329-028 | 329-042 | 329-054 | 329-067 | 329-077 |
| 2-1/4 | | | 329-029 | | 329-055 | | 329-078 |
| 2-1/2 | 329-008 | 329-018 | 329-030 | 329-043 | 329-056 | 329-068 | 329-079 |
| 2-3/4 | | | | | | | 329-080 |
| 3 | 329-009 | 329-019 | 329-031 | 329-044 | 329-057 | 329-069 | 329-081 |
| 3-1/2 | | 329-020 | 329-032 | 329-045 | 329-058 | 329-070 | 329-082 |
| 4 | | 329-021 | 329-033 | 329-046 | 329-059 | 329-071 | 329-083 |
| 4-1/2 | | | 329-034 | | 329-060 | | 329-084 |
| 5 | | | 329-035 | 329-047 | 329-061 | 329-072 | 329-085 |
| 5-1/2 | | | | | | | 329-086 |
| 6 | | | | 329-048 | 329-062 | | 329-087 |
| 7 | | | | | 329-063 | | 329-088 |
| 8 | | | | | 329-064 | | 329-089 |
| 9 | | | | | | | 329-090 |
| 10 | | | | | | | 329-091 |
| 11 | | | | | | | 329-092 |
| 12 | | | | | | | 329-093 |

| DIA. | 3/4 | 7/8 | 1 | 1-1/8 | 1-1/4 | 1-1/2 | |
|---|---|---|---|---|---|---|---|
| THD. | 10 | 9 | 8 | 7 | 7 | 6 | |
| LG.▼ | | | | | | | |
| 1-1/2 | 329-094 | | | | | | |
| 1-3/4 | 329-095 | | | | | | |
| 2 | 329-096 | 329-113 | 329-128 | | | | |
| 2-1/4 | 329-097 | | | | | | |
| 2-1/2 | 329-098 | 329-114 | 329-129 | | | | |
| 2-3/4 | 329-099 | | | | | | |
| 3 | 329-100 | 329-115 | 329-130 | 329-143 | 329-151 | | |
| 3-1/2 | 329-101 | 329-116 | 329-131 | 329-144 | 329-152 | | |
| 4 | 329-102 | 329-117 | 329-132 | 329-145 | 329-153 | 329-164 | |
| 4-1/2 | 329-103 | 329-118 | 329-133 | 329-146 | 329-154 | | |
| 5 | 329-104 | 329-119 | 329-134 | 329-147 | 329-155 | 329-165 | |
| 5-1/2 | 329-105 | 329-120 | 329-135 | | 329-156 | | |
| 6 | 329-106 | 329-121 | 329-136 | 329-148 | 329-157 | 329-166 | |
| 7 | 329-107 | 329-122 | 329-137 | 329-149 | 329-158 | 329-167 | |
| 8 | 329-108 | 329-123 | 329-138 | | 329-159 | 329-168 | |
| 9 | 329-109 | 329-124 | 329-139 | | 329-160 | | |
| 10 | 329-110 | 329-125 | 329-140 | 329-150 | 329-161 | 329-169 | |
| 11 | 329-111 | 329-126 | 329-141 | | 329-162 | | |
| 12 | 329-112 | 329-127 | 329-142 | | 329-163 | 329-170 | |

**Contact Sales Desk For Package Quantities**

L•9® Nuts and washers on page B149.
L•9® assortment on page B150





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B

## FINE THREAD (U.N.R.F.)

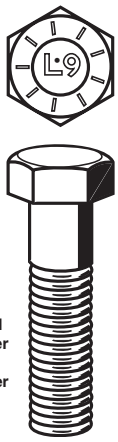
| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 |
|---|---|---|---|---|---|---|---|
| THD. | 28 | 24 | 24 | 20 | 20 | 18 | 18 |
| LG.▼ | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 1/2 | 329-171 | | | | | | |
| 3/4 | 329-172 | 329-179 | 329-187 | | | | |
| 1 | 329-173 | 329-180 | 329-188 | 329-198 | 329-207 | | 329-227 |
| 1-1/4 | 329-174 | 329-181 | 329-189 | 329-199 | 329-208 | | |
| 1-1/2 | 329-175 | 329-182 | 329-190 | 329-200 | 329-209 | 329-221 | 329-228 |
| 1-3/4 | | 329-183 | 329-191 | 329-201 | 329-210 | | 329-229 |
| 2 | 329-176 | 329-184 | 329-192 | 329-202 | 329-211 | 329-222 | 329-230 |
| 2-1/4 | | | 329-193 | | 329-212 | | 329-231 |
| 2-1/2 | 329-177 | 329-185 | 329-194 | 329-203 | 329-213 | 329-223 | 329-232 |
| 2-3/4 | | | | | | | 329-233 |
| 3 | 329-178 | 329-186 | 329-195 | 329-204 | 329-214 | 329-224 | 329-234 |
| 3-1/2 | | | 329-196 | 329-205 | 329-215 | 329-225 | 329-235 |
| 4 | | | 329-197 | 329-206 | 329-216 | 329-226 | 329-236 |
| 4-1/2 | | | | | | | 329-237 |
| 5 | | | | | 329-217 | | 329-238 |
| 5-1/2 | | | | | | | 329-B02-1C |
| 6 | | | | | 329-218 | | 329-240 |
| 7 | | | | | 329-219 | | 329-241 |
| 8 | | | | | 329-220 | | 329-242 |
| 9 | | | | | | | 329-243 |

| DIA. | 3/4 | 7/8 | 1 | 1-1/8 | 1-1/4 | 1-1/2 |
|---|---|---|---|---|---|---|
| THD. | 16 | 14 | 14 | 12 | 12 | 12 |
| LG.▼ | | | | | | |
| 1-1/2 | 329-244 | | | | | |
| 1-3/4 | 329-245 | | | | | |
| 2 | 329-246 | 329-262 | | | | |
| 2-1/4 | 329-247 | | | | | |
| 2-1/2 | 329-248 | 329-263 | 329-274 | | | |
| 2-3/4 | 329-249 | | | | | |
| 3 | 329-250 | 329-264 | 329-275 | 329-288 | 329-296 | |
| 3-1/2 | 329-251 | 329-265 | 329-276 | 329-289 | 329-297 | |
| 4 | 329-252 | 329-266 | 329-277 | 329-290 | 329-298 | |
| 4-1/2 | 329-253 | 329-267 | 329-278 | 329-291 | 329-299 | |
| 5 | 329-254 | 329-268 | 329-279 | 329-292 | 329-300 | 329-310 |
| 5-1/2 | 329-255 | 329-269 | 329-280 | | 329-301 | |
| 6 | 329-256 | 329-270 | 329-281 | 329-293 | 329-302 | 329-311 |
| 7 | 329-257 | 329-271 | 329-282 | 329-294 | 329-303 | 329-312 |
| 8 | 329-258 | 329-272 | 329-283 | 329-295 | 329-304 | |
| 9 | 329-259 | 329-273 | 329-284 | | 329-305 | |
| 10 | 329-260 | | 329-285 | | 329-306 | |
| 11 | 329-261 | | 329-286 | | 329-307 | |
| 12 | | | 329-287 | | 329-308 | |

**Contact Sales Desk For Package Quantities**

L•9® Nuts and washers on page B149.
L•9® assortment on page B150

## Alloy STEEL
### Heat Treated



Length shown is under head to end in inches.

**MINIMUM THREAD LENGTH**
**Up to 6" long: Twice diameter plus 1/4 inch.**
**Over 6" long: Twice diameter plus 1/2 inch.**

## L•9® HEXAGON Bolts

**20% stronger than SAE Grade 8**

**IMPORTANT NOTE:**
To obtain optimum strength values, use only L•9 fasteners.

**ZINC PLATED**
**Yellow Dichromate Finish**

**Rockwell Hardness**
**C38-42**

**UNIFIED STANDARD**
**CLASS 2A FIT**

**MINIMUM**
**TENSILE STRENGTH**
**180,000 PSI**

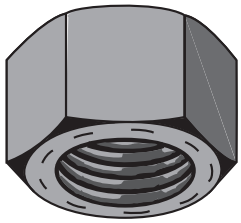
**See previous page for Bolt Head Specifications.**



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## Recommended for use with L•9® Hex Bolts

### STEEL Alloy
### L•9 HEX NUT

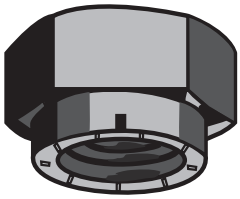


**Cadmium Plated and Waxed Yellow Dichromate Finish**

**Rockwell Hardness**
1/4"-5/8" Dia. C28-34
3/4"-1 " Dia. C32-38

| NOMINAL SIZE | COARSE THREAD (U.N.C.) SPAENAUR No. | COARSE THREAD (U.N.C.) THD. | FINE THREAD (U.N.F.) SPAENAUR No. | FINE THREAD (U.N.F.) THD. | WIDTH ACROSS FLAT MAX./MIN. | THICKNESS MAX./MIN. | PKG QTY. |
|---|---|---|---|---|---|---|---|
| 1/4 | **155-400** | 20 | **155-413** | 28 | .437/.428 | .264/.250 | 100 |
| 5/16 | **155-401** | 18 | **155-414** | 24 | .500/.489 | .309/.293 | 50 |
| 3/8 | **155-402** | 16 | **155-415** | 24 | .562/.551 | .377/.360 | 50 |
| 7/16 | **155-403** | 14 | **155-416** | 20 | .687/.675 | .445/.426 | 25 |
| 1/2 | **155-404** | 13 | **155-417** | 20 | .750/.736 | .511/.490 | 25 |
| 9/16 | **155-405** | 12 | **155-418** | 18 | .875/.861 | .575/.552 | 25 |
| 5/8 | **155-406** | 11 | **155-419** | 18 | .937/.922 | .655/.630 | 25 |
| 3/4 | **155-407** | 10 | **155-420** | 16 | 1.125/1.088 | .762/.733 | 20 |
| 7/8 | **155-408** | 9 | **155-421** | 14 | 1.312/1.269 | .882/.850 | 15 |
| 1 | **155-409** | 8 | **155-422** | 14 | 1.500/1.450 | 1.018/.982 | 10 |
| 1-1/8 | **155-410** | 7 | **155-423** | 12 | 1.687/1.631 | 1.176/1.136 | 10 |
| 1-1/4 | **155-411** | 7 | **155-424** | 12 | 1.875/1.812 | 1.272/1.228 | 10 |
| 1-1/2 | **155-412** | 6 | **155-425** | 12 | 2.250/2.175 | 1.526/1.474 | 10 |

### STEEL Alloy
### L•9 STOVER® LOCKNUT



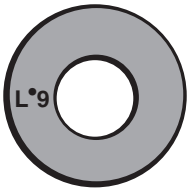
**Cadmium Plated and Waxed Yellow Dichromate Finish**

**Rockwell Hardness**
1/4"-5/8" Dia. C28-34
3/4"-1 " Dia. C32-38

| NOMINAL SIZE | COARSE THREAD (U.N.C.) SPAENAUR No. | COARSE THREAD (U.N.C.) THD. | FINE THREAD (U.N.F.) SPAENAUR No. | FINE THREAD (U.N.F.) THD. | WIDTH ACROSS FLAT MAX./MIN. | THICKNESS MAX./MIN. | PKG QTY. |
|---|---|---|---|---|---|---|---|
| 1/4 | **172-001** | 20 | | | .437/.428 | .301/.281 | 100 |
| 5/16 | **172-002** | 18 | **172-015** | 24 | .500/.489 | .336/.316 | 50 |
| 3/8 | | | **172-016** | 24 | .562/.551 | .400/.380 | 50 |
| 7/16 | **172-004** | 14 | **172-017** | 20 | .687/.675 | .449/.429 | 25 |
| 1/2 | **172-005** | 13 | **172-018** | 20 | .750/.736 | .516/.496 | 25 |
| 9/16 | **172-006** | 12 | **172-019** | 18 | .875/.861 | .580/.560 | 25 |
| 5/8 | **172-007** | 11 | | | .937/.922 | .660/.640 | 25 |
| 3/4 | **172-008** | 10 | **172-021** | 16 | 1.125/1.088 | .767/.747 | 20 |
| 7/8 | **172-009** | 9 | **172-022** | 14 | 1.312/1.269 | .887/.867 | 15 |
| 1 | **172-010** | 8 | **172-023** | 14 | 1.500/1.450 | 1.023/1.003 | 10 |
| 1-1/8 | **172-011** | 7 | **172-024** | 12 | 1.687/1.631 | 1.181/1.161 | 10 |
| 1-1/4 | **172-012** | 7 | **172-025** | 12 | 1.875/1.812 | 1.277/1.257 | 10 |
| 1-1/2 | **172-013** | 6 | **172-026** | 12 | 2.250/2.175 | 1.531/1.511 | 10 |

### C1050 - 1060 STEEL
### L•9 WASHERS

**Quenched and Tempered**




**Cadmium Plated Yellow Dichromate Finish**

**Rockwell Hardness**
15N 82-85

| SPAENAUR No. | BOLT SIZE | INSIDE DIAMETER MAX./MIN. | OUTSIDE DIAMETER MAX./MIN. | THICKNESS MAX./MIN. | PKG QTY. |
|---|---|---|---|---|---|
| **656-400** | 1/4 | .286/.276 | .640/.620 | .071/.056 | 100 |
| **656-401** | 5/16 | .349/.339 | .703/.681 | .071/.056 | 100 |
| **656-402** | 3/8 | .411/.401 | .827/.805 | .112/.090 | 100 |
| **656-403** | 7/16 | .474/.464 | .937/.915 | .112/.090 | 50 |
| **656-404** | 1/2 | .536/.526 | 1.092/1.055 | .112/.090 | 50 |
| **656-405** | 9/16 | .599/.589 | 1.186/1.149 | .112/.090 | 50 |
| **656-406** | 5/8 | .663/.649 | 1.342/1.305 | .174/.146 | 50 |
| **656-407** | 3/4 | .819/.805 | 1.499/1.462 | .174/.146 | 50 |
| **656-408** | 7/8 | .945/.931 | 1.780/1.743 | .174/.146 | 50 |
| **656-409** | 1 | 1.069/1.055 | 2.030/1.993 | .174/.146 | 25 |
| **656-410** | 1-1/8 | 1.195/1.181 | 2.030/1.993 | .174/.146 | 25 |
| **656-411** | 1-1/4 | 1.319/1.305 | 2.280/2.243 | .266/.234 | 25 |
| **656-412** | 1-1/2 | 1.572/1.552 | 2.780/2.743 | .266/.234 | 25 |





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B

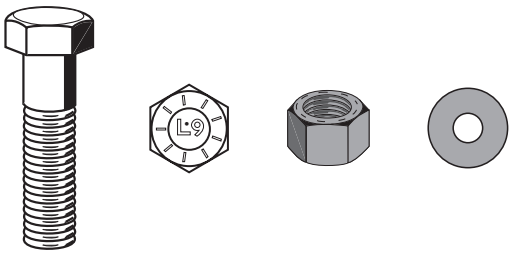
## L•9® Fastening System

**Zinc Plated**
**Yellow Dichromate Finish**

## 24 Sizes — 1,115 Pieces

Furnished in LARGE SIZE grey enamel drawer with hinged lid and catch.
Drawer will fit into Slide Racks shown on A3

Shipping Weight: **15.79 kg** (34.8 lbs.)






**ASSORTMENT / ASSORTIMENT 805-648**

## Coarse (UNC) Thread

| Name | Spaenaur No. | Thread Size | Length Under Head | Qty. | Page |
|---|---|---|---|---|---|
| Coarse Thread Hexagon Bolt | 329-002 | 1/4"-20 | 3/4" | 35 | B147 |
| | 329-003 | | 1" | | |
| | 329-005 | | 1-1/2" | | |
| | 329-007 | | 2" | | |
| | 329-012 | 5/16"-18 | 3/4" | | |
| | 329-013 | | 1" | | |
| | 329-015 | | 1-1/2" | | |
| | 329-017 | | 2" | | |
| | 329-024 | 3/8"-16 | 1" | 25 | |
| | 329-026 | | 1-1/2" | | |
| | 329-028 | | 2" | | |
| | 329-030 | | 2-1/2" | | |
| | 329-050 | 1/2"-13 | 1" | 15 | |
| | 329-052 | | 1-1/2" | 10 | |
| | 329-054 | | 2" | | |
| | 329-056 | | 2-1/2" | | |
| Hex Nut | 155-400 | 1/4"-20 | | 100 | B149 |
| | 155-401 | 5/16"-18 | | | |
| | 155-402 | 3/8"-16 | | | |
| | 155-404 | 1/2"-13 | | 45 | |

| Name | Spaenaur No. | Compatible Thread Size | Qty. | Page |
|---|---|---|---|---|
| Flat Washer | 656-400 | 1/4" | 100 | B149 |
| | 656-401 | 5/16" | | |
| | 656-402 | 3/8" | | |
| | 656-404 | 1/2" | 45 | |

**ASSORTMENT / ASSORTIMENT 805-649**

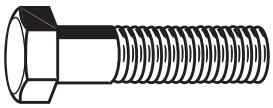
## Fine (UNF) Thread

| Name | Spaenaur No. | Thread Size | Length Under Head | Qty. | Page |
|---|---|---|---|---|---|
| Fine Thread Hexagon Bolt | 329-172 | 1/4"-28 | 3/4" | 35 | B148 |
| | 329-173 | | 1" | | |
| | 329-175 | | 1-1/2." | | |
| | 329-176 | | 2" | | |
| | 329-179 | 5/16"-24 | 3/4" | | |
| | 329-180 | | 1" | | |
| | 329-182 | | 1-1/2" | | |
| | 329-184 | | 2" | | |
| | 329-188 | 3/8"-24 | 1" | 25 | |
| | 329-190 | | 1-1/2" | | |
| | 329-192 | | 2" | | |
| | 329-194 | | 2-1/2" | | |
| | 329-207 | 1/2"-20 | 1" | 15 | |
| | 329-209 | | 1-1/2" | 10 | |
| | 329-211 | | 2" | | |
| | 329-213 | | 2-1/2" | | |
| Hex Nut | 155-413 | 1/4"-28 | | 100 | B149 |
| | 155-414 | 5/16"-24 | | | |
| | 155-415 | 3/8"-24 | | | |
| | 155-417 | 1/2"-20 | | 25 | |

| Name | Spaenaur No. | Compatible Bolt Size | Qty. | Page |
|---|---|---|---|---|
| Flat Washer | 656-400 | 1/4" | 100 | B149 |
| | 656-401 | 5/16" | | |
| | 656-402 | 3/8" | | |
| | 656-404 | 1/2" | 45 | |




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Head & Body Dimensions to ANSI/ASME B 18.2.1

# 18-8 STAINLESS STEEL

UNIFIED STANDARD CLASS 2A FIT
Rockwell Hardness Min. B70

◆ **343-067**
Full Thread

■ **343-029**
Full Thread

## COARSE THREAD (U.N.C.) (U.S.S.)

| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 | 11 | 10 | 9 | 8 |
| LG. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 1/2 | 343-C14-1K | CS-2013 | CS-2093 | | | | | | |
| 5/8 | CS-2003 | 343-C28-1M | 343-068 | | | | | | |
| 3/4 | 343-C05-1X | 343-C19-1P | CS-2022 | CS-2034 | 343-C23-1C | | | | |
| 1 | CS-2001 | CS-2015 | 343-C47-1C | 343-C02-1K | 343-C04-1M | 343-C35-1C | | | |
| 1-1/4 | CS-2005 | CS-2016 | 343-C27-1W | | 343-C08-1Y | CS-2054 | | | |
| 1-1/2 | 343-C17-1X | CS-2017 | 343-C03-2W | CS-2036 | 343-C06-1A | 343-C36-1N | 343-017 | | |
| 1-3/4 | 343-C10-1Y | CS-2018 | 343-C42-1M | | CS-2044 | CS-2056 | | | |
| 2 | CS-2008 | 343-C18-1A | 343-C46-1Y | 343-C50-1N | ■343-C01-2T | CS-2057 | CS-2063 | | |
| 2-1/4 | 343-C29-1X | 343-C44-1A | 343-C12-1N | | 343-005 | | | | |
| 2-1/2 | CS-2010 | 343-C48-1N | ◆343-C09-1C | CS-2038 | CS-2046 | 343-C20-1A | 343-C16-1M | | |
| 2-3/4 | CS-2011 | 343-011 | 343-C34-1Y | | CS-2047 | CS-2059 | 343-001 | | |
| 3 | CS-2012 | 343-C31-1X | CS-2031 | CS-2039 | 343-C21-1P | CS-2000 | 343-C25-1T | | 343-036 |
| 3-1/2 | 343-004 | 343-013 | 343-C30-1M | | CS-2049 | CS-2060 | 343-C49-1T | | |
| 4 | 343-006 | 343-C45-1P | CS-2033 | 343-015 | CS-2050 | 343-C38-1K | CS-2065 | | 343-032 |
| 4-1/2 | CS-2092 | | 343-C33-1P | | CS-2051 | CS-2062 | | | |
| 5 | 343-C39-1W | 343-009 | | | 343-C40-1K | 343-C37-1T | | | |
| 5-1/2 | | | | | 343-034 | | 343-010 | | |
| 6 | | 343-031 | 343-C22-1Y | | 343-025 | | | | 343-008 |
| 6-1/2 | | | | | | 343-014 | | | |
| 7 | | | | | 343-021 | | | | |
| 8 | | | | | | | 343-012 | | |

## COARSE THREAD (U.N.C.) (U.S.S.)

# 316 STAINLESS STEEL

UNIFIED STANDARD CLASS 2A FIT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1/2 | 346-D26-1M | | | | | | | | |
| 5/8 | 346-D24-1K | 346-001 | | | | | | | |
| 3/4 | 346-D11-1T | CS-2314 | CS-2319 | | | | | | |
| 7/8 | 346-D07-1C | | | | | | | | |
| 1 | CS-2304 | CS-2315 | CS-2320 | 346-D08-1N | CS-2326 | | | | |
| 1-1/4 | CS-2309 | | CS-2344 | 346-061 | 346-D06-1Y | | | | |
| 1-1/2 | CS-2310 | CS-2316 | CS-2321 | CS-2346 | 346-D04-2A | 346-060 | 346-D21-1C | | |
| 1-3/4 | 346-D25-1W | | CS-2341 | | 346-D01-2W | 343-071 | | | |
| 2 | 346-D12-1K | CS-2317 | 346-D16-1A | CS-2325 | CS-2328 | CS-2332 | CS-2334 | | |
| 2-1/4 | 346-058 | | 346-052 | | 346-D03-2X | | | | |
| 2-1/2 | 346-059 | 346-D17-1P | 346-D05-2P | CS-2347 | 346-D19-1C | CS-2302 | CS-2335 | | |
| 2-3/4 | | | | | | | | | 343-067 |
| 3 | 346-D23-1T | CS-2318 | CS-2323 | 346-057 | 346-D18-1Y | CS-2303 | CS-2336 | 346-D14-1M | |
| 3-1/4 | | | 346-053 | | | | | | |
| 3-1/2 | 346-D10-1N | | 346-D02-2M | | 346-D20-1Y | CS-2333 | 346-D13-2W | | |
| 4 | | | 346-D22-1N | | 346-002 | | CS-2338 | CS-2343 | |
| 4-1/2 | | | 346-D09-1T | | 346-D15-1X | | 346-050 | 346-066 | CS-2340 |
| 5 | | | 346-051 | | 346-055 | | | | |

## FINE THREAD (U.N.F.) (S.A.E.)

# 18-8 STAINLESS STEEL

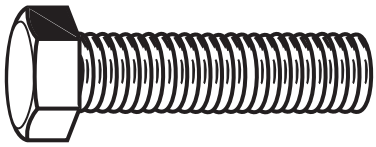
UNIFIED STANDARD CLASS 2A FIT

| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|---|
| THD. | 28 | 24 | 24 | 20 | 20 | 18 | 16 |
| 1/2 | 343-C43-1X | | | | | | |
| 3/4 | CS-2067 | 343-C51-1T | CS-2076 | | | | |
| 1 | CS-2068 | 343-C11-1C | CS-2077 | | CS-2082 | | |
| 1-1/4 | 343-033 | 343-002 | CS-2078 | | CS-2089 | | |
| 1-1/2 | 343-C24-1N | CS-2073 | 343-C15-1W | 343-019 | 343-C07-1P | CS-2087 | |
| 1-3/4 | | | | | CS-2090 | | |
| 2 | 343-C26-1K | 343-C32-1A | CS-2080 | | CS-2084 | CS-2088 | 343-018 |
| 2-1/4 | | 343-030 | | | | | |
| 2-1/2 | 343-026 | CS-2075 | CS-2081 | | 343-C41-1W | | |
| 3 | 343-027 | 343-028 | 343-007 | | 343-C13-1T | | |
| 4 | | | 343-020 | | | | |

**Contact Sales Desk For Package Quantities**

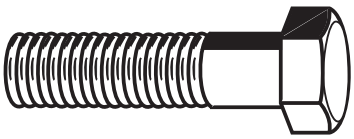


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# ALUMINUM

## INCH SIZES



All Aluminum Cap Screws listed below are Fully Threaded except as noted.

Head and Body Dimensions to ANSI/ASME B 18.2.1

B

## COARSE THREAD (U.N.C. - U.S.S.)

**UNIFIED STANDARD CLASS 2A FIT**
**Rockwell Hardness Min. B40**

| DIA. | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 13 | 11 | 10 |
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 3/4 | CS-3001 | | 349-008 | | | |
| 1 | 349-A06-1N | 349-A07-1T | 349-A09-1W | 349-A02-1A | | |
| 1-1/4 | | 349-A10-1K | | 349-A03-1P | | |
| 1-1/2 | | 349-A01-1X | 349-009 | 349-022 | 349-A08-1K | 349-016 |
| 1-3/4 | 349-010 | | | 349-026 | | |
| 2 | 349-012 | 349-A11-1W | CS-3002 | 349-017 | 349-A05-1C | |
| 2-1/2 | | 349-020 | CS-3000 | ◆349-024 | | |
| 3 | ◆349-013 | | 349-011 | 349-A04-1Y | | |
| 4 | | | 349-A12-1M | | | |
| 4-1/2 | | | | | 349-029 | |
| | PKG QTY. 50 | | | | PKG QTY. 5 | |

◆Partially Threaded

# BRASS HEXAGON Cap Screws

**INCH SIZES**

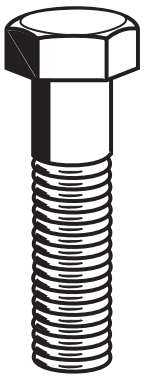
**Head & Body Dimensions to ANSI/ASME B 18.2.1**

**Partially Threaded**

## COARSE THREAD (U.N.C.)

**Rockwell Hardness Min. B55**

| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 |
|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 | 11 |
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 1/2 | 334-027 | 334-033 | 334-040 | | | |
| 5/8 | | 334-034 | | | | |
| 3/4 | 334-A05-1Y | 334-035 | 334-041 | | 334-A04-1P | |
| 1 | 334-A09-1K | 334-A07-1N | 334-042 | 334-007 | 334-A03-1A | |
| 1-1/4 | 334-021 | 334-036 | 334-A01-1M | | 334-A06-1C | 334-011 (Non-Stock) |
| 1-1/2 | 334-A02-1X | 334-024 | 334-025 | | 334-026 | |
| 1-3/4 | 334-030 | 334-037 | 334-004 | | 334-009 | 334-012 |
| 2 | 334-019 | 334-038 | 334-005 | | 334-A08-1T | |
| 2-1/4 | 334-A11-1K | | 334-A10-1T | | 334-049 | |
| 2-1/2 | 334-032 | 334-002 | 334-006 | | 334-050 | |
| 3 | 334-001 | 334-039 | 334-045 | | | |
| 3-1/2 | | | 334-015 | | 334-010 | |
| | PKG QTY. 100 | PKG QTY. 50 | | | | PKG QTY. 25 |

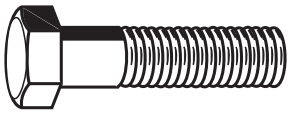




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# SILICON BRONZE

**Head & Body Dimensions to ANSI/ASME B 18.2.1**



**Coarse and Fine Thread**
**Partially Threaded Unless Otherwise Noted**

*FOR SILICON BRONZE HEX NUTS, SEE PAGE C6.*
*FOR SILICON BRONZE FLAT WASHERS, SEE PAGE D9.*
*FOR SILICON BRONZE LOCK-WASHERS, SEE PAGE D23.*

B

## COARSE THREAD (U.N.C. - U.S.S.)

**UNIFIED STANDARD CLASS 2A FIT**
**Rockwell Hardness Min. B70**

| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 | 11 | 10 |
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 3/8 | CS-500 | CS-516 | | | | | |
| 1/2 | ▲337-K40-1K | ▲337-K15-1W | ▲337-K18-1A | | | | |
| 5/8 | CS-502 | | ▲337-K36-1N | | CS-564 | | |
| 3/4 | CS-503 | ▲337-K16-1M | ▲337-K44-1A | | CS-565 | | |
| 7/8 | CS-504 | CS-520 | CS-537 | | CS-566 | | |
| 1 | ▲337-K38-1K | ▲337-K28-1M | ▲337-K25-1T | CS-556 | ▲337-K24-2N | CS-584 | |
| 1-1/8 | | CS-522 | CS-539 | | | | |
| 1-1/4 | ▲337-K14-1K | ▲337-K29-1X | ▲337-K27-1W | | CS-568 | ▲337-K35-1C | CS-600 |
| 1-1/2 | ▲337-K23-1C | ▲337-K17-2X | ▲337-K08-2Y | CS-558 | ▲337-K09-1C | ▲337-K32-1A | CS-601 |
| 1-3/4 | CS-508 | CS-526 | ▲337-K39-1W | ▲337-K10-1Y | ▲337-K21-1P | ▲337-K03-1W | |
| 2 | ▲337-K33-1P | ▲337-K30-1M | ▲337-K06-1A | CS-560 | ▲337-K37-1T | ▲337-K42-1M | CS-603 |
| 2-1/4 | CS-510 | ▲337-K43-1X | ▲337-K04-1M | | ▲337-K13-1T | CS-589 | CS-604 |
| 2-1/2 | ▲337-K20-2P | ▲337-K31-1X | ▲337-K26-1K | ▲337-K34-1Y | CS-573 | CS-590 | CS-605 |
| 2-3/4 | CS-512 | CS-530 | ▲337-K41-1W | | | CS-591 | |
| 3 | CS-513 | CS-531 | ▲337-K11-1C | CS-563 | ▲337-K05-1X | CS-592 | CS-607 |
| 3-1/4 | | | CS-549 | | CS-576 | CS-593 | CS-608 |
| 3-1/2 | CS-514 | CS-532 | ▲337-K22-1Y | | CS-577 | CS-594 | CS-609 |
| 3-3/4 | | | | | ▲337-K02-1K | | |
| 4 | CS-515 | CS-533 | CS-552 | | CS-579 | CS-595 | CS-610 |
| 4-1/2 | | | ▲337-K01-1T | | CS-580 | | CS-611 |
| 5 | | | ▲337-K07-1P | | CS-581 | | |
| 5-1/2 | | | | | CS-582 | CS-598 | CS-613 |
| 6 | | | CS-555 | | CS-583 | CS-599 | CS-614 |

▲ Fully Threaded

## FINE THREAD (U.N.F. - S.A.E.)

**UNIFIED STANDARD CLASS 2A FIT**

| DIA. | 1/4 | 5/16 | 3/8 |
|---|---|---|---|
| THD. | 28 | 24 | 24 |
| 1 | | CS-631 | CS-636 |
| 1-1/4 | | | ▲337-K19-1A |
| 1-1/2 | CS-629 | CS-633 | CS-638 |
| 1-3/4 | | CS-634 | CS-639 |
| 2 | | | CS-640 |

▲ Fully Threaded

**Contact Sales Desk For Package Quantities**

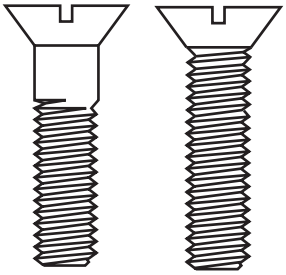


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B

# STEEL FLAT HEAD CAP SCREWS

## Slotted



Orders will be supplied Full or Partial Thread at our option.

**Coarse Thread (UNC)**
**LOW CARBON STEEL**
**BRIGHT ZINC PLATED**

## (No Nuts)

**PKG QTY. 50**

| DIA. | 1/2" |
|---|---|
| THD. | 13 |
| **Overall Length** | **Spaenaur No.** |
| 1 | **MS-373** |
| 1-1/4 | **MS-417** |
| 1-1/2 | **MS-1065** |
| 1-3/4 | **380-F59-1T** |
| 2 | **MS-1067** |

**ASSORTMENT / ASSORTIMENT 805-549**

### HEXAGON HEAD CAP SCREWS

**Coarse (UNC) Thread**
**18-8 Stainless Steel**
**24 Sizes — 192 Pieces**

Furnished in REGULAR SIZE grey enamel drawer with hinged lid and catch. Drawer will fit into Slide Racks shown on A2
Shipping Weight: **5-3/4 kg** (13 lbs.)

**ASSORTMENT / ASSORTIMENT 805-608**

### HEAD CAP SCREWS, NUTS, SPLIT LOCKS & WASHERS

**Coarse (UNC) Thread**
**18-8 Stainless Steel**
**24 Sizes — 1,430 Pieces**

Furnished in LARGE SIZE grey enamel drawer with hinged lid and catch. Drawer will fit into Slide Racks shown on A3
Shipping Weight: **15-1/2 kg** (34 lbs.)



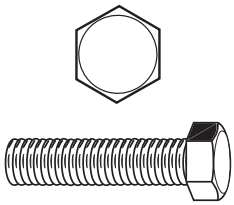
**For the complete assortment contents turn to A48**

**ASSORTMENT / ASSORTIMENT 805-494**

### NYLON HEXAGON CAP SCREWS

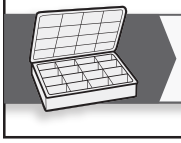
**INCH SIZES COARSE THREAD**

**24 SIZES - 180 PIECES**



REGULAR SIZE grey enamelled drawer fits the Slide Racks shown on page A2.
Shipping Weight: **2.38 kg** (5.25 lbs.)





**For the complete assortment contents turn to A49**

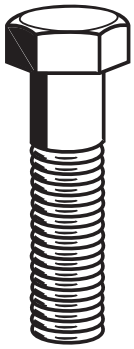


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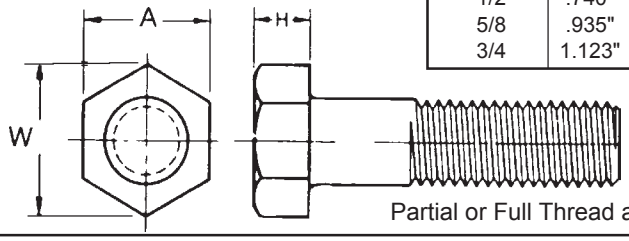
# NYLON

## HEXAGON
## Cap Screws

Stocked in
Nylon Zytel 101 UL 94V2



**Inch Sizes**




Partial or Full Thread at our option.

| THREAD SIZE | Head Dimensions A | W | H |
|---|---|---|---|
| 1/4 | .425" | .500" | .175" |
| 5/16 | .485" | .555" | .215" |
| 3/8 | .565" | .625" | .250" |
| 1/2 | .740" | .850" | .320" |
| 5/8 | .935" | 1.100" | .390" |
| 3/4 | 1.123" | 1.290" | .520" |

B

## COARSE THREAD (U.N.C.) (U.S.S.)

UNIFIED STANDARD CLASS 2A FIT

| DIA. | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 13 | 11 | 10 |
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 1/2" | **352-008** | ***352-016** | | | | |
| 3/4" | **352-006** | **352-002** | **352-022** | | | |
| 1" | | **352-004** | **352-005** | **352-029** | | |
| 1-1/4" | **352-011** | **352-017** | **352-023** | | | |
| 1-1/2" | **352-012** | **352-018** | **352-024** | **352-030** | **352-033** | |
| 2" | **352-013** | **352-019** | **352-025** | **352-007** | | |
| 2-1/2" | **352-014** | **352-020** | **352-026** | **352-001** | **352-034** | |
| 3" | **352-015** | **352-021** | **352-027** | **352-031** | **352-035** | |
| 4" | | | **352-028** | **352-032** | | **352-038** |
| 5" | | | **352-036** | | | |

***352-037**
5/16-24 UNF
x 1/2"

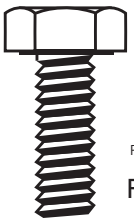
**Contact Sales Desk For Package Quantities**

For Metric Sizes see Page B175.
For Nylon Nuts see pages C8 and C12.
For Nylon Washers see Section D.



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B



**DIN 933**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded

# Property Class 8.8 – Plain Finish

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

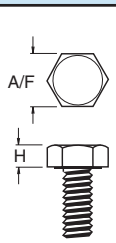
**Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

| DIA. in mm | M2.5 | M3 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 6 | 330-548 | 330-355 | 330-359 | 330-366 | 330-369 | | | PKG QTY. 50 | | PKG QTY. 25 |
| 8 | | 330-008 | 330-020 | 330-030 | 330-043 | | 330-383 | | | |
| 10 | | 330-009 | 330-021 | 330-031 | 330-044 | 330-061 | 330-070 | 330-390 | | |
| 12 | | 330-010 | 330-022 | 330-032 | 330-045 | 330-379 | 330-071 | 330-391 | 330-397 | |
| 14 | | 330-239 | | | 330-H20-1Y | | | | | |
| 16 | | 330-238 | 330-023 | 330-033 | 330-046 | 330-062 | 330-234 | 330-092 | 330-116 | 330-404 |
| 18 | | 330-356 | 330-361 | 330-034 | 330-047 | | 330-072 | 330-093 | 330-117 | |
| 20 | | 330-011 | 330-024 | 330-035 | 330-048 | 330-063 | 330-073 | 330-094 | 330-118 | 330-140 |
| 22 | | | 330-362 | 330-036 | 330-049 | | 330-074 | 330-095 | 330-119 | |
| 25 | | 330-357 | 330-342 | 330-037 | 330-050 | 330-064 | 330-075 | 330-096 | 330-120 | 330-141 |
| 28 | | | | | | | 330-076 | | | |
| 30 | | 330-358 | 330-363 | 330-038 | 330-052 | 330-065 | 330-077 | 330-098 | 330-122 | 330-142 |
| 35 | | | | 330-039 | 330-053 | 330-381 | 330-078 | 330-099 | 330-H02-1M | 330-H05-1P |
| 40 | | | 330-364 | 330-040 | 330-054 | 330-066 | 330-079 | 330-100 | 330-124 | 330-144 |
| 45 | | | | | 330-055 | 330-380 | 330-080 | ▲330-101 | 330-H24-1K | 330-145 |
| 50 | | | 330-365 | 330-367 | 330-H07-1C | 330-067 | 330-081 | 330-102 | 330-126 | 330-146 |
| 55 | | | | | 330-371 | | 330-082 | 330-103 | 330-127 | 330-147 |
| 60 | | | | 330-368 | 330-372 | | 330-384 | 330-104 | 330-128 | 330-148 |
| 65 | | | | | 330-373 | | 330-121 | 330-153 | 330-398 | |
| 70 | | | | | 330-374 | | 330-385 | 330-493 | 330-399 | 330-406 |
| 75 | | | | | 330-375 | | | 330-392 | 330-492 | |
| 80 | PKG QTY. 100 | | | | 330-376 | | 330-386 | 330-393 | 330-400 | 330-407 |
| 90 | | | | | 330-377 | | 330-387 | | | 330-788 |
| 100 | | | | | 330-378 | | 330-388 | 330-394 | 330-401 | 330-408 |
| 110 | | | | | | | | 330-395 | | |
| 120 | | | | | | | 330-389 | 330-247 | 330-402 | 330-409 |
| 130 | | | | | | | | | 330-208 | |
| 150 | | | | | | | | 330-396 | 330-403 | |
| 180 | | | | PKG QTY. 1 | | | | | 330-209 | |

▲ **330-775** Property Class 5.6

Continued on next page…




## HEAD DIMENSION CHART

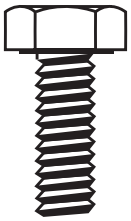
**DIMENSIONS IN MILLIMETRES**

| DIA. | A/F | H | DIA. | A/F | H | DIA. | A/F | H | DIA. | A/F | H |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M2.5 | 5 | 1.7 | M6 | 10 | 4 | M14 | 21 | 8.8 | M24 | 36 | 15 |
| M3 | 5.5 | 2 | M7 | 11 | 4.8 | M16 | 24 | 10 | M27 | 41 | 17 |
| M3.5 | 6 | 2.4 | M8 | 13 | 5.3 | M18 | 27 | 11.5 | M30 | 46 | 18.7 |
| M4 | 7 | 2.8 | M10 | 16 | 6.4 | M20 | 30 | 12.7 | M33 | 50 | 21 |
| M5 | 8 | 3.5 | M12 | 18 | 7.5 | M22 | 34 | 14 | M36 | 55 | 22.5 |



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…Continued from previous page.



# Property Class 8.8 – Plain Finish

**DIN 933**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

B

| DIA. in mm | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | Larger Diameters |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 | 3.50 | 4.00 | |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 16 | 330-410 | | | | | | | | | |
| 20 | 330-160 | | | | | | | | | 330-487 |
| 25 | 330-161 | | 330-426 | | | | | | | M42 x 4.50 |
| 30 | 330-162 | 330-419 | 330-427 | | | | | | | x 100 mm |
| 35 | 330-163 | 330-420 | 330-428 | | 330-444 | | | | | |
| 40 | 330-164 | 330-180 | 330-193 | 330-438 | 330-445 | | 330-463 | | | |
| 45 | 330-165 | 330-181 | 330-194 | 330-439 | 330-446 | | | | | |
| 50 | 330-166 | 330-182 | 330-H30-1A | 330-210 | 330-216 | | 330-464 | | | |
| 55 | 330-167 | 330-183 | 330-196 | | 330-447 | | | | | |
| 60 | 330-168 | 330-184 | 330-197 | 330-211 | 330-217 | 330-456 | 330-465 | 330-472 | 330-479 | |
| 65 | | | 330-429 | 330-440 | 330-448 | | | 330-473 | | |
| 70 | 330-411 | 330-421 | 330-430 | 330-441 | 330-218 | 330-457 | 330-466 | 330-474 | 330-480 | |
| 75 | 330-768 | | 330-431 | | 330-449 | | | 330-771 | | |
| 80 | 330-249 | 330-422 | 330-432 | 330-442 | 330-450 | 330-458 | 330-467 | 330-475 | 330-481 | |
| 85 | | | | | 330-770 | | | | | |
| 90 | 330-412 | | 330-433 | | 330-451 | 330-459 | 330-H27-1X | 330-476 | 330-482 | |
| 100 | 330-413 | 330-423 | 330-434 | 330-443 | 330-452 | 330-460 | 330-469 | 330-477 | 330-483 | |
| 110 | 330-772 | | | | | | | | 330-484 | |
| 120 | 330-414 | 330-424 | 330-435 | | 330-453 | 330-461 | 330-470 | 330-478 | 330-485 | |
| 130 | 330-415 | | 330-248 | | | 330-462 | | | | |
| 150 | 330-416 | | 330-436 | | 330-454 | | 330-471 | | 330-486 | |
| 180 | 330-417 | | | | 330-776 | | | | | |
| 200 | 330-418 | | 330-437 | | 330-455 | | | | | |

**Contact Sales Desk For Package Quantities**

**ASSORTMENT / ASSORTIMENT 805-612**

## METRIC
## HEXAGON CAP SCREWS, NUTS AND WASHERS
### Property Class 8.8, Zinc Plated
### REGULAR COARSE METRIC THREAD
### 32 SIZES - 1840 PIECES

**DIN 933**

Furnished in a LARGE SIZE grey enamelled steel drawer, with hinged lid and scooped bins. Drawer will fit Slide Racks shown on page A3.

Shipping Weight:
**8.85 kg** (19.5 lbs.)





**For the complete assortment contents turn to A49**

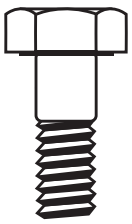


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B



**DIN 931**
Partially Threaded

# Property Class 8.8 – Plain Finish

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

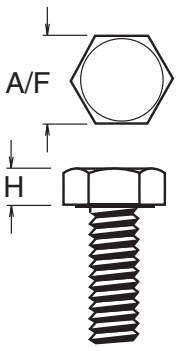
**Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

| DIA. in mm | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 |
|---|---|---|---|---|---|---|---|---|
| Pitch | 0.70 | 0.80 | 1.00 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 25 | 330-025 | | | | | | | |
| 30 | 330-026 | 330-591 | 330-598 | 330-605 | | | | |
| 35 | 330-027 | 330-592 | 330-599 | 330-606 | 330-245 | | | |
| 40 | 330-028 | 330-593 | 330-600 | 330-337 | 330-246 | 330-621 | | |
| 45 | 330-029 | 330-041 | 330-601 | 330-607 | 330-338 | 330-622 | 330-634 | |
| 50 | 330-590 | 330-042 | 330-602 | 330-608 | 330-339 | 330-623 | 330-635 | 330-645 |
| 55 | | 330-594 | 330-057 | 330-609 | 330-612 | 330-624 | 330-636 | 330-646 |
| 60 | | 330-595 | 330-H21-1C | 330-068 | 330-083 | 330-340 | 330-341 | 330-647 |
| 65 | | 330-596 | 330-059 | | 330-084 | 330-105 | 330-129 | 330-149 |
| 70 | | 330-343 | 330-060 | 330-069 | 330-085 | 330-106 | 330-130 | 330-150 |
| 75 | | | 330-237 | | 330-086 | 330-107 | 330-131 | 330-151 |
| 80 | | 330-597 | 330-241 | | 330-087 | 330-108 | 330-132 | 330-152 |
| 85 | | | | | 330-088 | 330-109 | 330-133 | 330-648 |
| 90 | | | 330-242 | | 330-089 | 330-110 | 330-134 | 330-154 |
| 100 | | | 330-243 | | 330-090 | 330-111 | 330-135 | 330-155 |
| 110 | | | 330-603 | | 330-613 | 330-625 | 330-637 | 330-649 |
| 120 | | | 330-604 | | 330-091 | 330-112 | 330-136 | 330-156 |
| 130 | | | | | 330-614 | 330-626 | 330-638 | 330-650 |
| 140 | | | | | 330-615 | 330-113 | 330-137 | 330-157 |
| 150 | | | | | 330-616 | 330-627 | 330-639 | 330-651 |
| 160 | | | | | 330-617 | 330-114 | 330-138 | 330-158 |
| 180 | | | | | 330-618 | 330-628 | 330-336 | 330-652 |
| 200 | | | | | 330-619 | 330-115 | 330-139 | 330-159 |
| 220 | | | | | | 330-629 | 330-640 | 330-653 |
| 240 | | | | | | | 330-641 | 330-654 |
| 260 | | | | | | 330-631 | 330-642 | 330-655 |
| 280 | | | | | | 330-632 | 330-643 | 330-656 |
| 300 | | | | | | | 330-644 | 330-657 |

Continues on Next Page

**Contact Sales Desk For Package Quantities**




## HEAD DIMENSION CHART

DIMENSIONS IN MILLIMETRES

| DIA. | A/F | H | DIA. | A/F | H |
|---|---|---|---|---|---|
| M2.5 | 5 | 1.7 | M14 | 21 | 8.8 |
| M3 | 5.5 | 2 | M16 | 24 | 10 |
| M3.5 | 6 | 2.4 | M18 | 27 | 11.5 |
| M4 | 7 | 2.8 | M20 | 30 | 12.5 |
| M5 | 8 | 3.5 | M22 | 34 | 14 |
| M6 | 10 | 4 | M24 | 36 | 15 |
| M7 | 11 | 4.8 | M27 | 41 | 17 |
| M8 | 13 | 5.3 | M30 | 46 | 18.7 |
| M10 | 16 | 6.4 | M33 | 50 | 21 |
| M12 | 18 | 7.5 | M36 | 55 | 22.5 |




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**DIN 931**
Partially Threaded

# Property Class 8.8 – Plain Finish

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

**Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

B

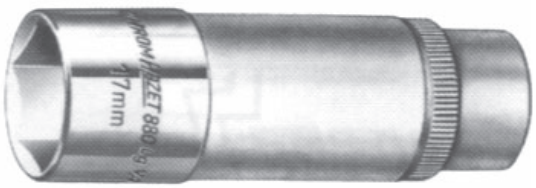
Continued from Previous Page

| DIA. in mm | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | Larger Diameters |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 | 3.50 | 4.00 | |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 55 | 330-658 | | | | | | | | | |
| 60 | 330-659 | | | | | | | | | |
| 65 | 330-169 | 330-344 | 330-H29-1P | | | | | | | |
| 70 | 330-170 | 330-185 | 330-199 | 330-212 | | | | | | |
| 75 | 330-171 | 330-669 | 330-200 | 330-686 | 330-699 | | | | | |
| 80 | 330-172 | 330-186 | | 330-213 | 330-219 | 330-224 | | | | |
| 85 | | | | | 330-700 | | | | | 330-764 |
| 90 | 330-174 | 330-187 | 330-202 | 330-235 | 330-220 | 330-225 | | | | M42 x 4.50 |
| 100 | 330-175 | 330-188 | 330-203 | 330-214 | 330-221 | 330-712 | 330-230 | 330-734 | | x 120 mm |
| 110 | 330-660 | 330-670 | 330-679 | 330-687 | 330-701 | 330-713 | 330-723 | 330-735 | 330-748 | |
| 120 | 330-176 | 330-189 | 330-204 | 330-688 | 330-702 | 330-226 | 330-724 | 330-736 | 330-749 | |
| 130 | 330-661 | 330-671 | 330-680 | 330-689 | 330-703 | 330-714 | 330-725 | 330-737 | 330-750 | |
| 140 | 330-177 | 330-190 | 330-205 | 330-215 | 330-222 | 330-227 | 330-H25-1W | 330-738 | 330-751 | |
| 150 | 330-662 | 330-672 | 330-236 | 330-244 | 330-704 | 330-715 | 330-726 | 330-739 | 330-752 | |
| 160 | 330-178 | 330-191 | | 330-690 | 330-705 | 330-716 | 330-727 | 330-740 | 330-753 | |
| 180 | 330-663 | 330-673 | 330-681 | 330-691 | 330-706 | 330-717 | 330-728 | 330-741 | 330-754 | |
| 200 | 330-179 | 330-192 | 330-207 | 330-692 | 330-223 | 330-228 | 330-232 | 330-742 | 330-755 | 330-766 |
| 220 | 330-664 | 330-674 | 330-240 | 330-693 | 330-707 | 330-718 | 330-729 | 330-743 | 330-756 | M48 x 5.00 |
| 240 | 330-665 | 330-675 | 330-682 | 330-694 | 330-708 | 330-719 | 330-730 | 330-744 | 330-757 | x 160 mm |
| 260 | 330-666 | 330-676 | 330-683 | 330-695 | 330-709 | 330-720 | 330-731 | 330-745 | 330-758 | |
| 280 | 330-667 | 330-677 | 330-684 | 330-696 | 330-710 | 330-721 | 330-732 | 330-746 | 330-759 | |
| 300 | 330-668 | 330-678 | 330-685 | 330-697 | 330-711 | 330-722 | 330-733 | 330-747 | 330-760 | |
| 320 | | | | | | | 330-620 | | 330-761 | |
| 360 | | | | | | | | | 330-762 | |

**Contact Sales Desk For Package Quantities**

For Metric 6 Point Sockets see Page N20



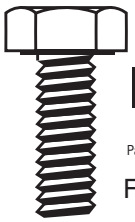



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B



**DIN 933**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded

# Property Class 8.8 – Zinc Plated

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

| DIA. in mm | M3 | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 |
|---|---|---|---|---|---|---|---|---|---|
| Pitch | 00.50 | 0.70 | 0.80 | 1.00 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 6 | 330-355ZP | 330-359ZP | | | | | | | |
| 8 | 330-008ZP | 330-020ZP | 330-030ZP | 330-043ZP | | | | | |
| 10 | 330-009ZP | 330-021ZP | 330-031ZP | 330-044ZP | | 330-070ZP | | | |
| 12 | 330-010ZP | 330-H23-1T | 330-032ZP | 330-045ZP | | 330-071ZP | 330-391ZP | 330-397ZP | |
| 14 | 330-239ZP | | | 330-370ZP | | | | | |
| 16 | 330-238ZP | 330-023ZP | 330-033ZP | 330-046ZP | 330-062ZP | 330-H38-1M | 330-092ZP | 330-116ZP | |
| 18 | | | 330-034ZP | 330-047ZP | | 330-072ZP | 330-093ZP | 330-117ZP | |
| 20 | 330-011ZP | 330-H32-1Y | 330-035ZP | 330-048ZP | 330-063ZP | 330-H09-1T | 330-H33-1C | 330-118ZP | 330-140ZP |
| 22 | | | 330-036ZP | 330-049ZP | | 330-074ZP | 330-095ZP | 330-119ZP | |
| 25 | | 330-342ZP | 330-037ZP | 330-050ZP | 330-H36-1K | 330-075ZP | 330-096ZP | 330-120ZP | 330-141ZP |
| 28 | | | | | | 330-076ZP | | | |
| 30 | 330-358ZP | | 330-038ZP | 330-052ZP | 330-065ZP | 330-077ZP | 330-098ZP | 330-122ZP | 330-142ZP |
| 35 | | | 330-039ZP | 330-053ZP | | 330-078ZP | 330-099ZP | 330-123ZP | 330-143ZP |
| 40 | | 330-364ZP | 330-040ZP | 330-054ZP | 330-066ZP | 330-079ZP | 330-100ZP | 330-124ZP | 330-144ZP |
| 45 | | | | 330-055ZP | | 330-080ZP | 330-101ZP | 330-125ZP | 330-145ZP |
| 50 | | 330-365ZP | | 330-056ZP | 330-067ZP | 330-081ZP | 330-102ZP | 330-126ZP | 330-146ZP |
| 55 | | | | | | 330-082ZP | 330-103ZP | 330-127ZP | 330-147ZP |
| 60 | | | | | | | 330-104ZP | 330-128ZP | 330-148ZP |
| 65 | | | | | | | | 330-398ZP | |
| 100 | | | | | | | 330-394ZP | | |
| 120 | | | | | | | 330-247ZP | 330-402ZP | |
| | PKG QTY. 100 | | | | PKG QTY. 50 | | | | PKG QTY. 25 |

| DIA. in mm | M16 | M18 | M20 | M22 | M24 | M30 | M36 |
|---|---|---|---|---|---|---|---|
| Pitch | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.50 | 4.00 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 20 | 330-160ZP | | | | | | |
| 25 | 330-161ZP | | | | | | |
| 30 | 330-162ZP | | | | | | |
| 35 | 330-163ZP | 330-420ZP | 330-428ZP | | | | |
| 40 | 330-164ZP | 330-180ZP | 330-193ZP | | | | |
| 45 | 330-165ZP | 330-181ZP | 330-194ZP | | 330-446ZP | | |
| 50 | 330-166ZP | 330-182ZP | 330-195ZP | 330-210ZP | 330-216ZP | | |
| 55 | 330-167ZP | 330-183ZP | 330-196ZP | | | | |
| 60 | 330-168ZP | 330-184ZP | 330-197ZP | 330-211ZP | 330-217ZP | | |
| 70 | | | | | 330-218ZP | 330-466ZP | |
| 80 | 330-249ZP | | | | | 330-467ZP | |
| 100 | | | | | | | 330-483ZP |
| 110 | | | | | | | 330-484ZP |
| 130 | | | 330-248ZP | | | | |
| | PKG QTY. 25 | | | PKG QTY. 10 | | PKG QTY. 1 | |

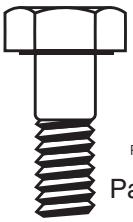
**Diameters M2.6 and M3.5 are furnished only in Property Class 5.8**
(Comparable to SAE Grade 2)

**PKG QTY. 100**

| DIA. in mm | M3.5 |
|---|---|
| Pitch | 0.60 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW |
| 12 | 330-790ZP |



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**DIN 931**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Partially Threaded

# Property Class 8.8 – Zinc Plated

## Regular COARSE Metric Thread

to ISO 965-1

**Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

B

| DIA. in mm | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 |
|---|---|---|---|---|---|---|---|---|
| Pitch | 0.70 | 0.80 | 1.00 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 25 | 330-025ZP | | | | | | | |
| 30 | 330-026ZP | | | | | | | |
| 35 | 330-027ZP | 330-592ZP | 330-599ZP | | 330-245ZP | | | |
| 40 | 330-028ZP | 330-593ZP | | 330-H14-1M | 330-246ZP | 330-621ZP | | |
| 45 | 330-029ZP | 330-041ZP | 330-601ZP | 330-607ZP | 330-338ZP | 330-622ZP | 330-634ZP | |
| 50 | | 330-042ZP | | 330-608ZP | 330-339ZP | 330-623ZP | 330-635ZP | 330-645ZP |
| 55 | | 330-594ZP | 330-057ZP | | 330-612ZP | 330-624ZP | 330-636ZP | 330-646ZP |
| 60 | | | 330-058ZP | 330-H28-1A | 330-083ZP | 330-340ZP | 330-341ZP | 330-647ZP |
| 65 | | | 330-059ZP | | 330-084ZP | 330-105ZP | 330-129ZP | 330-149ZP |
| 70 | | 330-343ZP | 330-060ZP | 330-069ZP | 330-085ZP | 330-106ZP | 330-130ZP | 330-150ZP |
| 75 | | | 330-237ZP | | 330-086ZP | 330-107ZP | 330-131ZP | 330-151ZP |
| 80 | | | 330-241ZP | | 330-087ZP | 330-108ZP | 330-132ZP | 330-152ZP |
| 85 | | | | | 330-088ZP | 330-109ZP | 330-133ZP | 330-648ZP |
| 90 | | | 330-242ZP | | 330-089ZP | 330-110ZP | 330-134ZP | 330-154ZP |
| 100 | | | 330-243ZP | | 330-090ZP | 330-111ZP | 330-135ZP | 330-155ZP |
| 110 | | | | | | 330-625ZP | 330-637ZP | 330-649ZP |
| 120 | | | 330-604ZP | | 330-091ZP | 330-112ZP | 330-136ZP | 330-156ZP |
| 140 | | | | | | 330-113ZP | 330-137ZP | 330-157ZP |
| 160 | | | | | 330-617ZP | 330-114ZP | 330-138ZP | 330-158ZP |
| 180 | | | | | | | 330-336ZP | |
| 200 | | | | | 330-619ZP | 330-115ZP | 330-139ZP | 330-159ZP |

| DIA. in mm | M16 | M18 | M20 | M22 | M24 | M27 | M30 |
|---|---|---|---|---|---|---|---|
| Pitch | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 60 | 330-659ZP | | | | | | |
| 65 | 330-169ZP | | 330-198ZP | | | | |
| 70 | 330-170ZP | 330-185ZP | 330-199ZP | 330-212ZP | | | |
| 75 | 330-171ZP | 330-669ZP | 330-200ZP | | | | |
| 80 | 330-172ZP | 330-186ZP | 330-201ZP | 330-213ZP | 330-219ZP | 330-224ZP | 330-229ZP |
| 90 | 330-174ZP | 330-H22-1N | 330-202ZP | 330-235ZP | 330-220ZP | 330-225ZP | |
| 100 | 330-175ZP | 330-188ZP | 330-H37-1W | 330-214ZP | 330-221ZP | | 330-230ZP |
| 110 | 330-660ZP | | 330-679ZP | | | | 330-723ZP |
| 120 | 330-176ZP | 330-189ZP | 330-204ZP | | | 330-226ZP | |
| 130 | 330-661ZP | | | | 330-703ZP | | |
| 140 | 330-177ZP | 330-190ZP | 330-205ZP | 330-215ZP | 330-222ZP | 330-227ZP | 330-231ZP |
| 150 | | 330-672ZP | 330-236ZP | 330-244ZP | 330-704ZP | | |
| 160 | 330-178ZP | 330-191ZP | 330-206ZP | | | | |
| 180 | 330-663ZP | 330-673ZP | 330-681ZP | | | | |
| 200 | 330-179ZP | 330-192ZP | 330-207ZP | | 330-223ZP | 330-228ZP | 330-232ZP |
| 220 | | | 330-240ZP | | | | |

**Contact Sales Desk For Package Quantities**

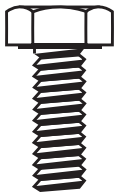


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B



**DIN 933**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded

# Property Class 8.8 – Yellow Zinc Plated

## Regular COARSE Metric Thread to ISO 965-1

**Medium Carbon Steel, Quenched & Tempered**

Dia. M3 - M16 Tensile Strength 800 N/mm² min. (Approx. 116,000 PSI - For Reference Only.)
Above M16 Tensile Strength 830 N/mm² min. (Approx. 120,000 PSI - For Reference Only.)

| DIA. in mm | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | | |
| 8 | | 330-020YZ | 330-030YZ | 330-043YZ | 330-383YZ | | | | | | |
| 10 | 330-009YZ | 330-H10-1N | 330-031YZ | 330-044YZ | | | | | | | |
| 12 | | 330-022YZ | 330-032YZ | 330-045YZ | 330-071YZ | 330-391YZ | 330-397YZ | | | | |
| 15 | | | | | | | | | | | |
| 16 | | 330-023YZ | 330-033YZ | 330-H35-1T | 330-234YZ | 330-092YZ | 330-116YZ | | | | |
| 18 | | | | | 330-072YZ | | | | | | |
| 20 | | | 330-035YZ | 330-048YZ | 330-073YZ | 330-H34-1N | 330-118YZ | 330-140YZ | | | |
| 25 | | | 330-037YZ | 330-050YZ | 330-H11-1T | 330-096YZ | 330-120YZ | | | | |
| 30 | | | | 330-052YZ | 330-077YZ | 330-H19-1C | 330-122YZ | | 330-162YZ | | |
| 35 | | | | 330-053YZ | 330-078YZ | | 330-123YZ | 330-143YZ | | | |
| 40 | | | 330-040YZ | 330-054YZ | 330-079YZ | 330-100YZ | 330-124YZ | | | | |
| 45 | | | | 330-055YZ | 330-080YZ | 330-101YZ | 330-125YZ | 330-145YZ | 330-H18-1Y | | |
| 50 | | | | 330-056YZ | | 330-102YZ | 330-126YZ | | | 330-195YZ | |
| 55 | | | | | | | | | 330-167YZ | | |
| 60 | | | | 330-H31-1P | | | 330-128YZ | | | | |
| 70 | | | | | | | 330-399YZ | 330-406YZ | | | 330-218YZ |
| 75 | | | | | | | 330-492YZ | | | | |
| 80 | | | | | 330-386YZ | | | | | | |
| 100 | | | | | | 330-394YZ | | | 330-413YZ | | |
| 120 | | | | | | 330-247YZ | | | | | |
| | PKG QTY. 100 | | | | PKG QTY. 50 | | | PKG QTY. 25 | | | PKG QTY. 10 |



**ASSORTMENT / ASSORTIMENT 805-402**

## HEXAGON HEAD CAP SCREWS

### Metric - Property Class 8.8

### REGULAR COARSE THREAD

**DIN 931 / DIN 933**

**Medium Carbon Steel, Quenched & Tempered**
**Zinc Plated**

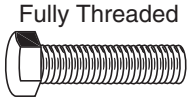
### 24 SIZES - 636 PIECES

Furnished in a REGULAR SIZE grey enamelled steel drawer, with hinged lid and scoop bins. Drawer will fit Slide Racks shown on page A2

Shipping Weight: 5.49 kg (12.1 lbs.)



Fully Threaded



Partially Threaded

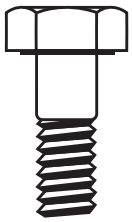


| Thread Type | Thread Size | Spaenaur No. | Length Under Head | Qty. | Page |
|---|---|---|---|---|---|
| Fully Threaded | M4 x 0.70 | 330-023ZP | 16mm | 40 | B160 |
| | | 330-H32-1Y | 20mm | | |
| | M5 x 0.80 | 330-033ZP | 16mm | | |
| | | 330-035ZP | 20mm | | |
| | | 330-038ZP | 30mm | | |
| | | 330-040ZP | 40mm | 30 | |
| | M6 x 1.00 | 330-046ZP | 16mm | 40 | |
| | | 330-050ZP | 25mm | | |
| | | 330-053ZP | 35mm | 35 | |
| | | 330-055ZP | 45mm | 20 | |
| | M8 x 1.25 | 330-H09-1T | 20mm | 25 | |
| | | 330-075ZP | 25mm | | |
| | | 330-078ZP | 35mm | 20 | |
| | | 330-081ZP | 50mm | 15 | |
| | M10 x 1.50 | 330-H33-1C | 20mm | 12 | |
| | | 330-098ZP | 30mm | 10 | |
| | | 330-099ZP | 35mm | | |
| | | 330-102ZP | 50mm | 8 | |
| | M12 x 1.75 | 330-122ZP | 30mm | 10 | |
| | | 330-128ZP | 60mm | 6 | |
| Partially Threaded | M4 x 0.70 | 330-025ZP | 25mm | 40 | B161 |
| | | 330-026ZP | 30mm | | |
| | | 330-027ZP | 35mm | | |
| | M8 x 1.25 | 330-083ZP | 60mm | 10 | |




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# Property Class 8.8 – Yellow Zinc Plated

**DIN 931**

Partially Threaded

## Regular COARSE Metric Thread

to ISO 965-1

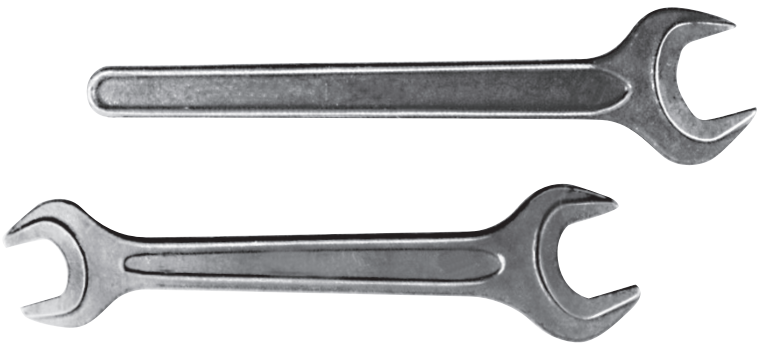
**Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

| DIA. in mm | M5 | M8 | M10 | M12 | M14 | M16 | M20 |
|---|---|---|---|---|---|---|---|
| Pitch | 0.80 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 35 | | 330-245YZ | | | | | |
| 45 | | 330-338YZ | | 330-634YZ | | | |
| 50 | 330-042YZ | 330-339YZ | 330-623YZ | | 330-645YZ | | |
| 55 | | 330-612YZ | 330-624YZ | 330-636YZ | | 330-658YZ | |
| 60 | | 330-083YZ | 330-340YZ | | 330-647YZ | 330-659YZ | |
| 65 | | | | | | | 330-198YZ |
| 70 | | 330-085YZ | 330-106YZ | | | | 330-199YZ |
| 75 | | 330-086YZ | | | | | 330-200YZ |
| 80 | | 330-087YZ | | 330-132YZ | | | |
| 85 | | 330-088YZ | | | | | |
| 90 | | 330-089YZ | | | | 330-174YZ | |
| 110 | | | 330-625YZ | | | | |
| 120 | | 330-H12-1K | | | | | |
| 130 | | | | | | 330-661YZ | |
| 140 | | | | 330-137YZ | | | |
| 150 | | | | 330-639YZ | | | |
| 160 | | | 330-H16-1A | | | 330-178YZ | |

**Contact Sales Desk For Package Quantities**

For Single and Double Open End Wrenches see Page P89

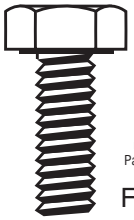






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B



**DIN 961**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded

# Property Class 8.8 – Plain Finish

## Metric FINE Thread

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

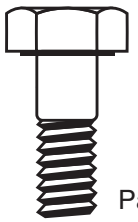
| DIA. in mm | | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Lgth. mm | Pitch | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 10 | 1.00 | 330-555 | | | | | | | | |
| 12 | 1.00 | 330-778 | | | | | | | | |
| 16 | 1.00 | 330-250 | 330-558 | | | | | | | |
| | 1.25 | | 330-563 | | | | | | | |
| 18 | 1.25 | | 330-255 | | | | | | | |
| 20 | 1.00 | 330-251 | 330-559 | | | | | | | |
| | 1.25 | | 330-256 | 330-261 | | | | | | |
| | 1.50 | | | 330-566 | | 330-572 | | | | |
| 22 | 1.00 | 330-252 | | | | | | | | |
| | 1.25 | | 330-257 | | | | | | | |
| 25 | 1.00 | 330-253 | 330-560 | | | | | | | |
| | 1.25 | | 330-258 | 330-262 | | | | | | |
| | 1.50 | | | 330-567 | 330-266 | 330-573 | | | | |
| 30 | 1.00 | 330-254 | 330-561 | | | | | | | |
| | 1.25 | | 330-259 | 330-263 | | | | | | |
| | 1.50 | | | 330-568 | 330-267 | 330-271 | 330-575 | 330-581 | | |
| 35 | 1.00 | 330-556 | 330-562 | | | | | | | |
| | 1.25 | | 330-260 | 330-264 | | | | | | |
| | 1.50 | | | 330-569 | 330-268 | 330-272 | | | | |
| 40 | 1.00 | 330-557 | 330-779 | | | | | | | |
| | 1.25 | | 330-787 | 330-265 | | | | | | |
| | 1.50 | | | 330-570 | 330-269 | 330-273 | 330-276 | 330-278 | | |
| 45 | 1.25 | | | 330-565 | | | | | | |
| | 1.50 | | | | 330-270 | 330-274 | | 330-279 | | |
| 50 | 1.00 | | 330-780 | | | | | | | |
| | 1.25 | | | 330-786 | | | | | | |
| | 1.50 | | | 330-789 | 330-173 | 330-275 | 330-277 | 330-280 | 330-282 | |
| | 2.00 | | | | | | | 330-584 | | 330-284 |
| 55 | 1.50 | | | | | 330-574 | 330-578 | 330-582 | | |
| 60 | 1.50 | | | | 330-785 | | 330-579 | 330-281 | 330-283 | |
| | 2.00 | | | | | | | 330-585 | | 330-285 |
| 65 | 1.50 | | | | | | | 330-583 | | |
| 70 | 1.50 | | | | | | 330-580 | | | |
| | 2.00 | | | | | | | | | 330-286 |
| | | PKG QTY. 50 | | | PKG QTY. 25 | | | | | PKG QTY. 10 |

For Metric Steel Flat Washers see Page D12




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**DIN 960**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Partially Threaded

# Property Class 8.8 – Plain Finish

## Metric FINE Thread

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

| DIA. in mm | | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Lgth. mm | Pitch | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 35 | 1.00 | 330-287 | | | | | | | | |
| 40 | 1.00 | 330-288 | 330-498 | | | | | | | |
| | 1.25 | | 330-295 | | | | | | | |
| | 1.50 | | | 330-782 | | | | | | |
| 45 | 1.00 | 330-289 | 330-499 | | | | | | | |
| | 1.25 | | 330-296 | 330-303 | | | | | | |
| | 1.50 | | | 330-516 | 330-783 | | | | | |
| 50 | 1.00 | 330-290 | 330-500 | | | | | | | |
| | 1.25 | | 330-297 | 330-304 | | | | | | |
| | 1.50 | | | 330-517 | 330-311 | | | | | |
| 55 | 1.00 | 330-291 | 330-501 | | | | | | | |
| | 1.25 | | 330-298 | 330-305 | | | | | | |
| | 1.50 | | | 330-518 | 330-312 | 330-318 | | | | |
| 60 | 1.00 | 330-292 | 330-502 | | | | | | | |
| | 1.25 | | 330-299 | 330-306 | | | | | | |
| | 1.50 | | | 330-519 | 330-313 | 330-319 | 330-324 | | | |
| 65 | 1.00 | | 330-503 | | | | | | | |
| | 1.25 | | 330-509 | 330-512 | | | | | | |
| | 1.50 | | | | 330-527 | 330-530 | 330-537 | 330-541 | | |
| 70 | 1.00 | 330-293 | 330-504 | | | | | | | |
| | 1.25 | | 330-300 | 330-307 | | | | | | |
| | 1.50 | | | 330-521 | 330-314 | 330-320 | 330-325 | 330-329 | | |
| 75 | 1.00 | 330-495 | | | | | | | | |
| | 1.25 | | 330-510 | 330-513 | | | | | | |
| | 1.50 | | | 330-522 | 330-528 | 330-531 | 330-538 | 330-542 | | |
| 80 | 1.00 | 330-294 | 330-506 | | | | | | | |
| | 1.25 | | 330-301 | 330-308 | | | | | | |
| | 1.50 | | | 330-523 | 330-315 | 330-321 | 330-326 | 330-330 | | |
| | 2.00 | | | | | | | | | 330-333 |
| 90 | 1.25 | | 330-511 | 330-514 | | | | | | |
| | 1.50 | | | 330-524 | 330-529 | 330-532 | 330-539 | 330-543 | | |
| | 2.00 | | | | | | | | | 330-553 |
| 100 | 1.00 | | 330-508 | | | | | | | |
| | 1.25 | | 330-302 | 330-309 | | | | | | |
| | 1.50 | | | 330-526 | 330-316 | 330-322 | 330-327 | 330-331 | 330-550 | |
| | 2.00 | | | | | | | | | 330-334 |
| 110 | 1.25 | | | 330-515 | | | | | | |
| | 1.50 | | | | | 330-533 | | 330-544 | 330-551 | |
| 120 | 1.25 | | | 330-310 | | | | | | |
| | 1.50 | | | | 330-317 | 330-323 | 330-328 | 330-332 | | |
| | 2.00 | | | | | | | | | 330-335 |
| 130 | 1.50 | | | | | 330-534 | | 330-545 | | |
| 140 | 1.50 | | | | | 330-535 | | 330-546 | | |
| 150 | 1.50 | | | | | 330-536 | | 330-547 | | |
| 160 | 2.00 | | | | | | | | | 330-824 |

**Contact Sales Desk For Package Quantities**



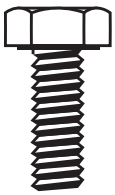


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B



# Property Class 8.8 – Zinc Plated

## Metric FINE Thread

**DIN 961**

Fully Threaded

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

| DIA. in mm | | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Lgth. mm | Pitch | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 16 | 1.00 | 330-250ZP | | | | | | | | |
| | 1.25 | | 330-563ZP | | | | | | | |
| 18 | 1.25 | | 330-255ZP | | | | | | | |
| 20 | 1.00 | 330-251ZP | | | | | | | | |
| | 1.25 | | 330-256ZP | 330-261ZP | | | | | | |
| 25 | 1.00 | 330-253ZP | | | | | | | | |
| | 1.25 | | 330-258ZP | 330-262ZP | | | | | | |
| | 1.50 | | | | 330-266ZP | | | | | |
| 30 | 1.00 | 330-254ZP | | | | | | | | |
| | 1.25 | | 330-259ZP | 330-263ZP | | | | | | |
| | 1.50 | | | 330-568ZP | 330-267ZP | 330-271ZP | | | | |
| 35 | 1.00 | 330-556ZP | | | | | | | | |
| | 1.25 | | 330-260ZP | 330-264ZP | | | | | | |
| | 1.50 | | | | | 330-272ZP | | | | |
| 40 | 1.00 | 330-557ZP | | | | | | | | |
| | 1.25 | | | 330-265ZP | | | | | | |
| | 1.50 | | | | 330-269ZP | 330-273ZP | 330-H26-1M | 330-278ZP | | |
| 45 | 1.50 | | | | 330-H17-1P | 330-274ZP | | 330-279ZP | | |
| 50 | 1.25 | | 330-564ZP | | | | | | | |
| | 1.50 | | | | ▪330-173YZ | 330-275ZP | 330-277ZP | 330-280ZP | 330-282ZP | |
| 60 | 1.50 | | | | | | | 330-281ZP | | |
| 70 | 2.00 | | | | | | | | | 330-286ZP |
| | | PKG QTY. 50 | | | PKG QTY. 25 | | | | | PKG QTY. 10 |

▪ Yellow Zinc

**ASSORTMENT / ASSORTIMENT 805-537A**

**DIN 960 / DIN 961**

## HEXAGON HEAD CAP SCREWS

**Metric**
**Property Class 8.8**

**FINE THREAD**

**Medium Carbon Steel, Quenched & Tempered Zinc Plated**

**24 SIZES**
**294 PIECES**

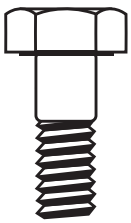


| Name | Thread Size | Spaenaur No. | Length Under Head | Qty. | Page |
|---|---|---|---|---|---|
| Cap Screw Hexagon Head Partial Thread Zinc Plated | M8 x 1.00 | 330-287ZP | 35mm | 20 | B167 |
| | | 330-H13-1W | 40mm | 15 | |
| | | 330-289ZP | 45mm | | |
| | M10 x 1.25 | 330-295ZP | 40mm | 10 | |
| | | 330-296ZP | 45mm | | |
| | M12 x 1.25 | 330-303ZP | | 6 | |
| | | 330-306ZP | 60mm | | |
| Cap Screw Full Thread Zinc Plated | M8 x 1.00 | 330-250ZP | 16mm | 20 | B166 |
| | | 330-251ZP | 20mm | | |
| | | 330-253ZP | 25mm | | |
| | | 330-254ZP | 30mm | | |
| | M10 x 1.25 | 330-255ZP | 18mm | 15 | |
| | | 330-256ZP | 20mm | | |
| | | 330-258ZP | 25mm | | |
| | | 330-259ZP | 30mm | | |
| | | 330-260ZP | 35mm | 10 | |
| | M12 x 1.25 | 330-261ZP | 20mm | | |
| | | 330-262ZP | 25mm | | |
| | | 330-263ZP | 30mm | 8 | |
| | | 330-264ZP | 35mm | | |
| | | 330-265ZP | 40mm | 6 | |
| | M14 x 1.50 | 330-267ZP | 30mm | 8 | |
| | M16 x 1.50 | 330-271ZP | | 6 | |
| | | 330-273ZP | 40mm | | |

Furnished in a REGULAR SIZE grey enamelled steel drawer, with hinged lid and scoop bins. Drawer will fit Slide Racks shown on page A2
Shipping Weight: **10.2 kg** (22-1/2 lbs.)



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**DIN 960**
Partially Threaded

# Property Class 8.8 – Zinc Plated

## Metric FINE Thread

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

B

| DIA. in mm | | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 |
|---|---|---|---|---|---|---|---|---|---|
| Lgth. mm | Pitch | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 35 | 1.00 | 330-287ZP | | | | | | | |
| 40 | 1.00 | 330-H13-1W | | | | | | | |
| | 1.25 | | 330-295ZP | | | | | | |
| 45 | 1.00 | 330-289ZP | | | | | | | |
| | 1.25 | | 330-296ZP | 330-303ZP | | | | | |
| 50 | 1.25 | | | 330-H08-1N | | | | | |
| | 1.25 | | 330-298ZP | 330-305ZP | | | | | |
| | 1.50 | | | | 330-312ZP | 330-318ZP | | | |
| 60 | 1.00 | 330-292ZP | | | | | | | |
| | 1.25 | | 330-299ZP | 330-306ZP | | | | | |
| | 1.50 | | | | | 330-319ZP | | | |
| 65 | 1.50 | | | | | 330-530ZP | | | |
| 70 | 1.25 | | | 330-307ZP | | | | | |
| | 1.50 | | | | | 330-320ZP | | 330-329ZP | |
| 80 | 1.00 | 330-H03-1X | | | | | | | |
| | 1.25 | | 330-301ZP | 330-308ZP | | | | | |
| | 1.50 | | | | | | | 330-330ZP | |
| | 2.00 | | | | | | | | 330-333ZP |
| 100 | 1.25 | | 330-302ZP | 330-309ZP | | | | | |
| | 1.50 | | | | | 330-322ZP | 330-327ZP | 330-331ZP | |
| | 2.00 | | | | | | | | 330-334ZP |
| 120 | 1.25 | | | 330-310ZP | | | | | |
| | 1.50 | | | | 330-317ZP | 330-323ZP | | 330-332ZP | |
| | 2.00 | | | | | | | | 330-335ZP |
| | | PKG QTY. 50 | | | PKG QTY. 25 | | | | PKG QTY. 10 |

**ASSORTMENT / ASSORTIMENT 805-537A**

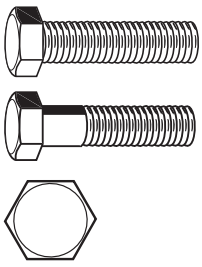
**DIN 960 / DIN 961**

## HEXAGON HEAD CAP SCREWS

### Metric - Property Class 8.8 FINE THREAD

**Medium Carbon Steel, Quenched & Tempered Zinc Plated**

**24 SIZES**
**294 PIECES**





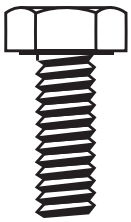
| Name | Thread Size | Spaenaur No. | Length Under Head | Qty. | Page |
|---|---|---|---|---|---|
| Cap Screw Hexagon Head Partial Thread Zinc Plated | M8 x 1.00 | 330-287ZP | 35mm | 20 | B167 |
| | | 330-H13-1W | 40mm | 15 | |
| | | 330-289ZP | 45mm | | |
| | M10 x 1.25 | 330-295ZP | 40mm | 10 | |
| | | 330-296ZP | 45mm | | |
| | M12 x 1.25 | 330-303ZP | | 6 | |
| | | 330-306ZP | 60mm | | |
| Cap Screw Full Thread Zinc Plated | M8 x 1.00 | 330-250ZP | 16mm | 20 | B166 |
| | | 330-251ZP | 20mm | | |
| | | 330-253ZP | 25mm | | |
| | | 330-254ZP | 30mm | | |
| | M10 x 1.25 | 330-255ZP | 18mm | 15 | |
| | | 330-256ZP | 20mm | | |
| | | 330-258ZP | 25mm | | |
| | | 330-259ZP | 30mm | | |
| | | 330-260ZP | 35mm | 10 | |
| | M12 x 1.25 | 330-261ZP | 20mm | | |
| | | 330-262ZP | 25mm | | |
| | | 330-263ZP | 30mm | 8 | |
| | | 330-264ZP | 35mm | | |
| | | 330-265ZP | 40mm | 6 | |
| | M14 x 1.50 | 330-267ZP | 30mm | 8 | |
| | M16 x 1.50 | 330-271ZP | | 6 | |
| | | 330-273ZP | 40mm | | |

Furnished in a REGULAR SIZE grey enamelled steel drawer, with hinged lid and scoop bins. Drawer will fit Slide Racks shown on page A2
Shipping Weight: **10.2 kg** (22-1/2 lbs.)



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B



**DIN 933**
This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded

# Property Class 10.9 – Plain Finish

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

**Medium Carbon Steel, Quenched & Tempered**

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)
Rockwell Hardness – Min. C32 Max. C39

| DIA. in mm | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 | M30 |
|---|---|---|---|---|---|---|---|---|---|
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 | 3.50 |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 10 mm | 332-001 | | | | | | | | |
| 12 | 332-002 | | | | | | | | |
| 16 | 332-003 | 332-014 | 332-202 | | | | | | |
| 18 | | 332-302 | | | | | | | |
| 20 | 332-004 | 332-015 | 332-029 | 332-045 | | | | | |
| 25 | 332-005 | 332-B01-1C | 332-030 | 332-046 | 332-061 | | | | |
| 30 | 332-006 | 332-017 | 332-031 | 332-047 | 332-062 | 332-075 | | | |
| 35 | 332-007 | 332-205 | 332-032 | 332-048 | 332-063 | 332-076 | 332-211 | | |
| 40 | 332-128 | 332-158 | 332-328 | 332-049 | 332-064 | 332-077 | 332-093 | | |
| 45 | | 332-206 | | | 332-065 | 332-078 | 332-094 | | |
| 50 | | 332-207 | 332-203 | | 332-066 | 332-079 | 332-095 | 332-215 | |
| 55 | | | | 332-226 | 332-067 | 332-080 | 332-096 | 332-216 | |
| 60 | | | | | 332-209 | | 332-212 | 332-106 | 332-219 |
| 65 | | | | | | 332-201 | 332-213 | 332-217 | 332-220 |
| 70 | | | | | | | | 332-107 | 332-221 |
| 75 | | | | | | | | 332-108 | 332-222 |
| 80 | | | | | | | 332-214 | 332-218 | 332-223 |
| 90 | | | | | | | | | 332-224 |
| 110 | | | | | | | | 332-126 | |
| 120 | | | | | | | | 332-127 | |
| | PKG QTY. 100 | PKG QTY. 50 | | | PKG QTY. 25 | | | PKG QTY. 10 | PKG QTY. 1 |

**DIN 933**
This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded to Head

# Property Class 10.9 – Zinc Plated

## Regular COARSE Metric Thread

| *SPAENAUR No.* | Dia. x Pitch x Length | PKG QTY. |
|---|---|---|
| 332-045ZP | M12 x 1.75 x 20 mm | 50 |

**ASSORTMENT 805-472**
**ASSORTIMENT**

**DIN 933 / DIN 931**

## Metric HEXAGON HEAD CAP SCREWS

**Property Class 10.9**
**Regular COARSE Thread**

Medium Carbon Steel, Quenched & Tempered Zinc Plated and Dichromate Dipped (Gold Colour)

**24 SIZES — 550 PIECES**

Furnished in a regular size grey enamelled steel drawer, with hinged lid and scoop bins. Drawer will fit slide racks shown on page A2

Shipping Weight: **10.4 kg** (23 lbs.)



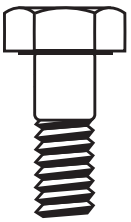


**For the complete assortment contents turn to A51**





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**DIN 931**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Partially Threaded

# Property Class 10.9 – Plain Finish

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

**Medium Carbon Steel, Quenched & Tempered**

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

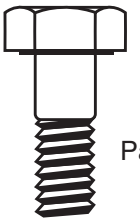
Rockwell Hardness Min. C32 Max. C39

| DIA. in mm | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 | M30 | M33 |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 | 3.50 | 3.50 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 30 | 332-228 | | | | | | | | | |
| 35 | 332-229 | 332-018 | | | | | | | | |
| 40 | 332-008 | 332-019 | 332-033 | | | | | | | |
| 45 | 332-009 | 332-020 | 332-034 | 332-050 | | | | | | |
| 50 | 332-010 | 332-021 | 332-035 | 332-051 | 332-246 | | | | | |
| 55 | 332-011 | 332-022 | 332-036 | 332-052 | 332-247 | 332-256 | | | | |
| 60 | 332-012 | 332-023 | 332-037 | 332-053 | 332-068 | 332-081 | | | | |
| 65 | | 332-231 | 332-123 | 332-239 | 332-069 | 332-082 | 332-098 | | | |
| 70 | 332-013 | 332-024 | 332-038 | 332-054 | 332-070 | 332-083 | 332-099 | | | |
| 75 | | 332-232 | 332-235 | 332-240 | 332-071 | 332-084 | 332-100 | 332-269 | | |
| 80 | 332-230 | 332-025 | 332-039 | 332-055 | 332-072 | 332-085 | 332-112 | 332-270 | | |
| 90 | | 332-026 | 332-040 | 332-056 | 332-073 | 332-086 | 332-101 | 332-109 | 332-113 | |
| 100 | | 332-027 | 332-041 | 332-057 | 332-074 | 332-087 | 332-102 | 332-204 | 332-114 | |
| 110 | | 332-300 | 332-236 | 332-241 | 332-248 | 332-257 | 332-263 | 332-272 | 332-284 | |
| 120 | | 332-233 | 332-042 | 332-058 | 332-249 | 332-088 | 332-103 | 332-273 | 332-115 | 332-290 |
| 130 | | | 332-238 | 332-242 | 332-250 | 332-258 | 332-264 | 332-274 | 332-299 | |
| 140 | | 332-234 | 332-043 | 332-059 | 332-251 | 332-089 | 332-104 | 332-275 | 332-285 | |
| 150 | | | 332-044 | 332-060 | 332-252 | 332-090 | 332-105 | 332-276 | 332-116 | |
| 160 | | | | 332-243 | 332-253 | 332-227 | 332-265 | 332-277 | 332-286 | |
| 180 | | | | 332-244 | 332-254 | 332-260 | 332-266 | 332-278 | 332-287 | |
| 200 | | | | 332-245 | 332-255 | 332-118 | 332-119 | 332-120 | 332-117 | |
| 220 | | | | | | 332-261 | 332-267 | 332-279 | 332-288 | 332-B05-1X |
| 240 | | | | | | 332-262 | 332-268 | 332-280 | 332-289 | |
| 260 | | | | | | | 332-318 | 332-281 | | |
| 280 | | | | | | | 332-319 | | | |
| 300 | | | | | | | 332-315 | 332-B10-1Y | | |
| 320 | | | | | | | | | | 332-293 |

**Additional sizes available of DIN 931**

| | |
|---|---|
| **332-296** | M36 x 4.00 x 110 mm |
| **332-297** | M36 x 4.00 x 200 mm |
| **332-298** | M42 x 4.50 x 160 mm |

**Contact Sales Desk For Package Quantities**



**DIN 931**

Partially Threaded

# Property Class 10.9 – Zinc Plated

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

**Medium Carbon Steel, Quenched & Tempered**

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

Rockwell Hardness Min. C32 Max. C39

| *SPAENAUR No.* | Dia. x Pitch x Length | PKG QTY. | *SPAENAUR No.* | Dia. x Pitch x Length | PKG QTY. |
|---|---|---|---|---|---|
| **332-020ZP** | M8 x 1.25 x 45 mm | 100 | **332-053ZP** | M12 x 1.75 x 60 mm | 50 |
| **332-021ZP** | M8 x 1.25 x 50 mm | 100 | **332-098ZP** | M20 x 2.50 x 65 mm | 25 |
| **332-040ZP** | M10 x 1.50 x 90 mm | 50 | **332-204ZP** | M24 x 3.00 x 100 mm | 10 |
| **332-042ZP** | M10 x 1.50 x 120 mm | 50 | **332-117ZP** | M30 x 3.50 x 200 mm | 1 |
| **332-238ZP** | M10 x 1.50 x 130 mm | 50 | | | |
| **332-051ZP** | M12 x 1.75 x 50 mm | 50 | | | |
| **332-052ZP** | M12 x 1.75 x 55 mm | 50 | | | |



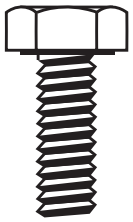


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B



# Property Class 10.9 – Yellow Zinc Plated

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

**DIN 933**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded

**Medium Carbon Steel, Quenched & Tempered**

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

Rockwell Hardness – Min. C32 Max. C39

| DIA. in mm | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|---|
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 10 mm | 332-001YZ | | | | | | | |
| 12 | 332-002YZ | | | | | | | |
| 16 | 332-003YZ | 332-014YZ | | | | | | |
| 20 | 332-004YZ | 332-015YZ | 332-029YZ | 332-045YZ | | | | |
| 25 | | 332-B06-1A | 332-030YZ | 332-046YZ | 332-061YZ | | | |
| 30 | 332-006YZ | 332-017YZ | 332-031YZ | 332-047YZ | | 332-075YZ | | |
| 35 | 332-007YZ | 332-205YZ | 332-032YZ | 332-B13-1T | 332-063YZ | 332-076YZ | | |
| 40 | | | | 332-049YZ | 332-064YZ | 332-077YZ | 332-093YZ | |
| 45 | | | | | 332-065YZ | | 332-094YZ | |
| 50 | | 332-207YZ | | | 332-066YZ | 332-079YZ | | |
| 55 | | | | 332-226YZ | 332-067YZ | 332-B15-1W | 332-096YZ | |
| 60 | | | | | | | | 332-106YZ |
| | PKG QTY. 100 | PKG QTY. 50 | | | PKG QTY. 25 | | | PKG QTY. 10 |

## High-strength Hex Head Bolts

**DIN 6914**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Partially Threaded

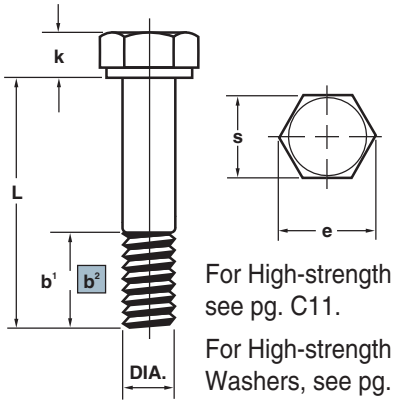
with large width across flats for structural steel bolting

# Property Class 10.9 Plain Finish

## Regular COARSE Metric Thread

Tensile Strength **1040 N/mm²** min.

(Approx. 150,000 PSI - For Reference Only.)




For High-strength Nuts, see pg. C11.

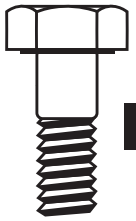
For High-strength Washers, see pg. D18.

| DIA. in mm | M16 | M20 | M24 | M27 | M30 |
|---|---|---|---|---|---|
| Pitch | 2.00 | 2.50 | 3.00 | 3.00 | 3.50 |
| $b^1$ | 26 | 31 | 34 | 37 | 40 |
| $b^2$ | 28 | 33 | 37 | 39 | 42 |
| e min. | 29.56 | 35.03 | 45.2 | 50.85 | 55.37 |
| k | 10 | 13 | 15 | 17 | 19 |
| s | 27 | 32 | 41 | 46 | 50 |
| Proof Load (N) | 130,000 | 203,000 | 293,000 | 381,000 | 466,000 |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 45 mm | 332-125 | | | | |
| 50 | 332-130 | 332-136 | | | |
| 55 | | 332-137 | | | |
| 60 | | 332-138 | 332-147 | | |
| 70 | 332-131 | 332-139 | | | |
| 75 | | 332-140 | | | |
| 80 | 332-132 | | | 332-152 | |
| 85 | | 332-141 | | | |
| 90 | 332-133 | | | | |
| 95 | | 332-142 | | | |
| 100 | | 332-143 | | | 332-153 |
| 120 | | 332-144 | 332-148 | | |
| 140 | | 332-145 | 332-149 | | 332-154 |
| 150 | | | 332-150 | | |
| 160 | 332-134 | | | | |
| 180 | 332-135 | | | | |
| 250 | | | 332-151 | | |

**Contact Sales Desk For Package Quantities**



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**DIN 931**

Partially Threaded

# Property Class 10.9 – Yellow Zinc Plated

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

**Medium Carbon Steel, Quenched & Tempered**

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

Rockwell Hardness Min. C32 Max. C39

| DIA. in mm | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 | M30 |
|---|---|---|---|---|---|---|---|---|---|
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 | 3.50 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 35 | | 332-018YZ | | | | | | | |
| 40 | 332-008YZ | 332-019YZ | 332-033YZ | | | | | | |
| 45 | 332-009YZ | 332-020YZ | 332-034YZ | | | | | | |
| 50 | 332-010YZ | 332-021YZ | 332-035YZ | 332-051YZ | | | | | |
| 55 | | 332-022YZ | 332-B07-1P | 332-052YZ | | | | | |
| 60 | | 332-023YZ | 332-B03-1W | 332-053YZ | 332-068YZ | 332-081YZ | 332-097YZ | | |
| 65 | | | | | 332-069YZ | 332-082YZ | | | |
| 70 | | | 332-038YZ | | 332-070YZ | 332-083YZ | 332-099YZ | | |
| 75 | | | | | 332-071YZ | 332-084YZ | 332-100YZ | | |
| 80 | | 332-025YZ | 332-039YZ | | 332-B11-1C | 332-085YZ | | | |
| 90 | | 332-026YZ | 332-040YZ | 332-056YZ | | | 332-101YZ | 332-109YZ | 332-113YZ |
| 100 | | 332-027YZ | 332-041YZ | 332-057YZ | 332-074YZ | 332-087YZ | 332-102YZ | | |
| 110 | | | | | | | | | |
| 120 | | | 332-042YZ | 332-058YZ | | 332-088YZ | 332-103YZ | | 332-115YZ |
| 130 | | | 332-B02-1K | | | | | | |
| 140 | | | 332-043YZ | | | | 332-104YZ | | |
| 150 | | | 332-044YZ | 332-060YZ | | 332-090YZ | 332-105YZ | | 332-116YZ |
| 200 | | | | | | 332-118YZ | 332-119YZ | | |

**Contact Sales Desk From Package Quantities**

# Property Class 10.9

## Available Finishes: Plain, Zinc Plated, & Yellow Zinc Plated

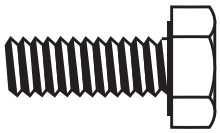
## Metric FINE Thread

**Medium Carbon Steel, Quenched & Tempered**

Rockwell Hardness Min. C32 Max. C39

**DIN 961**

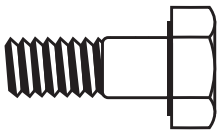
Fully Threaded



| *SPAENAUR No.* | Dia. x Pitch x Length PLAIN FINISH | PKG QTY. |
|---|---|---|
| 332-306 | M10 x 1.00 x 25 mm | 25 |
| 332-303 | M12 x 1.50 x 25 mm | 50 |
| 332-259 | M12 x 1.50 x 30 mm | 50 |
| 332-200 | M12 x 1.50 x 35 mm | 50 |
| 332-304 | M14 x 1.50 x 30 mm | 25 |
| 332-301 | M14 x 1.50 x 40 mm | 25 |
| 332-305 | M14 x 1.50 x 50 mm | 25 |

**DIN 960**

Partially Threaded

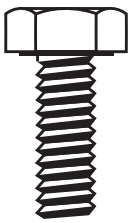


| *SPAENAUR No.* | Dia. x Pitch x Length PLAIN FINISH | PKG QTY. |
|---|---|---|
| 332-111 | M12 x 1.50 x 80 mm | 50 |
| 332-309 | M16 x 1.50 x 100 mm | 25 |
| 332-124 | M20 x 1.50 x 100 mm | 25 |



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B



**DIN 933**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded

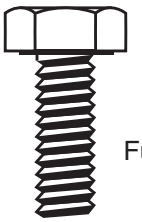
# A2 Stainless Steel

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

| DIA. in mm | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 5 | 344-118 | | | | | | | | | |
| 6 | 344-284 | 344-125 | 344-131 | | | | | | | |
| 8 | 344-114 | 344-126 | 344-007 | 344-132 | | | | | | |
| 10 | 344-119 | 344-001 | 344-008 | 344-014 | 344-024 | | | | | |
| 12 | 344-120 | 344-002 | 344-009 | 344-W02-1Y | 344-025 | | | | | |
| 16 | 344-121 | 344-003 | 344-010 | 344-W10-1P | 344-026 | 344-035 | | | | |
| 18 | | 344-127 | | | | | | | | |
| 20 | 344-122 | 344-004 | 344-011 | 344-017 | 344-027 | 344-036 | 344-045 | 344-155 | 344-139 | |
| 25 | 344-123 | 344-005 | 344-012 | 344-018 | 344-028 | 344-037 | 344-W12-1C | 344-055 | 344-059 | |
| 30 | 344-124 | 344-006 | 344-013 | 344-019 | 344-W15-1K | 344-038 | 344-047 | 344-056 | 344-060 | 344-068 |
| 35 | 344-152 | 344-128 | 344-151 | 344-020 | 344-030 | 344-039 | 344-W01-1N | 344-136 | 344-061 | 344-069 |
| 40 | 344-153 | 344-129 | 344-282 | 344-021 | 344-031 | 344-040 | 344-W09-1Y | 344-057 | 344-062 | 344-070 |
| 45 | | 344-130 | | 344-022 | 344-032 | 344-041 | 344-050 | 344-156 | 344-063 | 344-071 |
| 50 | | 344-154 | 344-W05-1M | 344-023 | 344-033 | 344-042 | 344-051 | 344-058 | 344-064 | 344-072 |
| 55 | | | | | | | | 344-137 | 344-157 | 344-142 |
| 60 | | | 344-321 | 344-133 | 344-034 | 344-043 | 344-052 | 344-138 | 344-065 | 344-073 |
| 65 | | | | | | | | | | 344-143 |
| 70 | | | | | 344-117 | | 344-053 | | 344-066 | 344-074 |
| 80 | | | | | | 344-044 | 344-054 | | 344-W11-1Y | 344-075 |
| 85 | | | | | | | | | | 344-287 |
| 90 | | | | | | 344-134 | 344-323 | | 344-140 | 344-144 |
| 100 | | | | | | 344-135 | | | 344-141 | 344-145 |
| 120 | | | | | | | | | | 344-324 |
| | PKG QTY. 50 | | | | | | PKG QTY. 20 | | | PKG QTY. 10 |

| DIA. in mm | M24 | M30 |
|---|---|---|
| Pitch | 3.00 | 3.50 |
| Lgth. mm | *SPAENAUR No.* | |
| 50 | 344-076 | |
| 55 | 344-158 | |
| 60 | 344-077 | 344-159 |
| 65 | 344-146 | |
| 70 | 344-078 | 344-280 |
| 80 | 344-079 | 344-148 |
| 90 | 344-147 | 344-149 |
| 100 | | 344-281 |
| 110 | 344-288 | 344-150 |
| | PKG QTY. 10 | PKG QTY. 1 |



**DIN 933**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded to Head

# A4 Stainless Steel

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

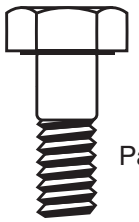
| | | | | | |
|---|---|---|---|---|---|
| 344-289 | M4 x 0.70 x 12 mm | 344-167 | M10 x 1.50 x 25 mm | 344-313 | M14 x 2.00 x 40 mm |
| 344-160 | M6 x 1.00 x 16 mm | 344-W03-1K | M10 x 1.50 x 30 mm | 344-312 | M14 x 2.00 x 50 mm |
| 344-161 | M6 x 1.00 x 20 mm | 344-169 | M10 x 1.50 x 35 mm | 344-315 | M16 x 2.00 x 20 mm |
| 344-292 | M6 x 1.00 x 30 mm | 344-170 | M10 x 1.50 x 40 mm | 344-173 | M16 x 2.00 x 30 mm |
| 344-162 | M8 x 1.25 x 16 mm | 344-171 | M10 x 1.50 x 65 mm | 344-174 | M16 x 2.00 x 40 mm |
| 344-295 | M8 x 1.25 x 20 mm | 344-307 | M12 x 1.75 x 20 mm | 344-175 | M16 x 2.00 x 45 mm |
| 344-291 | M8 x 1.25 x 25 mm | 344-308 | M12 x 1.75 x 25 mm | 344-316 | M16 x 2.00 x 55 mm |
| 344-163 | M8 x 1.25 x 30 mm | 344-172 | M12 x 1.75 x 35 mm | 344-317 | M16 x 2.00 x 60 mm |
| 344-164 | M8 x 1.25 x 40 mm | 344-290 | M12 x 1.75 x 40 mm | 344-298 | M20 x 2.00 x 100 mm |
| 344-165 | M8 x 1.25 x 60 mm | 344-309 | M12 x 1.75 x 55 mm | 344-318 | M24 x 3.00 x 50 mm |
| 344-320 | M8 x 1.25 x 70 mm | 344-311 | M14 x 2.00 x 20 mm | 344-176 | M24 x 3.00 x 55 mm |
| 344-166 | M8 x 1.25 x 80 mm | 344-310 | M14 x 2.00 x 30 mm | 344-177 | M24 x 3.00 x 65 mm |
| 344-297 | M10 x 1.50 x 20 mm | 344-314 | M14 x 2.00 x 35 mm | | |
| M4 to M10 - PKG QTY. 50 | | M12 to M16 - PKG QTY. 20 | | M20 to M24 - PKG QTY. 10 | |





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**DIN 931**
This Standard has been replaced. Please see Catalog Page R21 for more information.

Partially Threaded

# A2 Stainless Steel

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

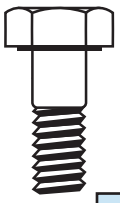
| DIA. in mm | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 | M30 |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 | 3.50 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 35 | | 344-185 | | | | | | | | |
| 40 | 344-080 | 344-186 | 344-201 | 344-214 | | | | | | |
| 45 | 344-182 | 344-081 | 344-202 | 344-215 | | | | | | |
| 50 | 344-183 | 344-082 | 344-084 | 344-216 | 344-228 | 344-240 | | | | |
| 55 | 344-184 | 344-187 | 344-203 | 344-W08-1P | 344-229 | 344-241 | 344-285 | | | |
| 60 | 344-116 | 344-083 | 344-085 | 344-089 | 344-230 | 344-242 | 344-250 | | | |
| 65 | | 344-188 | 344-204 | 344-218 | 344-231 | 344-243 | 344-251 | | | |
| 70 | | 344-189 | 344-205 | 344-090 | 344-094 | 344-244 | 344-099 | 344-258 | | |
| 75 | | 344-190 | 344-206 | 344-219 | 344-232 | | | 344-286 | | |
| 80 | | 344-191 | 344-086 | 344-091 | 344-095 | 344-245 | 344-W13-1N | 344-105 | 344-110 | |
| 90 | | 344-115 | 344-087 | 344-092 | 344-096 | 344-246 | 344-101 | 344-106 | 344-111 | |
| 100 | | 344-192 | 344-088 | 344-093 | 344-097 | 344-247 | 344-102 | 344-107 | 344-112 | |
| 110 | | 344-193 | 344-207 | 344-220 | 344-233 | 344-248 | 344-103 | 344-108 | 344-265 | 344-272 |
| 120 | | 344-194 | 344-208 | 344-221 | 344-098 | 344-249 | 344-104 | 344-109 | 344-113 | 344-273 |
| 130 | | 344-195 | 344-W06-1X | 344-222 | 344-234 | | 344-252 | 344-259 | 344-266 | |
| 140 | | 344-196 | 344-210 | 344-223 | 344-235 | | 344-253 | 344-260 | 344-267 | 344-274 |
| 150 | | 344-W14-1T | 344-211 | 344-W04-1W | 344-236 | | 344-254 | 344-261 | 344-268 | 344-276 |
| 160 | | 344-198 | 344-212 | 344-225 | 344-237 | | 344-255 | 344-262 | 344-269 | 344-277 |
| 180 | | 344-199 | 344-213 | 344-226 | 344-238 | | 344-256 | 344-263 | 344-270 | 344-278 |
| 200 | | | 344-275 | 344-227 | 344-239 | | 344-257 | 344-264 | 344-271 | 344-279 |

**Additional Sizes available of DIN 931**

**344-179** M4 x 0.70 x 50 mm

**344-180** M4 x 0.70 x 60 mm

**Contact Sales Desk For Package Quantities**



**DIN 931**
This Standard has been replaced. Please see Catalog Page R21 for more information.

Partially Threaded

# A4 Stainless Steel

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

| *SPAENAUR No.* | Dia. x Pitch x Length | PKG QTY. | *SPAENAUR No.* | Dia. x Pitch x Length | PKG QTY. |
|---|---|---|---|---|---|
| 344-294 | M6 x 1.00 x 40 mm | 50 | 344-319 | M12 x 1.75 x 100 mm | 20 |
| 344-293 | M6 x 1.00 x 80 mm | 50 | 344-322 | M12 x 1.75 x 180 mm | 1 |
| 344-300 | M6 x 1.00 x 100 mm | 50 | 344-303 | M14 x 2.00 x 60 mm | 20 |
| 344-299 | M8 x 1.25 x 80 mm | 50 | 344-304 | M14 x 2.00 x 80 mm | 20 |
| 344-296 | M8 x 1.25 x 100 mm | 50 | 344-305 | M14 x 2.00 x 120 mm | 20 |
| 344-306 | M10 x 1.50 x 80 mm | 50 | 344-301 | M20 x 2.50 x 100 mm | 10 |
| 344-302 | M10 x 1.50 x 100 mm | 50 | 344-325 | M36 x 4.00 x 160 mm | 1 |



Page A51

ASSORTMENT / ASSORTIMENT **805-434**

**DIN 933**

**A2 STAINLESS STEEL**
**Regular COARSE Metric Thread**

## Metric HEXAGON HEAD CAP SCREWS

**24 SIZES — 180 PIECES**

Furnished in Regular Size grey enamelled steel drawer.
Shipping Wt: 4.31 kg (9-1/2 lbs.)

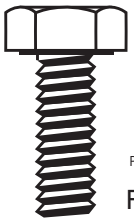


P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B



**DIN 933**
This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully Threaded

# BRASS – Plain

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)

| DIA. in mm | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 5 | 335-085 | | | | | | | | | |
| 6 | 335-086 | 335-094 | | | | | | | | |
| 8 | 335-087 | 335-095 | 335-105 | | | | | | | |
| 10 | 335-088 | 335-096 | 335-001 | 335-009 | 335-044 | | | | | |
| 12 | 335-089 | 335-097 | 335-002 | *335-010 | 335-019 | | | | | |
| 16 | 335-090 | 335-098 | 335-003 | 335-011 | 335-021 | 335-028 | 335-050 | | | |
| 20 | 335-091 | 335-099 | 335-004 | 335-012 | 335-022 | 335-029 | 335-051 | | | |
| 25 | 335-092 | 335-100 | 335-005 | 335-013 | 335-023 | 335-030 | 335-052 | | 335-060 | |
| 30 | 335-093 | 335-101 | 335-006 | 335-014 | 335-024 | 335-031 | 335-036 | | 335-061 | 335-072 |
| 35 | | 335-102 | 335-007 | 335-015 | 335-025 | 335-048 | 335-053 | | 335-062 | |
| 40 | | 335-103 | 335-008 | 335-016 | 335-026 | 335-032 | 335-054 | 335-040 | 335-063 | 335-074 |
| 45 | | | 335-106 | 335-017 | | | | | 335-064 | |
| 50 | | 335-104 | 335-107 | 335-018 | 335-027 | 335-033 | 335-037 | | 335-041 | 335-076 |
| 55 | | | | | | | | | 335-065 | |
| 60 | | | | 335-043 | 335-045 | 335-034 | 335-038 | | 335-042 | 335-078 |
| 70 | | | | | 335-046 | 335-035 | 335-055 | | 335-067 | |
| 80 | | | | | 335-047 | 335-049 | 335-056 | | •335-069 | |
| 90 | | | | | | | 335-057 | | | |
| 100 | | | | | | | 335-058 | | | |

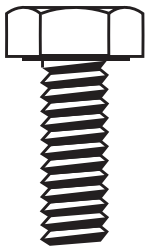
**Contact Sales Desk For Package Quantities**

* **335-010NP** Nickel Plated
• **335-108** DIN 931 Partial Thread

# ALUMINUM

## Regular COARSE Metric Thread

to DIN 13 (ISO Metric Spec.)



Fully Threaded

| DIA. in mm | M6 | M8 | M10 | M12 |
|---|---|---|---|---|
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | |
| 12 | 350-001 | | | |
| 16 | 350-002 | 350-006 | | |
| 20 | 350-003 | 350-013 | 350-009 | |
| 25 | 350-012 | 350-007 | | |
| 30 | 350-004 | 350-014 | | |
| 40 | 350-005 | | | |
| 50 | | 350-015 | 350-011 | |
| 60 | | | | 350-016 |

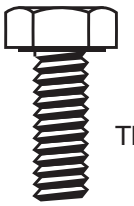
**Contact Sales Desk For Package Quantities**

**DIN 933**
This Standard has been replaced. Please see Catalog Page R21 for more information.





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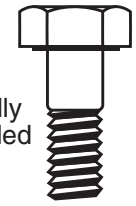
Fully Threaded

# NYLON (Polyamid 6/6)

## Regular COARSE Metric Thread

## Natural Colour

**Note:** We reserve the option to ship either fully or partially threaded, as available at time of shipment.



Partially Threaded

B

| DIA. in mm | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 |
|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 4 | 353-034 | | | | | | | |
| 5 | ■353-001 | | | | | | | |
| 6 | 353-035 | 353-004 | 353-043 | 353-050 | | | | |
| 8 | ■353-002 | 353-040 | 353-044 | 353-052 | | | | |
| 10 | 353-036 | 353-005 | 353-045 | 353-053 | 353-062 | | | |
| 12 | 353-003 | 353-041 | 353-010 | 353-054 | | | | |
| 16 | 353-037 | 353-006 | 353-046 | 353-032 | 353-031 | | | ●353-083 |
| 18 | | 353-087 | | | | | | |
| 20 | 353-038 | 353-007 | 353-011 | 353-055 | 353-016 | 353-071 | | |
| 25 | 353-039 | 353-042 | 353-047 | 353-014 | 353-063 | 353-020 | 353-024 | |
| 30 | | 353-008 | 353-012 | 353-056 | 353-017 | 353-072 | 353-025 | ●353-084 |
| 35 | | | | 353-015 | 353-033 | 353-021 | | |
| 40 | | 353-009 | 353-048 | 353-057 | 353-018 | | 353-078 | |
| 45 | | | | | | 353-022 | | |
| 50 | | | 353-049 | 353-058 | 353-019 | 353-073 | 353-026 | |
| 60 | | | | 353-059 | ●353-064 | 353-023 | 353-079 | 353-029 |
| 70 | | | | | | 353-074 | | |
| 80 | | | | 353-060 | 353-066 | 353-075 | 353-080 | |
| 100 | | | | 353-061 | 353-068 | | | |
| 125 | | | | | 353-069 | | | |
| 150 | | | | | | 353-077 | | |

■ ISO 1207
● DIN EN 24017

**Contact Sales Desk For Package Quantities**

For Nylon Machine Screw Insulators & Shoulder Washers See Pages D72-D73



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B

# Steel Alloy, Plain Black Thermal Oxide
## Full & Partial Thread

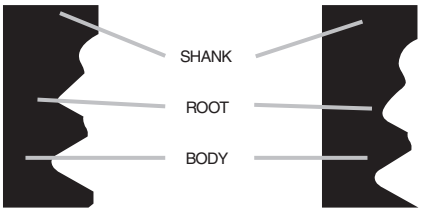
### PROFILE OF EXTRA STRENGTH



Deep, accurate socket for high torque wrenching. Knurls for easier handling. Marked for easier identification.

Head with increased bearing area for greater loading carrying capacity. Precision forged for symmetrical grain flow, maximum strength.

Elliptical fillet doubles fatigue life at critical head-shank juncture. "3-R" (radiused-root runout) increases fatigue life in this critical head-shank juncture.




CONVENTIONAL THREAD RUNOUT – Note sharp angle at root where high stress concentration soon develops crack which penetrates into body of the screw.

UNBRAKO "3-R" (RADIUSED ROOT RUNOUT) THREAD– Controlled radius of runout root provides a smooth form that distributes stress and increases fatigue life of thread run-out as a much as 300% in certain sizes.

Fully formed radiused thread increases fatigue life 100% over flat root thread forms.

Controlled heat treatment produces maximum strength without brittleness.

### UNC - PARTIAL THREAD

| SPAENAUR No. | MFG No. | THREAD SIZE | LENGTH | PKG QTY. |
|---|---|---|---|---|
| 363-A53-1X | 105288 | 1/4-20 | 1-1/2 | 100 |
| 363-A55-1P | 105304 | 1/4-20 | 1-3/4 | 100 |
| 363-A59-1T | 105320 | 1/4-20 | 2 | 100 |
| 363-A80-1A | 104121 | 5/16-18 | 1-3/4 | 100 |
| 363-A81-1P | 104137 | 5/16-18 | 2 | 100 |
| 363-A73-1T | 115727 | 3/8-16 | 1-3/4 | 50 |
| 363-A74-1K | 115743 | 3/8-16 | 2 | 50 |
| 363-A84-1N | 116673 | 5/8-11 | 3 | 25 |
| 363-A85-1T | 116737 | 5/8-11 | 3-1/2 | 25 |
| 366-W52-1T | 122097 | M3 | 0.5x8 | 200 |
| 366-W53-1K | 113839 | M4 | 0.7x10 | 200 |
| 366-W54-1W | 121077 | M4 | 0.7x12 | 200 |
| 366-W55-1M | 103014 | M4 | 0.7x12 | 200 |
| 366-W57-1A | 103024 | M5 | 0.8x16 | 200 |
| 366-W58-1P | 113970 | M5 | 0.8x20 | 200 |
| 366-W59-1Y | 122111 | M6 | 1x10 | 200 |
| 366-W60-1P | 120872 | M6 | 1x12 | 200 |
| 366-W61-1Y | 103044 | M6 | 1x16 | 200 |
| 366-W62-1C | 119790 | M6 | 1x20 | 200 |
| 366-W63-1N | 119937 | M6 | 1x25 | 50 |
| 366-W65-1K | 112624 | M6 | 1x50 | 200 |
| 366-W66-1W | 103058 | M8 | 1.25x16 | 200 |
| 366-W67-1M | 122086 | M8 | 1.25x20 | 200 |
| 366-W68-1X | 119351 | M8 | 1.25x25 | 200 |
| 366-W69-1A | 119383 | M8 | 1.25x30 | 200 |
| 366-W70-1X | 122113 | M8 | 1.25x35 | 200 |
| 366-W46-1P | 115060 | M10 | 1.5x25 | 200 |
| 366-W47-1Y | 122114 | M10 | 1.5x30 | 200 |
| 366-W48-1C | 100845 | M10 | 1.5x40 | 100 |
| 366-W49-1N | 122250 | M12 | 1.75x25 | 100 |
| 366-W50-1C | 125530 | M12 | 1.75x35 | 100 |
| 366-W51-1N | 114996 | M12 | 1.75x40 | 50 |

### UNC - FULL THREAD

| SPAENAUR No. | MFG No. | THREAD SIZE | LENGTH | PKG QTY. |
|---|---|---|---|---|
| 363-A27-1X | 105509 | 2-56 | 1/4 | 100 |
| 363-A28-1A | 107783 | 4-40 | 1/4 | 100 |
| 363-A29-1P | 107799 | 4-40 | 3/8 | 100 |
| 363-A30-1A | 107881 | 5-40 | 3/8 | 100 |
| 363-A31-1P | 113440 | 6-32 | 3/8 | 100 |
| 363-A32-1Y | 118904 | 8-32 | 1/2 | 100 |
| 363-A33-1C | 118872 | 8-32 | 1/4 | 100 |
| 363-A35-1T | 118888 | 8-32 | 3/8 | 100 |
| 363-A36-1K | 112557 | 10-24 | 1 | 100 |
| 363-A38-1M | 112524 | 10-24 | 3/4 | 50 |
| 363-A40-1M | 112508 | 10-24 | 5/8 | 100 |
| 363-A48-1K | 107950 | 1/2-13 | 1-1/2 | 50 |
| 363-A49-1W | 102703 | 1/2-13 | 1-1/4 | 50 |
| 363-A50-1K | 108016 | 1/2-13 | 1-3/4 | 50 |
| 363-A51-1W | 102464 | 1/2-13 | 2 | 50 |
| 363-A52-1M | 105256 | 1/4-20 | 1 | 100 |
| 363-A54-1A | 105272 | 1/4-20 | 1-1/4 | 100 |
| 363-A58-1N | 105248 | 1/4-20 | 1/2 | 100 |
| 363-A62-1K | 108954 | 1/4-20 | 3/4 | 100 |
| 363-A63-1W | 108937 | 1/4-20 | 5/8 | 100 |
| 363-A64-1M | 108969 | 1/4-20 | 7/8 | 100 |
| 363-A70-1Y | 110048 | 3/8-16 | 1 | 100 |
| 363-A71-1C | 115710 | 3/8-16 | 1-1/2 | 100 |
| 363-A72-1N | 110065 | 3/8-16 | 1-1/4 | 100 |
| 363-A75-1W | 110015 | 3/8-16 | 3/4 | 50 |
| 363-A77-1X | 104071 | 5/16-18 | 1 | 100 |
| 363-A78-1A | 104104 | 5/16-18 | 1-1/2 | 100 |
| 363-A79-1P | 104088 | 5/16-18 | 1-1/4 | 100 |
| 363-A83-1C | 118436 | 5/16-18 | 3/4 | 100 |
| 366-W56-1X | 106365 | M5 | 0.8x10 | 200 |
| 366-W64-1T | 103516 | M6 | 1x30 | 200 |

### UNF - FULL THREAD

| SPAENAUR No. | MFG No. | THREAD SIZE | LENGTH | PKG QTY. |
|---|---|---|---|---|
| 363-A41-1X | 117814 | 10-32 | 1 | 100 |
| 363-A42-1A | 117749 | 10-32 | 1/2 | 100 |
| 363-A44-1Y | 117781 | 10-32 | 3/4 | 100 |
| 363-A45-1C | 117733 | 10-32 | 3/8 | 100 |
| 363-A46-1N | 117765 | 10-32 | 5/8 | 100 |
| 363-A47-1T | 117798 | 10-32 | 7/8 | 100 |
| 363-A65-1X | 111503 | 1/4-28 | 1 | 100 |
| 363-A66-1A | 117913 | 1/4-28 | 1/2 | 100 |
| 363-A68-1Y | 111471 | 1/4-28 | 3/4 | 100 |
| 363-A69-1C | 111487 | 1/4-28 | 7/8 | 100 |
| 363-A76-1M | 110950 | 3/8-24 | 1-1/4 | 100 |

### UNC - FULL THREAD

| SPAENAUR No. | MFG No. | THREAD SIZE | LENGTH | PKG QTY. |
|---|---|---|---|---|
| 363-A34-1N | 106645 | 8-32 | 3/8 | 100 |
| 363-A37-1W | 102058 | 10-24 | 1/2 | 100 |
| 363-A39-1X | 102042 | 10-24 | 3/8 | 100 |
| 363-A56-1Y | 110416 | 1/4-20 | 1/2 | 100 |
| 363-A57-1C | 105289 | 1/4-20 | 1/2 | 100 |
| 363-A60-1N | 105352 | 1/4-20 | 3/4 | 100 |
| 363-A61-1T | 118658 | 1/4-20 | 1 | 100 |
| 363-A82-1Y | 119517 | 5/16-18 | 3/4 | 100 |

### UNF - FULL THREAD

| SPAENAUR No. | MFG No. | THREAD SIZE | LENGTH | PKG QTY. |
|---|---|---|---|---|
| 363-A43-1P | 111889 | 10-32 | 1/2 | 100 |
| 363-A67-1P | 104322 | 1/4-28 | 3/4 | 100 |



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# SOCKET HEAD CAP SCREWS - TORQUE DATA - 1960 SERIES





## TORQUE-TENSION TIGHTENING TORQUE DATA

| NOMINAL SIZE | BASIC SCREW DIAMETER | TENSION INDUCED IN SCREWS TORQUED AS RECOMMENDED (LBS.) | | RECOMMENDED TIGHTENING TORQUE (INCH/LBS.)* | |
|---|---|---|---|---|---|
| | | **UNRC** | **UNRF** | **UNRC** | **UNRF** |
| 0 | 0.0600 | – | 190 | – | 2.6 |
| 1 | 0.0730 | 280 | 290 | 4.5 | 4.8 |
| 2 | 0.0860 | 390 | 410 | 7.5 | 8.0 |
| 3 | 0.0990 | 510 | 550 | 11.0 | 12.0 |
| 4 | 0.1120 | 630 | 690 | 16.0 | 18.0 |
| 5 | 0.1250 | 830 | 870 | 24.0 | 24.0 |
| 6 | 0.1380 | 950 | 1,070 | 30.0 | 34.0 |
| 8 | 0.1640 | 1,460 | 1,550 | 55.0 | 58.0 |
| 10 | 0.1900 | 1,840 | 2,100 | 79.0 | 90.0 |
| 1/4" | 0.2500 | 3,530 | 4,040 | 200.0 | 230.0 |
| 5/16" | 0.3125 | 5,820 | 6,450 | 415.0 | 460.0 |
| 3/8" | 0.3750 | 8,620 | 9,770 | 740.0 | 845.0 |
| 7/16" | 0.4375 | 11,830 | 13,180 | 1,190.0 | 1,305.0 |
| 1/2" | 0.500 | 15,760 | 17,800 | 1,800.0 | 2,065.0 |
| 5/8" | 0.6250 | 23,740 | 26,890 | 3,400.0 | 3,800.0 |
| 3/4" | 0.7500 | 35,080 | 39,150 | 6,000.0 | 6,750.0 |
| 7/8" | 0.8750 | 41,590 | 45,830 | 8,250.0 | 9,200.0 |
| 1" | 1.0000 | 54,350 | 59,662 | 12,500.0 | 13,000.0 |
| 1-1/4" | 1.2500 | 87,225 | 96,600 | 25,000.0 | 27,750.0 |
| 1-1/2" | 1.5000 | 126,450 | 142,280 | 43,500.0 | 49,000.0 |

*These tightening torque values are 75% of the torque required to yield the screw, and apply only for the conditions listed below.
Different percentages of torque-to-yield values are also commonly used for special conditions.

## NOTES FOR CHART

These are average values for standard Holo-Krome 1960 Series Alloy Steel Socket Cap Screws with black finish, tested with hardened steel plates, and hardened nuts with the threads and bearing areas lubricated with plain, medium viscosity machine oil.

The relationship between the torque and the induced tension (preload) can be expressed by the empirical formula T= KDP, in which T is the tightening torque in inch pounds; D is the nominal diameter of the screw; P is the tension (in pounds) induced in the screw; and K is the torque coefficient. The torque coefficient is not constant but varies with the material, surface finish and lubricity of the threads and head bearing area of the screws and parts fastened.

For the conditions shown above (standard alloy steel black finished screws clamping hardened steel parts), K will range from 0.19 to 0.25. For cadmium plated screws with steel parts, K will usually fall between 0.13 and 0.17. For zinc plated screws K may fall between 0.30 and 0.34. When the thread and head bearing surfaces are covered with certain types of lubricants, or with anti-seize compounds, K can drop as low as 0.05. At the other extreme, combinations of certain materials, such as austenitic stainless steel screws and parts not lubricated or coated, can result in K values as high as 0.35, or more.

Because the induced tension can vary considerably from one type of assembly to another for any given torque, the above data should be used with caution – particularly in applications where the control of preload is critical and must be obtained by the torque wrench method. For such applications, the relationship between torque and induced tension should be determined experimentally for the actual parts and lubrication practice involved.

TIGHTENING TORQUES. At the tightening torques listed standard Holo-Krome alloy steel 1960 Series screws, used under the conditions described, will be preloaded to approximately 75% of the tension induced at yield. The bearing stress under the head at these preloads will be approximately 80,000 psi, so indentation should not occur when the parts clamped are of steel or cast iron with a hardness equal to or in excess of Rockwell B 85. With softer materials, washers may be required under the heads of the screws to avoid indentation.

**In applications where screws are subject to fatigue from dynamic loading, the importance of proper preloading during assembly cannot be overemphasized.** The proper preload is especially important for rigid-type (metal-to-metal) joints, where it has been found that the use of a preload greater than the external load will usually eliminate the possibility of fatigue failure. For this reason, the preferred practice for such assemblies is to preload to 75% of the induced tension at yield.

FOR FLEXIBLE TYPE JOINTS, HOWEVER, AND FOR ASSEMBLIES EXPOSED TO ELEVATED TEMPERATURES, MUCH LOWER PRELOADS MAY BE REQUIRED. No general recommendations are possible for such assemblies or service conditions. Each application must be analysed individually, because the preload requirements may vary considerably from one application to another. Users who desire suggestions for the preload or tightening torque to be used for a specific application are invited to contact your Spaenaur Sales Representative.





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# Socket Head Cap Screws

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

## UNRC COARSE THREAD SERIES - 1960 SERIES

HEAT TREATED ALLOY STEEL • UNIFIED 3A THREAD FIT
MEETS ASME B18.3 AND ASTM A574

For Thread Lengths see chart on page B183.

Sold in full packages only.

B

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **#2 - 56** | 3/16" | **HK358-001** | 100 |
| | 1/4" | **HK358-002** | 100 |
| | 3/8" | **HK358-003** | 100 |
| 5/64" Key | 1/2" | **HK358-004** | 100 |
| **#3 - 48** | 3/16" | **HK358-005** | 100 |
| | 1/4" | **HK358-006** | 100 |
| | 3/8" | **HK358-007** | 100 |
| 5/64" Key | 1/2" | **HK358-008** | 100 |
| **#4 - 40** | 3/16" | **HK358-632** | 100 |
| | 1/4" | **HK358-009** | 100 |
| | 5/16" | **HK358-633** | 100 |
| 3/32" Key | 3/8" | **HK358-010** | 100 |
| | 1/2" | **HK358-011** | 100 |
| | 5/8" | **HK358-012** | 100 |
| | 3/4" | **HK358-013** | 100 |
| | 7/8" | **HK358-634** | 100 |
| | 1" | **HK358-014** | 100 |
| | 1-1/4" | **HK358-635** | 100 |
| **#5 - 40** | 1/4" | **HK358-015** | 100 |
| | 5/16" | **HK358-636** | 100 |
| | 3/8" | **HK358-016** | 100 |
| 3/32" Key | 1/2" | **HK358-017** | 100 |
| | 3/4" | **HK358-019** | 100 |
| **#6 - 32** | 5/16" | **HK358-638** | 100 |
| | 3/8" | **HK358-021** | 100 |
| 7/64" Key | 1/2" | **HK358-022** | 100 |
| | 5/8" | **HK358-023** | 100 |
| | 3/4" | **HK358-024** | 100 |
| | 7/8" | **HK358-025** | 100 |
| | 1" | **HK358-026** | 100 |
| | 1-1/4" | **HK358-027** | 100 |
| | 1-1/2" | **HK358-028** | 100 |
| | 1-3/4" | **HK358-639** | 100 |
| | 2" | **HK358-640** | 100 |

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **#8 - 32** | 1/4" | **HK358-029** | 100 |
| | 5/16" | **HK358-641** | 100 |
| | 3/8" | **HK358-030** | 100 |
| 9/64" Key | 1/2" | **HK358-031** | 100 |
| | 5/8" | **HK358-032** | 100 |
| | 3/4" | **HK358-033** | 100 |
| | 7/8" | **HK358-034** | 100 |
| | 1" | **HK358-035** | 100 |
| | 1-1/4" | **HK358-036** | 100 |
| | 1-1/2" | **HK358-037** | 100 |
| | 1-3/4" | **HK358-642** | 100 |
| | 2" | **HK358-643** | 100 |
| | 2-1/2" | **HK358-644** | 100 |
| **#10 - 24** | 1/4" | **HK358-645** | 100 |
| | 1/2" | **HK358-039** | 100 |
| 5/32" Key | 5/8" | **HK358-040** | 100 |
| | 3/4" | **HK358-041** | 100 |
| | 7/8" | **HK358-042** | 100 |
| | 1" | **HK358-043** | 100 |
| | 1-1/4" | **HK358-044** | 100 |
| | 1-1/2" | **HK358-045** | 100 |
| | 1-3/4" | **HK358-046** | 100 |
| | 2-1/4" | **HK358-048** | 100 |
| | 2-1/2" | **HK358-049** | 100 |
| | 2-3/4" | **HK358-646** | 100 |
| | 3" | **HK358-647** | 100 |
| **1/4"- 20** | 1/4" | **HK358-648** | 100 |
| | 3/8" | **HK358-050** | 100 |
| | 1/2" | **HK358-051** | 100 |
| 3/16" Key | 5/8" | **HK358-052** | 100 |
| | 3/4" | **HK358-053** | 100 |
| | 1" | **HK358-055** | 100 |
| | 1-1/4" | **HK358-056** | 100 |
| | 1-1/2" | **HK358-057** | 100 |
| | 2" | **HK358-059** | 100 |
| | 2-1/2" | **HK358-061** | 100 |
| | 2-3/4" | **HK358-062** | 100 |
| | 3" | **HK358-063** | 100 |
| | 3-1/4" | **HK358-649** | 100 |
| | 3-1/2" | **HK358-064** | 100 |
| | 4" | **HK358-065** | 100 |
| | 4-1/2" | **HK358-651** | 50 |

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **5/16"-18** | 5/8" | **HK358-068** | 100 |
| 1/4" Key | 3/4" | **HK358-069** | 100 |
| | 7/8" | **HK358-070** | 100 |
| | 1-3/4" | **HK358-074** | 100 |
| | 2" | **HK358-075** | 100 |
| | 2-1/4" | **HK358-076** | 100 |
| | 2-1/2" | **HK358-077** | 100 |
| | 2-3/4" | **HK358-078** | 100 |
| | 3" | **HK358-079** | 100 |
| | 3-1/4" | **HK358-080** | 50 |
| | 3-1/2" | **HK358-081** | 50 |
| | 3-3/4" | **HK358-652** | 50 |
| | 4" | **HK358-082** | 50 |
| **3/8"- 16** | 5/8" | **HK358-084** | 100 |
| 5/16" Key | 3/4" | **HK358-085** | 100 |
| | 7/8" | **HK358-086** | 100 |
| | 1-1/4" | **HK358-088** | 100 |
| | 1-1/2" | **HK358-089** | 100 |
| | 1-3/4" | **HK358-090** | 50 |
| | 2" | **HK358-091** | 50 |
| | 2-1/4" | **HK358-092** | 50 |
| | 2-3/4" | **HK358-094** | 50 |
| | 3" | **HK358-095** | 50 |
| | 3-1/4" | **HK358-096** | 50 |
| | 4" | **HK358-098** | 50 |
| | 4-1/2" | **HK358-099** | 50 |
| | 5" | **HK358-100** | 50 |
| | 5-1/2" | **HK358-654** | 50 |
| | 6" | **HK358-101** | 50 |

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## HOLO-KROME, UNRC COARSE THREAD, 1960 SERIES ASME B18.3

| DIA., Threads per Inch and Key Size | LGTH. Under Head | SPAENAUR No. | PKG QTY. |
|---|---|---|---|
| **7/16"- 14** | 3/4" | **HK358-104** | 100 |
| 3/8" Key | 7/8" | **HK358-105** | 100 |
| | 1" | **HK358-106** | 100 |
| | 1-1/4" | **HK358-107** | 50 |
| | 1-3/4" | **HK358-109** | 50 |
| | 2" | **HK358-110** | 50 |
| | 2-1/4" | **HK358-111** | 50 |
| | 2-1/2" | **HK358-112** | 50 |
| | 2-3/4" | **HK358-113** | 25 |
| | 3" | **HK358-114** | 25 |
| | 3-1/2" | **HK358-116** | 25 |
| | 4" | **HK358-117** | 25 |
| | 4-1/2" | **HK358-655** | 25 |
| | 5" | **HK358-656** | 25 |
| **1/2"- 13** | 1/2" | **HK358-118** | 50 |
| | 5/8" | **HK358-119** | 50 |
| | 3/4" | **HK358-120** | 50 |
| 3/8" Key | 7/8" | **HK358-121** | 50 |
| | 1" | **HK358-122** | 50 |
| | 1-1/4" | **HK358-123** | 50 |
| | 1-1/2" | **HK358-124** | 50 |
| | 1-3/4" | **HK358-125** | 50 |
| | 2-1/4" | **HK358-127** | 25 |
| | 2-1/2" | **HK358-128** | 25 |
| | 2-3/4" | **HK358-129** | 25 |
| | 3" | **HK358-130** | 25 |
| | 3-1/4" | **HK358-131** | 25 |
| | 3-1/2" | **HK358-132** | 25 |
| | 3-3/4" | **HK358-657** | 25 |
| | 4" | **HK358-133** | 25 |
| | 4-1/2" | **HK358-134** | 25 |
| | 5" | **HK358-135** | 25 |
| | 5-1/2" | **HK358-136** | 25 |
| | 6" | **HK358-137** | 25 |
| | 6-1/2" | **HK358-138** | 10 |
| | 7" | **HK358-139** | 10 |
| | 7-1/2" | **HK358-658** | 10 |
| | 8" | **HK358-140** | 10 |
| **5/8"- 11** | 1" | **HK358-141** | 25 |
| | 1-1/4" | **HK358-142** | 25 |
| 1/2" Key | 1-3/4" | **HK358-144** | 25 |
| | 2-1/4" | **HK358-146** | 25 |
| | 2-1/2" | **HK358-147** | 25 |
| | 2-3/4" | **HK358-148** | 25 |
| | 3" | **HK358-149** | 25 |
| | 3-1/4" | **HK358-150** | 25 |
| | 3-1/2" | **HK358-151** | 25 |
| | 4-1/2" | **HK358-153** | 20 |
| | 5" | **HK358-154** | 20 |
| | 5-1/2" | **HK358-155** | 10 |
| | 6" | **HK358-156** | 10 |
| | 6-1/2" | **HK358-157** | 10 |
| | 7" | **HK358-158** | 10 |
| | 8" | **HK358-159** | 10 |
| **3/4"- 10** | 1-1/4" | **HK358-160** | 25 |
| | 1-1/2" | **HK358-161** | 25 |
| 5/8" Key | 2-1/4" | **HK358-164** | 25 |
| | 2-1/2" | **HK358-165** | 25 |
| | 3" | **HK358-167** | 25 |
| | 3-1/4" | **HK358-168** | 25 |
| | 3-3/4" | **HK358-660** | 25 |
| | 4" | **HK358-170** | 25 |
| | 4-1/2" | **HK358-171** | 20 |
| | 5" | **HK358-172** | 20 |
| | 5-1/2" | **HK358-173** | 10 |
| | 6" | **HK358-174** | 10 |
| | 6-1/2" | **HK358-175** | 10 |
| | 7" | **HK358-176** | 10 |
| | 7-1/2" | **HK358-661** | 10 |
| | 8" | **HK358-177** | 10 |
| **7/8"- 9** | 2" | **HK358-178** | 10 |
| | 2-1/4" | **HK358-179** | 10 |
| | 2-1/2" | **HK358-180** | 10 |
| 3/4" Key | 2-3/4" | **HK358-181** | 10 |
| | 3" | **HK358-182** | 10 |
| | 3-1/4" | **HK358-183** | 10 |
| | 3-1/2" | **HK358-184** | 10 |
| | 4" | **HK358-185** | 10 |
| | 4-1/2" | **HK358-186** | 10 |
| | 5" | **HK358-187** | 10 |
| | 5-1/2" | **HK358-188** | 10 |
| | 6" | **HK358-189** | 10 |
| | 7" | **HK358-191** | 10 |
| | 8" | **HK358-192** | 10 |
| **1"- 8** | 1-3/4" | **HK358-662** | 10 |
| | 2" | **HK358-193** | 10 |
| | 2-1/4" | **HK358-194** | 10 |
| 3/4" Key | 2-1/2" | **HK358-195** | 10 |
| | 2-3/4" | **HK358-196** | 10 |
| | 3" | **HK358-197** | 10 |
| | 3-3/4" | **HK358-663** | 10 |
| | 4" | **HK358-200** | 10 |
| | 4-1/2" | **HK358-201** | 10 |
| | 5-1/2" | **HK358-203** | 10 |
| | 6" | **HK358-204** | 10 |
| | 6-1/2" | **HK358-205** | 10 |
| | 7" | **HK358-206** | 10 |
| | 7-1/2" | **HK358-664** | 10 |
| | 8" | **HK358-207** | 10 |
| **1-1/4"- 7** | 3" | **HK358-209** | 1 |
| | 3-1/2" | **HK358-210** | 1 |
| | 4" | **HK358-211** | 1 |
| | 4-1/2" | **HK358-212** | 1 |
| | 5" | **HK358-213** | 1 |
| | 5-1/2" | **HK358-214** | 1 |
| Class | 6" | **HK358-215** | 1 |
| 2A | 6-1/2" | **HK358-216** | 1 |
| Threads | 7" | **HK358-217** | 1 |
| 7/8" Key | 8" | **HK358-218** | 1 |
| | 9" | **HK358-219** | 1 |
| | 10" | **HK358-220** | 1 |
| | 11" | **HK358-665** | 1 |
| **1-1/2"- 6** | 3-1/2" | **HK358-223** | 1 |
| | 4" | **HK358-224** | 1 |
| | 4-1/2" | **HK358-225** | 1 |
| | 5" | **HK358-226** | 1 |
| | 5-1/2" | **HK358-227** | 1 |
| Class | 6" | **HK358-228** | 1 |
| 2A | 6-1/2" | **HK358-229** | 1 |
| Threads | 7" | **HK358-230** | 1 |
| 1" Key | 8" | **HK358-231** | 1 |





See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers



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# Socket Head Cap Screws

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

## UNRF FINE THREAD SERIES • 1960 SERIES

HEAT TREATED ALLOY STEEL • UNIFIED 3A THREAD FIT
MEETS ASME B18.3 AND ASTM A574

For Thread Lengths see chart on page B183.

Sold in full packages only.



| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **#0 - 80** .050" Key | 3/16" | **HK358-236** | 100 |
| | 1/4" | **HK358-237** | 100 |
| | 3/8" | **HK358-238** | 100 |
| **#1 - 72** 1/16" Key | 1/4" | **HK358-241** | 100 |
| | 3/8" | **HK358-242** | 100 |
| **#6 - 40** 7/64" Key | 1/4" | **HK358-243** | 100 |
| | 3/8" | **HK358-244** | 100 |
| | 1/2" | **HK358-245** | 100 |
| | 5/8" | **HK358-246** | 100 |
| **#8 - 36** 9/64" Key | 3/8" | **HK358-248** | 100 |
| | 1/2" | **HK358-249** | 100 |
| | 3/4" | **HK358-250** | 100 |
| **#10 - 32** 5/32" Key | 1/4" | **HK358-666** | 100 |
| | 3/8" | **HK358-251** | 100 |
| | 5/16" | **HK358-667** | 100 |
| | 5/8" | **HK358-253** | 100 |
| | 3/4" | **HK358-254** | 100 |
| | 7/8" | **HK358-255** | 100 |
| | 1" | **HK358-256** | 100 |
| | 1-1/4" | **HK358-257** | 100 |
| | 1-1/2" | **HK358-258** | 100 |
| | 2" | **HK358-260** | 100 |
| | 2-1/4" | **HK358-261** | 100 |
| | 2-1/2" | **HK358-262** | 100 |
| | 2-3/4" | **HK358-668** | 100 |
| | 3" | **HK358-263** | 100 |
| **1/4"- 28** 3/16" Key | 1/4" | **HK358-669** | 100 |
| | 3/8" | **HK358-264** | 100 |
| | 5/8" | **HK358-266** | 100 |
| | 3/4" | **HK358-267** | 100 |
| | 7/8" | **HK358-268** | 100 |
| | 1" | **HK358-269** | 100 |
| | 1-1/4" | **HK358-270** | 100 |
| | 1-1/2" | **HK358-271** | 100 |
| | 1-3/4" | **HK358-272** | 100 |
| | 2" | **HK358-273** | 100 |
| | 2-1/4" | **HK358-274** | 100 |

…Continued

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **1/4"-28** 1/4" Key | 2-1/2" | **HK358-670** | 100 |
| | 3" | **HK358-671** | 100 |
| | 4" | **HK358-672** | 100 |
| **5/16"- 24** 1/4" Key | 1/2" | **HK358-275** | 100 |
| | 5/8" | **HK358-276** | 100 |
| | 3/4" | **HK358-277** | 100 |
| | 7/8" | **HK358-278** | 100 |
| | 1-3/4" | **HK358-282** | 100 |
| | 2" | **HK358-283** | 100 |
| | 2-1/4" | **HK358-284** | 100 |
| | 2-1/2" | **HK358-285** | 100 |
| | 3" | **HK358-673** | 100 |
| | 3-1/2" | **HK358-674** | 50 |
| | 4" | **HK358-675** | 50 |
| **3/8"- 24** 5/16" Key | 1/2" | **HK358-286** | 100 |
| | 3/4" | **HK358-288** | 100 |
| | 7/8" | **HK358-289** | 100 |
| | 1-1/4" | **HK358-291** | 100 |
| | 1-1/2" | **HK358-292** | 100 |
| | 1-3/4" | **HK358-293** | 50 |
| | 2-1/4" | **HK358-295** | 50 |
| | 2-1/2" | **HK358-296** | 50 |
| | 2-3/4" | **HK358-676** | 50 |
| | 3" | **HK358-297** | 50 |
| | 3-1/2" | **HK358-677** | 50 |
| | 4" | **HK358-678** | 50 |
| | 4-1/2" | **HK358-679** | 50 |
| | 5" | **HK358-680** | 50 |
| | 5-1/2" | **HK358-681** | 50 |
| | 6" | **HK358-682** | 50 |
| **7/16"- 20** 3/8" Key | 1" | **HK358-298** | 100 |
| | 1-1/4" | **HK358-299** | 50 |
| | 1-1/2" | **HK358-300** | 50 |
| | 2" | **HK358-301** | 50 |
| | 2-1/2" | **HK358-683** | 50 |
| | 3" | **HK358-684** | 25 |
| | 3-1/2" | **HK358-685** | 25 |
| **1/2"- 20** 3/8" Key | 3/4" | **HK358-686** | 50 |
| | 1" | **HK358-302** | 50 |
| | 1-1/4" | **HK358-303** | 50 |
| | 1-1/2" | **HK358-304** | 50 |

…Continued

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **1/2"- 20** 3/8" Key | 1-3/4" | **HK358-305** | 50 |
| | 2" | **HK358-306** | 50 |
| | 2-1/4" | **HK358-307** | 25 |
| | 2-1/2" | **HK358-308** | 25 |
| | 2-3/4" | **HK358-687** | 25 |
| | 3" | **HK358-309** | 25 |
| | 3-1/2" | **HK358-688** | 25 |
| | 4" | **HK358-689** | 25 |
| | 4-1/2" | **HK358-690** | 25 |
| | 5" | **HK358-691** | 25 |
| | 5-1/2" | **HK358-692** | 25 |
| | 6" | **HK358-693** | 25 |
| **5/8"- 18** 1/2" Key | 1" | **HK358-310** | 25 |
| | 1-1/4" | **HK358-311** | 25 |
| | 1-1/2" | **HK358-312** | 25 |
| | 1-3/4" | **HK358-313** | 25 |
| | 2" | **HK358-314** | 25 |
| | 2-1/4" | **HK358-694** | 25 |
| | 2-1/2" | **HK358-315** | 25 |
| | 2-3/4" | **HK358-695** | 25 |
| | 3" | **HK358-696** | 25 |
| | 3-1/2" | **HK358-697** | 25 |
| | 4" | **HK358-698** | 25 |
| | 4-1/2" | **HK358-699** | 20 |
| | 5" | **HK358-784** | 20 |
| **3/4"- 16** 5/8" Key | 1-1/4" | **HK358-785** | 25 |
| | 1-1/2" | **HK358-786** | 25 |
| | 1-3/4" | **HK358-787** | 25 |
| | 2" | **HK358-788** | 25 |
| | 2-1/4" | **HK358-789** | 25 |
| | 2-1/2" | **HK358-790** | 25 |
| | 2-3/4" | **HK358-791** | 25 |
| | 3" | **HK358-792** | 25 |
| | 3-1/2" | **HK358-793** | 25 |
| | 3-3/4" | **HK358-1633** | 25 |
| | 4" | **HK358-794** | 25 |
| | 4-1/2" | **HK358-795** | 25 |
| | 5" | **HK358-796** | 25 |
| | 5-1/2" | **HK358-797** | 10 |
| | 6" | **HK358-798** | 10 |
| | 7" | **HK358-799** | 10 |
| | 8" | **HK358-800** | 10 |





For Hex Keys see pages P2-P12

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Standard Holo-Krome Alloy Steel Socket Head Cap Screws are manufactured from Holo-Krome analysis high grade alloy steel hardened and tempered to provide the following mechanical properties.



| NOMINAL SIZES | TENSILE STRENGTH psi MIN. | YIELD STRENGTH psi MIN. | ELONGATION* IN 2 INCHES PERCENT MIN. | REDUCTION OF AREA* PERCENT MIN. | MINIMUM HARDNESS ROCKWELL C |
|---|---|---|---|---|---|
| 0 to 1/2 | 180,000 | 162,000 | 8 | 35 | 39 |
| Over 1/2 | 170,000 | 153,000 | 10 | 40 | 37 |

* The values for elongation and reduction of area apply only to cylindrical test specimens.
Values are based on ASTM A-574

## CAUTION: IMPROPER LOADING OF THESE FASTENERS WILL CAUSE FAILURES

## TENSILE, YIELD AND SHEAR STRENGTH

| NOMINAL SIZE | BASIC SCREW DIAMETER | THREAD STRESS AREA | | STRAIGHT TENSILE STRENGTH (POUNDS MIN.) | | STRAIGHT YIELD STRENGTH (POUNDS MIN.) | | SINGLE SHEAR STRENGTH (POUNDS MIN.) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | BODY | THREAD SECTION | |
| | | UNRC | UNRF | UNRC | UNRF | UNRC | UNRF | SECTION | UNRC | UNRF |
| 0 | 0.0600 | – | 0.00180 | – | 320 | – | 290 | 305 | – | 205 |
| 1 | 0.0730 | 0.00263 | 0.00278 | 475 | 500 | 425 | 450 | 450 | 290 | 315 |
| 2 | 0.0860 | 0.00370 | 0.00394 | 665 | 710 | 600 | 635 | 625 | 405 | 445 |
| 3 | 0.0990 | 0.00487 | 0.00523 | 875 | 940 | 790 | 845 | 830 | 535 | 595 |
| 4 | 0.1120 | 0.00604 | 0.00661 | 1,090 | 1,190 | 975 | 1,070 | 1,060 | 665 | 750 |
| 5 | 0.1250 | 0.00796 | 0.00830 | 1,430 | 1,490 | 1,290 | 1,345 | 1,325 | 875 | 940 |
| 6 | 0.1380 | 0.00909 | 0.01015 | 1,640 | 1,825 | 1,470 | 1,645 | 1,615 | 1,000 | 1,150 |
| 8 | 0.1640 | 0.0140 | 0.01474 | 2,520 | 2,650 | 2,270 | 2,385 | 2,280 | 1,535 | 1,670 |
| 10 | 0.1900 | 0.0175 | 0.0200 | 3,150 | 3,600 | 2,835 | 3,240 | 3,060 | 1,920 | 2,270 |
| 1/4 | 0.2500 | 0.0318 | 0.0364 | 5,725 | 6,550 | 5,150 | 5,900 | 5,295 | 3,495 | 4,130 |
| 5/16 | 0.3125 | 0.0524 | 0.0580 | 9,430 | 10,440 | 8,490 | 9,395 | 8,285 | 5,750 | 6,575 |
| 3/8 | 0.3750 | 0.0775 | 0.0878 | 13,950 | 15,805 | 12,555 | 14,225 | 11,910 | 8,510 | 9,950 |
| 7/16 | 0.4375 | 0.1063 | 0.1187 | 19,135 | 21,365 | 17,220 | 19,230 | 16,200 | 11,650 | 13,445 |
| 1/2 | 0.5000 | 0.1419 | 0.1599 | 25,540 | 28,780 | 22,990 | 25,905 | 21,175 | 15,656 | 18,105 |
| 5/8 | 0.6250 | 0.226 | 0.256 | 38,400 | 43,500 | 34,550 | 39,150 | 31,300 | 23,450 | 27,400 |
| 3/4 | 0.7500 | 0.334 | 0.373 | 56,750 | 63,400 | 51,100 | 57,050 | 45,050 | 34,650 | 39,650 |
| 7/8 | 0.8750 | 0.462 | 0.509 | 78,500 | 86,500 | 70,700 | 77,850 | 61,350 | 47,900 | 54,500 |
| 1 | 1.0000 | 0.606 | 0.663 | 103,000 | 112,700 | 92,700 | 101,450 | 80,100 | 62,850 | 71,000 |
| 1-1/4 | 1.2500 | 0.969 | 1.073 | 164,700 | 182,400 | 148,250 | 164,150 | 125,100 | 100,500 | 114,900 |
| 1-1/2 | 1.5000 | 1.405 | 1.581 | 238,800 | 268,800 | 214,950 | 241,900 | 180,200 | 145,700 | 169,300 |

### NOTES FOR CHART

The mechanical properties listed are for standard screws tested at normal room temperatures. In applications where the temperatures are considerably above or below room temperature the effect of the temperature on the screw strength must be considered. Short time tensile, creep and stress relaxation should be considered for applications where the temperature exceeds 400°F **(204°C)**. Lower ductility, impact strength and fatigue life must be considered for screws subject to temperatures below -20°F **(-29°C)**.

The materials and heat treatment used for standard Holo-Krome Alloy Socket Head Cap Screws were selected to provide products that would have optimum tensile strength, impact strength and fatigue life. For specific applications, screws can be supplied to higher hardness levels so that their tensile strength will exceed values listed. However, such screws will have lower ductility, impact strength and fatigue life at higher stress levels than will standard screws.





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# Socket Head Cap Screws
## Zinc and Clear Chromate - UNRC

For Thread Lengths see chart on page B183.

HEAT TREATED ALLOY STEEL
Meets ASME B18.3 and
ASTM A574 Before Plating
Sold in full packages only.

B

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **#4 - 40** | 1/4" | **HK358-700** | 100 |
| | 3/8" | **HK358-701** | 100 |
| | 1/2" | **HK358-702** | 100 |
| 3/32" Key | 5/8" | **HK358-703** | 100 |
| | 3/4" | **HK358-704** | 100 |
| **#6 - 32** | 1/4" | **HK358-710** | 100 |
| | 3/8" | **HK358-711** | 100 |
| | 1/2" | **HK358-712** | 100 |
| 7/64" Key | 5/8" | **HK358-713** | 100 |
| | 3/4" | **HK358-714** | 100 |
| | 7/8" | **HK358-715** | 100 |
| | 1" | **HK358-801** | 100 |
| **#8 - 32** | 1/4" | **HK358-716** | 100 |
| | 3/8" | **HK358-717** | 100 |
| | 1/2" | **HK358-718** | 100 |
| 9/64" Key | 5/8" | **HK358-719** | 100 |
| | 1" | **HK358-722** | 100 |
| | 1-1/4" | **HK358-802** | 100 |
| | 1-1/2" | **HK358-803** | 100 |
| **#10 - 24** | 3/8" | **HK358-723** | 100 |
| | 1/2" | **HK358-724** | 100 |
| | 5/8" | **HK358-725** | 100 |
| 5/32" Key | 3/4" | **HK358-726** | 100 |
| | 1" | **HK358-728** | 100 |
| | 1-1/4" | **HK358-729** | 100 |
| | 1-1/2" | **HK358-730** | 100 |
| **1/4"- 20** | 1/4" | **HK358-804** | 100 |
| | 3/8" | **HK358-746** | 100 |
| | 1/2" | **HK358-747** | 100 |
| 3/16" Key | 5/8" | **HK358-748** | 100 |
| | 3/4" | **HK358-749** | 100 |
| | 7/8" | **HK358-750** | 100 |
| | 1" | **HK358-751** | 100 |
| | 1-1/4" | **HK358-752** | 100 |
| | 1-1/2" | **HK358-753** | 100 |
| | 1-3/4" | **HK358-754** | 100 |
| | 2" | **HK358-755** | 100 |
| | 2-1/4" | **HK358-756** | 100 |
| | 2-1/2" | **HK358-757** | 100 |
| | 3" | **HK358-758** | 100 |
| | 4" | **HK358-807** | 100 |

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **5/16"- 18** | 1/2" | **HK358-760** | 100 |
| | 5/8" | **HK358-761** | 100 |
| 1/4" Key | 3/4" | **HK358-762** | 100 |
| | 7/8" | **HK358-808** | 100 |
| | 1" | **HK358-763** | 100 |
| | 1-1/4" | **HK358-764** | 100 |
| | 1-1/2" | **HK358-765** | 100 |
| | 1-3/4" | **HK358-766** | 100 |
| | 2" | **HK358-767** | 100 |
| | 2-1/4" | **HK358-768** | 100 |
| | 2-1/2" | **HK358-769** | 100 |
| | 3" | **HK358-770** | 100 |
| | 3-1/2" | **HK358-771** | 50 |
| **3/8"- 16** | 1/2" | **HK358-772** | 100 |
| | 3/4" | **HK358-774** | 100 |
| 5/16" Key | 7/8" | **HK358-811** | 100 |
| | 1-1/4" | **HK358-776** | 100 |
| | 1-1/2" | **HK358-777** | 100 |
| | 2" | **HK358-779** | 50 |
| | 2-1/4" | **HK358-780** | 50 |
| | 2-1/2" | **HK358-781** | 50 |
| | 3" | **HK358-782** | 50 |
| | 4" | **HK358-814** | 50 |
| **1/2"- 13** | 1" | **HK358-836** | 50 |
| | 1-1/4" | **HK358-837** | 50 |
| 3/8" Key | 1-1/2" | **HK358-838** | 50 |
| | 2" | **HK358-840** | 50 |
| | 2-1/2" | **HK358-842** | 25 |
| | 3" | **HK358-844** | 25 |
| | 4" | **HK358-847** | 25 |
| | 4-1/2" | **HK358-848** | 25 |
| **5/8"- 11** | 1-1/4" | **HK358-856** | 25 |
| | 1-1/2" | **HK358-857** | 25 |
| 1/2" Key | 2" | **HK358-859** | 25 |
| | 2-1/2" | **HK358-861** | 25 |
| | 4" | **HK358-866** | 25 |

For Hex Keys see pages P2-P12.
See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers.





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# Flat Head Cap Screws

## UNRC COARSE THREAD

### Thread Length Chart

| Screw Dia. | Thread Lengths Min. | Max. |
|---|---|---|
| #2 | 0.62 | 0.80 |
| #3 | 0.62 | 0.83 |
| #4 | 0.75 | 0.99 |
| #5 | 0.75 | 1.00 |
| #6 | 0.75 | 1.05 |
| #8 | 0.88 | 1.19 |
| #10 | 0.88 | 1.27 |
| 1/4" | 1.00 | 1.50 |
| 5/16" | 1.12 | 1.71 |
| 3/8" | 1.25 | 1.94 |

| Screw Dia. | Thread Lengths Min. | Max. |
|---|---|---|
| 7/16" | 1.38 | 2.17 |
| 1/2" | 1.50 | 2.38 |
| 5/8" | 1.75 | 2.82 |
| 3/4" | 2.00 | 3.25 |
| 7/8" | 2.25 | 3.69 |
| 1" | 2.50 | 4.12 |
| 1-1/8" | 2.82 | 4.65 |
| 1-1/4" | 3.12 | 5.09 |
| 1-3/8" | 3.44 | 5.65 |
| 1-1/2" | 3.75 | 6.08 |

HEAT TREATED ALLOY STEEL • UNIFIED 3A THREAD FIT
MEETS ASME B18.3 AND ASTM F835

Sold in full packages only.

| DIA., Threads per Inch and Key Size | Overall LENGTH | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **#4 - 40** | 1/4" | **HK358-348** | 100 |
| | 3/8" | **HK358-349** | 100 |
| | 1/2" | **HK358-350** | 100 |
| 1/16" Key | 5/8" | **HK358-351** | 100 |
| | 3/4" | **HK358-352** | 100 |
| **#5 - 40** | 1/4" | **HK358-353** | 100 |
| | 3/8" | **HK358-354** | 100 |
| | 1/2" | **HK358-355** | 100 |
| 5/64" Key | 5/8" | **HK358-356** | 100 |
| | 3/4" | **HK358-357** | 100 |
| **#6 - 32** | 1/4" | **HK358-358** | 100 |
| | 3/8" | **HK358-359** | 100 |
| | 1/2" | **HK358-360** | 100 |
| 5/64" Key | 5/8" | **HK358-361** | 100 |
| | 3/4" | **HK358-362** | 100 |
| **#8 - 32** | 3/8" | **HK358-363** | 100 |
| | 5/8" | **HK358-365** | 100 |
| 3/32" Key | 3/4" | **HK358-366** | 100 |
| | 1" | **HK358-367** | 100 |
| **#10 - 24** | 3/8" | **HK358-368** | 100 |
| | 1/2" | **HK358-369** | 100 |
| | 5/8" | **HK358-370** | 100 |
| 1/8" Key | 3/4" | **HK358-371** | 100 |
| | 1" | **HK358-372** | 100 |
| | 1-1/4" | **HK358-373** | 100 |
| | 1-1/2" | **HK358-374** | 100 |

| DIA., Threads per Inch and Key Size | Overall LENGTH | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **1/4"- 20** | 3/8" | **HK358-375** | 100 |
| | 5/8" | **HK358-377** | 100 |
| 5/32" Key | 3/4" | **HK358-378** | 100 |
| | 1-1/4" | **HK358-380** | 100 |
| | 1-3/4" | **HK358-382** | 100 |
| **5/16" - 18** | 1/2" | **HK358-384** | 100 |
| | 5/8" | **HK358-385** | 100 |
| | 3/4" | **HK358-386** | 100 |
| 3/16" Key | 1" | **HK358-387** | 100 |
| | 1-1/2" | **HK358-389** | 100 |
| | 1-3/4" | **HK358-390** | 100 |
| | 2" | **HK358-391** | 100 |
| | 2-1/4" | **HK358-392** | 100 |
| | 2-1/2" | **HK358-393** | 100 |
| **3/8"- 16** | 5/8" | **HK358-395** | 100 |
| | 3/4" | **HK358-396** | 100 |
| 7/32" Key | 1-1/4" | **HK358-398** | 100 |
| | 1-1/2" | **HK358-399** | 100 |
| | 1-3/4" | **HK358-400** | 50 |
| | 2" | **HK358-401** | 50 |
| | 2-1/4" | **HK358-402** | 50 |
| | 2-1/2" | **HK358-403** | 50 |
| | 3" | **HK358-404** | 50 |

| DIA., Threads per Inch and Key Size | Overall LENGTH | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **7/16"- 14** | 3/4" | **HK358-405** | 100 |
| | 1" | **HK358-406** | 100 |
| | 1-1/4" | **HK358-407** | 50 |
| 1/4" Key | 1-1/2" | **HK358-408** | 50 |
| **1/2"- 13** | 3/4" | **HK358-409** | 50 |
| | 1" | **HK358-410** | 50 |
| | 1-1/4" | **HK358-411** | 50 |
| 5/16" Key | 1-1/2" | **HK358-412** | 50 |
| | 1-3/4" | **HK358-413** | 50 |
| | 2" | **HK358-414** | 50 |
| | 2-1/4" | **HK358-415** | 25 |
| | 3" | **HK358-417** | 25 |
| **5/8"- 11** | 1-1/4" | **HK358-418** | 25 |
| | 1-1/2" | **HK358-419** | 25 |
| | 1-3/4" | **HK358-420** | 25 |
| 3/8" Key | 2" | **HK358-421** | 25 |
| | 2-1/4" | **HK358-422** | 25 |
| | 2-1/2" | **HK358-423** | 25 |
| | 3" | **HK358-424** | 25 |
| **3/4"- 10** | 1-1/2" | **HK358-426** | 25 |
| | 1-3/4" | **HK358-427** | 25 |
| | 2" | **HK358-428** | 25 |
| 1/2" Key | 2-1/2" | **HK358-430** | 25 |
| | 3" | **HK358-431** | 25 |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers





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# Socket Head Cap Screws
## Zinc and Clear Chromate - UNRF

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

B

HEAT TREATED ALLOY STEEL
Meets ASME/ANSI B18.3 and ASTM A574 Before Plating

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **#10 - 32** | 3/8" | **HK358-733** | 100 |
| | 1/2" | **HK358-734** | 100 |
| 5/32" Key | 5/8" | **HK358-735** | 100 |
| | 3/4" | **HK358-736** | 100 |
| | 7/8" | **HK358-737** | 100 |
| | 1" | **HK358-738** | 100 |
| | 1-1/4" | **HK358-739** | 100 |
| | 1-1/2" | **HK358-740** | 100 |
| | 2" | **HK358-742** | 100 |



Sold in full packages only.

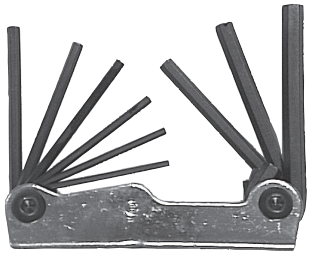
For Drive Bits and Hex Keys See Pages P2-P12

### EASY TO USE - HARD TO LOSE...

Holder handles are designed to fit the hand and are deburred and chrome plated for comfort and durability. The most popular folding hex key set. Often copied, but never equalled in quality or performance.

**3" Blades**

**4" Handle**



### Medium Handle Folding Deluxe Hex Key Set

The ideal size group by popular demand. The perfect set for tradesman or technician, do-it-yourselfer, or mechanic.

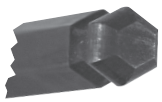
***SPAENAUR No.*** **130-322** **9-Blade Set – Inch Sizes**

Set contains sizes 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4" across flat blades.

**PKG QTY. - 1 SET**



### HEX DRIVERS with Ball End

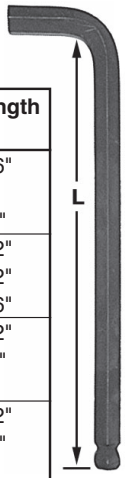


All dimensions in Inches

| *SPAENAUR No.* | KEY SIZE Width A/F | Blade Lgth. | O/A Lgth. |
|---|---|---|---|
| **876-1673** | 5/64" | 3-1/2" | 5-5/16" |
| **876-F05-1Y** | 7/64" | 2-29/32" | 5-3/32" |
| **876-1676** | 1/8" | 3-3/32" | 5-5/16" |
| **876-1677** | 9/64" | 3-5/16" | 6-3/32" |
| **876-1678** | 5/32" | 3-1/2" | 6-13/32" |
| **876-1679** | 3/16" | 3-13/16" | 7-5/16" |
| **876-1680** | 7/32" | 4-3/16" | 7-11/16" |
| **876-1681** | 1/4" | 4-11/16" | 8-13/16" |
| **876-1682** | 5/16" | 5-19/32" | 9-13/32" |
| **876-1683** | 3/8" | 6-1/2" | 10-13/32" |
| **876-1684** | 7/16" | 7-19/32" | 11-1/2" |
| **876-1685** | 1/2" | 8-1/2" | 12-1/2" |

**All Hex Drivers - PKG QTY. 1**

### HEX KEYS with Ball End




| *SPAENAUR No.* | KEY SIZE Width A/F | Blade Length Inch |
|---|---|---|
| **876-1686** | .050" | 2-13/16" |
| **876-1687** | 1/16" | 3 |
| **876-1688** | 5/64" | 3-3/16" |
| **876-1689** | 3/32" | 3-13/32" |
| **876-1690** | 7/64" | 3-19/32" |
| **876-1691** | 1/8" | 3-13/16" |
| **876-1692** | 9/64" | 3-29/32" |
| **876-1693** | 5/32" | 4-3/32" |
| **876-1694** | 3/16" | 4-1/2" |
| **876-1695** | 7/32" | 4-29/32" |
| **876-1696** | 1/4" | 5-3/16" |
| **876-1697** | 5/16" | 6 |
| **876-1698** | 3/8" | 6-13/16" |
| **876-1699** | 7/16" | 7-1/2" |
| **876-1700** | 1/2" | 8-5/16" |
| **876-1701** | 9/16" | 9 |
| **876-1702** | 5/8" | 9-13/16" |
| **876-1703** | 3/4" | 11-5/16" |



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# Flat Head Cap Screws

## UNRF FINE THREAD

Sold in full packages only.

| DIA., Threads per Inch and Key Size | Over-all LGTH. | SPAENAUR No. | PKG QTY. |
|---|---|---|---|
| **#10 - 32** | 3/8" | **HK358-432** | 100 |
| | 1/2" | **HK358-433** | 100 |
| | 5/8" | **HK358-434** | 100 |
| 1/8" Key | 3/4" | **HK358-435** | 100 |
| | 1" | **HK358-436** | 100 |
| | 1-1/4" | **HK358-437** | 100 |
| **1/4"- 28** | 3/8" | **HK358-439** | 100 |
| | 1/2" | **HK358-440** | 100 |
| | 5/8" | **HK358-441** | 100 |
| | 3/4" | **HK358-442** | 100 |
| 5/32" Key | 1" | **HK358-443** | 100 |
| | 1-1/4" | **HK358-444** | 100 |
| | 1-1/2" | **HK358-445** | 100 |
| **5/16"- 24** | 1/2" | **HK358-446** | 100 |
| | 5/8" | **HK358-447** | 100 |
| 3/16" Key | 3/4" | **HK358-448** | 100 |
| | 1" | **HK358-449** | 100 |
| | 1-1/4" | **HK358-450** | 100 |
| **3/8"- 24** | 5/8" | **HK358-451** | 100 |
| | 3/4" | **HK358-452** | 100 |
| | 1" | **HK358-453** | 100 |
| 7/32" Key | 1-1/2" | **HK358-455** | 100 |
| **1/2"- 20** | 3/4" | **HK358-456** | 50 |
| | 1" | **HK358-457** | 50 |
| | 1-1/4" | **HK358-458** | 50 |
| 5/16" Key | 1-1/2" | **HK358-459** | 50 |
| | 1-3/4" | **HK358-460** | 50 |
| | 2" | **HK358-461** | 50 |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers



# Button Head Cap Screws

## COARSE THREAD and FINE THREAD SERIES

HEAT TREATED ALLOY STEEL
UNIFIED 3A THREAD FIT
MEETS ASME B18.3 and ASTM F835

For Thread Lengths see chart on page B183.

### UNRC COARSE THREADS

Sold in full packages only.

| DIA., Threads per Inch and Key Size | LGTH. Under Head | SPAENAUR No. | PKG QTY. |
|---|---|---|---|
| **#4 - 40** | 1/4" | **HK358-462** | 100 |
| | 3/8" | **HK358-463** | 100 |
| 1/16" Key | 1/2" | **HK358-464** | 100 |
| **#6 - 32** | 1/4" | **HK358-465** | 100 |
| | 3/8" | **HK358-466** | 100 |
| 5/64" Key | 1/2" | **HK358-467** | 100 |
| | 5/8" | **HK358-468** | 100 |
| **#8 - 32** | 1/4" | **HK358-469** | 100 |
| | 3/8" | **HK358-470** | 100 |
| 3/32" Key | 5/8" | **HK358-472** | 100 |
| | 3/4" | **HK358-473** | 100 |
| | 1" | **HK358-1635** | 100 |
| **#10 - 24** | 1/4" | **HK358-474** | 100 |
| | 3/8" | **HK358-475** | 100 |
| | 1/2" | **HK358-476** | 100 |
| 1/8" Key | 5/8" | **HK358-477** | 100 |
| | 3/4" | **HK358-478** | 100 |
| | 7/8" | **HK358-479** | 50 |
| | 1" | **HK358-480** | 50 |
| **1/4"- 20** | 3/8" | **HK358-481** | 100 |
| | 1/2" | **HK358-482** | 100 |
| | 5/8" | **HK358-483** | 100 |
| 5/32" Key | 3/4" | **HK358-484** | 100 |
| | 7/8" | **HK358-485** | 50 |
| | 1" | **HK358-486** | 50 |
| **5/16"- 18** | 1/2" | **HK358-488** | 100 |
| | 5/8" | **HK358-489** | 100 |
| 3/16" Key | 3/4" | **HK358-490** | 100 |
| | 7/8" | **HK358-491** | 50 |
| | 1" | **HK358-492** | 50 |
| **3/8"- 16** | 1/2" | **HK358-493** | 50 |
| | 5/8" | **HK358-494** | 50 |
| | 3/4" | **HK358-495** | 50 |
| 7/32" Key | 7/8" | **HK358-496** | 50 |
| | 1" | **HK358-497** | 50 |
| | 1-1/4" | **HK358-498** | 50 |
| **1/2"- 13** | 1" | **HK358-499** | 25 |
| | 1-1/4" | **HK358-500** | 25 |
| 5/16" Key | 1-1/2" | **HK358-501** | 25 |
| | 2" | **HK358-502** | 25 |
| **5/8"- 11** | 1" | **HK358-503** | 25 |
| | 1-1/4" | **HK358-504** | 25 |
| 3/8" Key | 1-1/2" | **HK358-505** | 25 |

### UNRF FINE THREADS

| | | | |
|---|---|---|---|
| **#10 - 32** | 1/4" | **HK358-507** | 100 |
| | 3/8" | **HK358-508** | 100 |
| | 5/8" | **HK358-510** | 100 |
| 1/8" Key | 3/4" | **HK358-511** | 100 |
| | 7/8" | **HK358-512** | 50 |
| | 1" | **HK358-513** | 50 |
| **1/4"- 28** | 3/8" | **HK358-514** | 100 |
| | 1/2" | **HK358-515** | 100 |
| | 5/8" | **HK358-516** | 100 |
| 5/32" Key | 3/4" | **HK358-517** | 100 |
| | 1" | **HK358-518** | 50 |
| **5/16"- 24** | 3/8" | **HK358-519** | 100 |
| | 1/2" | **HK358-520** | 100 |
| 3/16" Key | 5/8" | **HK358-521** | 100 |
| | 1" | **HK358-523** | 50 |
| **3/8"- 24** | 1/2" | **HK358-524** | 50 |
| | 3/4" | **HK358-1626** | 50 |
| 7/32" Key | 1" | **HK358-525** | 50 |





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B



# Low Head Cap Screws

## UNRC COARSE AND UNRF FINE THREADS

HEAT TREATED ALLOY STEEL • UNIFIED 3A THREAD FIT

For Thread Lengths see chart on page B183.

Sold in full packages only.

### UNRC COARSE THREADS

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **#8 - 32** | 3/8" | **HK358-316** | 100 |
| | 1/2" | **HK358-317** | 100 |
| | 3/4" | **HK358-319** | 100 |
| 5/64" Key | 1" | **HK358-320** | 100 |
| **#10 - 24** | 1/2" | **HK358-322** | 100 |
| 3/32" Key | 3/4" | **HK358-324** | 100 |
| **1/4"- 20** | 1/2" | **HK358-327** | 100 |
| | 5/8" | **HK358-328** | 100 |
| | 3/4" | **HK358-329** | 100 |
| 1/8" Key | 1" | **HK358-330** | 100 |
| **5/16"- 18** | 3/4" | **HK358-332** | 100 |
| 5/32" Key | 1" | **HK358-333** | 100 |
| **3/8"- 16** | 1/2" | **HK358-336** | 100 |
| | 3/4" | **HK358-337** | 100 |
| 3/16" Key | 1" | **HK358-338** | 100 |
| | 1-1/2" | **HK358-340** | 100 |
| **1/2"- 13** | 1" | **HK358-341** | 50 |
| | 1-1/4" | **HK358-342** | 50 |
| 1/4" Key | 1-1/2" | **HK358-343** | 50 |

### UNRF FINE THREAD

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **#10 - 32** | 3/8" | **HK358-344** | 100 |
| | 1/2" | **HK358-345** | 100 |
| | 5/8" | **HK358-346** | 100 |
| 3/32" Key | 3/4" | **HK358-347** | 100 |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

## Technical Information chart for Hex Socket Shoulder Screw

| Nom. Size or Basic Shoulder Dia. | | D Shoulder Diameter Max | D Shoulder Diameter Min | A Head Diameter Max. | A Head Diameter Min. | H Head Height Max. | H Head Height Min. | D1 Nom. Thread Size or Basic Thread Dia. | | Threads Per Inch | E Thread Length Basic | K Thread Neck Wdth. Max. | J Hexagon Socket Size Nom. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/4"** | 0.250 | 0.2480 | 0.2460 | 0.375 | 0.357 | 0.188 | 0.177 | 10 | 0.1900 | 24 | 0.375 | 0.062 | 1/8 | 0.125 |
| **5/16"** | 0.312 | 0.3105 | 0.3085 | 0.438 | 0.419 | 0.219 | 0.209 | 1/4 | 0.2500 | 20 | 0.438 | 0.075 | 5/32 | 0.156 |
| **3/8"** | 0.375 | 0.3730 | 0.3710 | 0.562 | 0.543 | 0.250 | 0.240 | 5/16 | 0.3125 | 18 | 0.500 | 0.083 | 3/16 | 0.188 |
| **1/2"** | 0.500 | 0.4980 | 0.4960 | 0.750 | 0.729 | 0.312 | 0.302 | 3/8 | 0.3750 | 16 | 0.625 | 0.093 | 1/4 | 0.250 |
| **5/8"** | 0.625 | 0.6230 | 0.6210 | 0.875 | 0.853 | 0.375 | 0.365 | 1/2 | 0.5000 | 13 | 0.750 | 0.115 | 5/16 | 0.312 |
| **3/4"** | 0.750 | 0.7480 | 0.7460 | 1.000 | 0.977 | 0.500 | 0.490 | 5/8 | 0.6250 | 11 | 0.875 | 0.136 | 3/8 | 0.375 |
| **1"** | 1.000 | 0.9980 | 0.9960 | 1.312 | 1.287 | 0.625 | 0.610 | 3/4 | 0.7500 | 10 | 1.000 | 0.150 | 1/2 | 0.500 |
| **1-1/4"** | 1.250 | 1.2480 | 1.2460 | 1.750 | 1.723 | 0.750 | 0.735 | 7/8 | 0.8750 | 9 | 1.125 | 0.222 | 5/8 | 0.625 |

For more Hex Socket Cap Screws, Flat Head Hex Socket Cap Screws and Button Head Hex Socket Cap Screws see Pages B196-232





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# Socket Head Cap Screws

## UNRC COARSE THREAD SERIES STAINLESS STEEL

NON-HEAT TREATED • UNIFIED 3A THREAD FIT
MEETS ASME B18.3

For Thread Lengths see chart on page B183.

Sold in full packages only.

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **#2 - 56** | 1/4" | **HK358-965** | 100 |
| 5/64" Key | 3/8" | **HK358-966** | 100 |
| **#4 - 40** | 1/4" | **HK358-967** | 100 |
| | 3/8" | **HK358-968** | 100 |
| 3/32" Key | 1/2" | **HK358-969** | 100 |
| **#6 - 32** | 1/4" | **HK358-970** | 100 |
| | 3/8" | **HK358-971** | 100 |
| | 1/2" | **HK358-972** | 100 |
| 7/64" Key | 5/8" | **HK358-973** | 100 |
| | 3/4" | **HK358-974** | 100 |
| **#8 - 32** | 3/8" | **HK358-975** | 100 |
| | 1/2" | **HK358-976** | 100 |
| | 5/8" | **HK358-977** | 100 |
| 9/64" Key | 3/4" | **HK358-978** | 100 |
| | 1" | **HK358-979** | 100 |
| **#10 - 24** | 3/8" | **HK358-980** | 100 |
| | 1/2" | **HK358-981** | 100 |
| | 5/8" | **HK358-982** | 100 |
| 5/32" Key | 3/4" | **HK358-983** | 100 |
| | 7/8" | **HK358-984** | 100 |
| **1/4"- 20** | 3/8" | **HK358-985** | 100 |
| | 1/2" | **HK358-986** | 100 |
| | 5/8" | **HK358-987** | 100 |
| 3/16" Key | 3/4" | **HK358-988** | 100 |
| | 7/8" | **HK358-989** | 100 |
| | 1" | **HK358-990** | 100 |
| | 1-1/4" | **HK358-991** | 100 |
| | 1-1/2" | **HK358-992** | 100 |
| | 1-3/4" | **HK358-993** | 100 |
| | 2" | **HK358-994** | 100 |
| **5/16"- 18** | 1/2" | **HK358-995** | 100 |
| | 3/4" | **HK358-996** | 100 |
| | 7/8" | **HK358-997** | 100 |
| 1/4" Key | 1" | **HK358-998** | 100 |
| Cont'd… | 1-1/4" | **HK358-999** | 100 |
| **5/16"-18** | 1-1/2" | **HK358-1600** | 100 |
| | 2" | **HK358-1601** | 100 |
| **3/8"- 16** | 1/2" | **HK358-1602** | 100 |
| | 5/8" | **HK358-1603** | 100 |
| | 3/4" | **HK358-1604** | 100 |
| 5/16" Key | 1" | **HK358-1605** | 100 |
| | 1-1/4" | **HK358-1606** | 100 |
| | 1-1/2" | **HK358-1607** | 100 |
| | 1-3/4" | **HK358-1608** | 50 |
| | 2" | **HK358-1609** | 50 |
| | 2-1/2" | **HK358-1610** | 50 |
| **1/2"- 13** | 1" | **HK358-1611** | 50 |
| | 1-1/4" | **HK358-1612** | 50 |
| | 1-1/2" | **HK358-1613** | 50 |
| 3/8" Key | 1-3/4" | **HK358-1614** | 50 |
| | 2" | **HK358-1615** | 50 |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

# Socket Head Cap Screws

## UNRF FINE THREAD SERIES STAINLESS STEEL

NON-HEAT TREATED • UNIFIED 3A THREAD FIT • MEETS ASME B18.3



Sold in full packages only.

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **#10 - 32** | 3/8" | **HK358-1616** | 100 |
| | 1/2" | **HK358-1617** | 100 |
| | 5/8" | **HK358-1618** | 100 |
| 5/32" Key | 3/4" | **HK358-1619** | 100 |
| | 1" | **HK358-1620** | 100 |
| | 1-1/4" | **HK358-1621** | 100 |
| | 1-1/2" | **HK358-1622** | 100 |
| **1/4"- 28** | 5/8" | **HK358-1623** | 100 |
| | 3/4" | **HK358-1624** | 100 |
| 3/16" Key | 1" | **HK358-1625** | 100 |

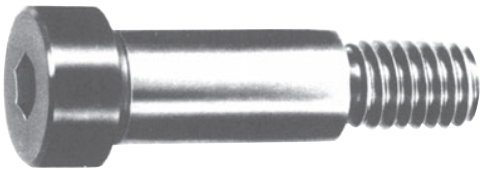


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B

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

# Hex Socket Shoulder Screws



## UNRC COARSE THREADS

HEAT TREATED ALLOY STEEL

UNIFIED 3A THREAD FIT
MEETS ASME B18.3

Sold in full packages only.

For Technical Information chart see page B186.

| Shoulder Dia. | Shoulder Length | UNRC Thread | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|---|
| **1/4"** 1/8" Key | 1/2" | **10-24** | **HK358-526** | 25 |
| | 5/8" | | **HK358-552** | 25 |
| | 3/4" | | **HK358-553** | 25 |
| | 1" | | **HK358-554** | 25 |
| | 1-1/4" | | **HK358-555** | 25 |
| | 1-1/2" | | **HK358-556** | 25 |
| **5/16"** 5/32" Key | 3/8" | **1/4"-20** | **HK358-557** | 25 |
| | 1/2" | | **HK358-558** | 25 |
| | 5/8" | | **HK358-559** | 25 |
| | 3/4" | | **HK358-560** | 25 |
| | 1" | | **HK358-561** | 25 |
| | 1-1/4" | | **HK358-562** | 25 |
| | 1-1/2" | | **HK358-563** | 25 |
| | 2" | | **HK358-565** | 25 |
| **3/8"** 3/16" Key | 3/8" | **5/16"-18** | **HK358-566** | 25 |
| | 1/2" | | **HK358-567** | 25 |
| | 5/8" | | **HK358-568** | 25 |
| | 1" | | **HK358-570** | 25 |
| | 1-1/4" | | **HK358-571** | 25 |
| | 1-1/2" | | **HK358-572** | 25 |
| | 1-3/4" | | **HK358-573** | 25 |
| | 2" | | **HK358-574** | 25 |
| | 2-1/4" | | **HK358-575** | 25 |
| | 2-1/2" | | **HK358-576** | 25 |
| | 3" | | **HK358-578** | 25 |
| | 3-1/4" | | **HK358-579** | 25 |
| | 3-1/2" | | **HK358-580** | 25 |
| | 4" | | **HK358-582** | 25 |
| **1/2"** 1/4" Key | 5/8" | **3/8"-16** | **HK358-584** | 25 |
| | 3/4" | | **HK358-585** | 25 |
| | 1" | | **HK358-586** | 25 |
| | 1-1/4" | | **HK358-587** | 25 |
| | 1-1/2" | | **HK358-588** | 25 |
| | 1-3/4" | | **HK358-589** | 25 |
| | 2" | | **HK358-590** | 25 |
| | 2-1/4" | | **HK358-591** | 25 |
| | 2-1/2" | | **HK358-592** | 25 |
| | 2-3/4" | | **HK358-593** | 25 |
| | 3" | | **HK358-594** | 25 |

| Shoulder Dia. | Shoulder Length | UNRC Thread | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|---|
| …Cont'd. **1/2"** 1/4" Key | 3-1/4" | **3/8"-16** | **HK358-595** | 25 |
| | 3-1/2" | | **HK358-596** | 25 |
| | 3-3/4" | | **HK358-597** | 25 |
| | 4" | | **HK358-598** | 25 |
| | 4-1/4" | | **HK358-1627** | 25 |
| | 4-1/2" | | **HK358-599** | 10 |
| | 4-3/4" | | **HK358-1628** | 10 |
| | 5" | | **HK358-600** | 10 |
| **5/8"** 5/16" Key | 1-1/4" | **1/2"-13** | **HK358-601** | 25 |
| | 1-1/2" | | **HK358-602** | 25 |
| | 1-3/4" | | **HK358-603** | 25 |
| | 2" | | **HK358-604** | 25 |
| | 2-1/4" | | **HK358-605** | 25 |
| | 2-1/2" | | **HK358-606** | 25 |
| | 2-3/4" | | **HK358-607** | 25 |
| | 3" | | **HK358-608** | 25 |
| | 3-1/4" | | **HK358-609** | 25 |
| | 3-1/2" | | **HK358-610** | 25 |
| | 3-3/4" | | **HK358-611** | 25 |
| | 4" | | **HK358-612** | 10 |
| | 4-1/2" | | **HK358-613** | 10 |
| | 4-3/4" | | **HK358-1630** | 10 |
| | 5" | | **HK358-614** | 10 |
| | 5-1/2" | | **HK358-615** | 10 |
| | 6" | | **HK358-616** | 10 |
| **3/4"** 3/8" Key | 1-1/2" | **5/8"-11** | **HK358-617** | 10 |
| | 1-3/4" | | **HK358-618** | 10 |
| | 2" | | **HK358-619** | 10 |
| | 2-1/4" | | **HK358-620** | 10 |
| | 2-1/2" | | **HK358-621** | 10 |
| | 2-3/4" | | **HK358-622** | 10 |
| | 3" | | **HK358-623** | 10 |
| | 3-1/4" | | **HK358-624** | 10 |
| | 3-1/2" | | **HK358-625** | 10 |
| | 3-3/4" | | **HK358-626** | 10 |
| | 4-1/4" | | **HK358-1631** | 10 |
| | 4-1/2" | | **HK358-628** | 10 |
| | 4-3/4" | | **HK358-1632** | 10 |
| | 5" | | **HK358-629** | 10 |
| | 5-1/2" | | **HK358-630** | 10 |
| | 6" | | **HK358-631** | 10 |



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# Metric
# Socket Head Cap Screws

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

## HEAT TREATED ALLOY STEEL TO Property Class 12.9

ISO METRIC THREADS TO ASME B1.13M

Sold in full packages only.



| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **M2** Pitch .4 1.5 mm Key | 4 | **HK358-2000** | 100 |
| | 5 | **HK358-2001** | 100 |
| | 6 | **HK358-2002** | 100 |
| | 8 | **HK358-2003** | 100 |
| | 10 | **HK358-2004** | 100 |
| | 12 | **HK358-2005** | 100 |
| **M2.5** Pitch .45 2.0 mm Key | 5 | **HK358-2006** | 100 |
| | 6 | **HK358-2007** | 100 |
| | 8 | **HK358-2008** | 100 |
| | 10 | **HK358-2009** | 100 |
| | 12 | **HK358-2010** | 100 |
| **M3** Pitch .50 2.5 mm Key | 5 | **HK358-2011** | 100 |
| | 8 | **HK358-2013** | 100 |
| | 10 | **HK358-2014** | 100 |
| | 12 | **HK358-2015** | 100 |
| | *15 | **HK358-2016** | 100 |
| | 16 | **HK358-2017** | 100 |
| | 20 | **HK358-2018** | 100 |
| | 25 | **HK358-2019** | 100 |
| | 30 | **HK358-2020** | 100 |
| | 35 | **HK358-2021** | 100 |
| **M4** Pitch 0.70 3 mm Key | 5 | **HK358-2022** | 100 |
| | 6 | **HK358-2023** | 100 |
| | 8 | **HK358-2024** | 100 |
| | 10 | **HK358-2025** | 100 |
| | 12 | **HK358-2026** | 100 |
| | *14 | **HK358-2027** | 100 |
| | *15 | **HK358-2028** | 100 |
| | 16 | **HK358-2029** | 100 |
| | 20 | **HK358-2030** | 100 |
| | 25 | **HK358-2031** | 100 |
| | 30 | **HK358-2032** | 100 |
| | 35 | **HK358-2033** | 100 |
| | 40 | **HK358-2034** | 100 |
| | 45 | **HK358-2035** | 100 |
| | 50 | **HK358-2036** | 100 |
| **M5** Pitch 0.80 4 mm Key | 6 | **HK358-2037** | 100 |
| | 8 | **HK358-2038** | 100 |
| | 10 | **HK358-2039** | 100 |
| | 12 | **HK358-2040** | 100 |
| | *14 | **HK358-2041** | 100 |
| | *15 | **HK358-2042** | 100 |
| | 16 | **HK358-2043** | 100 |
| | *18 | **HK358-2044** | 100 |
| | 20 | **HK358-2045** | 100 |
| | *22 | **HK358-2046** | 100 |
| | 25 | **HK358-2047** | 100 |
| | 30 | **HK358-2048** | 100 |
| | 40 | **HK358-2050** | 100 |
| | 45 | **HK358-2051** | 100 |
| | 50 | **HK358-2052** | 100 |
| | 55 | **HK358-2053** | 100 |
| | 60 | **HK358-2054** | 100 |
| | 65 | **HK358-2055** | 100 |
| | 70 | **HK358-2056** | 100 |
| **M6** Pitch 1.00 5 mm Key | 8 | **HK358-2057** | 100 |
| | 10 | **HK358-2058** | 100 |
| | 12 | **HK358-2059** | 100 |
| | *14 | **HK358-2060** | 100 |
| | 16 | **HK358-2062** | 100 |
| | *18 | **HK358-2063** | 100 |
| | 20 | **HK358-2064** | 100 |
| | *22 | **HK358-2065** | 100 |
| | 35 | **HK358-2068** | 100 |
| | 40 | **HK358-2069** | 100 |
| | 45 | **HK358-2070** | 100 |
| | 50 | **HK358-2071** | 100 |
| | 55 | **HK358-2072** | 100 |
| | 60 | **HK358-2073** | 100 |
| | 65 | **HK358-2074** | 100 |
| Cont'd… **M6** | 70 | **HK358-2075** | 100 |
| | 75 | **HK358-2076** | 100 |
| | 80 | **HK358-2077** | 100 |
| | 90 | **HK358-2078** | 100 |
| | 100 | **HK358-2079** | 100 |
| | 110 | **HK358-2080** | 100 |
| **M8** Pitch 1.25 6 mm Key | 10 | **HK358-2081** | 100 |
| | 12 | **HK358-2082** | 100 |
| | *14 | **HK358-2083** | 100 |
| | *15 | **HK358-2084** | 100 |
| | 16 | **HK358-2085** | 100 |
| | *18 | **HK358-2086** | 100 |
| | 20 | **HK358-2087** | 100 |
| | *22 | **HK358-2088** | 100 |
| | 25 | **HK358-2089** | 100 |
| | 30 | **HK358-2090** | 100 |
| | 35 | **HK358-2091** | 100 |
| | 40 | **HK358-2092** | 100 |
| | 45 | **HK358-2093** | 100 |
| | 50 | **HK358-2094** | 100 |
| | 55 | **HK358-2095** | 100 |
| | 70 | **HK358-2098** | 100 |
| | 75 | **HK358-2099** | 100 |
| | 80 | **HK358-2100** | 100 |
| | 90 | **HK358-2101** | 100 |
| | 100 | **HK358-2102** | 100 |
| | 110 | **HK358-2103** | 100 |
| | 120 | **HK358-2104** | 100 |
| | 130 | **HK358-2105** | 100 |
| | 140 | **HK358-2106** | 100 |
| | 150 | **HK358-2107** | 100 |
| **M10** Pitch 1.50 8 mm Key | 10 | **HK358-2108** | 100 |
| | 12 | **HK358-2109** | 100 |
| | *15 | **HK358-2110** | 100 |
| | 16 | **HK358-2111** | 100 |

*Denotes Non-ASME Standard

Continues on Next Page



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Continued from Previous Page

**HOLO-KROME, HEAT TREATED ALLOY STEEL TO GRADE 12.9. METRIC ASME B1.13M**

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| Cont'd… | *18 | HK358-2112 | 100 |
| **M10** | 20 | HK358-2113 | 100 |
| | *22 | HK358-2114 | 100 |
| | 25 | HK358-2115 | 100 |
| | 30 | HK358-2116 | 100 |
| | 35 | HK358-2117 | 100 |
| | 40 | HK358-2118 | 100 |
| | 45 | HK358-2119 | 100 |
| | 55 | HK358-2121 | 100 |
| | 60 | HK358-2122 | 50 |
| | 65 | HK358-2123 | 50 |
| | 70 | HK358-2124 | 50 |
| | 75 | HK358-2125 | 50 |
| | 80 | HK358-2126 | 50 |
| | 90 | HK358-2127 | 50 |
| | 110 | HK358-2129 | 50 |
| | 130 | HK358-2130 | 50 |
| | 150 | HK358-2131 | 50 |
| **M12** Pitch 1.75 10 mm Key | 12 | HK358-2132 | 100 |
| | *15 | HK358-2133 | 100 |
| | 16 | HK358-2134 | 100 |
| | 20 | HK358-2135 | 100 |
| | 25 | HK358-2136 | 100 |
| | 30 | HK358-2137 | 100 |
| | 35 | HK358-2138 | 100 |
| | 40 | HK358-2139 | 50 |
| | 45 | HK358-2140 | 50 |
| | 50 | HK358-2141 | 50 |
| | 55 | HK358-2142 | 50 |
| | 60 | HK358-2143 | 50 |
| | 65 | HK358-2144 | 50 |
| | 70 | HK358-2145 | 50 |
| | 75 | HK358-2146 | 50 |
| | 80 | HK358-2147 | 25 |
| | 90 | HK358-2148 | 25 |
| | 100 | HK358-2149 | 25 |
| | 110 | HK358-2150 | 25 |
| | 120 | HK358-2151 | 25 |
| | 130 | HK358-2152 | 25 |
| | 150 | HK358-2153 | 10 |
| **M16** Pitch 2.00 14 mm Key | 25 | HK358-2154 | 25 |
| | 30 | HK358-2155 | 25 |
| | 35 | HK358-2156 | 25 |
| | 45 | HK358-2158 | 25 |
| | 50 | HK358-2159 | 25 |
| | 55 | HK358-2160 | 25 |
| | 60 | HK358-2161 | 25 |

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| Cont'd… | 65 | HK358-2162 | 25 |
| **M16** | 70 | HK358-2163 | 25 |
| | 75 | HK358-2164 | 25 |
| | 80 | HK358-2165 | 25 |
| | 90 | HK358-2166 | 25 |
| | 100 | HK358-2167 | 10 |
| | 120 | HK358-2169 | 10 |
| | 130 | HK358-2170 | 10 |
| | 140 | HK358-2171 | 10 |
| | 150 | HK358-2172 | 10 |
| | 160 | HK358-2173 | 10 |
| | 180 | HK358-2174 | 10 |
| **M20** Pitch 2.50 17 mm Key | 30 | HK358-2175 | 50 |
| | 35 | HK358-2176 | 10 |
| | 40 | HK358-2177 | 10 |
| | 45 | HK358-2178 | 10 |
| | 50 | HK358-2179 | 10 |
| | 55 | HK358-2180 | 10 |
| | 60 | HK358-2181 | 10 |
| | 65 | HK358-2182 | 10 |
| | 70 | HK358-2183 | 10 |
| | 75 | HK358-2184 | 10 |
| | 80 | HK358-2185 | 10 |
| | 90 | HK358-2186 | 10 |
| | 100 | HK358-2187 | 10 |
| | 110 | HK358-2188 | 10 |
| | 120 | HK358-2189 | 10 |
| | 130 | HK358-2190 | 10 |
| | 140 | HK358-2191 | 10 |
| | 150 | HK358-2192 | 10 |
| | 160 | HK358-2193 | 10 |
| | 180 | HK358-2194 | 10 |
| | 200 | HK358-2195 | 10 |
| **M24** Pitch 3.00 19 mm Key | 40 | HK358-2196 | 25 |
| | 50 | HK358-2197 | 10 |
| | 55 | HK358-2198 | 10 |
| | 60 | HK358-2199 | 10 |
| | 65 | HK358-2200 | 10 |
| | 70 | HK358-2201 | 10 |
| | 80 | HK358-2202 | 10 |
| | 90 | HK358-2203 | 10 |
| | 100 | HK358-2204 | 10 |
| | 110 | HK358-2205 | 10 |
| | 120 | HK358-2206 | 10 |
| | 130 | HK358-2207 | 10 |
| | 140 | HK358-2208 | 10 |
| | 150 | HK358-2209 | 5 |

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| Cont'd… | 160 | HK358-2210 | 5 |
| **M24** | 180 | HK358-2211 | 5 |
| | 200 | HK358-2212 | 5 |
| | 220 | HK358-2213 | 5 |
| | 240 | HK358-2214 | 1 |
| | 260 | HK358-2215 | 1 |
| **M30** Pitch 3.5 22 mm Key | 80 | HK358-2216 | 10 |
| | 90 | HK358-2217 | 10 |
| | 100 | HK358-2218 | 10 |
| | 110 | HK358-2219 | 5 |
| | 120 | HK358-2220 | 5 |
| | 130 | HK358-2221 | 5 |
| | 140 | HK358-2222 | 5 |
| | 150 | HK358-2223 | 1 |
| | 160 | HK358-2224 | 1 |
| | 180 | HK358-2225 | 1 |
| | 200 | HK358-2226 | 1 |
| | 220 | HK358-2227 | 1 |
| | 240 | HK358-2228 | 1 |
| | 300 | HK358-2229 | 1 |
| **M36** Pitch 4 27 mm Key | 80 | HK358-2230 | 5 |
| | 90 | HK358-2231 | 1 |
| | 100 | HK358-2232 | 1 |
| | 110 | HK358-2233 | 1 |
| | 120 | HK358-2234 | 1 |
| | 130 | HK358-2235 | 1 |
| | 140 | HK358-2236 | 1 |
| | 150 | HK358-2237 | 1 |
| | 160 | HK358-2238 | 1 |
| | 170 | HK358-2239 | 1 |
| | 180 | HK358-2240 | 1 |
| | 200 | HK358-2241 | 1 |
| | 240 | HK358-2242 | 1 |
| | 260 | HK358-2243 | 1 |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

Cont'd…

*Denotes Non-ASME Standard



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# Metric Flat Head Cap Screws

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers



HEAT TREATED ALLOY STEEL
ISO METRIC THREADS TO ASME B1.13M

Sold in full packages only.

| DIA., Threads per Inch and Key Size | LGTH. Under Head | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **M3** Pitch .50 2.0 mm Key | 6 | **HK358-2352** | 100 |
| | 8 | **HK358-2353** | 100 |
| | 16 | **HK358-2356** | 100 |
| | 20 | **HK358-2357** | 100 |
| | 25 | **HK358-2358** | 100 |
| **M4** Pitch 0.70 2.5 mm Key | 8 | **HK358-2359** | 100 |
| | 10 | **HK358-2360** | 100 |
| | 12 | **HK358-2361** | 100 |
| | 16 | **HK358-2362** | 100 |
| | 20 | **HK358-2363** | 100 |
| | 25 | **HK358-2364** | 100 |
| | 30 | **HK358-2365** | 100 |
| | 35 | **HK358-2366** | 100 |
| | 40 | **HK358-2367** | 100 |
| **M5** Pitch 0.80 3 mm Key | 8 | **HK358-2368** | 100 |
| | 10 | **HK358-2369** | 100 |
| | 12 | **HK358-2370** | 100 |
| | 16 | **HK358-2371** | 100 |
| | 20 | **HK358-2372** | 100 |
| | 25 | **HK358-2373** | 100 |
| | 30 | **HK358-2374** | 100 |
| | 35 | **HK358-2375** | 100 |
| | 40 | **HK358-2376** | 100 |
| | 50 | **HK358-2377** | 100 |
| **M6** Pitch 1.00 4 mm Key | 10 | **HK358-2378** | 100 |
| | 12 | **HK358-2379** | 100 |
| | 16 | **HK358-2380** | 100 |
| | 25 | **HK358-2382** | 100 |
| | 30 | **HK358-2383** | 100 |
| | 35 | **HK358-2384** | 100 |
| | 40 | **HK358-2385** | 100 |
| | 50 | **HK358-2387** | 100 |
| **M8** Pitch 1.25 5 mm Key | 16 | **HK358-2389** | 100 |
| | 20 | **HK358-2390** | 100 |
| | 25 | **HK358-2391** | 100 |
| | 30 | **HK358-2392** | 100 |
| | 35 | **HK358-2393** | 100 |
| | 40 | **HK358-2394** | 100 |
| | 45 | **HK358-2395** | 100 |
| | 50 | **HK358-2396** | 100 |
| | 60 | **HK358-2397** | 100 |
| | 70 | **HK358-2398** | 100 |
| **M10** Pitch 1.50 6 mm Key | 16 | **HK358-2399** | 100 |
| | 20 | **HK358-2400** | 100 |
| | 25 | **HK358-2401** | 100 |
| | 30 | **HK358-2402** | 100 |
| | 35 | **HK358-2403** | 100 |
| | 40 | **HK358-2404** | 100 |
| | 45 | **HK358-2405** | 100 |
| | 50 | **HK358-2406** | 100 |
| | 60 | **HK358-2407** | 100 |
| | 70 | **HK358-2408** | 50 |
| **M12** Pitch 1.75 8 mm Key | 20 | **HK358-2409** | 100 |
| | 25 | **HK358-2410** | 100 |
| | 30 | **HK358-2411** | 100 |
| | 40 | **HK358-2413** | 100 |
| | 45 | **HK358-2414** | 50 |
| | 50 | **HK358-2415** | 50 |
| | 55 | **HK358-2416** | 50 |
| | 60 | **HK358-2417** | 50 |
| **M16** Pitch 2.00 10 mm Key | 30 | **HK358-2418** | 50 |
| | 35 | **HK358-2419** | 50 |
| | 40 | **HK358-2420** | 25 |
| | 45 | **HK358-2421** | 25 |
| | 50 | **HK358-2422** | 25 |
| | 60 | **HK358-2423** | 25 |
| | 70 | **HK358-2424** | 25 |

For Drive Bits and Hex Keys See Pages P2-P12

## Fold-Up Hex Key Sets

Precision tolerances, heat treated alloy steel, black finish.

**AW56347**
Contains 9 bits in inch sizes:
5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4.

**AW56349**
**Contains 7 bits in metric sizes: 1.5, 2, 2.5, 3, 4, 5, 6 mm.**






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B

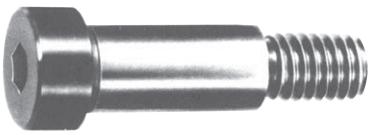


# Metric Button Head Socket Cap Screws

HEAT TREATED ALLOY STEEL
ISO METRIC THREADS TO ASME B1.13M
Sold in full packages only.

| DIA., Threads per Inch and Key Size | LGTH. Under Head | SPAENAUR No. | PKG QTY. |
|---|---|---|---|
| **M3** Pitch .50 2 mm Key | 8 | HK358-2425 | 100 |
| | 10 | HK358-2426 | 100 |
| | 12 | HK358-2427 | 100 |
| | 16 | HK358-2428 | 100 |
| **M4** Pitch 0.70 2.5 mm Key | 10 | HK358-2430 | 100 |
| | 12 | HK358-2431 | 100 |
| | 16 | HK358-2432 | 100 |
| **M5** Pitch 0.80 3 mm Key | 10 | HK358-2433 | 100 |
| | 12 | HK358-2434 | 100 |
| | 16 | HK358-2435 | 100 |
| | 20 | HK358-2436 | 100 |
| | 25 | HK358-2437 | 100 |
| | 30 | HK358-2438 | 100 |
| **M6** Pitch 1.00 4 mm Key | 12 | HK358-2440 | 100 |
| | 16 | HK358-2441 | 100 |
| | 20 | HK358-2442 | 100 |
| | 25 | HK358-2443 | 100 |
| | 30 | HK358-2444 | 100 |
| **M8** Pitch 1.25 5 mm Key | 10 | HK358-2445 | 100 |
| | 12 | HK358-2446 | 100 |
| | 16 | HK358-2447 | 100 |
| | 20 | HK358-2448 | 100 |
| | 25 | HK358-2449 | 100 |
| | 30 | HK358-2450 | 100 |
| | 35 | HK358-2451 | 100 |
| | 40 | HK358-2452 | 100 |
| **M10** Pitch 1.50 6 mm Key | 16 | HK358-2453 | 100 |
| | 20 | HK358-2454 | 100 |
| | 25 | HK358-2455 | 100 |
| | 30 | HK358-2456 | 100 |
| | 40 | HK358-2457 | 100 |
| **M12** Pitch 1.75 8 mm Key | 20 | HK358-2458 | 100 |
| | 25 | HK358-2459 | 100 |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers



# Hex Socket Shoulder Screws

HEAT TREATED ALLOY STEEL
ISO METRIC THREADS TO ASME B1.13M
Sold in full packages only.

| Shoulder Dia., Thrd./Pitch and Key Size | Shldr. Lgth. | SPAENAUR No. | PKG QTY. |
|---|---|---|---|
| **6 mm** (5.987-5.951) M5 x 0.8 p 3 mm Key | 10 | HK358-2460 | 25 |
| | 12 | HK358-2461 | 25 |
| | 16 | HK358-2462 | 25 |
| | 20 | HK358-2463 | 25 |
| **8 mm** (7.987-7.951) M6 x 1.0 p 4 mm Key | 20 | HK358-2466 | 25 |
| | 25 | HK358-2467 | 25 |
| | 30 | HK358-2468 | 25 |
| | 40 | HK358-2469 | 25 |
| **10 mm** (9.987-9.951) M8 x 1.25 p 5 mm Key | 20 | HK358-2471 | 25 |
| | 25 | HK358-2472 | 25 |
| | 30 | HK358-2473 | 25 |
| | 40 | HK358-2474 | 25 |
| | 50 | HK358-2475 | 25 |
| | 60 | HK358-2476 | 25 |
| | 70 | HK358-2477 | 25 |
| | 80 | HK358-2478 | 25 |
| **12 mm** (11.984-11.941) M10 x 1.5 p 6 mm Key | 16 | HK358-2479 | 25 |
| | 20 | HK358-2480 | 25 |
| | 30 | HK358-2482 | 25 |
| | 40 | HK358-2483 | 25 |
| | 50 | HK358-2484 | 25 |
| | 60 | HK358-2485 | 25 |
| | 70 | HK358-2486 | 25 |
| **16 mm** (15.984-15.941) M12 x 1.75 p 8 mm Key | 30 | HK358-2487 | 25 |
| | 50 | HK358-2488 | 25 |
| | 70 | HK358-2489 | 25 |
| | 90 | HK358-2490 | 10 |

Vibra-TITE®

NEW

Threadlocker prevents threaded fasteners from coming loose due to shock and vibration.

See Page B4



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# Hex Socket Set Screws - Cup Point

**HEAT TREATED ALLOY STEEL** • UNIFIED 3A THREAD FIT
MEETS ASME B18.3
**COARSE AND FINE THREAD SERIES**



Sold in full packages only.

| DIA., Threads per Inch and Key Size | Over-all Lgth. | *SPAENAUR No.* UNC | *SPAENAUR No.* UNF | PKG QTY. |
|---|---|---|---|---|
| **#4** (.112") 40 UNC 48 UNF .050" Key | 1/8" | **HK358-1008** | **HK358-1142** | 100 |
| | 3/16" | **HK358-1009** | **HK358-1143** | |
| | 1/4" | **HK358-1010** | **HK358-1144** | |
| | 5/16" | **HK358-1011** | - | |
| | 3/8" | **HK358-1012** | - | |
| | 1/2" | **HK358-1013** | - | |
| | 5/8" | **HK358-1014** | - | |
| **#5** (.125") 40 UNC 44 UNF 1/16" Key | 1/8" | **HK358-1015** | **HK358-1145** | 100 |
| | 3/16" | **HK358-1016** | - | |
| | 1/4" | **HK358-1017** | - | |
| | 5/16" | **HK358-1018** | - | |
| | 3/8" | **HK358-1019** | - | |
| | 1/2" | **HK358-1020** | - | |
| | 5/8" | **HK358-1021** | - | |
| | 3/4" | **HK358-1022** | - | |
| **#6** (.138") 32 UNC 40 UNF 1/16" Key | 1/8" | **HK358-1023** | **HK358-1146** | 100 |
| | 3/16" | **HK358-1024** | **HK358-1147** | |
| | 1/4" | **HK358-1025** | **HK358-1148** | |
| | 5/16" | **HK358-1026** | - | |
| | 3/8" | **HK358-1027** | - | |
| | 1/2" | **HK358-1028** | - | |
| | 5/8" | **HK358-1029** | - | |
| | 3/4" | **HK358-1030** | - | |
| | 7/8" | **HK358-1031** | - | |
| | 1" | **HK358-1032** | - | |
| **#8** (.164") 32 UNC 36 UNF 5/64" Key | 1/8" | **HK358-1033** | **HK358-1150** | 100 |
| | 3/16" | **HK358-1034** | **HK358-1151** | |
| | 1/4" | - | **HK358-1152** | |
| | 5/16" | **HK358-1036** | - | |
| | 3/8" | **HK358-1037** | **HK358-1153** | |
| | 7/16" | **HK358-1038** | - | |
| | 1/2" | **HK358-1039** | - | |
| | 5/8" | **HK358-1040** | - | |
| | 3/4" | **HK358-1041** | - | |
| | 7/8" | **HK358-1042** | - | |
| | 1" | **HK358-1043** | - | |

| DIA., Threads per Inch and Key Size | Over-all Lgth. | *SPAENAUR No.* UNC | *SPAENAUR No.* UNF | PKG QTY. |
|---|---|---|---|---|
| **#10** (.190") 24 UNC 32 UNF 3/32" Key | 3/16" | **HK358-1044** | **HK358-1154** | 100 |
| | 1/4" | **HK358-1045** | **HK358-1155** | |
| | 5/16" | **HK358-1046** | **HK358-1156** | |
| | 3/8" | **HK358-1047** | **HK358-1157** | |
| | 1/2" | **HK358-1048** | **HK358-1158** | |
| | 5/8" | **HK358-1049** | **HK358-1159** | |
| | 3/4" | **HK358-1050** | **HK358-1160** | |
| | 1" | - | **HK358-1161** | |
| | 1-1/4" | **HK358-1053** | **HK358-1162** | |
| **1/4"** (.250") 20 UNC 28 UNF 1/8" Key | 3/16" | **HK358-1054** | **HK358-1163** | 100 |
| | 1/4" | **HK358-1055** | **HK358-1164** | |
| | 5/16" | **HK358-1056** | **HK358-1165** | |
| | 3/8" | **HK358-1057** | **HK358-1166** | |
| | 1/2" | - | **HK358-1167** | |
| | 5/8" | - | **HK358-1168** | |
| | 3/4" | **HK358-1060** | **HK358-1169** | |
| | 7/8" | **HK358-1061** | - | |
| | 1" | **HK358-1062** | **HK358-1170** | |
| | 1-1/4" | **HK358-1063** | **HK358-1171** | |
| | 1-1/2" | **HK358-1064** | - | |
| | 1-3/4" | **HK358-1065** | - | 50 |
| | 2" | **HK358-1066** | - | |
| **5/16"** (.312") 18 UNC 24 UNF 5/32" Key | 1/4" | **HK358-1067** | **HK358-1172** | 100 |
| | 5/16" | **HK358-1068** | | |
| | 3/8" | **HK358-1069** | **HK358-1174** | |
| | 1/2" | **HK358-1071** | **HK358-1175** | |
| | 5/8" | **HK358-1072** | **HK358-1176** | |
| | 3/4" | **HK358-1073** | **HK358-1177** | |
| | 7/8" | **HK358-1074** | - | |
| | 1" | **HK358-1075** | **HK358-1178** | |
| | 1-1/4" | **HK358-1076** | - | |
| | 1-1/2" | **HK358-1077** | - | 50 |
| | 1-3/4" | **HK358-1078** | - | |
| | 2" | **HK358-1079** | - | |
| **3/8"** (.375") 16 UNC 24 UNF 3/16" Key | 1/4" | **HK358-1080** | **HK358-1179** | 100 |
| | 3/8" | **HK358-1082** | **HK358-1180** | |
| | 7/16" | **HK358-1083** | - | |
| | 1/2" | **HK358-1084** | **HK358-1181** | |
| | 5/8" | **HK358-1085** | **HK358-1182** | |
| | 3/4" | **HK358-1086** | **HK358-1183** | |
| | 7/8" | **HK358-1087** | - | |
| | 1" | **HK358-1088** | **HK358-1184** | |
| | 1-1/4" | **HK358-1089** | **HK358-1185** | |
| | 1-1/2" | **HK358-1090** | **HK358-1186** | |
| | 1-3/4" | **HK358-1091** | - | 50 |
| | 2" | **HK358-1092** | - | |
| | 2-1/2" | **HK358-1093** | - | |

**See Page B195 for HOLO-KROME® Point Set Screws - Inch**

continued on next page…



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B

ASME B18.3

## Hex Socket Set Screws - Cup Point

(Continued from previous page.)

| DIA., Threads per Inch and Key Size | Over-all Lgth. | SPAENAUR No. UNC | SPAENAUR No. UNF | PKG QTY. |
|---|---|---|---|---|
| **7/16"** (.437") 14 UNC 20 UNF 7/32" Key | 3/8" | **HK358-1094** | | 100 |
| | 7/16" | **HK358-1095** | **HK358-1188** | |
| | 1/2" | **HK358-1096** | **HK358-1189** | |
| | 5/8" | **HK358-1097** | - | |
| | 3/4" | **HK358-1098** | - | |
| | 7/8" | **HK358-1099** | - | 50 |
| | 1" | **HK358-1100** | - | |
| | 1-1/4" | **HK358-1101** | - | |
| | 1-1/2" | **HK358-1102** | - | |
| **1/2"** (.500") 13 UNC 20 UNF 1/4" Key | 3/8" | **HK358-1104** | - | 100 |
| | 1/2" | **HK358-1105** | **HK358-1190** | |
| | 5/8" | **HK358-1106** | - | |
| | 3/4" | **HK358-1107** | **HK358-1191** | |
| | 7/8" | **HK358-1108** | - | 50 |
| | 1" | **HK358-1109** | **HK358-1192** | |
| | 1-1/4" | **HK358-1110** | - | |
| | 1-1/2" | **HK358-1111** | - | |
| | 1-3/4" | **HK358-1112** | - | 25 |
| | 2" | **HK358-1113** | - | |
| | 2-1/2" | **HK358-1114** | - | |
| | 3" | **HK358-1115** | - | |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

| DIA., Threads per Inch and Key Size | Over-all Lgth. | SPAENAUR No. UNC | SPAENAUR No. UNF | PKG QTY. |
|---|---|---|---|---|
| **5/8"** (.625") 11 UNC 18 UNF 5/16" Key | 1/2" | **HK358-1116** | - | 100 |
| | 5/8" | **HK358-1117** | **HK358-1193** | 50 |
| | 3/4" | **HK358-1118** | - | |
| | 1" | **HK358-1119** | **HK358-1194** | |
| | 1-1/4" | **HK358-1120** | - | 25 |
| | 1-1/2" | **HK358-1121** | - | |
| | 2" | **HK358-1123** | - | |
| | 2-1/2" | **HK358-1124** | - | 10 |
| | 3" | **HK358-1125** | - | |
| **3/4"** (.750") 10 UNC 3/8" Key | 5/8" | **HK358-1126** | - | 50 |
| | 3/4" | **HK358-1127** | - | |
| | 1" | **HK358-1128** | - | |
| | 1-1/4" | **HK358-1129** | - | 25 |
| | 1-1/2" | **HK358-1130** | - | |
| | 1-3/4" | **HK358-1131** | - | 10 |
| | 2" | **HK358-1132** | - | |
| | 2-1/2" | **HK358-1133** | - | |
| | 3" | **HK358-1134** | - | |
| **7/8"** (.875") 9 UNC 1/2" Key | 7/8" | **HK358-1135** | - | 10 |
| | 1" | **HK358-1136** | - | |
| | 2-1/2" | **HK358-1137** | - | |
| **1"** (1.000") 8 UNC 9/16" Key | 1" | **HK358-1138** | - | 10 |
| | 1-1/2" | **HK358-1139** | - | |
| | 2" | **HK358-1140** | - | |
| | 3" | **HK358-1141** | - | |

See a Wide Variety of Top of the Line Hazet Tools on Pages N2-N47

HAZET



187 x 125 x 39 mm

***SPAENAUR No.* 991-229**
(HAZET No. 854)

-with Screwdriver Bits-

30 parts

1/4 inch

| 6 Point Sockets | | | |
|---|---|---|---|
| *SPAENAUR No.* | Sizes | *SPAENAUR No.* | Sizes |
| **991-142** | 4 | **991-149** | 9 |
| **991-144** | 5 | **991-150** | 10 |
| **991-145** | 5.5 | **991-151** | 11 |
| **991-146** | 6 | **991-152** | 12 |
| **991-147** | 7 | **991-153** | 13 |
| **991-148** | 8 | **991-154** | 14 |

| Bits | |
|---|---|
| *SPAENAUR No.* | Sizes |
| **991-183** | 3 |
| **991-184** | 4 |
| **991-185** | 5 |
| **991-186** | 6 |
| **991-187** | 8 |

| Bits | |
|---|---|
| *SPAENAUR No.* | Sizes |
| **991-201** | 1 |
| **991-202** | 2 |
| **Bits** | |
| **991-205** | 1 |
| **991-206** | 2 |

| *SPAENAUR No's.* | |
|---|---|
|  | **991-210** |
|  | **991-216** |
|  | **991-217** |
|  | **991-218** |
|  | **991-220** |
|  | **991-221** |

| Bits | |
|---|---|
| **991-196** | 0.6 x 3.5 |
| **991-198** | 1 x 5.5 |
| **991-199** | 1.2 x 8 |



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# Hex Socket Set Screws - HOLO-KNURL® Point

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

**COARSE AND FINE THREAD SERIES**
**HEAT TREATED ALLOY STEEL** • UNIFIED 3A THREAD FIT
MEETS ASME B18.3

Sold in full packages only.


HOLO-KNURL® POINT

Internal Knurl Point Socket Set Screws feature:
- Ratchet Locking Action
- Thermo-Forged® Point and Socket
- Superior Holding Power
- Precision Ground or Rolled Threads

| DIA., Threads per Inch and Key Size | Over-all Lgth. | *SPAENAUR No.* UNC | *SPAENAUR No.* UNF | PKG QTY. |
|---|---|---|---|---|
| **#6** (.138") 32 UNC 40 UNF 1/16" Key | 1/8" | **HK358-1398** | **HK358-1427** | 100 |
| | 1/4" | **HK358-1400** | - | |
| **#8** (.164") 32 UNC 36 UNF 5/64" Key | 1/8" | **HK358-1401** | - | 100 |
| | 1/4" | **HK358-1403** | - | |
| | 3/8" | **HK358-1404** | - | |
| **#10** (.190") 24 UNC 32 UNF 3/32" Key | 3/16" | - | **HK358-1428** | 100 |
| | 1/4" | - | **HK358-1429** | |
| | 3/8" | - | **HK358-1430** | |

| DIA., Threads per Inch and Key Size | Over-all Lgth. | *SPAENAUR No.* UNC | *SPAENAUR No.* UNF | PKG QTY. |
|---|---|---|---|---|
| **1/4"** (.250") 20 UNC 28 UNF 1/8" Key | 3/16" | **HK358-1406** | **HK358-1432** | 100 |
| | 1/4" | **HK358-1407** | **HK358-1433** | |
| | 5/16" | **HK358-1408** | **HK358-1434** | |
| | 3/8" | **HK358-1409** | **HK358-1435** | |
| | 3/4" | **HK358-1411** | - | |
| **5/16"** (.312") 18 UNC 24 UNF 5/32" Key | 1/4" | **HK358-1412** | - | 100 |
| | 5/16" | **HK358-1413** | **HK358-1437** | |
| | 3/8" | **HK358-1414** | **HK358-1438** | |
| | 1/2" | **HK358-1415** | - | |
| | 3/4" | **HK358-1417** | - | |
| | 1 | **HK358-1418** | - | |
| **3/8"** (.375") 16 UNC 24 UNF 3/16" Key | 3/8" | **HK358-1419** | **HK358-1440** | 100 |
| | 1/2" | **HK358-1420** | **HK358-1441** | |
| | 3/4" | **HK358-1421** | - | |
| **1/2"** (.500") 13 UNC 20 UNF 1/4" Key | 1/2" | **HK358-1423** | - | 100 |
| | 5/8" | **HK358-1424** | - | |
| | 3/4" | **HK358-1425** | - | 50 |
| | 1" | **HK358-1426** | - | |

For more Hex Socket Set Screws see Pages B34-B243, B248-B252



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B

# ALLOY STEEL



Not Plated

1960 Series

Quenched and tempered to hardness Rockwell C39-45 at the surface to #10 dia. incl.; C37-45 over #10 dia.

Threads Class 3A up to 1" dia.;

Class 2A over 1" dia.

*For Hex Keys see Section 'P'.*

## Thread Length Chart

| Screw Dia. | Thread Lengths Min. | Max. |
|---|---|---|
| #2 | 0.62 | 0.80 |
| #3 | 0.62 | 0.83 |
| #4 | 0.75 | 0.99 |
| #5 | 0.75 | 1.00 |
| #6 | 0.75 | 1.05 |
| #8 | 0.88 | 1.19 |
| #10 | 0.88 | 1.27 |
| 1/4" | 1.00 | 1.50 |
| 5/16" | 1.12 | 1.71 |
| 3/8" | 1.25 | 1.94 |

| Screw Dia. | Thread Lengths Min. | Max. |
|---|---|---|
| 7/16" | 1.38 | 2.17 |
| 1/2" | 1.50 | 2.38 |
| 5/8" | 1.75 | 2.82 |
| 3/4" | 2.00 | 3.25 |
| 7/8" | 2.25 | 3.69 |
| 1" | 2.50 | 4.12 |
| 1-1/8" | 2.82 | 4.65 |
| 1-1/4" | 3.12 | 5.09 |
| 1-3/8" | 3.44 | 5.65 |
| 1-1/2" | 3.75 | 6.08 |

**ASME B18.3**

## COARSE THREAD (U.N.C.) (U.S.S.)

| DIA. | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 1/4" |
|---|---|---|---|---|---|---|---|---|---|---|
| THD. | 64 | 56 | 48 | 40 | 40 | 32 | 32 | 24 | 24 | 20 |
| LGTH. | ORDER BY *SPAENAUR* NUMBER LISTED BELOW | | | | | | | | | |
| 3/16 | 363-465 | HX-55 | HX-59 | 363-323 | | | | | | |
| 1/4 | 363-454 | HX-56 | HX-60 | HX-63 | HX-66 | HX-71 | HX-6 | 363-473 | | 363-398 |
| 5/16 | | 363-326 | | | | | | | | |
| 3/8 | | HX-57 | HX-61 | HX-64 | HX-67 | HX-3 | HX-7 | HX-32 | | HX-81 |
| 1/2 | | HX-58 | HX-62 | HX-1 | HX-68 | 363-A14-1M | HX-8 | HX-11 | | HX-82 |
| 5/8 | | 363-383 | | HX-65 | HX-69 | HX-72 | HX-73 | HX-74 | | HX-83 |
| 3/4 | | | | HX-2 | HX-70 | HX-5 | HX-9 | HX-12 | | 363-A22-1N |
| 7/8 | | | | | | HX-194 | HX-196 | HX-198 | | HX-46 |
| 1 | | 363-432 | | 363-399 | 363-497 | 363-A02-1M | HX-10 | HX-13 | | HX-16 |
| 1-1/4 | | | | | | | HX-197 | HX-41 | 363-444 | HX-17 |
| 1-1/2 | | | | | | | HX-45 | HX-42 | | HX-18 |
| 1-3/4 | | | | | | | | HX-43 | | HX-18A |
| 2 | | | | | | 363-400 | 363-390 | HX-44 | | HX-84 |
| 2-1/4 | | | | | | | | | | 363-A03-1X |
| 2-1/2 | | | | | | | | 363-395 | | HX-85 |
| 2-3/4 | | | | | | | | | | HX-302 |
| 3 | | | | | | | | 363-321 | | HX-86 |
| 3-1/4 | | | | | | | | | | 363-452 |
| 3-1/2 | | | | | | | | 363-A19-1C | | 363-462 |
| 3-3/4 | | | | | | | | | | 363-472 |
| 4 | | | | | | | | 363-404 | | 363-484 |
| 4-1/2 | | | | | | | | 363-412 | | 363-389 |
| 6 | | | | | | | | 363-529 | | 363-439 |
| 8 | | | | | | | | | | 363-531 |

**Contact Sales Desk For Package Quantities**

Continues on Next Page

**For Hex Socket Cap Screws, Alloy Steel, FINE THREAD**
**See Pages B198 and B199.**

**For Holo-Krome® Hex Socket Cap Screws, Zinc Plated Alloy Steel, see pages B182 and B184.**




ASSORTMENT
ASSORTIMENT
**805-454A**

## HEX SOCKET CAP SCREWS

Alloy Steel, Not Plated

***22 SIZES - 600 PIECES***

**Inch Sizes**

Coarse Thread - 1960 Series
10-24 to 1/2"-13 (Includes Hex Keys)

Grey Enamelled Drawer 13-3/8" x 9-1/4" x 2" fits the Slide Racks shown on page A2.
Shipping Wt: **8.9 kg** (19.75 lbs.)





P: **1-800-265-8772** F: **1-888-252-6380** **service@spaenaur.com**

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# ALLOY STEEL

Not Plated

**ASME B18.3**

Hex Socket Head Cap Screws can be used with SHEAR-LOC® knobs to quickly assemble your particular requirements of Thumb Screws. (See pages B284 and B285.)



## COARSE THREAD (U.N.C.) (U.S.S.)

Continued from previous page.

| DIA. | 5/16" | 3/8" | 7/16" | 1/2" | 5/8" | 3/4" | 7/8" | 1" | 1-1/8" | 1-1/4" |
|---|---|---|---|---|---|---|---|---|---|---|
| THD. | 18 | 16 | 14 | 13 | 11 | 10 | 9 | 8 | 7 | 7 |
| | LGTH. | ORDER BY *SPAENAUR* NUMBER LISTED BELOW | | | | | | | | |
| 3/8 | HX-303 | | | | | | | | | |
| 1/2 | HX-93 | HX-110 | | | | | | | | |
| 5/8 | HX-94 | HX-111 | | | | | | | | |
| 3/4 | HX-19 | HX-30 | HX-249 | HX-126 | | | | | | |
| 7/8 | HX-95 | HX-306 | | | | | | | | |
| 1 | HX-20 | HX-22 | HX-276 | HX-127 | 363-A16-1A | | | | | |
| 1-1/4 | HX-34 | 363-A01-1W | HX-248 | 363-A15-1X | HX-140 | HX-155 | | | | |
| 1-1/2 | HX-21 | HX-23 | HX-277 | HX-25 | 363-A08-1N | HX-156 | | | | |
| 1-3/4 | HX-96 | HX-113 | HX-278 | HX-129 | HX-142 | HX-157 | | | | |
| 2 | HX-97 | HX-24 | HX-279 | HX-26 | HX-143 | HX-158 | HX-170 | HX-182 | | |
| 2-1/4 | HX-98 | HX-114 | | HX-130 | HX-144 | HX-159 | HX-171 | HX-183 | | |
| 2-1/2 | HX-99 | HX-39 | | HX-27 | HX-145 | HX-160 | HX-172 | HX-184 | | |
| 2-3/4 | HX-304 | HX-115 | | HX-131 | HX-146 | HX-161 | HX-173 | HX-185 | | |
| 3 | HX-100 | HX-37 | | HX-132 | 363-A07-1C | HX-162 | HX-174 | HX-186 | | |
| 3-1/4 | HX-305 | HX-116 | | | HX-148 | 363-A20-1Y | HX-175 | 363-A10-1N | | |
| 3-1/2 | HX-101 | HX-38 | | HX-133 | HX-149 | HX-164 | HX-176 | HX-188 | | 363-520 |
| 4 | 363-458 | HX-117 | 363-420 | HX-134 | HX-150 | HX-165 | HX-177 | HX-189 | | 363-356 |
| 4-1/2 | 363-459 | HX-307 | | HX-135 | HX-151 | HX-166 | HX-178 | HX-190 | | |
| 5 | 363-418 | HX-308 | | HX-136 | HX-152 | HX-167 | HX-179 | HX-191 | | 363-457 |
| 5-1/2 | 363-518 | | | HX-137 | HX-153 | HX-168 | HX-180 | HX-192 | | |
| 6 | | 363-507 | | HX-138 | HX-154 | HX-169 | HX-181 | HX-193 | | 363-387 |
| 6-1/2 | 363-519 | | | 363-393 | 363-488 | 363-363 | | | | |
| 7 | | | | 363-494 | 363-489 | | 363-A21-1C | 363-471 | | |
| 8 | | | | | 363-388 | 363-437 | 363-500 | 363-485 | | 363-401 |
| 9 | | | | 363-325 | | 363-431 | | | 363-512 | |
| 9-1/2 | | | | | | | | 363-515 | | |
| 10 | | | | 363-511 | | 363-501 | | 363-526 | | |
| 12 | | | | | | 363-419 | | | | |

| DIA. | 1-3/8" | 1-1/2" |
|---|---|---|
| THD. | 6 | 6 |
| LGTH. | | |
| 3-1/2 | | 363-367 |
| 5 | | 363-434 |
| 6 | 363-509 | 363-521 |
| 7 | | 363-435 |
| | PKG QTY. 1 | |

**Contact Sales Desk For Package Quantities**

**For Hex Socket Cap Screws, Alloy Steel, FLAT HEAD**
**See Pages B200**

**For Holo-Krome® Hex Socket Cap Screws, Zinc Plated Alloy Steel, see pages B182 and B184.**



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B



# ALLOY STEEL

Not Plated

1960 Series

Quenched and tempered to hardness Rockwell C39-45 at the surface to #10 dia. incl.; C37-45 over #10 dia.

Threads Class 3A up to 1" dia.;

Class 2A over 1" dia.

***For Hex Keys see Section 'P'.***

## Thread Length Chart

| Screw Dia. | Thread Lengths Min. | Max. |
|---|---|---|
| #2 | 0.62 | 0.80 |
| #3 | 0.62 | 0.83 |
| #4 | 0.75 | 0.99 |
| #5 | 0.75 | 1.00 |
| #6 | 0.75 | 1.05 |
| #8 | 0.88 | 1.19 |
| #10 | 0.88 | 1.27 |
| 1/4" | 1.00 | 1.50 |
| 5/16" | 1.12 | 1.71 |
| 3/8" | 1.25 | 1.94 |

| Screw Dia. | Thread Lengths Min. | Max. |
|---|---|---|
| 7/16" | 1.38 | 2.17 |
| 1/2" | 1.50 | 2.38 |
| 5/8" | 1.75 | 2.82 |
| 3/4" | 2.00 | 3.25 |
| 7/8" | 2.25 | 3.69 |
| 1" | 2.50 | 4.12 |
| 1-1/8" | 2.82 | 4.65 |
| 1-1/4" | 3.12 | 5.09 |
| 1-3/8" | 3.44 | 5.65 |
| 1-1/2" | 3.75 | 6.08 |

**ASME B18.3**

## FINE THREAD (U.N.F.) (S.A.E.)

| DIA. | 0 | 1 | 4 | 6 | 8 | 10 | 1/4" | 5/16" | 3/8" |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 80 | 72 | 48 | 40 | 36 | 32 | 28 | 24 | 24 |
| LGTH. | ORDER BY *SPAENAUR* NUMBER LISTED BELOW | | | | | | | | |
| 1/8 | HX-47 | HX-51 | | | | | | | |
| 3/16 | HX-48 | HX-52 | | | | | | | |
| 1/4 | HX-49 | HX-53 | | | | 363-503 | 363-376 | | |
| 3/8 | HX-50 | HX-54 | | | 363-403 | HX-75 | 363-487 | 363-410 | |
| 1/2 | | 363-522 | 363-505 | | 363-498 | HX-76 | HX-87 | 363-396 | |
| 5/8 | | | | HX-288 | | HX-77 | HX-88 | HX-102 | |
| 3/4 | | | | 363-464 | HX-321 | HX-78 | HX-89 | HX-103 | HX-118 |
| 7/8 | | | | | | HX-79 | HX-90 | HX-104 | HX-340 |
| 1 | | | | | | HX-14 | HX-28 | HX-105 | HX-119 |
| 1-1/4 | | | | | | HX-80 | HX-29 | HX-106 | HX-120 |
| 1-1/2 | | | | | | HX-31 | HX-91 | HX-107 | HX-121 |
| 1-3/4 | | | | | | HX-199 | HX-35 | HX-108 | HX-122 |
| 2 | | | | | | HX-318 | HX-92 | HX-109 | HX-123 |
| 2-1/4 | | | | | | | HX-329 | HX-295 | HX-124 |
| 2-1/2 | | | | | | 363-433 | 363-427 | 363-482 | HX-125 |
| 3 | | | | | | | 363-486 | | HX-314 |
| 3-1/2 | | | | | | | | | 363-460 |
| 4 | | | | | | | | | 363-430 |
| 5 | | | | | | | | 363-492 | |

**Contact Sales Desk For Package Quantities**

Continues on Next Page

**For Hex Socket Cap Screws, Alloy Steel, COARSE THREAD**
**See Pages B196 and B197.**

**For Holo-Krome® Hex Socket Cap Screws, Zinc Plated Alloy Steel, see pages B182 and B184.**



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# ALLOY STEEL

Not Plated

1960 Series

**ASME B18.3**

Hex Socket Head Cap Screws can be used with SHEAR-LOC® knobs to quickly assemble your particular requirements of Thumb Screws. (See pages B284 and B285.)



## FINE THREAD (U.N.F.) (S.A.E.)

Continued from previous page.

| DIA. | 7/16" | 1/2" | 9/16" | 5/8" | 3/4" | 7/8" | 1" | 1-1/4" | 1-1/2" |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 20 | 20 | 18 | 18 | 16 | 14 | 14 | 12 | 12 |
| LGTH. | ORDER BY *SPAENAUR* NUMBER LISTED BELOW | | | | | | | | |
| 1 | HX-280 | HX-324 | | | | | | | |
| 1-1/4<br>1-1/2<br>1-3/4 | HX-281<br>HX-282 | 363-297<br>363-357<br>HX-325 | | 363-402 | 363-475 | | | | |
| 2<br>2-1/2 | HX-283<br>363-413 | HX-336<br>HX-316 | 363-426 | | 363-455 | | | | |
| 2-3/4<br>3<br>3-1/4 | 363-411 | 363-450<br>HX-326<br>363-495 | | 363-384 | 363-451 | | | | |
| 3-1/2<br>4 | | | | 363-425 | | 363-483 | 363-453 | | 363-A09-1T |
| 4-1/2<br>5 | | | | | 363-476 | | 363-525 | 363-514 | |
| 6<br>6-1/2<br>7 | | | | | 363-477<br>363-A18-1Y<br>363-479 | | | | 363-443 |
| 7-1/2<br>8 | | | | | 363-480<br>363-481 | | | | |

# HEX SOCKET CAP SCREWS LOW HEAD

Thread Class Fit 3A  Hardness RC 38-43



**ALLOY STEEL**

Not Plated

**ASME B18.3** **INCH Sizes**

| Head Dia. | .270/.265" | .312/.307" | .312/.307" | .375/.369" | .437/.431" | .562/.556" | .750/.743" |
|---|---|---|---|---|---|---|---|
| Head Height | .082/.079" | .095/.092" | .095/.092" | .125/.121" | .156/.152" | .187/.182" | .250/.244" |
| SCREW DIA. | 8 | 10 | 10 | 1/4" | 5/16" | 3/8" | 1/2" |
| Threads | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 18 UNC | 16 UNC | 13 UNC |
| Hex Size A/F | 5/64" | 3/32" | 3/32" | 1/8" | 5/32" | 3/16" | 1/4" |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 3/8" | 363-001 | 363-006 | 363-011 | 363-016 | | | |
| 1/2" | 363-002 | 363-007 | 363-012 | 363-017 | 363-022 | 363-028 | |
| 5/8" | 363-003 | 363-008 | 363-013 | | 363-023 | 363-029 | |
| 3/4" | 363-004 | 363-009 | 363-014 | 363-019 | 363-024 | 363-030 | 363-034 |
| 1" | 363-005 | 363-010 | 363-015 | 363-020 | 363-025 | 363-031 | 363-035 |
| 1-1/4" | | | | 363-021 | 363-026 | 363-032 | 363-036 |
| 1-1/2" | | | | | 363-027 | 363-033 | 363-A25-1W |

**Contact Sales Desk For Package Quantities**



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B

# ALLOY STEEL

Not Plated

## FLAT HEAD

**82° Head Angle.**



**FOR HIGH-STRENGTH, FLUSH-SURFACE FASTENING WITH MAXIMUM HEAD CONTACT.**

**ASME B18.3**

Quenched and tempered to hardness Rockwell C36-45 at the surface for sizes up to and including 1-1/2" dia.

**Threads Class 3A.**

### THREAD LENGTHS CHART

| Screw Dia. | Min. | Max. |
|---|---|---|
| #2 | 0.62 | 0.80 |
| #3 | 0.62 | 0.83 |
| #4 | 0.75 | 0.99 |
| #5 | 0.75 | 1.00 |
| #6 | 0.75 | 1.05 |
| #8 | 0.88 | 1.19 |
| #10 | 0.88 | 1.27 |
| 1/4" | 1.00 | 1.50 |
| 5/16" | 1.12 | 1.71 |
| 3/8" | 1.25 | 1.94 |
| 7/16" | 1.38 | 2.17 |
| 1/2" | 1.50 | 2.38 |
| 5/8" | 1.75 | 2.82 |
| 3/4" | 2.00 | 3.25 |
| 7/8" | 2.25 | 3.69 |
| 1" | 2.50 | 4.12 |
| 1-1/8" | 2.82 | 4.65 |
| 1-1/4" | 3.12 | 5.09 |
| 1-3/8" | 3.44 | 5.65 |
| 1-1/2" | 3.75 | 6.08 |

## FINE (UNF) AND COARSE (UNC) THREADS

| DIA. | 2 | 4 | 5 | 6 | 8 | 10 | 10 | 1/4" | 1/4" |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 56 UNC | 40 UNC | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 28 UNF |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 3/16<br>1/4<br>5/16 | 363-358<br>363-362 | 363-422<br>HX-200<br>363-324 | HX-338 | HX-203 | 363-313 | 363-315 | 363-314 | | |
| 3/8<br>1/2<br>5/8 | 363-382<br>363-370 | HX-201<br>HX-202 | HX-343<br>363-309<br>HX-339 | 363-A06-1Y<br>HX-205<br>HX-206 | HX-337<br>HX-208<br>HX-209 | HX-211 | HX-215<br>HX-216<br>HX-217 | HX-220<br>HX-221<br>HX-222 | 363-344<br>HX-319 |
| 3/4<br>1<br>1-1/4 | | HX-341<br>363-445 | 363-310<br>363-311 | HX-207<br>363-312 | HX-210<br>HX-313<br>363-414 | HX-212<br>HX-213<br>HX-214 | HX-218<br>363-A13-1W<br>363-351 | HX-223<br>HX-224<br>HX-225 | HX-320 |
| 1-1/2<br>1-3/4<br>2 | | | | | | 363-392<br>363-470 | 363-397 | HX-226<br>HX-227<br>HX-228 | 363-508<br>363-532 |
| 2-1/2<br>3 | | | | | | | 363-463 | 363-523<br>363-524 | |

**Contact Sales Desk For Package Quantities**

| DIA. | 5/16" | 5/16" | 3/8" | 3/8" | 7/16" | 1/2" | 1/2" | 5/8" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|---|---|---|---|
| THD. | 18 UNC | 24 UNF | 16 UNC | 24 UNF | 14 UNC | 13 UNC | 20 UNF | 11 UNC | 18 UNF | 10 UNC |
| 3/8<br>1/2<br>5/8 | 363-A17-1P<br>HX-229<br>HX-230 | HX-290 | 363-320 | | | | | | | |
| 3/4<br>1<br>1-1/4 | HX-231<br>HX-232<br>HX-233 | HX-291<br>HX-292<br>HX-293 | HX-235<br>HX-236<br>HX-237 | 363-380<br>HX-327 | 363-299<br>363-381 | HX-241<br>HX-242 | 363-394<br>HX-342<br>363-296 | 363-506<br>363-352 | | 363-354 |
| 1-1/2<br>1-3/4<br>2 | HX-234<br>363-391 | | HX-238<br>HX-239<br>HX-240 | HX-284 | 363-298 | HX-243<br>363-416<br>HX-244 | 363-440<br>HX-335 | HX-322<br>363-361<br>363-353 | 363-319 | 363-360<br>363-375 |
| 2-1/4<br>2-1/2<br>2-3/4 | 363-341<br>363-415<br>363-528 | | 363-348 | | 363-343 | 363-355<br>HX-245 | 363-504 | 363-371<br>363-372<br>363-316 | | 363-456 |
| 3<br>3-1/4<br>3-1/2 | | | 363-516<br>363-474 | | | HX-246<br>363-536<br>363-491 | | 363-A11-1T | | 363-405 |
| 4<br>5<br>5-1/2 | | | 363-510<br>363-517 | | | 363-490 | | 363-447 | | 363-467 |
| 6<br>6-1/2<br>7 | | | | | | 363-318 | | 363-448 | | 363-468<br>363-496 |
| 8 | | | | | | | | | | 363-530 |

**Larger Diameters — 363-513** 1"-8 UNC x 3" Long **PKG QTY. 10**





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# ALLOY STEEL

Not Plated

## BUTTON HEAD



## FINE (UNF) AND COARSE (UNC) THREADS

| DIA. | 2 | 4 | 5 | 6 | 8 | 10 | 10 | 1/4" | 1/4" |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 56 UNC | 40 UNC | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 28 UNF |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 3/16 | 363-359 | | | | | | | | |
| 1/4 | 363-342 | HX-250 | | HX-253 | HX-287 | 363-327 | 363-A04-1A | 363-408 | |
| 5/16 | | | | | | | | 363-317 | |
| 3/8 | | HX-251 | | HX-254 | HX-256 | HX-294 | HX-261 | HX-265 | 363-369 |
| 1/2 | 363-373 | HX-252 | 363-302 | HX-255 | HX-257 | HX-258 | HX-262 | HX-266 | 363-438 |
| 5/8 | | | 363-502 | 363-345 | 363-436 | 363-446 | HX-296 | HX-267 | |
| 3/4 | | 363-300 | 363-303 | 363-441 | 363-366 | HX-259 | HX-263 | HX-268 | 363-A05-1P |
| 7/8 | | | | | | 363-424 | | | |
| 1 | | 363-301 | 363-304 | 363-407 | 363-368 | HX-260 | HX-264 | HX-269 | 363-378 |
| 1-1/4 | | | | | 363-305 | 363-461 | 363-307 | 363-449 | |
| 1-1/2 | | | | | 363-306 | | 363-308 | | |

| DIA. | 5/16" | 5/16" | 3/8" | 3/8" | 1/2" | 1/2" |
|---|---|---|---|---|---|---|
| THD. | 18 UNC | 24 UNF | 16 UNC | 24 UNF | 13 UNC | 20 UNF |
| 3/8 | 363-346 | 363-377 | | | | |
| 1/2 | HX-270 | | 363-385 | | | |
| 5/8 | | | 363-347 | | | |
| 3/4 | HX-271 | HX-317 | HX-273 | HX-315 | | |
| 1 | HX-272 | 363-349 | HX-274 | 363-409 | HX-299 | 363-469 |
| 1-1/4 | 363-442 | | HX-275 | HX-328 | HX-309 | |
| 1-1/2 | 363-A24-1K | | 363-374 | | 363-429 | |
| 1-3/4 | 363-423 | | | | | |
| 2 | 363-364 | | 363-365 | | 363-406 | |
| 3 | | | | | 363-428 | |

**FOR SECURELY AND NEATLY FASTENING ALL THIN METAL PARTS.**

ASME B18.3.
Quenched and tempered to hardness Rockwell B70 at the surface to 1/2" dia. incl.; C36-43 over 1/2" dia.

Threads Class 3A.

Thread Lengths
The minimum thread length is twice screw diameter, plus 0.50", or up to within 2 threads of the head, at the option of the manufacturer.

**Contact Sales Desk For Package Quantities**

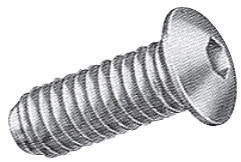
# Hex Socket Cap Screws

## BUTTON HEAD STAINLESS STEEL 18-8

Thread Class 2A or 3A Fit - Our Option.

Head/Body & Socket Dimensions to ANSI/ASME B 18.3

| DIA. | 4 | 5 | 6 | 8 | 10 | 10 | 1/4" | 5/16" | 3/8" | 1/2" |
|---|---|---|---|---|---|---|---|---|---|---|
| THD. | 40 UNC | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 18 UNC | 16 UNC | 13 UNC |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 1/4 | 370-400 | | 370-C49-1K | 370-404 | | 370-C20-1P | | | | |
| 3/8 | 370-401 | | 370-C56-1P | 370-C54-1X | 370-407 | 370-D14-1Y | 370-C61-1N | | | |
| 1/2 | 370-C27-1M | 370-440 | 370-C58-1C | 370-C90-1W | 370-C70-1P | 370-C31-1A | 370-C46-1C | | 370-D05-1T | |
| 5/8 | 370-427 | | | | | 370-C43-1A | 370-D13-1P | | | |
| 3/4 | | | | 370-424 | 370-409 | 370-C83-1Y | 370-C65-1M | 370-C19-1Y | 370-C57-1Y | |
| 1 | | | | 370-C42-1X | 370-C69-1Y | 370-C62-1T | 370-C38-1W | 370-C88-1W | 370-C77-1M | 370-D09-1X |
| 1-1/4 | | | | | | | 370-C24-1T | | 370-C37-1K | 370-441 |
| 1-1/2 | | | | 370-434 | 370-435 | | 370-C18-1P | 370-C93-1A | 370-C92-1X | |
| 2 | | | | | | | 370-C28-1X | | | |



Fully threaded

**Contact Sales Desk For Package Quantities**



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B



# Hex Socket Cap Screws
# 18-8 STAINLESS STEEL



**For Thread Length Chart, see page B198.**

**Head/Body & Socket Dimensions to ANSI/ASME B 18.3**

Min. tensile strength (up to 5/8" dia.) 80,000 psi.
1960 Series. Threads Class 2A or 3A Fit - our option.
Rockwell Hardness Min. B70

## FINE (UNF) AND COARSE (UNC) THREADS

| Diameter | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 8 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Thread | 80 UNF | 72 UNF | 56 UNC | 48 UNC | 40 UNC | 40 UNC | 32 UNC | 40 UNF | 32 UNC | 36 UNF | 24 UNC |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | | |
| 1/8 | | | | | 370-C29-1A | | | | | | |
| 3/16 | 370-C07-1Y | | 370-082 | | 370-C73-1N | | | | | | |
| 1/4 | 370-443 | 370-444 | 370-C36-1T | 370-003 | HX-2002 | 370-087 | 370-D02-1Y | | | | |
| 3/8 | 370-442 | | 370-C16-1X | | 370-C03-2M | 370-052 | 370-C06-1P | | HX-2009 | 370-D04-1N | 370-C08-1C |
| 1/2 | | | 370-D15-1C | | 370-C89-1M | | 370-D03-1C | 370-398 | 370-C23-1N | | HX-2014 |
| 5/8 | | | | | 370-085 | | 370-C64-1W | 370-399 | 370-C40-1W | | 370-C78-1X |
| 3/4 | | | | | 370-C17-1A | | 370-C95-1Y | | 370-C84-1C | | HX-2001 |
| 7/8" | | | | | | | 370-457 | | | | |
| 1 | | | | | 370-083 | | 370-072 | | 370-C50-1T | | HX-2015 |
| 1-1/4 | | | PKG QTY. 50 | | | | 370-C55-1A | | 370-C72-1C | | 370-C41-1M |
| 1-3/8 | | | | | | | | | | | 370-080 |
| 1-1/2 | | | | | | | 370-C79-1A | | 370-C96-1C | | 370-051 |
| 1-3/4 | | | | | | | 370-075 | | 370-C68-1P | | |
| 2 | | | | | | | 370-076 | | 370-D07-1W | | 370-071 |
| 2-1/4 | | | | | | | | | 370-101 | | |
| 2-1/2 | | | | | | | 370-077 | | | | |
| 3 | | | | | | | 370-078 | | | | |

| Diameter | 10 | 1/4" | 1/4" | 5/16" | 5/16" | 3/8" | 3/8" | 7/16" | 1/2" | 5/8" |
|---|---|---|---|---|---|---|---|---|---|---|
| Thread | 32 UNF | 20 UNC | 28 UNF | 18 UNC | 24 UNF | 16 UNC | 24 UNF | 14 UNC | 13 UNC | 11 UNC |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 1/4 | 370-067 | | | | | | | | | |
| 5/16 | | | 370-097 | | | | | PKG QTY. 25 | | |
| 3/8 | 370-C11-2N | 370-D18-1K | | | | | | | | |
| 1/2 | 370-C04-2Y | HX-2023 | 370-D16-1N | 370-060 | | | | | | |
| 5/8 | 370-053 | HX-2044 | | 370-091 | 370-438 | 370-086 | | | | |
| 3/4 | 370-C47-1N | 370-C32-1P | 370-C67-1A | 370-C66-1X | | 370-D19-1W | 370-103 | | 370-055 | |
| 7/8 | | 370-042 | | 370-C87-1K | | 370-002 | | | | |
| 1 | HX-2020 | 370-D11-1X | 370-057 | HX-2000 | 370-073 | 370-C15-1M | 370-104 | | HX-2043 | |
| 1-1/4 | HX-2021 | 370-C12-2T | 370-445 | HX-2031 | 370-C60-1C | *HX-2038 | | | 370-C98-1T | |
| 1-1/2 | 370-058 | HX-2027 | 370-098 | 370-C71-1Y | | 370-C63-1K | 370-059 | | 370-C13-2K | 370-105 |
| 1-3/4 | 370-062 | 370-048 | | HX-2033 | | HX-2040 | | | 370-045 | |
| 2 | | 370-C80-1X | | HX-2034 | | 370-C02-2W | 370-079 | 370-D06-1K | 370-C99-1K | 370-095 |
| 2-1/4 | | | | | 370-099 | | | | | |
| 2-1/2 | | 370-064 | | HX-2035 | | 370-C91-1M | | | 370-093 | |
| 2-3/4 | | | | | | | | | 370-005 | |
| 3 | | 370-D17-1T | ■370-450 | | | | | 370-090 | | |
| 4 | | | PKG QTY. 50 | | | | | | 370-094 | 370-447 |
| 5 | | | | | | | | | 370-100 (PKG QTY. 10) | |

■316 Stainless Steel (PKG QTY. 10) ***370-449** 316 Stainless Steel





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# STAINLESS STEEL 18-8

## FLAT HEAD

82° Head Angle

Threads Class 2A or 3A Fit - our option.



**Coarse and Fine Thread**

**Head/Body & Socket Dimensions to ANSI/ASME B 18.3**

For Thread Length see Chart on B200.



| | Order by ***SPAENAUR No.*** Listed Below | | | | | | |
|---|---|---|---|---|---|---|---|
| **DIA.** | **2** | **4** | **5** | **6** | **8** | **10** | **10** |
| **THD.** | 56 UNC | 40 UNC | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF |
| 3/16 Lgth. | | **370-354** | | | | | |
| 1/4 | **370-332** | **370-335** | **370-397** | **370-301** | **370-C30-1X** | | **370-C85-1N** |
| 3/8 | | **370-C76-1W** | | **370-C26-1W** | **370-304** | | **370-C44-1P** |
| 1/2 | | **370-D12-1A** | | **370-C94-1P** | **370-C39-1M** | **370-C14-2W** | **370-C51-1K** |
| 5/8 | | | | **370-437** | **370-306** | **370-C45-1Y** | **370-311** |
| 3/4 | | | | **370-C10-2C** | **370-307** | **370-309** | **370-312** |
| 7/8 | | | | | | | **370-046** |
| 1 | | | | **370-351** | | **370-C81-1A** | **370-C01-2K** |
| 1-1/2 | | | | | | | **370-C82-1P** |

| **DIA.** | **1/4"** | **1/4"** | **5/16"** | **5/16"** | **3/8"** | **1/2"** |
|---|---|---|---|---|---|---|
| **THD.** | 20 UNC | 28 UNF | 18 UNC | 24 UNF | 16 UNC | 13 UNC |
| 3/8 Lgth. | | **370-D01-1P** | | | | |
| 1/2 | **370-C35-1N** | **370-341** | **370-C09-1N** | | | |
| 5/8 | **370-C52-1W** | **370-342** | **370-C75-1K** | | | |
| 3/4 | **370-C05-2A** | | **370-D10-1M** | | **370-319** | **370-349** |
| 7/8 | **370-C48-1T** | | | | | |
| 1 | **370-C22-1C** | **370-334** | **370-C86-1T** | **370-338** | **370-D08-1M** | **370-324** |
| 1-1/4 | | | **370-C53-1M** | | **370-C74-1T** | **370-325** |
| 1-1/2 | **370-C25-1K** | **370-333** | **370-344** | | **370-322** | **370-326** |
| 1-3/4 | | | **370-345** | | | |
| 2 | **370-C33-1Y** | | **370-343** | | **370-323** | **370-355** |
| 2-1/2 | | | **370-347** | | | |
| 3 | | | | | | **370-C97-1N** |

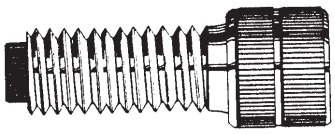
**Contact Sales Desk For Package Quantities**

# Hex Socket Cap Screws

## ALLOY STEEL

Not Plated

## BRASS AND NYLON TIPPED



**LOCK:** Collars / Pulleys / Bearings / Cams...to Shafts

**PROTECT**: Finished surfaces and threads

**PKG QTY. 10**

| | Order by ***SPAENAUR No.*** Listed Below | | | | | |
|---|---|---|---|---|---|---|
| **Thread** | **10-32 UNF** | | **1/4"-20 UNC** | | **5/16"-18 UNC** | |
| **Tip Material** | **BRASS** | **NYLON** | **BRASS** | **NYLON** | **BRASS** | **NYLON** |
| **Length** 1/2" | **359-167** | **359-176** | **359-170** | **359-179** | **359-173** | **359-182** |
| 3/4" | **359-168** | **359-177** | **359-171** | **359-180** | **359-174** | **359-183** |
| 1" | **359-169** | **359-178** | **359-172** | **359-181** | **359-175** | **359-184** |



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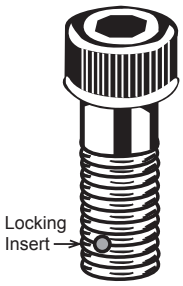
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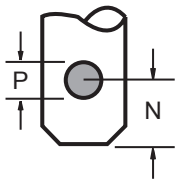
# ALLOY STEEL

Not Plated

*with PELLETIZED*

# NYLON LOCKING INSERT




**The Pellet Material is:**

## TYPE 6/6 NYLON

(N) Pellet Location:

Tolerance: ±1/2 of Thread Pitch

**MATERIAL: Alloy Steel Heat Treated HRC 39-45.**

**Screw Spec. to ASME B18.3 / ASTM A574**

**Class 3A Thread Fit Standard**

For pellet location (N) - See data below.

SELF-LOCKING threaded parts with nylon pellet or strip are self-locking; nylon is resilient, reusable; causes positive locking action (plus metal-to-metal engagement of the mating threads). Nylon inserts act as a wedge, creating a counter-thrust when deformed. Plastic memory strives to regain original shape, causing positive locking.

ADJUSTABLE threaded parts with nylon pellet or strip are fully adjustable, vibration-proof, and easy to use for accurate minimal adjustments (regardless of whether fastener is seated or not). Screws cannot back off or loosen, due to the plastic memory of nylon, which causes a counter-thrust on the mating threads.

Nylon 6/6 is unaffected by commercial solvents, alcohols, gasoline, oil, or water. It retains its high strength and low absorption at **-57°C** (-70°F); withstands continuous heat up to **121°C** (250°F); is an ideal pressure seat.

| Thread Size | #4 | #5 | #6 | #8 | #10 | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P - Pellet Diameter | .062" | .062" | .078" | .093" | .093" | .109" | .125" | .141" | .156" | .156" | .188" | .219" |
| N - Pellet Location | 7/64" | 7/64" | 1/8" | 1/8" | 5/32" | 3/16" | 13/64" | 7/32" | 15/64" | 1/4" | 5/16" | 23/64" |

## COARSE THREAD

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**

| Length | 4-40 | 5-40 | 6-32 | 8-32 |
|---|---|---|---|---|
| 1/4 | 359-001 | 359-006 | 359-007 | 359-014 |
| 3/8 | 359-002 | | 359-008 | 359-015 |
| 1/2 | 359-003 | 359-161 | 359-009 | 359-016 |
| 5/8 | 359-004 | | 359-010 | 359-017 |
| 3/4 | 359-005 | | 359-011 | 359-019 |
| 7/8 | | | 359-012 | |
| 1 | | | 359-013 | 359-020 |
| 1-1/4 | | | | 359-021 |

| Length | 10-24 | 1/4"-20 | 5/16"-18 | 3/8"-16 | 7/16"-14 | 1/2"-13 |
|---|---|---|---|---|---|---|
| 3/8 | 359-022 | 359-028 | 359-036 | | | |
| 1/2 | 359-023 | 359-029 | 359-037 | 359-045 | | |
| 5/8 | | 359-030 | 359-038 | | | |
| 3/4 | 359-024 | 359-031 | 359-039 | 359-046 | | 359-052 |
| 7/8 | | 359-032 | | | | |
| 1 | 359-025 | 359-033 | 359-040 | 359-047 | 359-051 | 359-053 |
| 1-1/4 | 359-026 | 359-034 | 359-041 | 359-048 | | |
| 1-1/2 | 359-027 | 359-035 | 359-042 | 359-049 | | 359-164 |
| 1-3/4 | | | 359-043 | | | |
| 2 | | | 359-044 | 359-050 | | 359-165 |
| 3 | | | | | | 359-166 |

**Contact Sales Desk For Package Quantities**





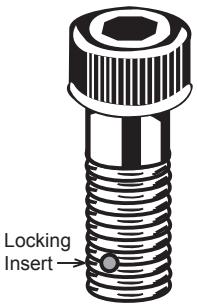
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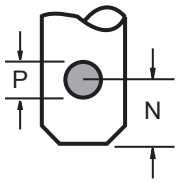
# ALLOY STEEL

Not Plated

*with PELLETIZED*

# NYLON LOCKING INSERT




**MATERIAL: Alloy Steel Heat Treated HRC 39-45.**
**Screw spec. to ASME B18.3 / ASTM A574**
**Class 3A Thread Fit Standard**

**The Pellet Material is:**
**TYPE 6/6 NYLON**

*For pellet location (N) and additional data see preceding page B204.*

B

## FINE THREAD

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**

| Length | 10-32 | 1/4"-28 | 5/16"-24 | 3/8"-24 | 7/16"-20 | 1/2"-20 | 5/8"-18 |
|---|---|---|---|---|---|---|---|
| 3/8 | 359-054 | 359-060 | | | | | |
| 1/2 | 359-055 | 359-061 | 359-064 | | | | |
| 5/8 | 359-056 | 359-160 | | 359-067 | | | |
| 3/4 | 359-057 | 359-062 | 359-065 | 359-068 | | | |
| 7/8 | | 359-158 | | | | | |
| 1 | 359-058 | 359-063 | 359-066 | 359-069 | 359-157 | 359-070 | |
| 1-1/4 | 359-059 | | | 359-153 | | | 359-163 |
| 1-1/2 | | 359-151 | 359-185 | | | | |
| 2 | | | | | | 359-071 | |
| 2-1/4 | | | 359-162 | | | | |

# 18-8 STAINLESS STEEL




**Inch Sizes**
***PELLETIZED***

*For pellet location (N) and additional data see preceding page B204.*

**Thread Class 2A or 3A Fit our option**

**Screw spec. to ASME B18.3.**
Vertical knurled heads from 6-32 up.
Min. tensile strength (up to 5/8" dia.) 80,000 psi.

## COARSE THREAD (U.N.C.)

| Length | 4-40 | 6-32 | 8-32 | 10-24 | 1/4"-20 | 5/16"-18 | 3/8"-16 |
|---|---|---|---|---|---|---|---|
| 1/4 | 361-001 | 361-004 | | | | | |
| 3/8 | 361-002 | 361-005 | 361-008 | 361-012 | 361-015 | | |
| 1/2 | 361-003 | 361-006 | 361-009 | 361-013 | 361-016 | 361-020 | |
| 3/4 | | 361-007 | 361-010 | | 361-017 | 361-021 | 361-023 |
| 1 | | | 361-011 | 361-014 | 361-018 | 361-022 | 361-024 |
| 1-1/4 | | | | | 361-019 | | 361-025 |

## FINE THREAD (U.N.F.)

| Length | 10-32 | 1/4"-28 |
|---|---|---|
| 3/8 | 361-026 | |
| 1/2 | 361-027 | 361-031 |
| 3/4 | 361-028 | 361-032 |
| 1 | 361-029 | 361-034 |
| 1-1/4 | 361-030 | |

**Contact Sales Desk For Package Quantities**

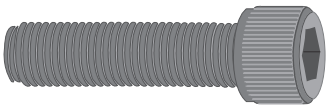


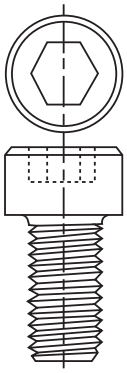


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B

# *MOULDED* 6/6 NYLON
(Natural Colour) HEX SOCKET CAP SCREW



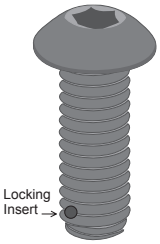


| COARSE and FINE THREADS | | | | | | | UNC & UNF | | |
|---|---|---|---|---|---|---|---|---|---|
| **DIA.** | **4** | **6** | **8** | **10** | **10** | **1/4"** | **5/16"** | **3/8"** | **1/2"** |
| **THD.** | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 18 UNC | 16 UNC | 13 UNC |
| **LENGTH** | **ORDER BY *SPAENAUR* NUMBERS LISTED BELOW** | | | | | | | | |
| 1/2" | | | **374-005** | | **374-012** | **374-013** | **374-017** | | |
| 3/4" | **374-006** | **374-007** | **374-008** | **374-009** | | **374-011** | | **374-014** | |
| 1" | | **374-001** | **374-003** | **374-010** | **374-002** | **374-004** | | | |
| 1-1/4" | | | | | | | | | **374-019** |
| 1-1/2" | | | | | | | **374-018** | **374-016** | **PKG QTY.** |
| 2" | | | | | | **374-015** | | | |
| | **PKG QTY. 100** | | | | | **PKG QTY. 50** | | | **25** |

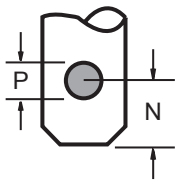
# PELLETIZED BUTTON HEAD HEX SOCKET
## Boulons de précision à tête creuse *«pelletized»*

**ALLOY STEEL**
**(Not Plated)**

*with PELLETIZED*
**NYLON LOCKING INSERT**




**Hex-Socket BUTTON HEAD**




**Screw spec. to ASME B18.3 / ASTM A574.**
**MATERIAL: Alloy Steel Heat Treated HRC 39-45.**
**Class 3A Thread Fit Standard**
For pellet location (N) and additional info and chart see page B204.

**The Pellet Material is:**
**TYPE 6/6 NYLON**

Unaffected by commercial solvents, alcohols, gasoline, oil, or water. It retains its high strength and low absorption at **-57°C** (-70°F); withstands continuous heat up to **121°C** (250°F); is an ideal pressure seat.

(N) Pellet Location:
Tolerance: ±1/2 of Thread Pitch

| Inch Sizes | COARSE THREAD | | | | | | | | FINE THREAD |
|---|---|---|---|---|---|---|---|---|---|
| **Length** | **4-40** | **6-32** | **8-32** | **10-24** | **1/4"-20** | **5/16"-18** | **3/8"-16** | **1/2"-13** | **10-32** |
| 1/4" | **359-120** | **359-123** | **359-127** | **359-130** | | | | | **359-147** |
| 3/8" | **359-121** | **359-124** | **359-128** | **359-131** | **359-135** | **359-140** | | | **359-148** |
| 1/2" | **359-122** | **359-125** | **359-129** | **359-132** | **359-136** | **359-141** | **359-142** | | **359-149** |
| 5/8" | | **359-126** | | | **359-137** | | **359-152** | | |
| 3/4" | | | | **359-133** | **359-138** | | **359-143** | | **359-150** |
| 1" | | | | **359-134** | **359-139** | | **359-144** | **359-146** | |
| 1-1/4" | | | | | | **359-156** | **359-145** | | |

**Contact Sales Desk For Package Quantities**



 P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

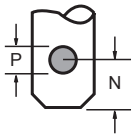
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# ALLOY STEEL WITH PELLETIZED NYLON LOCKING INSERT

NOT PLATED




Socket
FLAT HEAD




**Screw spec to ASME B18.3.**
**MATERIAL: #2 thru #8 Alloy Steel Heat Treated RC- 28-32**
**#10 thru 3/4" Alloy Heat Treated RC-38-42**
**Class 3A Thread Fit Standard**

For pellet location (N) and general information see data below and chart on page B204.

B

## The Pellet Material is:
## TYPE 6/6 NYLON

-unaffected by commercial solvents, alcohols, gasoline, oil, or water. It retains its high strength and low absorption at **-57°C** (-70°F); withstands continuous heat up to **121°C** (250°F); is an ideal pressure seat.

**Contact Sales Desk For Package Quantities**

### COARSE THREAD

| Length | 4-40 | 6-32 | 8-32 | 10-24 | 1/4"-20 |
|---|---|---|---|---|---|
| 1/4 | **359-072** | | | | |
| 3/8 | **359-073** | **359-075** | **359-079** | **359-084** | **359-088** |
| 1/2 | **359-074** | **359-076** | **359-080** | **359-085** | **359-089** |
| 5/8 | | **359-077** | **359-081** | | **359-090** |
| 3/4 | | **359-078** | **359-082** | ***359-086** | **359-091** |
| 1 | | | **359-083** | **▲359-087** | **359-092** |
| 1-1/4 | | | | | **359-093** |
| 1-3/4 | | | | | **359-094** |
| 1-3/4 | | | | | (18-8 SS) **361-037** |
| 2 | | | | | (18-8 SS) **361-038** |

***361-035** 18-8 Stainless Steel **▲361-036** 18-8 Stainless Steel

| Length | 5/16"-18 | 3/8"-16 | 1/2"-13 |
|---|---|---|---|
| 5/8 | **359-095** | **359-099** | |
| 3/4 | **359-096** | **359-100** | **359-104** |
| 1 | **359-097** | **359-101** | **359-105** |
| 1-1/4 | | **359-102** | **359-106** |
| 1-1/2 | **359-098** | **359-103** | **359-107** |
| 2 | | | **359-108** |

### FINE THREAD

| Length | 10-32 | 1/4"-28 | 5/16"-24 | 3/8"-24 | 1/2"-20 |
|---|---|---|---|---|---|
| 3/8 | **359-109** | **359-114** | | | |
| 1/2 | **359-110** | **359-115** | | | |
| 5/8 | **359-111** | **359-116** | | | |
| 3/4 | **359-112** | | | | **359-118** |
| 1 | **359-113** | **359-117** | **359-159** | **359-154** | |
| 2 | | | | | **359-119** |

For Hex Socket Cap Screw with Pelletized Nylon Locking Insert see Page B204



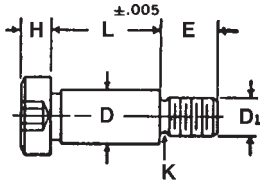
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B

**NOTE:** Plain or knurled head furnished at our option as available.






### "ALLOY" STEEL

**Heat treated**
**Not Plated**

Rockwell "C" hardness of 32-43 at the surface.

**Threads:**
Unified standard, Class 3A, UNC Series, to American National Standard, ANSI, B1.1.



### 18-8 STAINLESS STEEL

**Threads:**
Class 3A or 2A our option.

**Head/Body & Socket Dimensions to ANSI/ASME B 18.3**

### "STRIPPER BOLTS"

| Shoulder Dia. | Shoulder Length | U.N.C. Thread | *SPAENAUR Nos.* STEEL | STAINLESS |
|---|---|---|---|---|
| **1/4"** 1/8" Key | 1/4" | 10-24 | **364-074** | — |
| | 3/8" | 10-24 | **364-022** | **364-A06-1P** |
| | 1/2" | 10-24 | **HX-289SB** | **364-A01-1K** |
| | 5/8" | 10-24 | **HX-312SB** | **364-802** |
| | 3/4" | 10-24 | **HX-330SB** | **364-A13-1K** |
| | 1" | 10-24 | **364-A02-1W** | **364-804** |
| | 1-1/4" | 10-24 | **364-014** | **364-805** |
| | 1-1/2" | 10-24 | **364-015** | **364-A15-1M** |
| | 1-3/4" | 10-24 | **364-086** | — |
| | 2" | 10-24 | **364-084** | — |
| | 2-1/2" | 10-24 | **364-090** | — |
| **5/16"** 5/32" Key | 5/16" | 1/4-20 | **364-093** | — |
| | 3/8" | 1/4-20 | **364-023** | **364-807** |
| | 1/2" | 1/4-20 | **HX-297SB** | **364-808** |
| | 5/8" | 1/4-20 | **HX-331SB** | **364-809** |
| | 3/4" | 1/4-20 | **HX-298SB** | **364-A14-1W** |
| | 7/8" | 1/4-20 | — | **364-811** |
| | 1" | 1/4-20 | **HX-286SB** | **364-A03-1M** |
| | 1-1/4" | 1/4-20 | **HX-332SB** | **364-A04-1X** |
| | 1-1/2" | 1/4-20 | **364-024** | **364-814** |
| | 1-3/4" | 1/4-20 | **364-025** | **364-A05-1A** |
| | 2" | 1/4-20 | **364-026** | **364-816** |
| **3/8"** 3/16" Key | 1/4" | 5/16-18 | **364-092** | — |
| | 3/8" | 5/16-18 | **364-018** | **364-817** |
| | 1/2" | 5/16-18 | **364-012** | **364-818** |
| | 5/8" | 5/16-18 | **HX-311SB** | **364-A10-1C** |
| | 3/4" | 5/16-18 | **HX-333SB** | **364-A07-1Y** |
| | 1" | 5/16-18 | **HX-334SB** | **364-A08-1C** |
| | 1-1/4" | 5/16-18 | **364-027** | **364-822** |
| | 1-1/2" | 5/16-18 | **364-028** | **364-823** |
| | 1-3/4" | 5/16-18 | **364-029** | **364-A09-1N** |
| | 2" | 5/16-18 | **364-030** | **364-825** |
| | 2-1/4" | 5/16-18 | **364-031** | — |
| | 2-1/2" | 5/16-18 | **364-032** | — |
| | 2-3/4" | 5/16-18 | **364-033** | — |
| | 3" | 5/16-18 | **364-034** | — |
| | 3-1/4" | 5/16-18 | **364-035** | — |
| | 3-1/2" | 5/16-18 | **364-036** | — |
| | 4" | 5/16-18 | **364-037** | — |

| Shoulder Dia. | Shoulder Length | U.N.C. Thread | *SPAENAUR Nos.* STEEL | STAINLESS |
|---|---|---|---|---|
| **1/2"** 1/4" Key | 1/2" | 3/8-16 | **364-021** | **364-826** |
| | 5/8" | 3/8-16 | **364-019** | **364-827** |
| | 3/4" | 3/8-16 | **364-017** | **364-A12-1T** |
| | 1" | 3/8-16 | **364-038** | **364-829** |
| | 1-1/4" | 3/8-16 | **364-039** | **364-A11-1N** |
| | 1-1/2" | 3/8-16 | **364-020** | **364-831** |
| | 1-3/4" | 3/8-16 | **364-040** | **364-832** |
| | 2" | 3/8-16 | **364-016** | **364-833** |
| | 2-1/4" | 3/8-16 | **364-041** | — |
| | 2-1/2" | 3/8-16 | **364-042** | — |
| | 2-3/4" | 3/8-16 | **364-043** | — |
| | 3" | 3/8-16 | **364-044** | — |
| | 3-1/4" | 3/8-16 | **364-045** | — |
| | 3-1/2" | 3/8-16 | **364-046** | — |
| | 4" | 3/8-16 | **364-047** | — |
| | 4-1/2" | 3/8-16 | **364-048** | — |
| | 5" | 3/8-16 | **364-049** | — |
| **5/8"** 5/16" Key | 3/4" | 1/2-13 | **364-076** | — |
| | 1" | 1/2-13 | **364-077** | — |
| | 1-1/4" | 1/2-13 | **364-050** | — |
| | 1-1/2" | 1/2-13 | **364-051** | — |
| | 1-3/4" | 1/2-13 | **364-052** | — |
| | 2" | 1/2-13 | **364-053** | — |
| | 2-1/4" | 1/2-13 | **364-054** | — |
| | 2-1/2" | 1/2-13 | **364-055** | — |
| | 2-3/4" | 1/2-13 | **364-056** | — |
| | 3" | 1/2-13 | **364-057** | — |
| | 3-1/4" | 1/2-13 | **364-058** | — |
| | 3-1/2" | 1/2-13 | **364-059** | — |
| | 4" | 1/2-13 | **364-060** | — |
| | 4-1/2" | 1/2-13 | **364-061** | — |
| | 5" | 1/2-13 | **364-062** | — |

Continues on Next Page

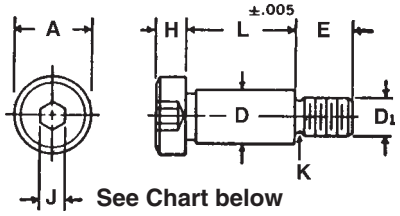
**See B209 for larger shoulder diameters and technical information on Inch Hex Socket Shoulder Screws.**




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**NOTE:** Plain or knurled head furnished at our option as available.






**See Chart below**

## "ALLOY" STEEL

**Heat treated**
**Not Plated**

Rockwell "C" hardness of 32-43 at the surface.

**Threads:**
Unified standard, Class 3A, UNC Series, to American National Standard, ASME B18.3.



## 18-8 STAINLESS STEEL

**Threads:**
Class 3A or 2A our option.

B

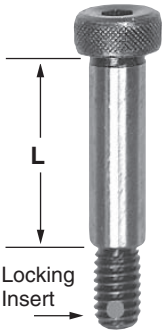
…Continued from previous page.

## "STRIPPER BOLTS"

| Shoulder Dia. | Shoulder Length | U.N.C. Thread | *SPAENAUR Nos.* STEEL |
|---|---|---|---|
| **3/4"** 3/8" Key | 3/4" | 5/8-11 | **364-079** |
| | 1" | 5/8-11 | **364-088** |
| | 1-1/4" | 5/8-11 | **364-080** |
| | 1-1/2" | 5/8-11 | **364-063** |
| | 1-3/4" | 5/8-11 | **364-064** |
| | 2" | 5/8-11 | **364-065** |
| | 2-1/4" | 5/8-11 | **364-066** |
| | 2-1/2" | 5/8-11 | **364-067** |
| | 2-3/4" | 5/8-11 | **364-068** |
| | 3" | 5/8-11 | **364-069** |
| | 3-1/2" | 5/8-11 | **364-070** |
| Cont'd.... **3/4"** 3/8" Key | 4" | 5/8-11 | **364-071** |
| | 4-1/2" | 5/8-11 | **364-072** |
| | 5" | 5/8-11 | **364-073** |
| **1"** 1/2" Key | 1-1/2" | 3/4-10 | **364-082** |
| | 2" | 3/4-10 | **364-085** |
| | 2-1/2" | 3/4-10 | **364-075** |
| | 3" | 3/4-10 | **364-087** |
| | 3-1/2" | 3/4-10 | **364-083** |
| | 4" | 3/4-10 | **364-078** |
| **1 1/4"** 5/8" Key | 2-1/4" | 7/8-9 | **364-091** |
| | 3" | 7/8-9 | **364-081** |

### Hex Socket Shoulder Screw Technical Information

| Nom. Size or Basic Shoulder Dia. | | D Shoulder Diameter Max | D Shoulder Diameter Min | A Head Diameter Max. | A Head Diameter Min. | H Head Height Max. | H Head Height Min. | D1 Nom. Thread Size or Basic Thread Dia. | | Threads Per Inch | E Thread Length Basic | K Thread Neck Wdth. Max. | J Hexagon Socket Size Nom. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1/4"** | 0.250 | 0.2480 | 0.2460 | 0.375 | 0.357 | 0.188 | 0.177 | 10 | 0.1900 | 24 | 0.375 | 0.062 | 1/8 | 0.125 |
| **5/16"** | 0.312 | 0.3105 | 0.3085 | 0.438 | 0.419 | 0.219 | 0.209 | 1/4 | 0.2500 | 20 | 0.438 | 0.075 | 5/32 | 0.156 |
| **3/8"** | 0.375 | 0.3730 | 0.3710 | 0.562 | 0.543 | 0.250 | 0.240 | 5/16 | 0.3125 | 18 | 0.500 | 0.083 | 3/16 | 0.188 |
| **1/2"** | 0.500 | 0.4980 | 0.4960 | 0.750 | 0.729 | 0.312 | 0.302 | 3/8 | 0.3750 | 16 | 0.625 | 0.093 | 1/4 | 0.250 |
| **5/8"** | 0.625 | 0.6230 | 0.6210 | 0.875 | 0.853 | 0.375 | 0.365 | 1/2 | 0.5000 | 13 | 0.750 | 0.115 | 5/16 | 0.312 |
| **3/4"** | 0.750 | 0.7480 | 0.7460 | 1.000 | 0.977 | 0.500 | 0.490 | 5/8 | 0.6250 | 11 | 0.875 | 0.136 | 3/8 | 0.375 |
| **1"** | 1.000 | 0.9980 | 0.9960 | 1.312 | 1.287 | 0.625 | 0.610 | 3/4 | 0.7500 | 10 | 1.000 | 0.150 | 1/2 | 0.500 |
| **1-1/4"** | 1.250 | 1.2480 | 1.2460 | 1.750 | 1.723 | 0.750 | 0.735 | 7/8 | 0.8750 | 9 | 1.125 | 0.222 | 5/8 | 0.625 |




## PELLETIZED Hex Socket SHOULDER SCREWS (STRIPPER BOLTS)

**Alloy Steel Heat Treated**
Not Plated
**with Type 6/6 Nylon Pellet**



| Shoulder DIA. | | 1/4" | 5/16" | 3/8" | 1/2" |
|---|---|---|---|---|---|
| U.N.C. Thread | | 10-24 | 1/4"-20 | 5/16"-18 | 3/8"-16 |
| Shoulder Length | L | ORDER BY *SPAENAUR* NUMBER | | | |
| | 3/8 | **359-200** | | **359-207** | |
| | 1/2 | | **359-204** | **359-208** | |
| | 5/8 | **359-201** | **359-205** | **359-209** | **359-211** |
| | 3/4 | **359-202** | **359-206** | **359-210** | |
| | 1 | **359-203** | | | **359-212** |

For Pellet Location and additonal info. see page B204.

**Contact Sales Desk For Package Quantities**



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

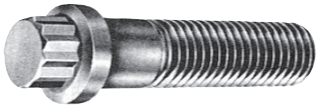


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# ALLOY STEEL

**DOUBLE HEAT TREATED BLACK SATIN FINISH**

**IFI - 115 1986**



**12 point Flanged Head**

# COUNTR-BOR SCREWS

- Wrenches Tighter!
- Wrenches Faster!
- Smooth Appearance!
- And Saves You Money on Assembly Time!

B

MATERIAL - Alloy Steel. HEAT TREATMENT - Rockwell C-36-43. TENSILE STRENGTH - 170,000 PSI Min. YIELD STRENGTH - 158,000 PSI Min. PROOF LOAD 135,000 PSI Min.

## COARSE THREAD UNRC-3A

| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 14 | 13 | 11 | 10 | 9 | 8 |
| Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 1/2 | CS-151 | CS-164 | | | | | | | |
| 5/8 | CS-152 | CS-165 | CS-179 | CS-196 | CS-211 | | | | |
| 3/4 | CS-153 | CS-166 | CS-180 | CS-197 | CS-212 | | | | |
| 7/8 | CS-154 | CS-167 | CS-181 | CS-198 | CS-213 | | | | |
| 1 | CS-155 | CS-168 | CS-182 | CS-199 | CS-214 | CS-232 | | | |
| 1-1/4 | CS-156 | CS-169 | CS-183 | CS-200 | CS-215 | CS-233 | CS-250 | | |
| 1-1/2 | CS-157 | CS-170 | CS-184 | CS-201 | CS-216 | CS-234 | CS-251 | | |
| 1-3/4 | CS-158 | CS-171 | CS-185 | CS-202 | CS-217 | CS-235 | CS-252 | | |
| 2 | CS-159 | CS-172 | CS-186 | CS-203 | CS-218 | CS-236 | CS-253 | CS-267 | CS-281 |
| 2-1/4 | CS-160 | CS-173 | CS-187 | CS-204 | CS-219 | CS-237 | CS-254 | CS-268 | CS-282 |
| 2-1/2 | CS-161 | CS-174 | CS-188 | CS-205 | CS-220 | CS-238 | CS-255 | CS-269 | CS-283 |
| 2-3/4 | CS-162 | CS-175 | CS-189 | CS-206 | CS-221 | CS-239 | CS-256 | CS-270 | CS-284 |
| 3 | CS-163 | CS-176 | CS-190 | CS-207 | CS-222 | CS-240 | CS-257 | CS-271 | CS-285 |
| 3-1/2 | | CS-177 | CS-191 | CS-208 | CS-223 | CS-241 | CS-258 | CS-272 | CS-286 |
| 4 | | | CS-192 | CS-209 | CS-224 | CS-242 | CS-259 | CS-273 | CS-287 |
| 4-1/2 | | | CS-193 | | CS-225 | CS-243 | CS-260 | CS-274 | CS-288 |
| 5 | | | CS-194 | | CS-226 | CS-244 | CS-261 | CS-275 | CS-289 |
| 5-1/2 | | | | | CS-227 | CS-245 | CS-262 | CS-276 | CS-290 |
| 6 | | | | | CS-228 | CS-246 | CS-263 | CS-277 | CS-291 |
| 6-1/2 | | | | | CS-229 | CS-247 | 357-F01-1Y | CS-278 | CS-292 |
| 7 | | | | | CS-230 | CS-248 | CS-265 | CS-279 | CS-293 |
| 8 | | | | | | CS-249 | | | |

## FINE THREAD UNRF-3A

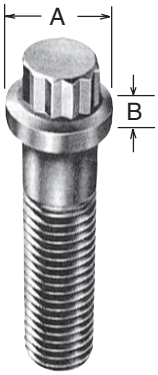
| DIA. | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 |
|---|---|---|---|---|---|---|---|---|
| THD. | 28 | 24 | 24 | 20 | 20 | 18 | 16 | 14 |
| Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 1/2 | CS-296 | CS-306 | | | | | | |
| 5/8 | CS-297 | CS-307 | CS-318 | | | | | |
| 3/4 | CS-298 | CS-308 | CS-319 | | | | | |
| 7/8 | CS-299 | CS-309 | CS-320 | | | | | |
| 1 | CS-300 | CS-310 | CS-321 | CS-328 | CS-332 | CS-339 | | |
| 1-1/4 | CS-301 | CS-311 | CS-322 | CS-329 | CS-333 | CS-340 | | |
| 1-1/2 | CS-302 | CS-312 | CS-323 | CS-330 | CS-334 | CS-341 | | |
| 1-3/4 | CS-303 | CS-313 | CS-324 | 357-001 | CS-335 | CS-342 | | |
| 2 | CS-304 | CS-314 | CS-325 | CS-331 | CS-336 | CS-343 | 357-006 | |
| 2-1/4 | CS-305 | CS-315 | CS-326 | 357-009 | CS-337 | | | |
| 2-1/2 | | CS-316 | CS-327 | 357-002 | CS-338 | CS-344 | | |
| 3 | | | 357-007 | | 357-004 | | | 357-003 |
| 3-1/2 | | | | | | | 357-005 | |
| 4-1/2 | | | | | | | | 357-008 |

**Contact Sales Desk For Package Quantities**

## RECOMMENDED TIGHTENING TORQUES

| Size | Ft. Lbs. |
|---|---|
| 1/4-20 UNC | 15 |
| 1/4-28 UNF | 17 |
| 5/16-18 UNC | 31 |
| 5/16-24 UNF | 34 |
| 3/8-16 UNC | 58 |
| 3/8-24 UNF | 65 |
| 7/16-14 UNC | 92 |
| 7/16-20 UNF | 102 |
| 1/2-13 UNC | 133 |
| 1/2-20 UNF | 150 |
| 5/8-11 UNC | 266 |
| 5/8-18 UNF | 301 |
| 3/4-10 UNC | 480 |
| 3/4-16 UNF | 536 |
| 7/8-9 UNC | 746 |
| 7/8-14 UNF | 881 |
| 1-8 UNC | 1,044 |
| 1-14 UNF | 1,255 |

Torque ratings are a general guideline only. Actual conditions may effect these ratings.




| Dia. of Thread | "A" Flange Dia. | | "B" Flange Thick-ness | 12 Pt. Socket or Wrench Size |
|---|---|---|---|---|
| | Max. | Min. | Min. | |
| 1/4" | 0.375 | 0.365 | 0.058 | 1/4" |
| 5/16" | 0.469 | 0.457 | 0.074 | 5/16" |
| 3/8" | 0.562 | 0.550 | 0.095 | 3/8" |
| 7/16" | 0.656 | 0.642 | 0.109 | 7/16" |
| 1/2" | 0.750 | 0.735 | 0.129 | 1/2" |
| 9/16" | 0.844 | 0.828 | 0.145 | 9/16" |
| 5/8" | 0.938 | 0.921 | 0.166 | 5/8" |
| 3/4" | 1.125 | 1.107 | 0.200 | 3/4" |
| 7/8" | 1.312 | 1.293 | 0.234 | 7/8" |
| 1" | 1.500 | 1.479 | 0.268 | 1" |



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**ASSORTMENT / ASSORTIMENT 805-652**

**12 point Flanged Head**
**ALLOY STEEL**

## COUNTR-BOR SCREWS
Coarse and Fine Thread

**24 Sizes**
**455 Pieces**






| Thread Type | Spaenaur No. | Thread Size | Length | Qty. | Page |
|---|---|---|---|---|---|
| Coarse | CS-153 | 1/4"-20 | 3/4" | 30 | B210 |
| | CS-154 | | 7/8" | | |
| | CS-155 | | 1" | | |
| | CS-168 | 5/16"-18 | | | |
| | CS-170 | | 1-1/2" | 25 | |
| | CS-172 | | 2" | 20 | |
| | CS-182 | 3/8"-16 | 1" | | |
| | CS-183 | | 1-1/4" | | |
| | CS-184 | | 1-1/2" | | |
| | CS-200 | 7/16"-14 | 1-1/4" | 15 | |
| | CS-203 | | 2" | 10 | |
| | CS-205 | | 2-1/2" | | |
| | CS-212 | 1/2"-13 | 3/4" | | |
| | CS-215 | | 1-1/4" | | |
| | CS-216 | | 1-1/2" | | |
| | CS-218 | | 2" | | |
| Fine | CS-304 | 1/4"-28 | | 30 | |
| | CS-309 | 5/16"-24 | 7/8" | | |
| | CS-311 | | 1-1/4" | 25 | |
| | CS-312 | | 1-1/2" | 20 | |
| | CS-321 | 3/8"-24 | 1" | | |
| | CS-329 | 7/16"-20 | 1-1/4" | 15 | |
| | CS-334 | 1/2"-20 | 1-1/2" | 10 | |
| | CS-338 | | 2-1/2" | 5 | |

Furnished in Large Size grey enamelled steel drawer with hinged lid and catch. Drawer will fit into Slide Racks shown on page A3

Shipping Weight: **13.33 kg**
(29.4 lbs.)

**ASSORTMENT / ASSORTIMENT 805-498**

**Regular (Coarse) Thread**
**FULL Cylinder Head**

## METRIC Hex Socket Cap Screws
***Property Class 8.8 Med. Carbon Steel*** Not Plated

**DIN 912**

**24 Sizes**
**500 Pieces**






| Name | Spaenaur No. | Size | Qty. | Page |
|---|---|---|---|---|
| Fully Threaded Hex Socket Cap Screws | 367-B04-1P | M3 x 10mm | 30 | B212 |
| | 367-012 | M3 x 16mm | | |
| | 367-019 | M4 x 12mm | | |
| | 367-021 | M4 x 20mm | | |
| | 367-034 | M5 x 8mm | 25 | |
| | 367-B05-1Y | M5 x 12mm | | |
| | 367-038 | M5 x 20mm | | |
| | 367-039 | M5 x 25mm | | |
| | 367-055 | M6 x 10mm | 20 | |
| | 367-B07-1N | M6 x 16mm | | |
| | 367-059 | M6 x 25mm | | |
| | 367-075 | M8 x 12mm | 15 | |
| | 367-077 | M8 x 20mm | | |
| | 367-079 | M8 x 30mm | 10 | |
| | 367-100 | M10 x 16mm | | |
| | 367-102 | M10 x 25mm | | |
| | 367-132 | M12 x 30mm | | |
| | 367-134 | M12 x 40mm | | |
| Partially Threaded Hex Socket Cap Screws | 367-014 | M3 x 25mm | 30 | B214 |
| | 367-023 | M4 x 30mm | 25 | |
| | 367-025 | M4 x 40mm | 30 | |
| | 367-040 | M5 x 30mm | 25 | |
| | 367-061 | M6 x 35mm | 20 | |
| | 367-081 | M8 x 40mm | 10 | |

Put up in REGULAR SIZE grey enamelled STEEL drawer. Drawer will fit the Slide Racks on page A2.

Shipping Weight: **5.53 kg**
(12.2 lbs.)



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B



**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

**FULLY THREADED**

# Property Class 8.8 – Plain Finish

## ISO Regular COARSE Metric Thread

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

| DIA. | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Key | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 12 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 4 | 367-369 | | | | | | | |
| 5 | 367-007 | 367-278 | | | | | | |
| 6 | 367-008 | 367-016 | 367-033 | 367-285 | | | | |
| 8 | 367-009 | 367-017 | 367-034 | 367-054 | | | | |
| 10 | 367-B04-1P | 367-018 | 367-035 | 367-055 | 367-074 | | | |
| 12 | 367-B01-1M | *367-019 | 367-B05-1Y | 367-056 | 367-075 | 367-099 | | |
| 14 | | 367-279 | 367-282 | 367-371 | | | | |
| 16 | 367-012 | 367-020 | 367-B06-1C | 367-B07-1N | 367-076 | 367-100 | 367-129 | |
| 18 | 367-271 | 367-280 | 367-283 | 367-286 | 367-290 | 367-293 | 367-296 | |
| 20 | 367-013 | 367-021 | 367-038 | 367-058 | 367-077 | 367-101 | 367-130 | 367-299 |
| 22 | 367-367 | 367-281 | 367-284 | 367-287 | 367-291 | 367-294 | 367-297 | |
| 25 | 367-393 | 367-022 | 367-039 | 367-059 | 367-078 | 367-102 | 367-131 | 367-300 |
| 30 | | | | 367-060 | 367-079 | 367-103 | 367-132 | 367-301 |
| 35 | | | | | 367-080 | 367-104 | 367-133 | 367-302 |
| 40 | | | | 367-361 | 367-363 | 367-105 | 367-134 | 367-303 |
| 45 | | | | | | | 367-135 | 367-B12-1W |
| 50 | PKG QTY. 100 | | PKG QTY. 50 | | | | 367-136 | 367-305 |
| 55 | | | | | | | | 367-306 |
| 60 | | | | | 367-364 | | PKG QTY. 25 | |
| 70 | | 367-375 | | | | | | |
| 100 | | | | 367-362 | | | | |
| 120 | | | | | | 367-374 | 367-379 | |

***367-325** Zinc Plated and Locking Patch.

Continues on Next Page

| Sizes available in FINE THREAD – Fully Threaded | | |
|---|---|---|
| 367-347 | M10 x 1.25 x 20 mm | (PKG QTY. 50) |
| 367-352 | M12 x 1.25 x 30 mm | (PKG QTY. 25) |
| 367-353 | M12 x 1.25 x 35 mm | (PKG QTY. 25) |

For Holo-Krome Socket Head Cap Screws
see Page B190





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**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

**FULLY THREADED**

# Property Class 8.8 – Plain Finish

## ISO Regular COARSE Metric Thread

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

B

| DIA. | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M36 |
|---|---|---|---|---|---|---|---|---|
| Pitch | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 | 4.00 |
| Key | 14 mm | 14 mm | 17 mm | 17 mm | 19 mm | 19 mm | 22 mm | 27 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| | Continued from Previous Page | | | | | | | |
| | PKG QTY. 25 | | PKG QTY. 10 | | | | | |
| 25 | 367-159 | | | | | | | |
| 30 | 367-160 | | 367-186 | | | | | |
| 35 | 367-161 | 367-319 | 367-187 | | | | | |
| 40 | 367-162 | 367-320 | 367-188 | 367-334 | 367-213 | | PKG QTY. 1 | |
| 45 | 367-163 | | 367-189 | 367-335 | 367-214 | | | |
| 50 | 367-164 | 367-322 | 367-190 | 367-336 | 367-215 | | | |
| 55 | 367-365 | 367-323 | 367-191 | 367-337 | 367-216 | | | |
| 60 | 367-392 | 367-324 | 367-192 | 367-338 | 367-217 | | 367-238 | |
| 65 | | | 367-193 | 367-339 | | | | |
| 70 | | | 367-356 | 367-373 | 367-219 | | 367-239 | |
| 75 | | | 367-345 | | 367-344 | | | |
| 80 | | | | | | | 367-240 | 367-256 |
| 90 | | | | | | 367-315 | 367-348 | 367-257 |
| 100 | | | | | | | 367-316 | 367-370 |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

Vibra-TITE®

NEW

Threadlocker prevents threaded fasteners from coming loose due to shock and vibration.

See Page B4



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B



**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

**PARTIALLY THREADED**

# Property Class 8.8 – Plain Finish

## ISO Regular COARSE Metric Thread

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

| DIA. | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Key | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 12 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 25 | 367-014 | | | | | | | |
| 30 | 367-015 | 367-023 | 367-040 | | | | | |
| 35 | 367-274 | 367-024 | 367-041 | 367-061 | | | | |
| 40 | 367-270 | 367-025 | 367-042 | 367-062 | 367-081 | | | |
| 45 | 367-276 | 367-026 | 367-043 | 367-063 | 367-082 | 367-106 | | |
| 50 | 367-277 | 367-027 | 367-044 | 367-064 | 367-083 | 367-107 | | |
| 55 | | 367-028 | 367-045 | 367-065 | 367-084 | 367-108 | 367-137 | |
| 60 | | 367-029 | 367-046 | 367-066 | 367-085 | 367-109 | 367-138 | 367-308 |
| 65 | | 367-030 | 367-047 | 367-067 | 367-086 | 367-110 | 367-139 | 367-309 |
| 70 | | 367-031 | 367-048 | 367-068 | 367-087 | 367-111 | 367-140 | 367-310 |
| 75 | | | | 367-288 | 367-272 | 367-295 | 367-298 | 367-311 |
| 80 | | 367-032 | 367-049 | 367-069 | 367-088 | 367-112 | 367-141 | 367-312 |
| 90 | | | 367-050 | 367-070 | 367-089 | 367-113 | 367-142 | 367-313 |
| 100 | | | 367-051 | 367-071 | 367-090 | 367-114 | 367-143 | 367-314 |
| 110 | | | 367-052 | 367-072 | 367-091 | 367-115 | 367-B03-1A | 367-372 |
| 120 | | | 367-053 | 367-073 | 367-092 | 367-116 | 367-145 | 367-317 |
| 130 | | | | | 367-093 | 367-117 | 367-146 | |
| 140 | | | | | 367-094 | 367-118 | 367-147 | |
| 150 | | | | | 367-095 | 367-119 | 367-148 | |
| 160 | | | | | 367-096 | 367-120 | 367-149 | |
| 170 | | | | | 367-097 | 367-121 | 367-150 | |
| 180 | | | | | 367-098 | 367-122 | 367-151 | |
| 200 | | | | | | 367-123 | 367-152 | |
| 220 | | | | | | 367-124 | 367-153 | |
| 240 | | | | | | 367-125 | 367-154 | |
| 260 | | | | | | 367-126 | 367-155 | |
| 280 | | | | | | | 367-156 | |
| 300 | | | | | | 367-127 | 367-157 | |

**Sizes available in FINE THREAD - Partially Threaded**

| | |
|---|---|
| 367-346 | M8 x 1.00 x 100 mm |
| 367-350 | M10 x 1.25 x 80 mm |
| 367-351 | M10 x 1.25 x 100 mm |
| 367-354 | M12 x 1.25 x 70 mm |
| 367-355 | M12 x 1.25 x 90 mm |
| 367-358 | M16 x 1.50 x 90 mm |
| 367-359 | M16 x 1.50 x 100 mm |

**Contact Sales Desk For Package Quantities**

Continues on Next Page

For Metric Hex Keys & Specialty Keys see Pages P9-P10



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**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

**PARTIALLY THREADED**

# Property Class 8.8 – Plain Finish

## ISO Regular COARSE Metric Thread

**Medium Carbon Steel, Quenched & Tempered**

Dia. M3 - M16 Tensile Strength 800 N/mm² min. (Approx. 116,000 PSI - For Reference Only.)
Above M16 Tensile Strength 830 N/mm² min. (Approx. 120,000 PSI - For Reference Only.)

B

Continued from Previous Page

| DIA. | M16 | M18 | M20 | M22 | M24 | M30 | M36 |
|---|---|---|---|---|---|---|---|
| Pitch | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.50 | 4.00 |
| Key | 14 mm | 14 mm | 17 mm | 17 mm | 19 mm | 22 mm | 27 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 55 | 367-165 | | | | | | |
| 65 | 367-167 | | | | | | |
| 70 | 367-168 | 367-326 | | | | | |
| 75 | 367-318 | 367-327 | 367-333 | | | | |
| 80 | 367-169 | 367-328 | 367-195 | | 367-220 | | |
| 90 | 367-170 | 367-329 | 367-196 | 367-340 | 367-221 | | |
| 100 | 367-171 | 367-330 | 367-197 | | 367-222 | | 367-258 |
| 110 | 367-172 | 367-331 | 367-198 | | 367-223 | 367-243 | |
| 120 | 367-173 | 367-332 | 367-199 | 367-343 | 367-224 | 367-244 | 367-259 |
| 130 | 367-174 | | 367-200 | | 367-225 | 367-245 | |
| 140 | 367-175 | | 367-201 | | 367-226 | 367-246 | 367-260 |
| 150 | 367-176 | | 367-202 | | 367-227 | | |
| 160 | 367-177 | | 367-203 | | 367-228 | 367-247 | 367-261 |
| 170 | 367-178 | | 367-204 | | 367-229 | | |
| 180 | 367-179 | | 367-205 | | 367-230 | 367-248 | 367-262 |
| 200 | 367-180 | | 367-206 | | 367-231 | 367-249 | 367-263 |
| 220 | 367-181 | | 367-207 | | 367-232 | 367-250 | 367-264 |
| 240 | 367-182 | | 367-208 | | 367-233 | 367-251 | 367-265 |
| 260 | 367-183 | | 367-209 | | 367-234 | 367-252 | 367-266 |
| 280 | 367-B08-1T | | 367-210 | | 367-235 | 367-253 | |
| 300 | 367-185 | | 367-211 | | 367-B02-1X | 367-254 | |
| 400 | | | 367-212 | | | | 367-269 |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

**Contact Sales Desk For Package Quantities**

Vibra-TITE®

NEW

Threadlocker prevents threaded fasteners from coming loose due to shock and vibration.

See Page B4



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B

# Property Class 8.8
# Zinc and Yellow Zinc Plated
## ISO Regular COARSE Metric Thread

**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)



## Fully Threaded
**Zinc Plated (unless noted with a symbol)**

| DIA. | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 |
| Key | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 10 mm | 14 mm | 17 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 8 | | | | *367-054YZ | | | | | | |
| 10 | 367-010ZP | | 367-035ZP | | | | | | | |
| 12 | | | | 367-056ZP | | | | | | |
| | | | | *367-056YZ | | | | | | |
| 16 | | *367-020YZ | | | *367-B11-1K | 367-100ZP | | | | |
| 18 | | | | | *367-290YZ | | | | | |
| | | | | | 367-290ZP | | | | | |
| 20 | | 367-021ZP | | | | 367-101ZP | | | | |
| | | | | | | *367-101YZ | | | | |
| 22 | | | 367-284ZP | | 367-291ZP | | 367-297ZP | | | |
| 25 | | *367-022YZ | | 367-059ZP | 367-078ZP | *367-B09-1K | 367-131ZP | | | |
| | | | | *367-059YZ | | | | | | |
| 30 | | | | 367-060ZP | | | 367-132ZP | | 367-160ZP | 367-186ZP |
| | | | | *367-060YZ | | | | | | |
| 35 | | | | | | *367-104YZ | | | | |
| 40 | | | | | | | 367-134ZP | *367-303YZ | | |
| 45 | | | | | | | 367-135ZP | | | |
| 50 | | | | | | | 367-136ZP | | | |
| 65 | | | | | | | | | | 367-193ZP |

*Yellow Zinc Plated



## Partially Threaded
**Zinc Plated (unless noted with a symbol)**

| DIA. | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 |
| Key | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 10 mm | 14 mm | 17 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 30 | | 367-023ZP | | | | | | | | |
| | | | | | | | | | | |
| 35 | | | | 367-061ZP | | | | | | |
| 40 | | | | 367-062ZP | | | | | | |
| 45 | | | | | 367-B13-1M | | | | | |
| 50 | | | | *367-064YZ | 367-083ZP | 367-107ZP | | | | |
| 55 | | | | | *367-084YZ | | | | | |
| 60 | | | | 367-066ZP | | | | | | |
| 65 | | | 367-047ZP | | | | | | | |
| 75 | | | | | 367-272ZP | | | | 367-B10-1T | |
| 80 | | | | | | | 367-141ZP | | | |
| 100 | | | | | | | | | 367-171ZP | |
| 110 | | | | 367-072ZP | | | | | | |

**Contact Sales Desk For Package Quantities**

*Yellow Zinc Plated



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**DIN 7984**

Thread length will vary with diameter and length of screw.

Fully Threaded

# Property Class 8.8 – Plain Finish

## Regular COARSE Metric Thread

## LOW HEAD STYLE

**Medium Carbon Steel, Quenched & Tempered**

Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)

B

| DIA. | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 |
| Key | 2 mm | 2.5 mm | 3 mm | 4 mm | 5 mm | 7 mm | 8 mm | 12 mm | 14 mm | 17 mm |
| Nom. Hd Height | 2 mm | 2.8 mm | 3.5 mm | 4 mm | 5 mm | 6 mm | 7 mm | 9 mm | 11 mm | 13 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 5 | 366-1071 | | | | | | | | | |
| 6 | 366-1072 | 366-1080 | 366-1086 | | | | | | | |
| 8 | 366-1073 | 366-1081 | 366-1087 | 366-1095 | | | | | | |
| 10 | 366-1074 | 366-451 | 366-400 | 366-408 | 366-1102 | | | | | |
| 12 | 366-1075 | 366-452 | 366-401 | 366-409 | 366-1103 | | | | | |
| 16 | 366-1076 | 366-453 | 366-403 | 366-411 | 366-418 | 366-1110 | | | | |
| 18 | | 366-454 | | 366-412 | 366-419 | | | | | |
| 20 | 366-1077 | 366-455 | 366-405 | 366-413 | 366-420 | 366-426 | 366-1117 | | | |
| 22 | | | 366-406 | 366-414 | 366-421 | | | | | |
| 25 | 366-1078 | 366-1082 | 366-407 | 366-415 | 366-422 | 366-428 | 366-433 | | | |
| 30 | 366-1079 | 366-1083 | 366-1088 | 366-416 | 366-423 | 366-429 | 366-434 | 366-438 | 366-1132 | |
| 35 | | 366-1084 | 366-1089 | 366-1096 | 366-424 | 366-430 | 366-435 | 366-W12-1C | 366-447 | |
| 40 | | 366-1085 | 366-1090 | 366-1097 | 366-425 | 366-431 | 366-436 | 366-440 | 366-448 | 366-1139 |
| 45 | | | 366-1091 | 366-1098 | 366-1104 | 366-432 | 366-437 | 366-441 | 366-1133 | |
| 50 | | | 366-1092 | 366-1099 | 366-1105 | 366-1111 | 366-1118 | 366-442 | 366-449 | 366-1140 |
| 55 | | | 366-1093 | 366-1100 | 366-1106 | | 366-1356 | 366-443 | | |
| 60 | | | 366-1094 | 366-1101 | 366-1107 | 366-1112 | 366-1119 | 366-444 | 366-450 | 366-1142 |
| 70 | | | | | | 366-1113 | 366-1120 | 366-446 | 366-1134 | 366-1143 |
| 75 | | | | | | 366-1335 | | | | |
| 80 | | | | | 366-1108 | 366-1114 | 366-1121 | 366-1128 | 366-1135 | 366-1144 |
| 90 | | | | | 366-1109 | 366-1115 | | 366-1129 | 366-1136 | 366-1145 |
| 100 | | | | | | 366-1116 | | | 366-1137 | 366-1146 |
| 120 | | | | | | 366-1336 | | 366-1131 | 366-1138 | 366-1147 |

**Contact Sales Desk For Package Quantities**

**Additional Sizes and Finishes of DIN 7984**

**366-1110YZ** M10 x 1.50 x 16 mm, Yellow Zinc Plated

**ASSORTMENT 805-435** **DIN 7984**

## METRIC Hex Socket Cap Screws

**LOW Cylinder Head Style**

**Regular COARSE Metric Thread**

Med. Carbon Steel, Metric

**Property Class 8.8** Not Plated

**28 Sizes - 585 Pieces**

REGULAR SIZE welded STEEL drawer with Hinged Lid & Scooped Bins. Drawer fits the Slide Racks shown on Page A2

Shipping Weight: **9.41 kg** (20-3/4 lbs.)



**For the complete assortment contents turn to A53**



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B



**DIN 6912**

Thread length will vary with diameter and length of screw.

Fully Threaded

# Property Class 8.8 Plain Finish

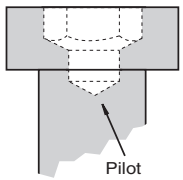
## ISO Regular COARSE Metric Thread

## LOW HEAD STYLE with pilot recess for wrench key

**Medium Carbon Steel, Quenched & Tempered**

Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

| DIA. | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 | M30 | M36 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 | 3.50 | 4.00 |
| Key | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 12 mm | 14 mm | 17 mm | 19 mm | 22 mm | 27 mm |
| Nom. Hd Height | 2.8 mm | 3.5 mm | 4 mm | 5 mm | 6.5 mm | 7.5 mm | 8.5 mm | 10 mm | 12 mm | 14 mm | 17.5 mm | 21.5 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | | | |
| 6 | 366-1165 | | | | | *366-1191YZ ▲366-1178YZ ■366-1162YZ ◆366-1181YZ YZ=Yellow Zinc Plated | | | | | | |
| 8 | ■366-1162 | 366-1176 | 366-1189 | | | | | | | | | |
| 10 | 366-1167 | 366-1177 | 366-1190 | 366-1206 | | | | | | | | |
| 12 | 366-1168 | ▲366-1178 | *366-1191 | 366-1207 | 366-1224 | | | | | | | |
| 16 | 366-1169 | 366-1179 | 366-1192 | 366-1208 | 366-1225 | 366-1244 | | | | | | |
| 18 | 366-1170 | 366-1180 | 366-1193 | 366-1209 | 366-1226 | | | | | | | |
| 20 | 366-1171 | ◆366-1181 | 366-1194 | 366-1210 | 366-1227 | 366-1001 | | | | | | |
| 25 | 366-1172 | 366-1183 | 366-1196 | 366-1212 | 366-1161 | 366-1000 | | 366-1261 | | | | |
| 30 | 366-1173 | 366-1184 | 366-1197 | 366-1213 | 366-1230 | 366-W39-1K | 366-1285 | 366-1262 | | | | |
| 35 | 366-1174 | 366-1185 | 366-1198 | 366-1214 | 366-1231 | 366-1249 | | 366-1263 | | | | |
| 40 | 366-1175 | 366-1186 | 366-1199 | 366-1215 | 366-1232 | 366-1250 | | 366-1264 | 366-1274 | | | |
| 45 | | 366-1187 | 366-1200 | 366-1216 | 366-1233 | 366-1251 | | 366-1265 | 366-1275 | | | |
| 50 | | 366-1420 | 366-1201 | 366-1217 | 366-1234 | 366-1252 | | 366-1266 | 366-1276 | | | |
| 55 | | | 366-1202 | | 366-1235 | 366-1253 | | | | | | |
| 60 | | 366-1188 | 366-1203 | 366-1218 | 366-1236 | 366-1254 | | 366-1267 | 366-1277 | | | |
| 65 | | | | | 366-1237 | | | | | | | |
| 70 | | | 366-1204 | 366-1219 | 366-1238 | 366-1255 | | 366-1268 | 366-1278 | | | |
| 80 | | | 366-1205 | 366-1220 | 366-1239 | 366-1256 | | 366-1269 | 366-1279 | | | |
| 90 | | | | 366-1221 | 366-1240 | 366-1257 | | 366-1270 | 366-1280 | | | |
| 100 | | | | 366-1222 | 366-1241 | 366-1258 | | 366-1271 | 366-1281 | 366-1286 | | |
| 110 | | | | | 366-1242 | 366-1259 | | 366-1272 | | | | |
| 120 | | | | 366-1223 | 366-1243 | 366-1002 | | 366-1273 | 366-1283 | | 366-1284 | |




**DIN 6912**

# A2 STAINLESS STEEL

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 373-425 | 373-430 | 373-B06-1K | | | | | | | | | |
| 12 | 373-426 | 373-431 | 373-437 | | | | | | | | | |
| 16 | 373-427 | 373-432 | 373-438 | 373-443 | | | | | | | | |
| 20 | 373-428 | 373-433 | 373-439 | 373-444 | 373-450 | 373-456 | | | | | | |
| 25 | | 373-434 | 373-440 | 373-445 | 373-451 | 373-457 | | | | | | |
| 30 | | 373-435 | 373-441 | 373-446 | | 373-458 | | | | | | |
| 35 | | | 373-442 | 373-447 | | 373-459 | | 373-463 | | | | |
| 40 | | | 373-468 | 373-448 | | 373-460 | | | | | | |
| 50 | | | | | 373-455 | | | | | | | |

**Sizes available in A4 STAINLESS STEEL** — **373-467** M4 x 0.70 x 30 mm **PKG QTY. 50**

**Contact Sales Desk For Package Quantities**





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# Property Class 10.9
# Plain Finish

**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

B

## ISO Regular
## COARSE Metric Thread
**Alloy Steel, Heat-treated**

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**

### Fully Threaded



| Diameter | M3 | M6 | M10 | M12 |
|---|---|---|---|---|
| Pitch | 0.50 | 1.00 | 1.50 | 1.75 |
| Key | 2.5 mm | 5 mm | 8 mm | 10 mm |
| Length | | | | |
| 10 | **366-024** | | | |
| 18 | | **366-068** | | |
| 30 | | | **366-120** | |
| 35 | | | **366-121** | |
| 40 | | | | **366-148** |

### Partially Threaded



| Diameter | M3 | M4 | M10 | M12 |
|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 1.50 | 1.75 |
| Key | 2.5 mm | 3 mm | 8 mm | 10 mm |
| Length | | | | |
| 30 | **366-031** | | | |
| 35 | | **366-045** | | |
| 55 | | | **366-125** | |
| 70 | | | | **366-154** |
| 120 | | | | **366-160** |

**Contact Sales Desk For Package Quantities**

Continues on Next Page

See page B220 for Fully Threaded Socket Head Cap Screws (M18 to M30 diameter) and Partially Threaded (M14 to M30 diameter) sizes.

See Tools in Section P for Inch and Metric Hex Keys, Bits, and Drivers.

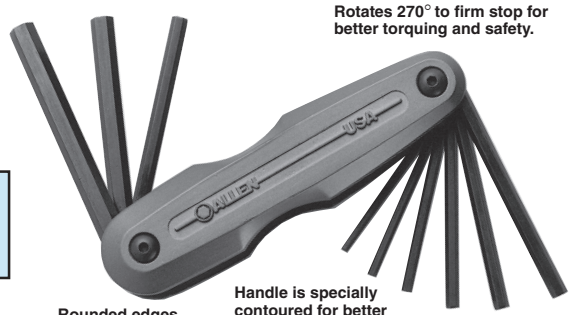
For Metric Fold-Up Hex Key Sets see Page P5.

## Fold-Up Hex Key Sets

Precision tolerances, heat treated alloy steel, black finish.

**AW56347**
Contains 9 bits in inch sizes:
5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4.

**AW56349**
**Contains 7 bits in metric sizes: 1.5, 2, 2.5, 3, 4, 5, 6 mm.**






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B

# Property Class 10.9 Plain Finish

## ISO Regular
## COARSE Metric Thread

**Alloy Steel, Heat-treated**

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.



## Fully Threaded

…Continued from previous page

| Diameter | M18 | M20 | M22 | M24 | M27 | M30 |
|---|---|---|---|---|---|---|
| Pitch | 2.50 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 |
| Key | 14 mm | 17 mm | 17 mm | 19 mm | 19 mm | 22 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 30 | | 366-226 | | | | |
| 35 | | 366-227 | | | | |
| 40 | | 366-228 | | 366-258 | | |
| 45 | | 366-229 | | | | |
| 50 | 366-215 | 366-230 | | 366-260 | | 366-292 |
| 60 | | 366-232 | 366-249 | | 366-278 | |
| 65 | | | | 366-263 | | |
| 70 | | 366-1426 | 366-251 | | 366-280 | |
| 75 | | 366-1331 | | 366-265 | | |



## Partially Threaded

| Diameter | M14 | M18 | M20 | M22 | M24 | M27 | M30 |
|---|---|---|---|---|---|---|---|
| Pitch | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 |
| Key | 12 mm | 14 mm | 17 mm | 17 mm | 19 mm | 19 mm | 22 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 65 | | 366-218 | | | | | |
| 70 | | | | | | | |
| 75 | | | 366-235 | | | | |
| 80 | | 366-221 | | 366-253 | | 366-282 | |
| 90 | | 366-222 | | 366-254 | | 366-283 | |
| 100 | | 366-223 | | 366-255 | | 366-W20-1X | |
| 110 | 366-183 | 366-W33-1A | | 366-256 | | 366-285 | 366-301 |
| 120 | | 366-225 | | 366-257 | | 366-286 | |
| 130 | | | | | | 366-287 | 366-303 |
| 140 | | | 366-242 | | | 366-288 | 366-304 |
| 150 | | | | | | 366-289 | 366-305 |
| 160 | | | 366-244 | | | 366-1313 | |
| 180 | | | | | 366-185 | | |

**Contact Sales Desk For Package Quantities**



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**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

**FULLY THREADED**

# Property Class 12.9 – Plain Finish

## ISO Regular COARSE Metric Thread

**Alloy Steel, Heat-treated**

Tensile Strength **1220 N/mm²** min. (Approx. 180,000 PSI - For Reference Only.)

See page B225 for Zinc and Yellow Zinc Plated.

| Diameter | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 |
|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 |
| Key | 1.5 mm | 2.0 mm | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 3 | 366-660 | 366-320 | | | | | | | |
| 4 | 366-661 | 366-W37-1N | 366-325 | | | | | | |
| 5 | 366-662 | 366-322 | 366-326 | 366-393 | | | | | |
| 6 | 366-663 | 366-700 | 366-705 | 366-713 | 366-332 | 366-336 | | | |
| 8 | 366-664 | 366-701 | 366-706 | 366-714 | 366-725 | 366-736 | | | |
| 10 | 366-665 | 366-702 | 366-707 | 366-715 | 366-726 | 366-737 | 366-752 | 366-350 | |
| 12 | 366-666 | 366-703 | 366-708 | 366-716 | 366-727 | 366-738 | 366-753 | 366-770 | |
| 14 | | | 366-392 | 366-391 | | | | | |
| 16 | | 366-704 | 366-709 | 366-717 | 366-728 | 366-739 | 366-754 | 366-771 | 366-793 |
| 18 | | | 366-327 | 366-357 | 366-333 | 366-337 | 366-342 | 366-351 | 366-353 |
| 20 | | 366-323 | 366-1328 | 366-718 | 366-729 | 366-740 | 366-755 | 366-772 | 366-794 |
| 22 | | | | 366-331 | 366-334 | 366-338 | 366-343 | 366-352 | 366-354 |
| 25 | | 366-324 | 366-1003 | 366-719 | 366-730 | 366-741 | 366-756 | 366-773 | 366-795 |
| 30 | | | 366-1004 | 366-1005 | 366-1009 | 366-742 | 366-757 | 366-774 | 366-796 |
| 35 | | | | | 366-1346 | | 366-1352 | 366-775 | 366-797 |
| 40 | | | | 366-1006 | 366-1010 | | 366-W04-1W | 366-776 | 366-798 |
| 45 | | | | | | | | | 366-799 |
| 50 | | | | 366-1007 | 366-1011 | 366-1015 | 366-1020 | 366-1026 | 366-W13-1N |
| 60 | | | | 366-1008 | 366-1012 | 366-1016 | 366-1021 | 366-1027 | 366-1033 |
| 70 | | | | | 366-1013 | 366-1017 | 366-1022 | 366-1028 | 366-1034 |
| 75 | | | | | | | | 366-1348 | |
| 80 | | | | | | 366-1018 | 366-1023 | 366-1029 | 366-1035 |
| 90 | | | | | | 366-1306 | 366-1024 | 366-1030 | |
| 100 | | | | | | 366-1307 | 366-1025 | 366-1031 | 366-1037 |

**Contact Sales Desk For Package Quantities**

Continues on Next Page

**ASSORTMENT 805-500** **DIN 912**

## METRIC

## Hex Socket Cap Screws Property Class 12.9

**Alloy Steel** **Not Plated**

Contains Full and Partial Metric Regular Coarse Threads

**24 Sizes**
**500 Pieces**

Put up in Grey Enamelled Steel Drawer. Drawer will fit into Slide Racks shown on page A2

Shipping Weight: **5.44 kg** (12 lbs.)





**For the complete assortment contents turn to A53**



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B



**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

**FULLY THREADED**

# Property Class 12.9 – Plain Finish

## ISO Regular COARSE Metric Thread

**Alloy Steel, Heat-treated**

Tensile Strength **1220 N/mm²** min. (Approx. 180,000 PSI - For Reference Only.)

| Diameter | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 2.00 | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 | 3.50 | 4.00 |
| Key | 12 mm | 14 mm | 14 mm | 17 mm | 17 mm | 19 mm | 19 mm | 22 mm | 24 mm | 27 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| | Continued from Previous Page | | | | | | | | | |
| 20 | 366-674 | 366-924 | | | | | | | | |
| 25 | 366-675 | 366-925 | | | | | | | | |
| 30 | 366-676 | 366-815 | 366-697 | 366-933 | | | | | | |
| 35 | 366-677 | 366-816 | 366-698 | 366-834 | | | | | | |
| 40 | 366-678 | 366-817 | 366-699 | 366-835 | 366-974 | 366-941 | | | | |
| 45 | 366-679 | 366-818 | 366-961 | 366-836 | 366-975 | 366-942 | | | | |
| 50 | 366-W38-1T | 366-819 | 366-962 | 366-837 | 366-976 | 366-852 | | 366-330 | | |
| 55 | 366-681 | 366-820 | 366-963 | 366-838 | | 366-853 | | | | |
| 60 | | 366-1038 | 366-1333 | 366-839 | 366-977 | 366-854 | | 366-873 | | |
| 65 | | 366-1350 | | 366-1325 | | 366-855 | | | | |
| 70 | | 366-1039 | | 366-1041 | 366-978 | 366-W41-1K | 366-985 | 366-867 | 366-362 | 366-378 |
| 75 | | | | 366-386 | | 366-1337 | | | | |
| 80 | | | | | | | 366-986 | 366-868 | 366-363 | 366-950 |
| 90 | | | | 366-387 | | | | 366-1323 | | 366-951 |
| 100 | | | | | | | | | 366-365 | 366-952 |
| 110 | | | | | | | | | | 366-373 |
| 140 | | | 366-1040 | | | | | | | |

**Contact Sales Desk For Package Quantities**

**See page B226 for ISO FINE Metric Thread**

For Hex & Specialty Key Sets see Page P2-12









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**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

**PARTIALLY THREADED**

# Property Class 12.9 – Plain Finish

## ISO Regular COARSE Metric Thread

**Alloy Steel, Heat-treated**

Tensile Strength **1220 N/mm²** min. (Approx. 180,000 PSI - For Reference Only.)

| Diameter | M3 | M4 | M5 | M6 | M8 | M10 | M12 |
|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 |
| Key | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 22 | 366-328 | | | | | | |
| 25 | 366-711 | | | | | | |
| 30 | 366-712 | 366-720 | 366-731 | | | | |
| 35 | 366-397 | 366-721 | 366-732 | 366-743 | | | |
| 40 | 366-398 | 366-722 | 366-733 | 366-744 | 366-759 | | |
| 45 | 366-399 | 366-723 | 366-734 | 366-W14-1T | 366-760 | 366-777 | |
| 50 | 366-329 | 366-724 | 366-735 | 366-746 | 366-761 | 366-778 | |
| 55 | | 366-882 | 366-335 | 366-747 | 366-762 | 366-779 | 366-801 |
| 60 | | 366-883 | 366-887 | 366-748 | 366-763 | 366-780 | 366-802 |
| 65 | | 366-884 | 366-888 | 366-749 | 366-764 | 366-781 | 366-803 |
| 70 | | 366-885 | 366-889 | 366-750 | 366-765 | 366-782 | 366-804 |
| 75 | | | 366-890 | 366-751 | 366-766 | 366-783 | 366-805 |
| 80 | | 366-886 | 366-891 | 366-896 | 366-767 | 366-784 | 366-806 |
| 85 | | | | | | 366-1340 | |
| 90 | | | 366-892 | 366-897 | 366-768 | 366-785 | 366-W30-1W |
| 100 | | 366-1329 | 366-893 | 366-898 | 366-769 | 366-786 | 366-808 |
| 110 | | | 366-894 | 366-899 | 366-901 | 366-787 | 366-809 |
| 120 | | | 366-895 | 366-900 | 366-902 | 366-788 | 366-810 |
| 130 | | | | 366-339 | 366-903 | 366-789 | 366-811 |
| 140 | | | | 366-340 | 366-904 | 366-790 | 366-812 |
| 150 | | | | 366-341 | 366-905 | 366-791 | 366-813 |
| 160 | | | | | 366-906 | 366-909 | 366-814 |
| 170 | | | | | 366-344 | | |
| 180 | | | | | 366-907 | 366-910 | 366-917 |
| 200 | | | | | 366-908 | 366-911 | 366-918 |
| 220 | | | | | 366-345 | 366-912 | 366-919 |
| 240 | | | | | 366-346 | 366-913 | 366-920 |
| 260 | | | | | 366-347 | 366-914 | 366-921 |
| 280 | | | | | 366-348 | 366-915 | 366-922 |
| 300 | | | | | 366-349 | 366-916 | 366-923 |

**Contact Sales Desk For Package Quantities**

Continues on Next Page

See page B226 for ISO FINE Metric Thread. See Page B225 for Zinc and Yellow Zinc Plated
See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers





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B



**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

**PARTIALLY THREADED**

# Property Class 12.9 – Plain Finish

## ISO Regular COARSE Metric Thread

**Alloy Steel, Heat-treated**

Tensile Strength **1220 N/mm²** min. (Approx. 180,000 PSI - For Reference Only.)

| Diameter | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 |
|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 2.00 | 2.00 | 2.50 | 2.50 | 2.50 | 3.00 | 3.00 | 3.50 | 3.50 | 4.00 |
| Key | 12 mm | 14 mm | 14 mm | 17 mm | 17 mm | 19 mm | 19 mm | 22 mm | 24 mm | 27 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| | Continued from Previous Page | | | | | | | | | |
| 60 | 366-682 | | | | | | | | | |
| 65 | 366-683 | 366-822 | | | | | | | | |
| 70 | 366-684 | 366-823 | 366-998 | | | | | | | |
| 75 | 366-685 | 366-824 | 366-999 | 366-842 | | | | | | |
| 80 | 366-686 | 366-825 | 366-965 | 366-843 | 366-979 | 366-858 | | | | |
| 90 | 366-687 | 366-826 | 366-966 | 366-844 | 366-980 | 366-859 | | | | |
| 100 | 366-688 | 366-W28-1W | 366-967 | 366-845 | 366-981 | 366-860 | 366-988 | 366-869 | | |
| 110 | 366-689 | 366-828 | 366-968 | 366-846 | 366-982 | 366-861 | 366-382 | 366-358 | | |
| 120 | 366-690 | 366-829 | 366-969 | 366-847 | 366-983 | 366-862 | 366-989 | 366-870 | 366-366 | 366-W42-1W |
| 130 | 366-691 | 366-830 | 366-W35-1Y | 366-848 | | 366-863 | | 366-359 | | 366-374 |
| 140 | 366-692 | 366-831 | 366-971 | 366-849 | | 366-864 | 366-990 | 366-871 | 366-367 | 366-954 |
| 150 | 366-693 | 366-832 | 366-356 | 366-850 | | 366-865 | | 366-360 | | 366-375 |
| 160 | 366-694 | 366-833 | 366-972 | 366-851 | | 366-866 | 366-991 | 366-872 | | 366-955 |
| 180 | 366-695 | 366-926 | 366-973 | 366-934 | | 366-943 | 366-992 | 366-875 | 366-369 | 366-956 |
| 200 | 366-696 | 366-927 | 366-187 | 366-935 | 366-W32-1X | 366-944 | 366-993 | 366-876 | 366-370 | 366-957 |
| 220 | | 366-928 | | 366-936 | | 366-945 | 366-381 | 366-877 | | 366-376 |
| 240 | | 366-929 | | 366-937 | | 366-946 | 366-994 | 366-878 | 366-371 | 366-958 |
| 250 | | | | | | | | 366-297 | | |
| 260 | | 366-930 | | 366-938 | | 366-947 | 366-995 | 366-879 | | 366-959 |
| 280 | | 366-931 | | 366-939 | | 366-948 | 366-380 | 366-361 | | 366-377 |
| 300 | | 366-932 | | 366-940 | | 366-949 | 366-W40-1T | 366-880 | 366-372 | 366-960 |
| 320 | | | | 366-188 | | | | | | |
| 400 | | | | | | | 366-997 | 366-881 | | |
| 440 | | | | | | 366-645 | | | | |

| Diameter | M42 | M48 |
|---|---|---|
| Pitch | 4.50 | 5.00 |
| Key | 32 mm | 36 mm |
| Length | *SPAENAUR No.* | |
| 160 | | 366-1321 |
| 240 | 366-1314 | |

**Contact Sales Desk For Package Quantities**



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# Property Class 12.9 Zinc and Yellow Zinc Plated

**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

B

## ISO Regular
## COARSE Metric Thread

**Alloy Steel, Heat-treated**

Tensile Strength **1220 N/mm²** min. (Approx. 180,000 PSI - For Reference Only.)



### Fully Threaded

**Yellow Zinc Plated (unless noted with a Symbol)**

| DIA. | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 |
|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Key | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 14 mm |
| Length | ORDER BY SPAENAUR NUMBERS LISTED BELOW | | | | | | | |
| 5 | 366-W09-1Y | 366-393YZ | | | | | | |
| 6 | 366-W21-1A | | 366-332YZ | | | | | |
| | | 366-W17-1M | | | | | | |
| 8 | 366-W44-1X | | 366-725YZ | | | | | |
| | | 366-714YZ | | | | | | |
| 10 | 366-W43-1M | | 366-W11-1Y | 366-737YZ | | | | |
| | *366-707ZP | 366-715YZ | | | | | | |
| 12 | 366-708YZ | *366-716ZP | | | | | | |
| | | 366-W19-1A | 366-W16-1W | 366-738YZ | | | | |
| 16 | 366-W45-1A | | | *366-739ZP | *366-754ZP | | | |
| | | 366-W10-1P | 366-W22-1P | 366-W08-1P | | | | |
| 20 | | 366-W07-1Y | 366-W18-1X | | *366-755ZP | | | |
| | | *366-718ZP | | | | | 366-794YZ | |
| 25 | | | 366-730YZ | *366-741ZP | | | | |
| | | 366-719YZ | | | | | | |
| 30 | | | | | | | *366-796ZP | |
| | | | | 366-742YZ | | 366-774YZ | | |
| 45 | | 366-1338YZ | | | | | | |
| 50 | | 366-1007YZ | | | | | | |
| 55 | | | | | | | | *366-820ZP |
| 70 | | | 366-1013YZ | | | | | |

* Zinc Plated



### Partially Threaded

**Yellow Zinc Plated (unless noted with a Symbol)**

| DIA. | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 |
|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Key | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 14 mm |
| Length | ORDER BY SPAENAUR NUMBERS LISTED BELOW | | | | | | | |
| 30 | | | 366-731YZ | | | | | |
| 45 | | 366-723YZ | | | | | | |
| 50 | | 366-724YZ | | | | *366-W36-1C | | |
| 55 | | *366-882ZP | | | | | | |
| 60 | | | | | | | *366-802ZP | |
| 70 | | | | | | *366-782ZP | | |

* Zinc Plated

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B

# Property Class 12.9 Plain Finish

**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

## ISO FINE Metric Thread

**Alloy Steel, Heat-treated**

Tensile Strength **1220 N/mm²** min. (Approx. 180,000 PSI - For Reference Only.)



### Fully Threaded

| DIA. | M8 | M10 | M10 | M12 | M12 | M16 | M20 |
|---|---|---|---|---|---|---|---|
| Pitch | 1.00 | 1.00 | 1.25 | 1.25 | 1.50 | 1.50 | 1.50 |
| Key | 6 mm | 8 mm | 8 mm | 10 mm | 10 mm | 14 mm | 17 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW. | | | | | | |
| 16 | 366-012 | | | | | | |
| 20 | 366-139 | 366-1302 | 366-1300 | | | | |
| 25 | 366-165 | 366-616 | 366-1163 | | 366-1288 | | |
| 30 | 366-186 | 366-1014 | 366-1164 | | 366-1289 | 366-1295 | |
| 35 | | | 366-1166 | | 366-1290 | | |
| 40 | | 366-1048 | 366-1245 | | 366-1291 | 366-1296 | |
| 45 | | | | | 366-1292 | | |
| 50 | | | | | 366-1293 | 366-1297 | |
| 55 | | | | | | | 366-388 |
| 60 | 366-477 | | | | | 366-1298 | |



### Partially Threaded

| DIA. | M8 | M10 | M10 | M12 | M12 | M16 | M20 |
|---|---|---|---|---|---|---|---|
| Pitch | 1.00 | 1.00 | 1.25 | 1.25 | 1.50 | 1.50 | 1.50 |
| Key | 6 mm | 8 mm | 8 mm | 10 mm | 10 mm | 14 mm | 17 mm |
| | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW. | | | | | | |
| 40 | 366-355 | | | | | | |
| 45 | | | | | | | |
| 50 | 366-384 | 366-1149 | 366-1260 | | | | |
| 55 | | | | | | | |
| 60 | | 366-1159 | 366-1287 | | 366-1294 | | |
| 70 | | | | | | 366-1299 | |
| 80 | | | | | | 366-1301 | |
| 100 | | | | | | 366-1303 | |
| 130 | | | | 366-1343 | | | |
| 310 | | | | 366-1349 | | | |

**Contact Sales Desk For Package Quantities**



Page A54

**ASSORTMENT 805-467**
**ASSORTMENT**

**METRIC HEX SOCKET CAP SCREWS**
**A2 Stainless Steel**
*(with Alloy Steel Keys)*

**Metric, Type DIN 912**
**27 KINDS - 580 PIECES (incl. Keys)**
REGULAR SIZE grey enamelled steel drawer will fit Slide Racks shown page A2.
Shipping weight: **9.3 kg** (20.5 lbs.)



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

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## DIN 912 Fully Threaded

This Standard has been replaced. Please see Catalog Page R21 for more information.



# A2 Stainless Steel
## Metric Thread
## ISO Regular COARSE

| DIA. | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 |
| Key | 1.5 mm | 2 mm | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 14 mm | 17 mm | 19 mm |
| Length 3 | 373-108 | | | | | | PKG QTY. 20 | | PKG QTY. 10 | | PKG QTY. 1 | |
| 4 | 373-109 | 373-B25-1M | 373-122 | | | | | | | | | |
| 5 | 373-110 | 373-115 | 373-123 | 373-129 | | | | | | | | |
| 6 | 373-091 | 373-116 | 373-B14-1X | 373-130 | 373-135 | | | | | | | |
| 8 | 373-111 | 373-117 | 373-001 | 373-131 | 373-136 | 373-143 | | | | | | |
| 10 | 373-092 | 373-118 | 373-B23-1K | 373-006 | 373-B15-1A | 373-144 | 373-155 | | | | | |
| 12 | 373-112 | 373-119 | 373-B05-1K | 373-007 | 373-016 | 373-026 | 373-156 | | | | | |
| 16 | 373-B13-1M | 373-120 | 373-004 | 373-008 | 373-017 | 373-027 | 373-038 | 373-169 | | | | |
| 18 | | | | 373-132 | 373-137 | 373-145 | 373-B19-1N | | | | | |
| 20 | | 373-121 | 373-005 | 373-009 | 373-B12-1W | 373-028 | 373-039 | 373-053 | 373-066 | | | |
| 22 | | | | | 373-138 | 373-146 | 373-158 | | | | | |
| 25 | | | | 373-B21-1N | 373-019 | 373-029 | 373-040 | 373-054 | 373-067 | 373-186 | | |
| 30 | | | | 373-474 | | 373-030 | 373-041 | 373-055 | 373-068 | 373-079 | | |
| 35 | | | | | | 373-478 | 373-042 | 373-056 | 373-069 | 373-187 | | |
| 40 | | | | | | | | 373-057 | 373-070 | 373-080 | 373-086 | |
| 45 | | | | | | | | | 373-071 | 373-105 | 373-197 | |
| 50 | PKG QTY. 50 | | | | | | | | 373-072 | 373-081 | 373-087 | 373-102 |
| 55 | | | | | | | | | | 373-188 | 373-198 | 373-103 |
| 60 | | | | | | | | | | 373-106 | 373-199 | |

## DIN 912 Partially Threaded

This Standard has been replaced. Please see Catalog Page R21 for more information.



# A2 Stainless Steel
## Metric Thread
## ISO Regular COARSE

| DIA. | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 |
| Key | 1.5 mm | 2 mm | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 14 mm | 17 mm | 19 mm |
| Length 25 | | | 373-093 | | | | PKG QTY. 20 | | PKG QTY. 10 | | PKG QTY. 1 | |
| 30 | | | 373-126 | 373-011 | 373-020 | | | | | | | |
| 35 | | | 373-127 | 373-012 | 373-B24-1W | 373-031 | | | | | | |
| 40 | | | 373-128 | 373-013 | 373-022 | 373-032 | 373-043 | | | | | |
| 45 | | | | 373-133 | 373-090 | 373-033 | 373-044 | 373-058 | | | | |
| 50 | | | | 373-134 | 373-094 | 373-034 | 373-045 | 373-059 | | | | |
| 55 | | | | | 373-139 | 373-095 | 373-159 | 373-170 | 373-178 | | | |
| 60 | | | | | 373-140 | 373-096 | 373-046 | 373-060 | 373-073 | | | |
| | | | | | | | | | | 373-107 | | |
| 65 | | | | | | 373-147 | 373-160 | 373-B07-1N | 373-179 | | | |
| 70 | | | | | 373-141 | 373-097 | 373-161 | 373-061 | 373-074 | 373-082 | 373-088 | |
| 75 | | | | | | 373-148 | 373-162 | 373-172 | 373-B09-1K | 373-190 | | |
| 80 | | | | | 373-142 | 373-098 | 373-B01-1M | 373-062 | 373-075 | 373-191 | 373-238 | 373-250 |
| 90 | | | | | | 373-149 | 373-101 | 373-063 | 373-104 | 373-083 | 373-239 | 373-251 |
| 100 | | | | | | 373-099 | 373-163 | 373-064 | 373-B11-1K | 373-084 | 373-089 | 373-252 |
| 110 | | | | | | 373-150 | 373-164 | 373-173 | 373-181 | | 373-240 | 373-253 |
| 120 | | | | | | 373-151 | 373-165 | 373-174 | 373-182 | 373-193 | | 373-254 |
| 130 | | PKG QTY. 50 | | | | 373-152 | 373-166 | 373-175 | 373-183 | 373-194 | | |
| 140 | | | | | | 373-153 | 373-167 | 373-176 | 373-184 | 373-195 | 373-243 | |
| 150 | | | | | | 373-154 | 373-168 | 373-177 | 373-185 | 373-196 | 373-244 | 373-255 |
| 160 | | | | | | | | | | | 373-245 | |
| 180 | | | | | | | | | | | 373-246 | |
| 200 | | | | | | | | | | | 373-247 | |



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B

# A4 Stainless Steel

**ISO Regular**
**COARSE Metric Thread**

**DIN 912**

This Standard has been replaced. Please see Catalog Page R21 for more information.

## Fully Threaded



| DIA. | M5 | M6 | M8 | M10 | M12 | M16 | M20 |
|---|---|---|---|---|---|---|---|
| Pitch | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 |
| Key | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 14 mm | 17 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 8 | 373-400 | | | | | | |
| 10 | | 373-422 | 373-403 | | | | |
| 12 | 373-B22-1T | | 373-404 | | | | |
| 16 | | 373-402 | 373-405 | 373-409 | | | |
| 20 | | 373-476 | 373-406 | 373-410 | | | |
| 25 | | | | 373-411 | 373-417 | | |
| 30 | | | | 373-412 | 373-418 | | |
| 35 | | | | 373-413 | | 373-420 | |
| 40 | | | | | 373-419 | | |
| 45 | | | | | 373-423 | | |
| 50 | | | | | 373-469 | | |
| 60 | | | | | | | 373-421 |

## Partially Threaded



| DIA. | M5 | M6 | M8 | M10 | M12 | M16 | M20 |
|---|---|---|---|---|---|---|---|
| Pitch | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 |
| Key | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 14 mm | 17 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 40 | | 373-429 | | | | | |
| 45 | | | | 373-B28-1P | | | |
| 50 | | | | | | | |
| 55 | | | 373-407 | | 373-470 | | |
| 60 | | | | | | | |
| 80 | | | | | 373-424 | | |
| 90 | | | 373-408 | 373-415 | | | |

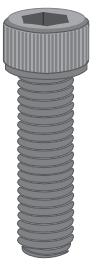
**Contact Sales Desk For Package Quantities**

# Nylon 6/6

**Natural Finish**

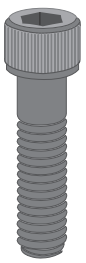
**ISO Regular**
**COARSE Metric Thread**

## Fully Threaded



| DIA. | M8 | M10 | M12 |
|---|---|---|---|
| Pitch | 1.25 | 1.50 | 1.75 |
| Key | 6 mm | 8 mm | 10 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | |
| 15 | | 375-007 | |
| 16 | 375-002 | 375-008 | |
| 30 | 375-M01-1P | 375-009 | 375-015 |
| 50 | | | 375-016 |

## Partially Threaded



| DIA. | M8 | M10 | M12 |
|---|---|---|---|
| Pitch | 1.25 | 1.50 | 1.75 |
| Key | 6 mm | 8 mm | 10 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | |
| 50 | 375-004 | 375-010 | |
| 60 | 375-005 | 375-011 | 375-017 |
| 80 | 375-006 | 375-012 | 375-018 |

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# Property Class 10.9 – Plain Finish

## BUTTON HEAD

## ISO Regular COARSE Metric Thread

**ISO 7380**

**Medium Carbon Alloy - Not Plated** **Product Hardness (Rockwell) Min. C32 Max. C39**

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

**PKG QTY. 50**

| DIA. | M3 | M4 | M5 | M6 | M8 | M10 | M12 | |
|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | |
| Key | 2 mm | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 5 | 366-654 | | | | | | | |
| 6 | 366-W01-1N | 366-W27-1K | 366-379 | 366-010 | | | | |
| 8 | 366-656 | 366-310 | 366-623 | 366-1247 | | | | |
| 10 | 366-657 | 366-311 | 366-600 | 366-612 | 366-624 | | | |
| 12 | 366-658 | 366-312 | 366-601 | 366-613 | 366-625 | | | |
| 14 | | | 366-602 | 366-614 | 366-626 | | | |
| 16 | 366-659 | 366-313 | 366-603 | 366-615 | 366-627 | 366-636 | | |
| 18 | | | 366-604 | 366-277 | 366-628 | 366-291 | | |
| 20 | 366-307 | 366-314 | 366-605 | 366-W02-1T | 366-629 | 366-W23-1Y | 366-646 | |
| 22 | | | 366-637 | 366-279 | | | | |
| 25 | 366-308 | 366-315 | 366-606 | 366-618 | 366-630 | 366-639 | 366-647 | |
| 30 | | 366-316 | 366-607 | 366-619 | 366-631 | 366-640 | 366-648 | |
| 35 | | | | 366-620 | 366-632 | 366-641 | 366-649 | |
| 40 | | | | 366-621 | 366-633 | 366-642 | 366-W25-1N | |
| 45 | | | | 366-622 | 366-634 | | 366-651 | |
| 50 | | | | 366-655 | | 366-644 | 366-652 | |

**Additional finishes available of ISO 7380-1**

Zinc Plated

**366-656ZP** M3 x 0.50 x 8
**366-312ZP** M4 x 0.70 x 12
**366-613ZP** M6 x 1.00 x 12

Yellow Zinc Plated

**366-W06-1M** M3 x 0.50 x 6
**366-W15-1K** M3 x 0.50 x 8
**366-657YZ** M3 x 0.50 x 10
**366-659YZ** M3 x 0.50 x 16
**366-309YZ** M4 x 0.70 x 6
**366-310YZ** M4 x 0.70 x 8
**366-311YZ** M4 x 0.70 x 10
**366-312YZ** M4 x 0.70 x 12
**366-606YZ** M5 x 0.80 x 25
**366-613YZ** M6 x 1.00 x 12
**366-619YZ** M6 x 1.00 x 30
**366-629YZ** M8 x 1.25 x 20

**PKG QTY. 50**

## A2 Stainless Steel

| DIA. | M3 | M4 | M5 | M6 | M8 | M10 |
|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 |
| Key | 2 mm | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm |
| 6 | 373-B16-1P | | | | | |
| 8 | 373-317 | 373-302 | 373-306 | 373-321 | | |
| 10 | 373-301 | 373-303 | 373-307 | 373-023 | 373-323 | |
| 12 | 373-318 | 373-304 | 373-308 | 373-312 | 373-B18-1C | |
| 16 | 373-319 | 373-305 | 373-309 | 373-322 | 373-325 | 373-329 |
| 20 | | | 373-B03-1A | 373-313 | 373-326 | 373-330 |
| 25 | | | 373-311 | 373-314 | 373-327 | 373-331 |
| 30 | | | 373-320 | 373-315 | 373-328 | 373-332 |
| 45 | | | | | 373-316 | |

**Although 10.9 Material is the same as Socket Head Cap Screws, Button and Flat Heads are not as strong.**

**ASSORTMENT 805-477**
**ASSORTIMENT**

**ISO 7380**
Not Plated

**24 Sizes - 720 Pieces**

Regular Coarse Thread

REGULAR SIZE grey enamelled steel drawer will fit Slide Racks shown page A2.

Shipping weight: **6.8 kg** (15 lbs.)



**METRIC BUTTON HEAD**
**Hex Socket Cap Screws**
**Property Class 10.9 Steel**

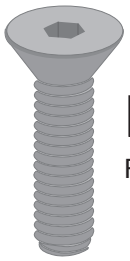


**For the complete assortment contents turn to A54**



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B



**DIN 7991**

Fully Threaded

# Property Class 10.9 – Plain Finish

## ISO Regular COARSE Metric Thread

## 90° COUNTERSUNK FLAT HEAD

**(60° Countersunk Flat Head on sizes above M20)**

**Alloy Steel, Heat-treated**

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

| DIA. | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 |
| Key | 0.9 mm | 1.3 mm | 2 mm | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 10 mm | 12 mm | 14 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | | | | |
| 4 | 366-394 | | | | | | | | | | | | |
| 5 | 366-395 | 366-458 | 366-463 | | | | | | | | | | |
| 6 | 366-317 | 366-459 | 366-464 | 366-466 | 366-582 | | | | | | | | |
| 8 | 366-396 | 366-460 | ~366-319 | 366-318 | 366-583 | 366-584 | | | | | | | |
| 10 | 366-456 | 366-461 | ~366-566 | ~366-573 | ~366-500 | 366-509 | 366-W26-1T | | | | | | |
| 12 | 366-457 | 366-462 | ~366-567 | ~366-574 | ~366-501 | 366-510 | 366-474 | 366-478 | | | | | |
| 14 | | | 366-608 | | | 366-609 | | | | | | | |
| 16 | | 366-479 | ~366-568 | 366-575 | 366-503 | ~366-512 | 366-519 | ~366-526 | | | | | |
| 18 | | | 366-569 | 366-576 | 366-504 | 366-513 | 366-520 | 366-527 | 366-611 | | | | |
| 20 | | | 366-570 | 366-577 | 366-505 | ~366-514 | 366-521 | 366-528 | 366-536 | | | | |
| 22 | | | 366-465 | 366-467 | 366-470 | 366-473 | 366-475 | 366-480 | | | | | |
| 25 | | | 366-571 | 366-W34-1P | 366-506 | 366-515 | 366-522 | 366-529 | 366-W24-1C | | 366-1049 | | |
| 30 | | | 366-572 | 366-579 | ~366-507 | ~366-516 | 366-523 | 366-499 | 366-538 | 366-483 | 366-545 | | |
| 35 | | | | 366-580 | 366-508 | 366-517 | 366-524 | 366-530 | ~366-539 | 366-484 | 366-W31-1M | 366-554 | |
| 40 | | | | 366-581 | 366-586 | 366-589 | 366-595 | ~366-531 | 366-540 | 366-485 | 366-547 | 366-555 | 366-1056 |
| 45 | | | | 366-1324 | ~366-587 | 366-590 | 366-596 | 366-532 | 366-541 | 366-486 | 366-548 | 366-556 | 366-1057 |
| 50 | | | | | 366-588 | 366-591 | 366-597 | | 366-542 | 366-487 | 366-549 | 366-557 | 366-1058 |
| 55 | | | | | 366-W03-1K | 366-592 | 366-598 | 366-1304 | 366-543 | 366-1042 | 366-550 | 366-1051 | 366-1059 |
| 60 | | | | | 366-1341 | 366-593 | 366-599 | | | | 366-551 | 366-558 | 366-1060 |
| 65 | | | | | | | 366-1330 | 366-1322 | | | | | |
| 70 | | | | | | 366-594 | | 366-1310 | | | | 366-559 | 366-1061 |
| 72 | | | | | | | 366-1360 | | | | | | |
| 80 | | | | | | 366-1327 | 366-1361 | 366-1345 | | | | | 366-1062 |
| 90 | | | | | | | 366-1305 | 366-1344 | | | | | 366-1063 |
| 100 | | | | | | | | 366-1427 | 366-1424 | 366-1339 | | | |
| 140 | | | | | | | | | | | | | 366-1342 |
| | PKG QTY. 50 | | | | | | | | | PKG QTY. 25 | | PKG QTY. 10 | |

~ An approximate DIN

See following page for longer lengths, partially threaded

### Additional Property Class and Finishes of DIN 7991 – Fully Threaded

| | | PKG QTY. |
|---|---|---|
| 366-464YZ | **M3 x 0.50 x 6 mm**, Yellow Zinc Plated | 50 |
| 366-W05-1M | **M4 x 0.70 x 12 mm**, Yellow Zinc Plated | 50 |
| 366-575YZ | **M4 x 0.70 x 16 mm**, Yellow Zinc Plated | 50 |
| 366-523YZ | **M8 x 1.25 x 30mm**, Yellow Zinc Plated | 50 |
| 367-390 | **M20 x 2.50 x 50 mm**, Property Class 8.8, Plain | 10 |

| | | PKG QTY. |
|---|---|---|
| 366-501ZP | **M5 x 0.80 x 12 mm**, Zinc Plated | 50 |
| 366-507ZP | **M5 x 0.80 x 30 mm**, Zinc Plated | 50 |
| 366-512ZP | **M6 x 1.00 x 16 mm**, Zinc Plated | 50 |
| 366-514ZP | **M6 x 1.00 x 20 mm**, Zinc Plated | 50 |
| 366-526ZP | **M10 x 1.50 x 16 mm**, Zinc Plated | 50 |
| 366-531ZP | **M10 x 1.50 x 40 mm**, Zinc Plated | 50 |
| 366-539ZP | **M12 x 1.75 x 35 mm**, Zinc Plated | 50 |

Although 10.9 Material is the same as Socket Head Cap Screws, Button and Flat Heads are not as strong.

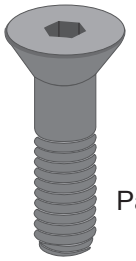




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# Property Class 10.9 – Plain Finish

**DIN 7991**

This Standard has been replaced. Please see Catalog Page R21 for more information.

## ISO Regular COARSE Metric Thread

## 90° COUNTERSUNK FLAT HEAD

Partially Threaded

**(60° Countersunk Flat Head on sizes above M20)**

**Alloy Steel, Heat-treated**

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

| DIA. | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|---|
| Pitch | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 | 2.50 | 3.00 |
| Key | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 10 mm | 12 mm | 14 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 50 | | | 366-533 | | | | | |
| 55 | | | 366-534 | | | | | |
| 60 | | | 366-535 | 366-544 | 366-1043 | | | |
| 65 | | | | 366-390 | | | | |
| 70 | | 366-564 | 366-490 | 366-585 | 366-1044 | 366-552 | | |
| 80 | 366-563 | 366-565 | 366-491 | 366-494 | 366-1045 | 366-553 | 366-560 | |
| 90 | | | 366-492 | 366-495 | 366-1046 | 366-497 | 366-561 | |
| 100 | | 366-489 | 366-493 | 366-496 | 366-1047 | 366-498 | 366-562 | 366-1064 |
| 110 | | | | | | | | 366-1065 |
| 120 | | | 366-1425 | | | 366-1050 | 366-1052 | 366-1066 |
| 140 | | | | | | | 366-1053 | |
| 160 | | | | | | | 366-1054 | |

**Although 10.9 Material is the same as Socket Head Cap Screws, Button and Flat Heads are not as strong.**

**Contact Sales Desk For Package Quantities**

**ASSORTMENT 805-538**
**ASSORTIMENT**

**DIN 7991**

This Standard has been replaced. Please see Catalog Page R21 for more information.

# HEX SOCKET FLAT HEAD CAP SCREWS

## Property Class 10.9

**Fully Threaded Metric Coarse Thread**
**Countersunk Flat Head**

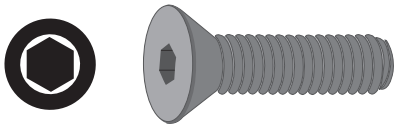
**22 SIZES**
**545 PIECES**

Not Plated

Furnished in Regular Size grey enamel steel drawer with hinged drawer with hinged lid and catch.

Drawer will fit into Slide Racks shown on page A2.



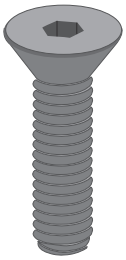


| Spaenaur No. | Thread Size | Bolt Length | Qty. | Page |
|---|---|---|---|---|
| 366-566 | M3 x 0.50 | 10mm | 50 | B230 |
| 366-568 | | 16mm | | |
| 366-571 | | 25mm | 25 | |
| 366-574 | M4 x 0.70 | 12mm | | |
| 366-577 | | 20mm | | |
| 366-579 | | 30mm | | |
| 366-581 | | 40mm | 20 | |
| 366-583 | M5 x 0.80 | 8mm | 25 | |
| 366-501 | | 12mm | | |
| 366-505 | | 20mm | | |
| 366-506 | | 25mm | | |
| 366-507 | | 30mm | 20 | |
| 366-509 | M6 x 1.00 | 10mm | 25 | |
| 366-512 | | 16mm | | |
| 366-515 | | 25mm | 20 | |
| 366-517 | | 35mm | | |
| 366-519 | M8 x 1.25 | 16mm | | |
| 366-520 | | 18mm | | |
| 366-521 | | 20mm | | |
| 366-523 | | 30mm | | |
| 366-526 | M10 x 1.50 | 16mm | | |
| 366-529 | | 25mm | 15 | |



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B



**DIN 7991**

This Standard has been replaced. Please see Catalog Page R21 for more information.

Fully or Partially Threaded our option.

# A2 Stainless Steel

## ISO Regular COARSE Metric Thread

## 90° COUNTERSUNK FLAT HEAD

**(60° Countersunk Flat Head on sizes above M20)**

| DIA. | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 |
|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 |
| Key | 2 mm | 2.5 mm | 3 mm | 4 mm | 5 mm | 6 mm | 8 mm | 10 mm | 12 mm |
| Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 6 | 373-B04-1P | 373-263 | | | | | | | |
| 8 | 373-257 | 373-200 | 373-B10-1T | 373-272 | | | | | |
| 10 | 373-235 | 373-201 | 373-205 | 373-B17-1Y | | | | | |
| 12 | 373-258 | 373-202 | 373-206 | 373-212 | 373-B26-1X | | | | |
| 16 | 373-259 | 373-B20-1C | 373-207 | 373-213 | 373-217 | 373-285 | | | |
| 20 | 373-260 | 373-204 | 373-208 | 373-B08-1T | 373-218 | 373-222 | 373-226 | | |
| 25 | •373-261 | 373-231 | 373-209 | 373-215 | 373-219 | 373-223 | 373-227 | 373-343 | |
| 30 | 373-262 | 373-264 | 373-210 | 373-216 | 373-220 | 373-224 | 373-228 | 373-344 | |
| 35 | | 373-265 | 373-267 | 373-273 | 373-280 | 373-014 | 373-293 | 373-345 | |
| | | | | | | *373-340 | | | |
| 40 | | 373-233 | ▾373-268 | 373-B27-1A | 373-221 | 373-225 | 373-229 | 373-346 | 373-354 |
| 45 | | | 373-269 | *373-274 | 373-281 | 373-286 | 373-294 | 373-347 | 373-355 |
| 50 | | | 373-270 | 373-275 | | 373-287 | 373-295 | 373-348 | 373-356 |
| 60 | | | 373-271 | ■373-276 | | 373-288 | 373-296 | | 373-333 |
| 70 | | | | 373-277 | 373-283 | 373-289 | 373-297 | | |
| | | | | | | ◆373-357 | | | |
| 80 | | | | | ▲373-284 | 373-290 | | | |
| 90 | | | | | | 373-291 | 373-299 | | |
| 100 | | | | | | 373-292 | 373-341 | | |
| | | | | | | ◆373-358 | | | |

• **373-480** Partially Threaded ▾ **373-481** Partially Threaded * **373-360** Partially Threaded *A4
■ **373-556** Partially Threaded ▲ **373-555** Partially Threaded ◆ Partially Threaded

**ASSORTMENT / ASSORTIMENT 805-489**

## Metric DIN 7379
## Hex Socket Shoulder Screws

**Property Class 12.9**
**Alloy Steel - Plain Finish**

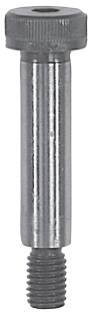
**Metric Regular (Coarse) Thread**

**24 Sizes — 107 Pieces**

Furnished in Regular Size grey enamelled steel drawer with hinged lid and catch.

Drawer will fit into Slide Racks shown on page A2.

Shipping Weight: **4.19 kg** (9-1/4 lbs.)





**For the complete assortment contents turn to A55**



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

Contact Sales Desk For Package Quantities

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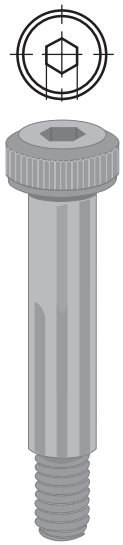
# ALLOY STEEL Plain Finish
Heat treated

# Metric SHOULDER SCREWS

**Made to ISO 7379**

**Metric Regular (Coarse) Thread**

**Property Class 12.9**



**PKG QTY. 10**

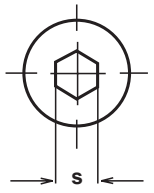
**ALL SIZES EXCEPT 24 mm SHOULDER DIA. PKG QTY. 1**

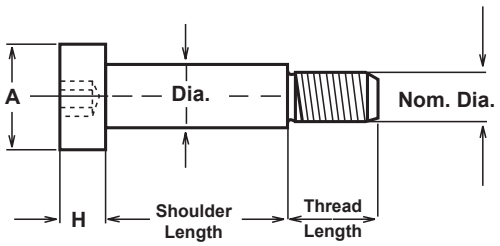
Note: Plain or Knurled Head furnished at our option, as available.

| (Shown in millimetres) SHOULDER DIAMETER | SHOULDER LENGTH | Thread Length | *SPAENAUR No.* |
|---|---|---|---|
| *6 (3 mm Key) Thread M5 x .8 mm | 10 | 9.5 | 365-001 |
| | 12 | | 365-002 |
| | 16 | | 365-003 |
| | 20 | | 365-004 |
| | 25 | | 365-005 |
| | 30 | | 365-006 |
| | 40 | | 365-007 |
| | 50 | | 365-008 |
| 8 (4 mm Key) Thread M6 x 1.0 mm | 12 | 11 | 365-009 |
| | 16 | | 365-010 |
| | 20 | | 365-011 |
| | 25 | | 365-012 |
| | 30 | | 365-013 |
| | 35 | | 365-064 |
| | 40 | | 365-014 |
| | 45 | | 365-065 |
| | 50 | | 365-015 |
| | 55 | | 365-066 |
| | 60 | | 365-054 |
| | 80 | | 365-067 |
| 10 (5 mm Key) Thread M8 x 1.25 mm | 16 | 13 | 365-017 |
| | 20 | | 365-018 |
| | 25 | | 365-019 |
| | 30 | | 365-020 |
| | 40 | | 365-021 |
| | 50 | | 365-022 |
| | 60 | | 365-P04-1C |
| | 70 | | 365-024 |
| | 80 | | 365-025 |
| *12 (6 mm Key) Thread M10 x 1.5 mm | 16 | 16 | 365-026 |
| | 20 | | 365-027 |
| | 25 | | 365-028 |
| | 30 | | 365-029 |
| | 40 | | 365-P02-1P |
| | 50 | | 365-P01-1A |
| | 60 | | 365-032 |
| | 70 | | 365-033 |
| | 80 | | 365-034 |
| | 90 | | 365-035 |
| | 100 | | 365-036 |

| (Shown in millimetres) SHOULDER DIAMETER | SHOULDER LENGTH | Thread Length | *SPAENAUR No.* |
|---|---|---|---|
| 16 (8 mm Key) Thread M12 x 1.75 mm | 30 | 18 | 365-037 |
| | 35 | | 365-068 |
| | 40 | | 365-038 |
| | 45 | | 365-069 |
| | 50 | | 365-039 |
| | 60 | | 365-040 |
| | 70 | | 365-041 |
| | 80 | | 365-042 |
| | 90 | | 365-043 |
| | 100 | | 365-044 |
| | 120 | | 365-045 |
| 20 (10 mm Key) Thread M16 x 2.0 mm | 40 | 22 | 365-046 |
| | 50 | | 365-047 |
| | 60 | | 365-048 |
| | 70 | | 365-049 |
| | 80 | | 365-050 |
| | 90 | | 365-051 |
| | 100 | | 365-052 |
| | 120 | | 365-053 |
| *24 (12 mm Key) Thread M20 x 2.5 mm | 50 | 27 | 365-070 |
| | 60 | | 365-071 |
| | 70 | | 365-P03-1Y |
| | 80 | | 365-073 |
| | 90 | | 365-074 |
| | 100 | | 365-075 |
| | 120 | | 365-076 |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers




*Not to ISO 7379 specifications.

| NOMINAL SHOULDER DIA. | | | *6 | 8 | 10 | *12 | 13 | 16 | 20 | *24 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Max. | mm | 5.990 | 7.987 | 9.987 | 11.984 | 12.984 | 15.984 | 19.980 | 23.980 |
| | Min. | mm | 5.960 | 7.951 | 9.951 | 11.941 | 12.941 | 15.941 | 19.928 | 23.928 |
| HEAD A | | mm | 10 | 13 | 16 | 18 | 18 | 24 | 30 | 36 |
| HEAD H | | mm | 4.5 | 5.5 | 7 | 8 | 9 | 10 | 14 | 16 |
| NOMINAL THREAD DIA. | | mm | **M5** | **M6** | **M8** | **M10** | **M10** | **M12** | **M16** | **M20** |
| PITCH | | mm | .8 | 1 | 1.25 | 1.5 | 1.5 | 1.75 | 2 | 2.5 |
| THREAD LENGTH | | mm | 9.5 | 11 | 13 | 16 | 16.40 | 18 | 22 | 27 |
| S (Hex Key Size) | | mm | 3 | 4 | 5 | 6 | 6 | 8 | 10 | 12 |

Screws and more Metric Hex Socket Shoulder Screws Property Class 8.8; see B214 - B218.



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# ALLOY STEEL

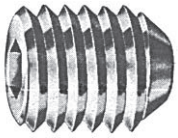
**Heat Treated**
Not Plated

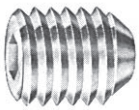
B



**CUP POINT**
**UNC & UNF**

**ASME B18.3**







**Threads Class 3A, UNC & UNF as shown, in accordance with ANSI B18.3-1986**

| DIA. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 8 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|
| THD. | 80 UNF | 72 UNF | 56 UNC | 48 UNC | 40 UNC | 40 UNC | 32 UNC | 40 UNF | 32 UNC | 36 UNF |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 1/16 | SS-129 | SS-134 | SS-139 | | | | | | | |
| 3/32 | SS-130 | SS-135 | SS-140 | SS-144 | | | | | | |
| 1/8 | SS-131 | SS-136 | SS-141 | SS-145 | SS-28 | SS-151 | 478-E06-1K | 478-022 | SS-38 | SS-170 |
| 5/32 | SS-263 | SS-264 | 478-E08-1M | SS-266 | | | | | | |
| 3/16 | SS-132 | SS-137 | SS-142 | SS-146 | SS-29 | SS-152 | SS-34 | 478-038 | SS-39 | SS-171 |
| 1/4 | SS-133 | 478-E04-1N | SS-143 | SS-147 | SS-30 | SS-153 | SS-35 | | SS-40 | SS-124 |
| 5/16 | | | | | SS-31 | SS-154 | SS-36 | | SS-41 | SS-172 |
| 3/8 | | | | | SS-32 | SS-155 | SS-37 | | SS-42 | SS-125 |
| 7/16 | | | | | SS-148 | SS-156 | SS-160 | | SS-165 | |
| 1/2 | | | | | SS-149 | SS-157 | SS-84 | | SS-85 | SS-173 |
| 5/8 | | | | | SS-150 | SS-158 | SS-161 | | SS-166 | |
| 3/4 | | | | | 478-008 | SS-159 | SS-162 | | SS-167 | |
| 7/8 | | | | | | | SS-163 | | SS-168 | |
| 1 | | | | | 478-009 | 478-021 | SS-164 | | SS-169 | |
| 1-3/4 | | | | | | | 478-025 | | | |

**PKG QTY. 50**

| DIA. | 10 | 10 | 12 | 12 | 1/4" | 1/4" | 5/16" | 5/16" | 3/8" | 3/8" | 7/16" | 7/16" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THD. | 24 UNC | 32 UNF | 24 UNC | 28 UNF | 20 UNC | 28 UNF | 18 UNC | 24 UNF | 16 UNC | 24 UNF | 14 UNC | 20 UNF |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | | | |
| 3/16 | SS-43 | SS-47 | | | SS-188 | SS-117 | | | | | | |
| 1/4 | SS-44 | SS-48 | | 478-039 | SS-50 | SS-116 | SS-87 | SS-208 | SS-214 | SS-223 | | |
| 5/16 | SS-45 | SS-49 | 478-020 | | SS-189 | SS-197 | SS-53 | SS-209 | SS-215 | SS-224 | | |
| 3/8 | SS-46 | SS-181 | | | SS-51 | SS-198 | SS-54 | SS-100 | SS-56 | SS-225 | SS-232 | 478-035 |
| 7/16 | SS-174 | SS-182 | | | SS-190 | SS-82 | SS-203 | SS-210 | SS-216 | SS-226 | SS-233 | |
| 1/2 | SS-175 | SS-183 | | | SS-52 | SS-118 | SS-55 | SS-211 | 478-E10-1M | SS-227 | SS-234 | |
| 5/8 | SS-176 | SS-184 | | | SS-191 | SS-199 | SS-115 | SS-212 | SS-217 | SS-228 | SS-235 | |
| 3/4 | SS-177 | SS-185 | | | SS-121 | SS-200 | SS-107 | SS-122 | SS-128 | SS-123 | SS-113 | |
| 7/8 | SS-178 | 2005 | | | SS-192 | | SS-204 | | SS-218 | | SS-236 | |
| 1 | SS-179 | 478-E01-1P | | | SS-86 | SS-201 | SS-88 | SS-126 | SS-89 | SS-229 | SS-109 | |
| 1-1/4 | SS-180 | SS-187 | | | SS-193 | SS-202 | SS-205 | | SS-219 | SS-230 | SS-110 | |
| 1-1/2 | | | | | SS-194 | | SS-206 | | SS-90 | SS-231 | SS-111 | |
| 1-3/4 | | | | | SS-195 | | SS-207 | | SS-220 | | SS-237 | |
| 2 | | | | | SS-196 | | 478-004 | | SS-221 | 478-158 | SS-238 | |
| 2-1/2 | | | | | | | | | SS-222 | 478-011 | SS-239 | 478-024 |

continued on next page…

**Contact Sales Desk For Package Quantities**



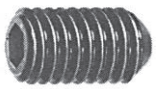


For STAINLESS STEEL See page B238

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# ALLOY STEEL

**Heat Treated**
Not Plated



**CUP POINT**
**UNC & UNF**

**ASME B18.3**

**Threads Class 3A, UNC & UNF as shown, in accordance with ANSI B18.3-1986**

*...Continued from previous page.*



| DIA. | 1/2" | 1/2" | 5/8" | 5/8" | 3/4" | 3/4" | 7/8" | 1" | 1-1/2" |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 13 UNC | 20 UNF | 11 UNC | 18 UNF | 10 UNC | 16 UNF | 9 UNC | 8 UNC | 6 UNC |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 3/8 | **478-036** | | | | | | | | |
| 7/16 | **SS-240** | | | | | | | | |
| 1/2 | **SS-58** | **478-001** | **SS-244** | | | | | | |
| 5/8 | **SS-59** | **478-002** | **SS-60** | **478-003** | **SS-253** | | | | |
| 3/4 | **478-E05-1T** | | **478-E03-1C** | | **SS-254** | **478-007** | | | |
| 7/8 | **SS-241** | | **SS-246** | | **SS-255** | | | | |
| 1 | **SS-92** | **SS-275** | **SS-95** | | **SS-256** | **478-013** | **478-010** | | |
| 1-1/4 | **SS-120** | | **SS-247** | | **SS-257** | | | | |
| 1-1/2 | **SS-93** | | **SS-248** | | **SS-258** | | | | **478-016** |
| 1-3/4 | **SS-242** | **478-015** | **SS-249** | | **SS-259** | | | **478-005** | |
| 2 | **SS-94** | | **SS-250** | | **SS-260** | | | **SS-274** | |
| 2-1/2 | **SS-243** | | **SS-251** | | **478-E07-1W** | | | | |
| 3 | | | **SS-252** | | **SS-262** | **478-028** | | | |
| 3-1/2 | | | **478-034** | | | | | | |

**Contact Sales Desk For Package Quantities**
For Brass and Nylon Tip Hex Socket Set Screws See page B240 & B241

**ASSORTMENT B-583** **CUP POINT**

## Hex Socket Set Screws

**21 SIZES - 940 PIECES**






| Name | Spaenaur No. | Thread Size | Screw Length | Qty. | Page |
|---|---|---|---|---|---|
| Hex Socket Set Screw | **SS-34** | #6-32 | 3/16" | 100 | **B234** |
| | **SS-35** | | 1/4" | | |
| | **SS-40** | #8-32 | | 60 | |
| | **SS-42** | | 3/8" | 75 | |
| | **SS-43** | #10-24 | 3/16" | 100 | |
| | **SS-45** | | 5/16" | | |
| | **SS-48** | #10-32 | 1/4" | | |
| | **SS-50** | 1/4"-20 | | 50 | |
| | **SS-51** | | 3/8" | | |
| | **SS-53** | 5/16"-18 | 5/16" | 40 | |
| | **SS-54** | | 3/8" | | |
| | **SS-56** | 3/8"-16 | | 35 | |
| | **478-E10-1M** | | 1/2" | 30 | |
| | **SS-58** | 1/2"-13 | | 25 | **B235** |

| Name | Spaenaur No. | Key Size | Qty. | Page |
|---|---|---|---|---|
| Hex Key | **SS-62K** | 1/16" | 6 | **P7** |
| | **SS-63K** | 5/64" | | |
| | **SS-64K** | 3/32" | | |
| | **SS-65K** | 1/8" | | **B75** |
| | **SS-66K** | 5/32" | 4 | **P7** |
| | **SS-67K** | 3/16" | | |
| | **SS-68K** | 1/4" | 3 | |

Regular Size welded Steel Drawer has hinged lid and is finished in grey enamel. Will fit into the Slide Racks, shown on page A2.

*Shipping Weight: **2.95 kg** (7 lbs.)*



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B

# ALLOY STEEL



**KNURLED POINT**
**UNC & UNF**

**ASME B18.3**

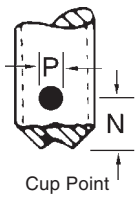
**Heat Treated**
Not Plated

**Threads Class 3A, UNC & UNF as shown, in accordance with ASME B1.1**

| DIA. | 4 | 6 | 8 | 10 | 10 | 1/4" | 1/4" | 5/16" | 5/16" | 3/8" | 7/16" | 1/2" | 1/2" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THD. | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 28 UNF | 18 UNC | 24 UNF | 16 UNC | 20 UNF | 13 UNC | 20 UNF |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | | | | |
| 1/8 | 478-042 | 478-045 | | | | | | | | | | | |
| 3/16 | | | 478-049 | | 478-E02-1Y | | | | | | | | |
| 1/4 | 478-043 | 478-046 | 478-050 | 478-052 | | 478-030 | 478-029 | | | | | | |
| 3/8 | 478-044 | 478-047 | 478-051 | 478-053 | 478-056 | 478-058 | 478-063 | 478-066 | | 478-070 | 478-072 | | |
| 7/16 | | | | | | | | | 478-033 | | | | |
| 1/2 | | 478-048 | | 478-054 | 478-057 | 478-059 | 478-064 | 478-067 | | 478-071 | | | |
| 5/8 | | | | | | 478-060 | 478-065 | 478-068 | | | | | |
| 3/4 | | | | | 478-032 | 478-061 | | 478-069 | | | | 478-037 | |
| 1 | | | 478-026 | | | | | | | 478-040 | | | |
| 1-1/2 | | | | | | | | | | 478-041 | | | |
| 1-3/4 | | | | | | | | | | | | | 478-019 |

**Contact Sales Desk For Package Quantities**

**Hex Socket Set Screw**
**Pelletized Insert Size and Location.**




Cup Point shown

Cup/Oval/Flat

| Thread Size | 6-32 6-40 | 8-32 8-36 | 10-24 10-32 | 1/4-20 1/4-28 | 5/16-18 5/16-24 | 3/8-16 3/8-24 | 7/16-14 7/16-20 | 1/2-13 1/2-20 | 9/16 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pellet Dia. (P) | 5/64" | 3/32" | 3/32" | 7/64" | 1/8" | 9/64" | 5/32" | 5/32" | 5/32" | 3/16" | 3/16" |
| Pellet Location (N) ±1/2 Pitch | 1/8" | 9/64" | 5/32" | 3/16" | 7/32" | 1/4" | 17/64" | 9/32" | 9/32" | 11/32" | 3/8" |

Also stocked — **CONE POINT ASME B18.3**



| | | |
|---|---|---|
| 478-018 | 4-40 UNC x 3/16" | PKG QTY. 50 |
| 478-023 | 4-48 UNF x 1/4" | PKG QTY. 100 |
| 478-017 | 6-32 UNC x 1/2" | PKG QTY. 50 |
| 478-012 | 1/4"-28 UNF x 3/8" | PKG QTY. 50 |
| 478-006 | 5/16"-18 UNC x 3/8" | PKG QTY. 25 |
| SS-112 | 5/16"-18 UNC x 1/2" | PKG QTY. 25 |
| 478-027 | 1/2"-13 UNC x 1/2" | PKG QTY. 25 |
| 478-160 | 1/4"-20 UNC x 3/4" | PKG QTY. 25 |
| 478-159 | 1/4"-20 UNC x 1/2" | PKG QTY. 100 |

**ASME B18.3**
**OVAL POINT**



**478-014**
4-40 UNC x 3/8"
**PKG QTY. 50**

**PLASTIKIT «PLASTIKIT» 804-085**

CUP POINT
# HEX SOCKET SET SCREWS

**ALLOY STEEL - NOT PLATED**
**20 Sizes, 155 Pieces**

Put up in a clear, durable plasitic container with hinged lid.
Size: 1" x 2-3/4" x 4-1/2"






**For the complete assortment contents turn to A56**





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# STEEL

Not Plated



# CUP POINT

ASME B18.3

**Threads Class 2A or 3A (our option), UNC & UNF as shown**

B

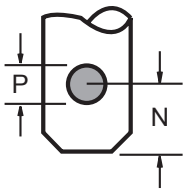
*with*
*PELLETIZED*
# NYLON LOCKING INSERT



**The Pellet Material is:**

## TYPE 6/6 NYLON

- unaffected by commercial solvents, alcohols, gasoline, oil, or water. It retains its high strength and low absorption at **-57°C** (-70°F); withstands continuous heat up to **121°C** (250°F); is an ideal pressure seat.




***See page B236 for general data and specific info. re:***

**(N) Pellet Location:**
**Tolerance: ± 1/2 of Thread Pitch**

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**

| DIA. | 4 | 5 | 6 | 8 | 10 | 10 | 1/4" | 1/4" | 5/16" | 5/16" |
|---|---|---|---|---|---|---|---|---|---|---|
| THD. | 40 UNC | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 28 UNF | 18 UNC | 24 UNF |
| 3/16 | **476-001** | **476-056** | **476-005** | **476-011** | | | | | | |
| 1/4 | **476-002** | **476-057** | **476-006** | **476-012** | **476-017** | **476-022** | **476-026** | **476-033** | | |
| 5/16 | | | | | **476-018** | | | | **476-038** | |
| 3/8 | **476-003** | | **476-007** | **476-013** | **476-019** | **476-023** | **476-027** | **476-034** | **476-039** | **476-042** |
| 1/2 | **476-004** | **476-058** | **476-008** | **476-014** | **476-020** | **476-024** | **476-028** | **476-035** | **476-040** | **476-043** |
| 3/4 | | | **476-009** | | **476-059** | **476-025** | **476-029** | **476-036** | **476-041** | |
| 7/8 | | | **476-010** | | | | | | | |
| 1 | | | | **476-015** | | | **476-030** | **476-037** | | |
| 1-1/4 | | | | | | | **476-031** | | | |
| 1-1/2 | | | | | | | **476-032** | | | |

| DIA. | 3/8" | 3/8" | 7/16" | 1/2" | 1/2" | 5/8" | 5/8" | 3/4" | | |
|---|---|---|---|---|---|---|---|---|---|---|
| THD. | 16 UNC | 24 UNF | 20 UNF | 13 UNC | 20 UNF | 11 UNC | 18 UNF | 10 UNC | | |
| 3/8 | **476-044** | **476-047** | | | | | | | | |
| 1/2 | **476-045** | **476-048** | **476-060** | **476-051** | **476-054** | | **476-067** | | | |
| 5/8 | **476-061** | **476-049** | | | **476-064** | | | | | |
| 3/4 | **476-046** | **476-050** | | **476-052** | | | | | | |
| 1 | | | | **476-053** | **476-055** | | | **476-065** | | |
| 1-1/2 | | | | **476-062** | | **476-063** | | | | |

Contact Sales Desk For Package Quantities



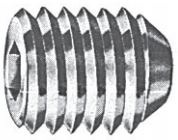
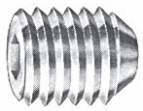
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B

# 18-8 STAINLESS STEEL



## CUP POINT UNC & UNF


**Head/Body & Socket Dimensions to ANSI/ASME B18.3**

Threads Class 3A or 2A (at our option), UNC & UNF as shown, in accordance with ANSI B1.1.

| DIA. | 0 | 1 | 2 | 3 | 4 | 6 | 6 | 8 | 10 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| THD. | 80 UNF | 72 UNF | 56 UNC | 56 UNF | 40 UNC | 32 UNC | 40 UNF | 32 UNC | 24 UNC | 32 UNF |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 1/8 | SS-2005 | SS-2007 | 479-D31-1X | | 479-D14-1K | SS-2022 | 479-D09-1C | | | 479-D18-1A |
| 3/16 | SS-2006 | SS-2008 | 479-D03-2W | | SS-2014 | 479-D07-1P | | 479-D19-1P | 479-D16-1M | SS-2032 |
| 1/4 | 479-034 | | SS-2011 | 479-022 | SS-2015 | SS-2001 | 479-D24-1N | SS-2023 | ◆SS-2028 | 479-D33-1P |
| 5/16 | | | | | | SS-2002 | | | | 479-D32-1A |
| 3/8 | | | | | 479-D17-1X | SS-2020 | | SS-2024 | 479-D13-1T | 479-001 |
| 1/2 | | | | | 479-D02-1K | SS-2021 | | 479-D36-1N | ■SS-2030 | SS-2035 |
| 5/8 | | | | | | | | | 479-D15-1W | 479-040 |
| 3/4 | | | | | 479-013 | 479-D05-1X | | 479-D35-1C | | SS-2036 |
| 1 | | | | | | | | | | 479-D12-1N |
| | PKG QTY. 50 | | | | | | | | | |

◆ **479-035** Flat Point ■**479-036** Flat Point

| DIA. | 1/4" | 1/4" | 5/16" | 5/16" | 3/8" | 3/8" | 1/2" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 20 UNC | 28 UNF | 18 UNC | 24 UNF | 16 UNC | 24 UNF | 13 UNC | 11 UNC | 10 UNC |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 3/16 | 479-D10-1Y | | | | | | | | |
| 1/4 | 479-D34-1Y | SS-2042 | SS-2045 | | | | | | |
| 5/16 | SS-2012 | SS-2043 | 479-D25-1T | | | | | | |
| 3/8 | 479-D29-1X | SS-2044 | 479-D21-1P | SS-2050 | 479-D30-1M | | 479-D04-1M | | |
| 7/16 | | | | 479-021 | | | | | |
| 1/2 | 479-D01-2T | 479-026 | *479-D08-1Y | | SS-2052 | 479-019 | SS-2056 | | |
| 5/8 | 479-D06-1A | | | | | | 479-009 | 479-D11-1C | |
| 3/4 | SS-2041 | 479-010 | ▲SS-2049 | | 479-D22-1Y | | SS-2057 | SS-2059 | |
| 7/8 | | 479-011 | | | | | | | |
| 1 | 479-004 | | | | SS-2054 | 479-D27-1W | SS-2058 | 479-012 | SS-2060 |
| 1-1/4 | | | 479-D28-1M | 479-038 | 479-D26-1K | 479-031 | | | |
| 1/-1/2 | 479-D20-1A | | | | | | | | |
| 1-3/4 | | | | | 479-025 | | | | |
| | PKG QTY. 50 | | | | | | | PKG QTY. 25 | |

***479-027** Cone Point ▲**479-033** "Half-dog Point"

Also Stocked in **316 Stainless Steel**

**479-016**
10-32 x 3/8"
**SS-2004**
1/4"-20 x 1/4"
**SS-2061**
1/4"-20 x 5/16"
**479-015**
1/4"-20 x 3/8"
**479-037**
5/16"-18 x 3/8"
**479-D23-1C**
5/16"-18 x 5/8"
**479-014**
3/8"-16 x 1/2"
**479-018**
1/2"-13 x 3/4"
**PKG QTY. 50**

**479-029**
7/8"-9 x 2"
**PKG QTY. 5**


Page A56

ASSORTMENT ASSORTIMENT **805-517**

Cup Point
**Hex Socket Set Screws**
**18-8 Stainless Steel**

**940 Pieces, 21 Sizes**

Furnished in a grey enamelled REGULAR SIZE steel drawer will fit slide racks shown on page A2.
Shipping Weight: **2.94 kg** (6-1/2 lbs.)





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# BRASS
(Not Plated)

## Hex Socket Set Screws
### CUP POINT

**Head/Body & Socket Dimensions to ANSI/ASME B18.3**

**Threads Class 3A or 2A (at our option), UNC in accordance with ANSI B1.1.**

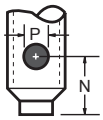




| DIA. | 6 | 8 | 10 | 1/4" | 5/16" | 3/8" | 1/2" |
|---|---|---|---|---|---|---|---|
| THD. | 32 UNC | 32 UNC | 24 UNC | 20 UNC | 18 UNC | 16 UNC | 13 UNC |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 1/4 | **480-001** | **480-007** | **480-002** | **480-012** | | | |
| 5/16 | | | | **480-003** | **480-004** | | |
| 3/8 | | | | | | **480-005** | |
| 1/2 | | | **480-013** | **480-A01-1T** | **480-008** | **480-006** | **480-009** |
| 3/4 | | | | | | **480-A02-1K** | |
| 1 | | | | **480-011** | | | |

**Contact Sales Desk For Package Quantities**

## Hex Socket Set Screws
### Alloy Steel - Not Plated
Hardness - Rc-28-34




**BRASS TIP**
Class 3A Thread Fit



***and NYLON LOCKING PELLETIZED INSERT***

| *SPAENAUR No.* | Thread Size x Length | P | N | PKG QTY. | *SPAENAUR No.* | Thread Size x Length | P | N | PKG QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **488-100** | 10-32 UNF x 1/4" | 3/32" | 3/16" | 50 | **488-107** | 5/16"-18 UNC x 1/4" | 1/8" | 19/64" | 25 |
| **488-101** | 10-32 UNF x 3/8" | 3/32" | 3/16" | 50 | **488-108** | 5/16"-18 UNC x 5/16" | 1/8" | 19/64" | 25 |
| **488-102** | 10-32 UNF x 1/2" | 3/32" | 3/16" | 50 | **488-109** | 5/16"-18 UNC x 3/8" | 1/8" | 19/64" | 25 |
| **488-103** | 1/4"-20 UNC x 1/4" | 7/64" | 1/4" | 50 | **488-110** | 5/16"-18 UNC x 1/2" | 1/8" | 19/64" | 25 |
| **488-104** | 1/4"-20 UNC x 5/16" | 7/64" | 1/4" | 50 | **488-111** | 3/8"-16 UNC x 3/8" | 9/64" | 5/16" | 25 |
| **488-105** | 1/4"-20 UNC x 3/8" | 7/64" | 1/4" | 50 | **488-112** | 3/8"-16 UNC x 1/2" | 9/64" | 5/16" | 25 |
| **488-106** | 1/4"-20 UNC x 1/2" | 7/64" | 1/4" | 50 | **488-113** | 3/8"-16 UNC x 3/4" | 9/64" | 5/16" | 25 |
| | | | | | **488-114** | 3/8"-16 UNC x 1" | 9/64" | 5/16" | 25 |

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

Vibra-TITE®

NEW

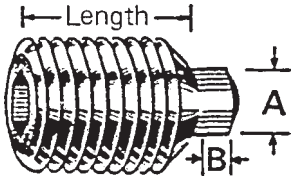
Threadlocker prevents threaded fasteners from coming loose due to shock and vibration.

See Page B4





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## BRASS TIP - BOUT DE LAITON

**SET SCREW - Alloy Steel**
ASME B18.3, Not Plated, RC 28-34 Hardness

**BRASS TIP - Half Hard Brass**

Class 3A Thread Fit UNC & UNF as shown.

More BRASS TIPS on page B239.

| DIA. | 2 | 4 | 6 | 8 | 10 | 10 | 1/4" | 1/4" | 5/16" |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 56 UNC | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 28 UNF | 18 UNC |
| A | 1/32" | 1/16" | 1/16" | 3/32" | 3/32" | 3/32" | 1/8" | 1/8" | 3/16" |
| B | 1/32" | 1/32" | 1/32" | 3/64" | 3/64" | 3/64" | 1/16" | 1/16" | 3/32" |
| Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 1/8" | 488-001 | 488-004 | 488-009 | 488-015 | | | | | |
| 3/16" | 488-002 | 488-005 | 488-010 | 488-016 | 488-022 | 488-029 | 488-036 | 488-044 | |
| 1/4" | 488-003 | 488-006 | 488-011 | 488-017 | 488-023 | 488-030 | 488-037 | 488-045 | 488-052 |
| 5/16" | | 488-007 | 488-012 | 488-018 | 488-024 | 488-031 | 488-038 | 488-046 | 488-053 |
| 3/8" | | 488-008 | 488-013 | 488-019 | 488-025 | 488-032 | 488-039 | 488-047 | 488-054 |
| 1/2" | | | 488-014 | 488-020 | 488-026 | 488-033 | 488-040 | 488-048 | 488-055 |
| 5/8" | | | | 488-021 | 488-027 | 488-034 | 488-041 | 488-049 | 488-056 |
| 3/4" | | | | | 488-028 | 488-035 | 488-042 | 488-050 | 488-057 |
| 1" | | | | | | | 488-043 | 488-051 | 488-058 |
| | PKG QTY. 50 | | | | | | | | PKG QTY. 25 |

| DIA. | 5/16" | 3/8" | 3/8" | 1/2" | 1/2" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|---|
| THD. | 24 UNF | 16 UNC | 24 UNF | 13 UNC | 20 UNF | 11 UNC | 10 UNC |
| A | 3/16" | 3/16" | 3/16" | 1/4" | 1/4" | 5/16" | 1/2" |
| B | 3/32" | 3/32" | 3/32" | 1/8" | 1/8" | 3/32" | 1/8" |
| Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 1/4" | 488-059 | 488-066 | 488-073 | | | | |
| 5/16" | 488-060 | 488-067 | 488-074 | | | | |
| 3/8" | 488-061 | 488-068 | 488-075 | 488-080 | 488-085 | | |
| 1/2" | 488-062 | 488-069 | 488-076 | 488-081 | 488-086 | 488-090 | |
| 5/8" | 488-063 | 488-070 | 488-077 | 488-082 | 488-087 | | |
| 3/4" | 488-064 | 488-071 | 488-078 | 488-083 | 488-088 | 488-091 | 488-093 |
| 1" | 488-065 | 488-072 | 488-079 | 488-084 | 488-089 | | |
| 1-1/4" | | | | | | 488-092 | 488-094 |
| 1-1/2" | | | | | | | 488-095 |
| 2" | | | | | | | 488-096 |
| | PKG QTY. 25 | | | PKG QTY. 10 | | | |

For Hex & Specialty Key Sets see Page P2-12

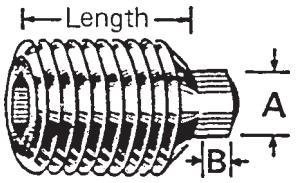







See page B239 for Nylon Locking Pellet Insert

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## NYLON TIP - BOUT DE NYLON

### SET SCREW - Alloy Steel

ASME B18.3, Not Plated, RC 28-34 Hardness

### NYLON TIP

Class 3A Thread Fit UNC & UNF as shown.

B

| DIA. | 2 | 4 | 6 | 8 | 10 | 10 | 1/4" | 1/4" | 5/16" |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 56 UNC | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 28 UNF | 18 UNC |
| A | 1/32" | 1/16" | 1/16" | 3/32" | 3/32" | 3/32" | 1/8" | 1/8" | 3/16" |
| B | 1/32" | 1/32" | 1/32" | 3/64" | 3/64" | 3/64" | 1/16" | 1/16" | 3/32" |
| Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 1/8" | 488-200 | 488-203 | 488-208 | 488-214 | | | | | |
| 3/16" | 488-201 | 488-204 | 488-209 | 488-215 | 488-221 | 488-228 | 488-235 | 488-243 | |
| 1/4" | 488-202 | 488-205 | 488-210 | 488-216 | 488-222 | 488-229 | 488-236 | 488-244 | 488-251 |
| 5/16" | | 488-206 | 488-211 | 488-217 | 488-223 | 488-230 | 488-237 | 488-245 | 488-252 |
| 3/8" | | 488-207 | 488-212 | 488-218 | 488-224 | 488-231 | 488-238 | 488-246 | 488-253 |
| 1/2" | | | 488-213 | 488-219 | 488-225 | 488-232 | 488-239 | 488-247 | 488-254 |
| 5/8" | | | | 488-220 | 488-226 | 488-233 | 488-240 | 488-248 | 488-255 |
| 3/4" | | | | | 488-227 | 488-234 | 488-241 | 488-249 | 488-256 |
| 1" | | | | | | | 488-242 | 488-250 | 488-257 |
| 1-1/2" | | | | | | | | | 488-289 |
| | PKG QTY. 50 | | | | | | | | PKG QTY. 25 |

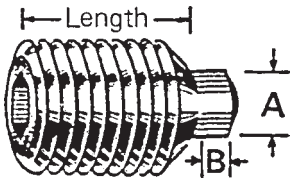
| DIA. | 5/16" | 3/8" | 3/8" | 1/2" | 1/2" |
|---|---|---|---|---|---|
| THD. | 24 UNF | 16 UNC | 24 UNF | 13 UNC | 20 UNF |
| A | 3/16" | 3/16" | 3/16" | 1/4" | 1/4" |
| B | 3/32" | 3/32" | 3/32" | 1/8" | 1/8" |
| Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 1/4" | 488-258 | 488-265 | 488-272 | | |
| 5/16" | 488-259 | 488-266 | 488-273 | | |
| 3/8" | 488-260 | 488-267 | 488-274 | 488-279 | 488-284 |
| 1/2" | 488-261 | 488-268 | 488-275 | 488-280 | 488-285 |
| 5/8" | 488-262 | 488-269 | 488-276 | 488-281 | 488-286 |
| 3/4" | 488-263 | 488-270 | 488-277 | 488-282 | 488-287 |
| 1" | 488-264 | 488-271 | 488-278 | 488-283 | 488-288 |
| | PKG QTY. 25 | | | PKG QTY. 10 | |

Need Hex Keys? See Pages P2-12



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B




## NYLON TIP - BOUT DE NYLON
## SET SCREW - 303 STAINLESS STEEL
### NYLON TIP

Class 2A or 3A Thread Fit - our option.

Also available on request - STAINLESS STEEL SET SCREWS with BRASS TIPS.

| DIA. | 2 | 4 | 6 | 8 | 10 | 10 | 1/4" | 1/4" | 5/16" |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 56 UNC | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 28 UNF | 18 UNC |
| A | 1/32" | 1/16" | 1/16" | 3/32" | 3/32" | 3/32" | 1/8" | 1/8" | 3/16" |
| B | 1/32" | 1/32" | 1/32" | 3/64" | 3/64" | 3/64" | 1/16" | 1/16" | 3/32" |
| Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 1/8" | | | 488-852 | | | | | | |
| 3/16" | 488-805 | | | | | | | | |
| 1/4" | 488-806 | 488-807 | 488-809 | 488-812 | 488-816 | ■488-851 | ▲488-848 | *488-850 | 488-829 |
| 5/16" | | 488-808 | | | | 488-801 | 488-821 | 488-825 | 488-830 |
| 3/8" | | | | | | | 488-853 (Brass Tip) | | |
| 3/8" | | 488-803 | 488-810 | 488-813 | 488-817 | 488-802 | ▲488-849 | | |
| 1/2" | | | 488-811 | 488-814 | 488-804 | 488-819 | 488-822 | 488-826 | 488-831 |
| 5/8" | | | | 488-815 | | | | | |
| 3/4" | | | | | 488-818 | 488-820 | 488-823 | 488-827 | |
| 1" | | | | | | | 488-824 | 488-828 | 488-832 |
| | PKG QTY. 50 | | | | | | | | PKG QTY. 25 |

■ **488-847** with Brass Tip ▲also with pelletized nylon locking insert

Table continues below

| DIA. | 5/16" | 3/8" | 3/8" | 1/2" | 1/2" |
|---|---|---|---|---|---|
| THD. | 24 UNF | 16 UNC | 24 UNF | 13 UNC | 20 UNF |
| A | 3/16" | 3/16" | 3/16" | 1/4" | 1/4" |
| B | 3/32" | 3/32" | 3/32" | 1/8" | 1/8" |
| Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 1/4" | 488-833 | 488-836 | 488-840 | | |
| 3/8" | | 488-837 | | 488-843 | 488-845 |
| 1/2" | 488-834 | 488-838 | 488-841 | 488-844 | 488-846 |
| 3/4" | | 488-839 | 488-842 | | |
| 1" | 488-835 | | | 488-800 | |
| | PKG QTY. 25 | | | PKG QTY. 10 | |

For Hex & Specialty Key Sets see Page P2-12









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# ALLOY STEEL

**Heat-Treated** **Not Plated**

**Inch Sizes**

## HEX SOCKET SET SCREWS

## with "Half-Dog" Point



***UNC & UNF***
ASME B18.3

Thread — Class 3A Fit.

B

| DIA. | 4 | 6 | 8 | 10 | 10 | 1/4" | 1/4" | 5/16" |
|---|---|---|---|---|---|---|---|---|
| THD. | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 28 UNF | 18 UNC |
| KEY | .050" | 1/16" | 5/64" | 3/32" | 3/32" | 1/8" | 1/8" | 5/32" |
| OVERALL LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 3/16" | | | 478-105 | 478-111 | 478-117 | | | |
| 1/4" | 478-100 | 478-102 | 478-106 | 478-112 | 478-118 | 478-122 | 478-129 | 478-132 |
| 5/16" | 478-101 | 478-103 | 478-107 | 478-E09-1X | 478-119 | 478-123 | 478-130 | 478-133 |
| 3/8" | | 478-104 | 478-108 | 478-114 | 478-120 | 478-124 | 478-131 | 478-134 |
| 1/2" | | | 478-109 | 478-115 | 478-121 | 478-125 | | 478-135 |
| 5/8" | | | 478-110 | 478-116 | | 478-126 | | 478-136 |
| 3/4" | | | | | | 478-127 | | 478-137 |
| 1" | | | | | | 478-128 | | 478-138 |

Continues below

| DIA. | 5/16" | 3/8" | 3/8" | 1/2" | 1/2" |
|---|---|---|---|---|---|
| THD. | 24 UNF | 16 UNC | 24 UNF | 13 UNC | 20 UNF |
| KEY | 5/32" | 3/16" | 3/16" | 1/4" | 1/4" |
| OVERALL LENGTH | ORDER BY *SPAENAUR* NUMBERS | | | | |
| 5/16" | 478-139 | | | | |
| 3/8" | 478-140 | 478-142 | 478-148 | | |
| 1/2" | 478-141 | 478-143 | 478-149 | 478-150 | 478-155 |
| 5/8" | | 478-144 | | 478-151 | |
| 3/4" | | 478-145 | | 478-152 | |
| 1" | 478-156 | 478-146 | | 478-153 | |
| 1-1/4" | | 478-147 | | 478-154 | |
| 1-3/4" | | 478-157 | | | |

**Contact Sales Desk**
**For Package Quantities**

**ASSORTMENT**
**ASSORTIMENT** **805-488**

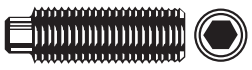
**ALLOY STEEL - NOT PLATED**

## HEX SOCKET SET SCREWS

INCH SIZES

**24 SIZES - 500 PIECES**

**"Half-Dog" Point**



Put up in a REGULAR SIZE grey enamelled STEEL drawer, which fits slide racks shown on page A2.

Shipping Weight **2.49 kg** (5.5 lbs.)





**For the complete assortment contents turn to A56**



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B

## SQUARE HEAD SET SCREWS

# STEEL

**CASE HARDENED - Not Plated**

***CUP POINT / UNC***



**ASME B18.6.2**

***UNC***

**UNIFIED STANDARD THREAD - CLASS 2A FIT**

| DIA. | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" | 5/8" | 3/4" | 7/8" | 1" |
|---|---|---|---|---|---|---|---|---|---|
| THD. | 20 UNC | 18 UNC | 16 UNC | 14 UNC | 13 UNC | 11 UNC | 10 UNC | 9 UNC | 8 UNC |
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 3/8 | SS-1 | | | | | | | | |
| 1/2 | SS-2 | SS-7 | SS-12 | | | | | | |
| 5/8 | 486-040 | | | | | | | | |
| 3/4 | SS-3 | SS-8 | SS-13 | SS-18 | SS-23 | | | | |
| 1 | SS-4 | SS-9 | SS-14 | SS-19 | SS-24 | | | | |
| 1-1/4 | SS-5 | SS-10 | SS-15 | SS-20 | SS-25 | | | | |
| 1-1/2 | SS-6 | SS-11 | SS-16 | SS-21 | SS-26 | | | | |
| 1-3/4 | | | | | SS-96 | | | | |
| 2 | SS-127 | | SS-17 | SS-22 | SS-27 | SS-270 | 486-030 | | |
| 2-1/2 | 486-041 | | | | SS-268 | SS-273 | 486-047 | | |
| 3 | 486-033 | 486-042 | 486-036 | | SS-97 | 486-028 | 486-031 | | |
| 3-1/2 | | | | | | 486-029 | 486-045 | | |
| 4 | | | | 486-037 | SS-269 | | 486-044 | | 486-046 |
| 4-1/2 | | | | | | 486-034 | 486-052 | | |
| 5 | | | | | | | 486-035 | 486-027 | |
| 6 | | | | | 486-038 | 486-043 | 486-032 | | 486-048 |
| 7 | | | | | | | 486-039 | | |

**Contact Sales Desk For Package Quantities**

Head & Body Dimensions to ASME B18.6.2

## 18-8 Stainless Steel

| | | |
|---|---|---|
| **486-802** | 5/16"-18 UNC x 1" | **PKG QTY. 50** |
| **486-801** | 5/16"-18 UNC x 1-1/2" | **PKG QTY. 50** |
| **486-803** | 3/8"-16 UNC x 2" | **PKG QTY. 25** |
| **486-800** | 5/8"-11 UNC x 3" | **PKG QTY. 10** |

**ASSORTMENT / ASSORTIMENT B-582**

## SQUARE HEAD SET SCREWS

***CUP POINT / UNC***

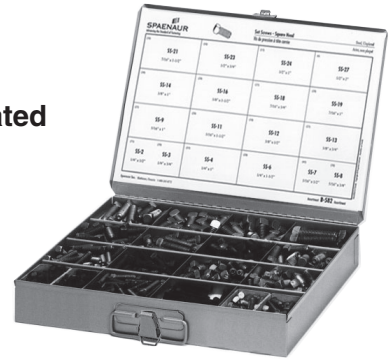
**STEEL - Case Hardened - Not Plated**

**18 Varieties - 491 pieces.**

Furnished in Regular Size Steel drawer which will fit into Slide Racks shown on page A2.

Shipping Weight:
**7.37 kg** (16-1/4 lbs.)





| Thread Size | Spaenaur No. | Screw Length | Qty. |
|---|---|---|---|
| 1/4"-20 | SS-2 | 1/2" | 75 |
| | SS-3 | 3/4" | 50 |
| | SS-4 | 1" | 35 |
| | SS-6 | 1-1/2" | 20 |
| 5/16"-18 | SS-7 | 1/2" | 45 |
| | SS-8 | 3/4" | 30 |
| | SS-9 | 1" | 25 |
| | SS-11 | 1-1/2" | 20 |
| 3/8"-16 | SS-12 | 1/2" | 30 |
| | SS-13 | 3/4" | 25 |
| | SS-14 | 1" | 30 |
| | SS-16 | 1-1/2" | 20 |
| 7/16"-14 | SS-18 | 3/4" | 25 |
| | SS-19 | 1" | 20 |
| | SS-21 | 1-1/2" | 10 |
| 1/2"-13 | SS-23 | 3/4" | |
| | SS-24 | 1" | 15 |
| | SS-27 | 2" | 6 |



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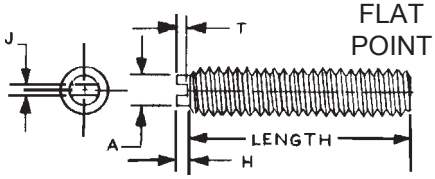
# NYLON
(Natural Colour)

**Type 6/6**
**UL94V2**

## Moulded NYLON Components
*They're TOUGH, resist corrosion, dampen vibration*



| Thread Size | Dimensions in Inches A | H | J | T |
|---|---|---|---|---|
| 2 | .055 | .035 | .018 | .020 |
| 4 | .075 | .045 | .020 | .025 |
| 6 | .100 | .055 | .025 | .030 |
| 8 | .120 | .055 | .028 | .035 |
| 10 | .150 | .060 | .035 | .050 |
| 1/4" | .175 | .080 | .040 | .060 |




B

## NYLON SLOTTED SET SCREWS

## GOOD ELECTRICAL INSULATORS
**PKG QTY. 100**

| SPAENAUR No. | Thread | Length |
|---|---|---|
| **477-001** | 2-56 | 3/32" |
| **477-002** | 2-56 | 1/8" |
| **477-003** | 2-56 | 5/32" |
| **477-004** | 2-56 | 3/16" |
| **477-005** | 2-56 | 1/4" |
| **477-006** | 2-56 | 9/32" |
| **477-007** | 2-56 | 5/16" |
| **477-008** | 2-56 | 3/8" |
| **477-009** | 2-56 | 7/16" |
| **477-010** | 2-56 | 1/2" |
| **477-011** | 4-40 | 1/8" |
| **477-012** | 4-40 | 5/32" |
| **477-013** | 4-40 | 3/16" |
| **477-014** | 4-40 | 1/4" |
| **477-015** | 4-40 | 9/32" |
| **477-016** | 4-40 | 5/16" |
| **477-017** | 4-40 | 3/8" |
| **477-018** | 4-40 | 7/16" |
| **477-019** | 4-40 | 1/2" |
| **477-020** | 6-32 | 3/32" |
| **477-021** | 6-32 | 1/8" |
| **477-022** | 6-32 | 3/16" |
| **477-023** | 6-32 | 1/4" |
| **477-024** | 6-32 | 5/16" |
| **477-025** | 6-32 | 3/8" |
| **477-026** | 6-32 | 7/16" |
| **477-027** | 6-32 | 1/2" |
| **477-028** | 8-32 | 1/8" |
| **477-029** | 8-32 | 3/16" |
| **477-030** | 8-32 | 1/4" |
| **477-031** | 8-32 | 5/16" |
| **477-032** | 8-32 | 3/8" |
| **477-033** | 8-32 | 7/16" |
| **477-034** | 8-32 | 1/2" |
| **477-035** | 8-32 | 5/8" |
| **477-036** | 8-32 | 3/4" |
| **477-037** | 10-24 | 1/8" |
| **477-038** | 10-24 | 3/16" |
| **477-039** | 10-24 | 1/4" |
| **477-040** | 10-24 | 5/16" |
| **477-041** | 10-24 | 3/8" |
| **477-042** | 10-24 | 1/2" |
| **477-043** | 10-24 | 5/8" |
| **477-044** | 10-24 | 3/4" |
| **477-045** | 10-32 | 1/8" |
| **477-046** | 10-32 | 3/16" |
| **477-047** | 10-32 | 1/4" |
| **477-048** | 10-32 | 5/16" |
| **477-049** | 10-32 | 3/8" |
| **477-050** | 10-32 | 1/2" |
| **477-051** | 10-32 | 5/8" |
| **477-052** | 10-32 | 3/4" |
| **477-053** | 1/4-20 | 1/4" |
| **477-054** | 1/4-20 | 5/16" |
| **477-055** | 1/4-20 | 3/8" |
| **477-056** | 1/4-20 | 1/2" |
| **477-057** | 1/4-20 | 5/8" |
| **477-058** | 1/4-20 | 3/4" |
| **477-059** | 1/4-20 | 7/8" |
| **477-060** | 1/4-20 | 1" |

# HEADLESS SLOTTED SET SCREWS

## CARBON STEEL
**CASE HARDENED - Not Plated** **ASME B18.6.2**
**UNC & UNF THREAD - CLASS 2A FIT**

| | DIA. | 4 | 6 | 8 | 10 | 10 | 1/4" | 5/16" | PKG QTY. |
|---|---|---|---|---|---|---|---|---|---|
| | THD. | 40 UNC | 32 UNC | 32 UNC | 24 UNC | 32 UNF | 20 UNC | 24 UNF | |
| | LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| CUP POINT | 1/8" | | **SS-70** | | | | | | 50 |
| | 3/16" | | **SS-71** | **SS-74** | **SS-83** | **SS-78** | | | 50 |
| | 1/4" | | **SS-72** | **SS-75** | | **SS-79** | **SS-108** | | 50 |
| | 5/16" | | | **SS-76** | | | | | 50 |
| | 3/8" | **SS-271** | | **SS-114** | | | | | 50 |
| | 1/2" | | **470-001** | **SS-77** | | | | | 50 |
| | 5/8" | | | **SS-267** | | | | | 50 |
| CONE POINT | 3/16" | | | | **SS-102** | | | | 50 |
| | 5/16" | | | **SS-99** | | | | | 50 |
| | 3/8" | | | | | | **725** | | 50 |
| | 1/2" | | | | **SS-272** | | | | 50 |
| | 5/8" | | | | | **1073** | **790** | | 50 |
| | 7/8" | | | | | **1074** | | | 50 |
| FLAT POINT | 5/8" | | | | **1179** | | | | 50 |
| | 7/8" | | | | **SS-80** | | | | 50 |
| OVAL POINT | 5/16" | | | | | | | **470-003** | 50 |
| | | | | | | | | **470-004** (Zinc Plated) | |



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B

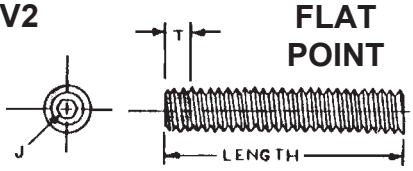
## NYLON HEX SOCKET SET SCREWS
### Moulded NYLON Components

# NYLON
(Natural Colour)



**Type 6/6**
**UL 94V2**

**FLAT POINT**




***Tough, Corrosion/Vibration Resistant***
Dielectric Strength: 600 V/mil $10^{14}$ OHM-CM

**Inch Sizes**

| Thread Size | J | T |
|---|---|---|
| 4 | .050" | .070" |
| 6 | .062" | .080" |
| 8 | .078" | .090" |
| 10 | .094" | .100" |
| 1/4" | .125" | .125" |
| 5/16" | .156" | .156" |
| 3/8" | .188" | .188" |
| 1/2" | .250" | .250" |
| 5/8" | .312" | .312" |

| *SPAENAUR No.* | Thread Size x Lgth. | PKG QTY. |
|---|---|---|
| **477-200** | 4-40 x 1/8" | 100 |
| **477-201** | 4-40 x 9/64" | 100 |
| **477-202** | 4-40 x 5/32" | 100 |
| **477-203** | 4-40 x 3/16" | 100 |
| **477-204** | 4-40 x 1/4" | 100 |
| **477-205** | 4-40 x 9/32" | 100 |
| **477-206** | 4-40 x 5/16" | 100 |
| **477-207** | 4-40 x 3/8" | 100 |
| **477-208** | 4-40 x 7/16" | 100 |
| **477-209** | 4-40 x 1/2" | 100 |
| **477-210** | 6-32 x 3/32" | 100 |
| **477-211** | 6-32 x 1/8" | 100 |
| **477-212** | 6-32 x 3/16" | 100 |
| **477-213** | 6-32 x 1/4" | 100 |
| **477-214** | 6-32 x 5/16" | 100 |
| **477-215** | 6-32 x 3/8" | 100 |
| **477-216** | 6-32 x 7/16" | 100 |
| **477-217** | 6-32 x 1/2" | 100 |
| **477-218** | 8-32 x 3/16" | 100 |
| **477-219** | 8-32 x 1/4" | 100 |
| **477-220** | 8-32 x 5/16" | 100 |
| **477-221** | 8-32 x 3/8" | 100 |

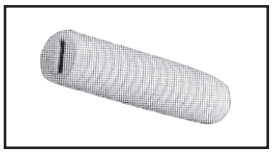
| *SPAENAUR No.* | Thread Size x Lgth. | PKG QTY. |
|---|---|---|
| **477-222** | 8-32 x 7/16" | 100 |
| **477-223** | 8-32 x 1/2" | 100 |
| **477-224** | 8-32 x 5/8" | 100 |
| **477-225** | 8-32 x 3/4" | 100 |
| **477-226** | 10-24 x 1/8" | 100 |
| **477-227** | 10-24 x 3/16" | 100 |
| **477-228** | 10-24 x 1/4" | 100 |
| **477-229** | 10-24 x 5/16" | 100 |
| **477-230** | 10-24 x 3/8" | 100 |
| **477-231** | 10-24 x 1/2" | 100 |
| **477-232** | 10-24 x 5/8" | 100 |
| **477-233** | 10-24 x 3/4" | 100 |
| **477-234** | 10-32 x 1/8" | 100 |
| **477-235** | 10-32 x 3/16" | 100 |
| **477-236** | 10-32 x 1/4" | 100 |
| **477-237** | 10-32 x 5/16" | 100 |
| **477-238** | 10-32 x 3/8" | 100 |
| **477-239** | 10-32 x 1/2" | 100 |
| **477-240** | 10-32 x 5/8" | 100 |
| **477-241** | 10-32 x 3/4" | 100 |
| **477-242** | 1/4-20 x 1/4" | 100 |

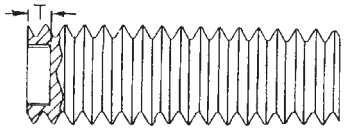
| *SPAENAUR No.* | Thread Size x Lgth. | PKG QTY. |
|---|---|---|
| **477-243** | 1/4-20 x 5/16" | 100 |
| **477-244** | 1/4-20 x 3/8" | 100 |
| **477-245** | 1/4-20 x 1/2" | 100 |
| **477-246** | 1/4-20 x 5/8" | 100 |
| **477-247** | 1/4-20 x 3/4" | 100 |
| **477-248** | 1/4-20 x 7/8" | 100 |
| **477-249** | 1/4-20 x 1" | 100 |
| **477-250** | 5/16-18 x 1/2" | 100 |
| **477-251** | 5/16-18 x 3/4" | 100 |
| **477-252** | 5/16-18 x 1" | 100 |
| **477-253** | 3/8-16 x 1/2" | 100 |
| **477-254** | 3/8-16 x 3/4" | 100 |
| **477-255** | 3/8-16 x 1" | 100 |
| **477-256** | 1/2-13 x 1/2" | 50 |
| **477-258** | 1/2-13 x 1" | 50 |
| **477-259** | 1/2-13 x 1-1/4" | 50 |
| **477-260** | 5/8-11 x 1/2" | 25 |
| **477-261** | 5/8-11 x 3/4" | 25 |
| **477-262** | 5/8-11 x 1" | 25 |
| **477-263** | 5/8-11 x 1-1/2" | 25 |

## SLOTTED NYLON GRUB SCREWS

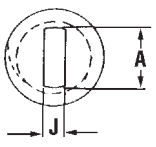
# NYLON

**Type 6/6** **UL 94V2**
(NATURAL COLOUR)






FLAT POINT




| NOMINAL SCREW SIZE | T | A | J |
|---|---|---|---|
| 6-32 | .030" | .080" | .025" |
| 8-32 | .035" | .100" | .028" |
| 10-32 | .050" | .130" | .035" |
| 1/4"-20 | .060" | .160" | .040" |

| *SPAENAUR No.* | Thread Size x Length | *SPAENAUR No.* | Thread Size x Length | *SPAENAUR No.* | Thread Size x Length |
|---|---|---|---|---|---|
| **477-100** | 6-32 x 1/8" | **477-113** | 8-32 x 5/8" | **477-126** | 10-32 x 5/16" |
| **477-101** | 6-32 x 3/16" | **477-114** | 8-32 x 3/4" | **477-127** | 10-32 x 3/8" |
| **477-102** | 6-32 x 1/4" | **477-115** | 10-24 x 1/8" | **477-128** | 10-32 x 1/2" |
| **477-103** | 6-32 x 5/16" | **477-116** | 10-24 x 3/16" | **477-129** | 10-32 x 5/8" |
| **477-104** | 6-32 x 3/8" | **477-117** | 10-24 x 1/4" | **477-130** | 10-32 x 3/4" |
| **477-105** | 6-32 x 7/16" | **477-118** | 10-24 x 5/16" | **477-131** | 1/4-20 x 1/4" |
| **477-106** | 6-32 x 1/2" | **477-119** | 10-24 x 3/8" | **477-132** | 1/4-20 x 5/16" |
| **477-107** | 8-32 x 3/16" | **477-120** | 10-24 x 1/2" | **477-133** | 1/4-20 x 3/8" |
| **477-108** | 8-32 x 1/4" | **477-121** | 10-24 x 5/8" | **477-134** | 1/4-20 x 1/2" |
| **477-109** | 8-32 x 5/16" | **477-122** | 10-24 x 3/4" | **477-135** | 1/4-20 x 5/8" |
| **477-110** | 8-32 x 3/8" | **477-123** | 10-32 x 1/8" | **477-136** | 1/4-20 x 3/4" |
| **477-111** | 8-32 x 7/16" | **477-124** | 10-32 x 3/16" | **477-137** | 1/4-20 x 7/8" |
| **477-112** | 8-32 x 1/2" | **477-125** | 10-32 x 1/4" | **477-138** | 1/4-20 x 1" |

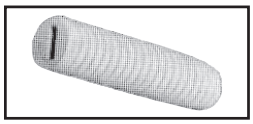
**PKG QTY. 100**



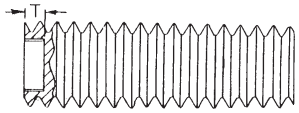


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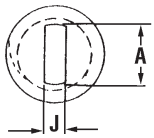
# METRIC
## SLOTTED GRUB SCREWS



## NYLON
**UL 94V2**
(Natural Colour)




FLAT POINT




| THREAD SIZE | A | J | T |
|---|---|---|---|
| M4 x 0.7 | 2.0 | .64 | .76 |
| M5 x 0.8 | 3.3 | .89 | 1.3 |
| M6 x 1.0 | 4.1 | 1.0 | 1.5 |
| M8 x 1.25 | 5.2 | 1.6 | 2.4 |
| M10 x 1.5 | 6.6 | 2.3 | 2.8 |

Regular (COARSE) Metric Thread

**Dimensions in Millimetres**

| *SPAENAUR No.* | Thread Dia. x Pitch x Lgth. | *SPAENAUR No.* | Thread Dia. x Pitch x Lgth. |
|---|---|---|---|
| 477-150 | M4 x .7 x 6 mm | 477-166 | M6 x 1.00 x 8 mm |
| 477-151 | M4 x .7 x 8 mm | 477-167 | M6 x 1.00 x 10 mm |
| 477-152 | M4 x .7 x 10 mm | 477-168 | M6 x 1.00 x 12 mm |
| 477-153 | M4 x .7 x 12 mm | 477-169 | M6 x 1.00 x 16 mm |
| 477-154 | M4 x .7 x 16 mm | 477-170 | M6 x 1.00 x 20 mm |
| 477-155 | M4 x .7 x 20 mm | 477-171 | M6 x 1.00 x 25 mm |
| 477-156 | M4 x .7 x 25 mm | 477-172 | M6 x 1.00 x 30 mm |
| 477-157 | M5 x .8 x 6 mm | 477-173 | M6 x 1.00 x 35 mm |
| 477-158 | M5 x .8 x 8 mm | 477-174 | M6 x 1.00 x 45 mm |
| 477-159 | M5 x .8 x 10 mm | 477-175 | M8 x 1.25 x 10 mm |
| 477-160 | M5 x .8 x 12 mm | 477-176 | M8 x 1.25 x 16 mm |
| 477-161 | M5 x .8 x 16 mm | 477-177 | M8 x 1.25 x 20 mm |
| 477-162 | M5 x .8 x 20 mm | 477-178 | M8 x 1.25 x 25 mm |
| 477-163 | M5 x .8 x 25 mm | 477-179 | M8 x 1.25 x 30 mm |
| 477-164 | M5 x .8 x 30 mm | 477-180 | M8 x 1.25 x 50 mm |
| 477-165 | M5 x .8 x 40 mm | 477-181 | M10 x 1.50 x 16 mm |
| | | 477-182 | M10 x 1.50 x 20 mm |
| | | 477-183 | M10 x 1.50 x 25 mm |

**PKG QTY. 100**

Consider the advantages of moulded **NYLON** Fasteners

***NYLON Fasteners - from SPAENAUR* (See page B24)**

**~ ISO 7434**

## Metric
## SLOTTED HEAD SET SCREW



**with CONE POINT**

**Material: 14H STEEL, *Plain Finish***

| *SPAENAUR No.* | Regular (COARSE) Metric Thread Dia. x Pitch x Length | PKG QTY. |
|---|---|---|
| 481-495 | M2 x 0.4 x 3 mm | 100 |
| 481-496 | M2 x 0.4 x 4 mm | 100 |
| 481-496ZP Zinc Plated | M2 x 0.4 x 4 mm | 100 |
| 481-472 | M5 x 0.8 x 10 mm | 50 |
| 481-474 | M6 x 1.0 x 10 mm | 50 |
| 481-475 | M8 x 1.25 x 30 mm | 50 |

## Metric
## SLOTTED HEAD SET SCREW



**with FLAT POINT**

**~ISO 4766**

**Material: A2 STAINLESS STEEL**

| *SPAENAUR No.* | Regular (COARSE) Metric Thread Dia. x Pitch x Length | PKG QTY. |
|---|---|---|
| 477-801 | M3 x 0.5 x 6 mm | 50 |
| 477-800 | M4 x 0.7 x 5 mm | 50 |

***The following pages, B248 - B253, show many more Metric Set Screws.***



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B

Heat-Treated Alloy

Not Plated

# 45H STEEL



# METRIC

**DIN 916**

This Standard has been replaced. Please see Catalog Page R21 for more information.

## *CUP POINT*

**METRIC "REGULAR" (COARSE) THREAD**



| DIAMETER in mm | M1.4 | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 |
|---|---|---|---|---|---|---|---|---|---|---|
| PITCH in mm | 0.30 | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 |
| KEY SIZE in mm | 0.71 | 0.89 | 1.3 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 |
| LENGTH in mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 3 | 481-002 | 481-006 | | 481-011 | | | | | *481-900 with pelletized Nylon Insert | |
| 4 | | 481-C01-1W | | 481-012 | 481-019 | | | | | |
| 5 | 481-004 | 481-008 | 481-126 | 481-013 | 481-020 | 481-028 | | | | |
| 6 | | 481-009 | 481-497 | 481-014 | 481-C06-1X | 481-029 | 481-038 | | | |
| 8 | | 481-010 | | 481-015 | 481-022 | 481-030 | 481-039 | 481-048 | | |
| 10 | | | | 481-016 | 481-023 | 481-031 | 481-040 | 481-049 | 481-056 | |
| 12 | | | | 481-017 | 481-024 | 481-032 | 481-041 | 481-050 | 481-128 | 481-C09-1Y |
| 15 | | | | | 481-025 | | | | | |
| 16 | | | | 481-123 | 481-026 | 481-034 | 481-043 | 481-052 | *481-081 | 481-062 |
| 18 | | | | | 481-431 | 481-436 | | | | |
| 20 | | | | 481-132 | 481-027 | 481-035 | 481-044 | 481-442 | 481-058 | 481-127 |
| 25 | | | | 481-430 | 481-432 | 481-036 | 481-045 | 481-053 | 481-446 | 481-063 |
| 30 | | | | | 481-433 | 481-037 | 481-440 | 481-443 | 481-059 | 481-129 |
| 35 | | | | | 481-434 | 481-437 | 481-046 | 481-054 | 481-082 | 481-064 |
| 40 | | | | | 481-435 | 481-438 | 481-441 | 481-444 | 481-447 | 481-450 |
| 45 | | | | | | 481-439 | 481-047 | 481-445 | 481-060 | 481-451 |
| 50 | | | | | | 481-085 | 481-488 | 481-055 | 481-448 | 481-065 |
| 60 | | | | | | | 481-802 | 481-084 | 481-449 | 481-066 |
| 70 | | | | | | | | | 481-494 | 481-484 |
| 80 | | | | | | | | | 481-483 | 481-452 |
| 100 | | | | | | | | | | 481-089 |
| | PKG QTY. 100 | | | | | PKG QTY. 50 | | | PKG QTY. 25 | |

| DIAMETER in mm | M14 | M16 | M20 | M24 |
|---|---|---|---|---|
| PITCH in mm | 2.00 | 2.00 | 2.50 | 3.00 |
| KEY SIZE in mm | 6 | 8 | 10 | 12 |
| LENGTH in mm | Order by *SPAENAUR* No's. below | | | |
| 16 | 481-453 | 481-067 | | |
| 20 | 481-133 | 481-083 | 481-072 | |
| 25 | 481-455 | 481-068 | 481-464 | 481-077 |
| 30 | 481-456 | 481-459 | 481-073 | 481-468 |
| 35 | | 481-069 | 481-465 | 481-078 |
| 40 | 481-134 | 481-470 | 481-074 | |
| 45 | | 481-070 | 481-466 | |
| 50 | 481-458 | 481-460 | 481-075 | 481-079 |
| 55 | | 481-071 | | |
| 60 | | 481-135 | 481-076 | 481-080 |
| 70 | | 481-462 | 481-485 | 481-489 |
| 80 | | 481-463 | 481-486 | 481-490 |
| 100 | | 481-422 | 481-487 | 481-491 |
| | PKG QTY. 25 | PKG QTY. 10 | | |

## * DIN 916 Hex Socket Set Screws PLATED

| Yellow Zinc | Dia. x Length | PKG QTY. |
|---|---|---|
| 481-013YZ | M3 x 5 mm | 100 |
| 481-022YZ | M4 x 8 mm | 100 |
| 481-441YZ | M6 x 40 mm | 50 |
| **Zinc Plated** | **Dia. x Length** | **PKG QTY.** |
| 481-012ZP | M3 x 4 mm | 100 |
| 481-014ZP | M3 x 6 mm | 100 |
| 481-039ZP | M6 x 8 mm | 50 |
| 481-043ZP | M6 x 16 mm | 50 |
| 481-048ZP | M8 x 8 mm | 50 |
| 481-056ZP | M10 x 10 mm | 25 |
| 481-451ZP | M12 x 45 mm | 25 |
| 481-065ZP | M12 x 50 mm | 25 |

* This Standard has been replaced. Please see Catalog Page R21 for more information.





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B

*CUP POINT*

# A2 STAINLESS STEEL

**METRIC "REGULAR" (COARSE) THREAD**

**ISO 4029**
~ ISO 4029

| DIAMETER in mm | M2 | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 |
|---|---|---|---|---|---|---|---|---|---|---|
| PITCH in mm | 0.40 | 0.45 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| KEY SIZE in mm | 0.89 | 1.3 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 |
| LENGTH in mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 3 | | | 482-058 | | | | | | | |
| 4 | | | 482-059 | 482-066 | | | | | | |
| 5 | | 482-W07-1X | 482-060 | 482-067 | 482-W03-1T | | | | | |
| 6 | 482-036 | | 482-061 | 482-004 | 482-071 | 482-076 | | | | |
| 8 | | | 482-062 | 482-005 | 482-010 | 482-016 | 482-054 | | | |
| 10 | | | 482-063 | 482-006 | 482-W05-1W | 482-017 | 482-055 | 482-086 | | |
| 12 | | | 482-064 | 482-007 | 482-012 | 482-018 | 482-022 | 482-087 | 482-096 | |
| 16 | | | 482-003 | 482-008 | 482-013 | 482-W04-1K | 482-023 | 482-W06-1M | 482-W02-1N | |
| 20 | | | 482-065 | 482-068 | 482-014 | 482-020 | 482-024 | 482-089 | 482-098 | 482-105 |
| 25 | | | | 482-069 | 482-072 | 482-021 | 482-025 | 482-090 | 482-099 | 482-106 |
| 30 | | | | 482-042 | 482-073 | 482-077 | 482-026 | 482-091 | 482-100 | 482-107 |
| 35 | | | | | 482-074 | 482-078 | 482-082 | 482-092 | 482-101 | 482-108 |
| 40 | | | | | 482-W01-1C | 482-079 | 482-083 | 482-093 | 482-102 | 482-109 |
| 45 | | | | | | 482-080 | 482-084 | 482-094 | 482-103 | 482-110 |
| 50 | | | | | | 482-081 | 482-085 | 482-095 | 482-104 | 482-111 |
| | PKG QTY. 50 | | | | | | | PKG QTY. 25 | | PKG QTY. 10 |

**ASSORTMENT / ASSORTIMENT 805-468** **DIN 916** ~ ISO 4029 **DIN 911**

## METRIC Hex Socket Set Screws

Regular Coarse Thread *CUP POINT*

**304 STAINLESS STEEL**

**24 Sizes - 410 Pieces**

REGULAR SIZE welded steel drawer with hinged lid and scooped bins, finished in grey enamel. Fits the Slide Racks shown on page A2
Shipping Weight: **2.49 kg** (5.5 lbs.)

**ASSORTMENT / ASSORTIMENT 805-405** **DIN 916** ~ ISO 4029

## METRIC Hex Socket Set Screws

**Metric** Coarse Thread *CUP POINT*

**ALLOY STEEL - Not Plated**

**Total Contents - 464 Pieces - 27 Sizes**

REGULAR SIZE welded steel drawer with hinged lid and scooped bins, finished in grey enamel. Fits the Slide Racks shown on page A2.
Shipping Weight: **3.06 kg** (6-3/4 lbs.)

**For the complete assortment contents turn to A57**

**PLASTIKIT / «PLASTIKIT» 804-086**

## METRIC Hex Socket Set Screws with Keys

**20 Sizes - 155 Pieces**

**DIN 916**

**45H STEEL**
**Not Plated**

Size: 1" x 2-3/4" x 4-1/2"
Clear durable, plastic container




**For the complete assortment contents turn to A58**



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B

**DIN 914**

This Standard has been replaced. Please see Catalog Page R21 for more information.



CONE POINT

# 45H STEEL

**Heat-Treated Alloy**
Not Plated

**METRIC "REGULAR" (COARSE) THREAD**

| DIAMETER in mm | M2 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 |
|---|---|---|---|---|---|---|---|---|---|
| PITCH in mm | 0.40 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| KEY SIZE in mm | 0.89 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 6 |
| LENGTH in mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | |
| 3 | | 481-241 | | | | | | | |
| 4 | | 481-242 | 481-C10-1P | | | | | | |
| 5 | 481-101 | 481-103 | 481-C12-1C | 481-256 | | | | | |
| 6 | | 481-243 | 481-124 | 481-C13-1N | 481-264 | | | | |
| 8 | 481-102 | 481-244 | 481-249 | 481-257 | 481-112 | 481-273 | | | |
| 10 | | 481-104 | 481-250 | 481-258 | 481-130 | 481-115 | 481-C08-1P | | |
| 12 | | 481-245 | 481-107 | 481-110 | 481-265 | 481-274 | 481-282 | 481-294 | |
| 15 | | | | | | | | | |
| 16 | | 481-105 | 481-251 | 481-259 | 481-266 | 481-116 | 481-125 | 481-119 | 481-307 |
| 18 | | | | | | | | 481-295 | |
| 20 | | 481-246 | 481-108 | 481-260 | 481-267 | 481-131 | 481-283 | 481-296 | 481-308 |
| 22 | | | 481-252 | | | | | | |
| 25 | | 481-247 | 481-253 | 481-111 | 481-268 | 481-275 | 481-284 | 481-297 | 481-309 |
| 30 | | | 481-254 | 481-261 | 481-114 | 481-276 | 481-285 | 481-298 | 481-310 |
| 35 | | | 481-482 | 481-262 | 481-269 | 481-117 | 481-286 | 481-299 | 481-311 |
| 40 | | | 481-255 | 481-263 | 481-270 | 481-277 | 481-287 | 481-300 | 481-312 |
| 45 | | | | | 481-271 | 481-278 | 481-288 | 481-301 | |
| 50 | | | | | 481-272 | 481-279 | 481-289 | 481-302 | 481-313 |
| 55 | | | | | | | 481-290 | 481-303 | |
| 60 | | | | | | 481-280 | 481-291 | 481-304 | 481-314 |
| 70 | | | | | | | 481-292 | 481-305 | 481-315 |
| 80 | | | | | | | 481-293 | 481-306 | |
| | PKG QTY. 100 | | | PKG QTY. 50 | | | PKG QTY. 25 | | |

Table continues below

| DIAMETER in mm | M16 | M20 | M24 |
|---|---|---|---|
| PITCH in mm | 2.00 | 2.50 | 3.00 |
| KEY SIZE in mm | 8 | 10 | 12 |
| LENGTH in mm | Order by *SPAENAUR* No's. below. | | |
| 16 | 481-120 | | |
| 20 | 481-316 | 481-121 | |
| 25 | 481-317 | 481-327 | 481-122 |
| 30 | 481-318 | 481-328 | 481-479 |
| 35 | 481-319 | 481-329 | |
| 40 | 481-320 | 481-330 | |
| 45 | 481-321 | 481-331 | |
| 50 | 481-322 | 481-332 | |
| 55 | 481-323 | | |
| 60 | 481-324 | 481-333 | |
| 70 | 481-325 | 481-334 | |
| 80 | 481-326 | 481-335 | 481-481 |
| | PKG QTY. 10 | | |

* This Standard has been replaced. Please see Catalog Page R21 for more information.

## * DIN 914 45H STEEL - Set Screws - Plated

| Yellow Zinc | Dia. x Length | PKG QTY. | Zinc Plated | Dia. x Length | PKG QTY. |
|---|---|---|---|---|---|
| 481-249YZ | M4 x 8 mm | 100 | 481-107ZP | M4 x 12 mm | 100 |

## * DIN 914 A2 STAINLESS STEEL

| DIAMETER in mm | M4 | M5 | M6 | M8 | M12 |
|---|---|---|---|---|---|
| PITCH in mm | 0.70 | 0.80 | 1.00 | 1.25 | 1.75 |
| KEY SIZE in mm | 2 | 2.5 | 3 | 4 | 6 |
| LENGTH in mm | *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 6 | 482-031 | 482-028 | | | |
| 8 | 482-032 | 482-037 | 482-043 | 482-056 | |
| 10 | 482-033 | 482-038 | 482-044 | 482-057 | |
| 12 | 482-034 | 482-039 | 482-045 | 482-049 | 482-029 |
| 14 | | | 482-030 | | |
| 16 | 482-035 | 482-040 | 482-046 | 482-050 | |
| 20 | | 482-041 | 482-047 | 482-051 | |
| 25 | | | 482-048 | 482-052 | |
| 30 | | | | 482-053 | |
| | PKG QTY. 50 | | | | PKG QTY. 25 |



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**FLAT POINT**



# 45H STEEL

**Heat-Treated Alloy**
Not Plated

**METRIC "REGULAR" (COARSE) THREAD**

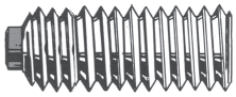
**DIN 913**
This Standard has been replaced. Please see Catalog Page R21 for more information.

| DIAM in mm | M2 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |
|---|---|---|---|---|---|---|---|---|---|---|
| PITCH in mm | 0.40 | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.00 |
| KEY SIZE in mm | 1.5 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 6 | 8 |
| LENGTH in mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW. | | | | | | | | | |
| 3 | 482-001 | 481-336 | | | Zinc Plated 481-349ZP M4 x 10 mm | | | Yellow Zinc Plated 481-C07-1A M3 x 3 mm 481-394YZ M10 x 16 mm | | |
| 4 | | 481-411 | 481-345 | | | | | | | |
| 5 | | 481-337 | 481-346 | 481-357 | | | | | | |
| 6 | | 481-338 | 481-347 | 481-358 | 481-368 | | | | | |
| 8 | | 481-339 | 481-348 | 481-C11-1Y | 481-369 | 481-380 | | | | |
| 10 | | 481-340 | 481-349 | 481-360 | 481-370 | 481-381 | 481-392 | | | |
| 12 | | 481-341 | 481-350 | 481-361 | 481-371 | 481-382 | 481-393 | 481-405 | | |
| 16 | | 481-342 | 481-351 | 481-362 | 481-372 | 481-383 | 481-394 | 481-406 | | 481-418 |
| 20 | | 481-343 | 481-352 | 481-363 | 481-C03-1K | 481-384 | 481-395 | 481-407 | | 481-419 |
| 25 | | 481-344 | 481-353 | 481-364 | 481-374 | 481-385 | 481-396 | 481-408 | | 481-420 |
| 30 | | | 481-354 | 481-365 | 481-375 | 481-386 | 481-397 | 481-409 | 481-492 | 481-421 |
| 35 | | | 481-355 | 481-366 | 481-376 | 481-387 | 481-398 | 481-410 | | 481-423 |
| 40 | | | 481-356 | 481-367 | 481-377 | 481-388 | 481-399 | 481-412 | | 481-424 |
| 45 | | | | | 481-378 | 481-389 | 481-400 | 481-413 | | 481-425 |
| 50 | | | | | 481-379 | 481-390 | 481-401 | 481-414 | 481-493 | 481-426 |
| 60 | | A2 Stainless Steel 482-112 M8 x 30 mm | | | | 481-391 | 481-402 | 481-415 | | 481-427 |
| 70 | | | | | | | 481-403 | 481-416 | | 481-428 |
| 80 | | | | | | | 481-404 | 481-417 | | 481-429 |
| | PKG QTY. 100 | | | PKG QTY. 50 | | | PKG QTY. 25 | | | PKG QTY. 10 |

# Hex Socket Set Screws — Alloy Steel — Not Plated

Hardness of Socket Set Screws - Rc-28-34

## BRASS AND NYLON TIPPED



**METRIC "REGULAR" (COARSE) THREAD**

| Thread Dia. | M4 | | M6 | | M8 | | M10 | |
|---|---|---|---|---|---|---|---|---|
| Tip Material | BRASS | NYLON | BRASS | NYLON | BRASS | NYLON | BRASS | NYLON |
| Length in mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW. | | | | | | | |
| 4 mm | 488-400 | 488-416 | | | | | | |
| 6 mm | 488-401 | 488-417 | 488-404 | 488-420 | | | | |
| 8 mm | 488-402 | 488-418 | 488-405 | 488-421 | 488-408 | 488-424 | | |
| 10 mm | 488-403 | 488-419 | 488-406 | 488-422 | 488-409 | 488-425 | 488-412 | 488-428 |
| 12 mm | | | 488-407 | 488-423 | 488-410 | 488-426 | 488-413 | 488-429 |
| 16 mm | | | | | 488-411 | 488-427 | 488-414 | 488-430 |
| 25 mm | | | | | | | 488-415 | 488-431 |
| | PKG QTY. 50 | | | | PKG QTY. 25 | | | |

**SPAENAUR No.**
**482-114**
M5 x 0.80 x 6 mm

## Metric Hex Socket Set Screw — Regular Coarse Thread



A2 Stainless Steel (Non-Passivated) with NYLON TIP

**PKG QTY. 50**



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B

**Heat-Treated** Not Plated

# ALLOY STEEL

**Metric Grade 45H**



**DIN 915**

This Standard has been replaced. Please see Catalog Page R21 for more information.

# HEX SOCKET SET SCREWS
## *with DOG POINT*

# Metric
## Sizes

**ISO Standard Threads**

**Metric "Regular" (Coarse) Thread**

| DIAMETER in mm | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|---|---|---|
| PITCH in mm | 0.50 | 0.70 | 0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 |
| KEY SIZE in mm | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
| LENGTH in mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | | | |
| 4 | 481-136 | 481-184 | | | | | | | | |
| 5 | 481-137 | 481-142 | | | | | | | | |
| 6 | 481-138 | 481-143 | 481-148 | 481-154 | | | | | | |
| 8 | 481-139 | 481-144 | 481-149 | 481-155 | 481-161 | | | | | |
| 10 | 481-140 | 481-145 | 481-150 | 481-156 | 481-162 | 481-168 | | | | |
| 12 | 481-141 | 481-146 | 481-151 | 481-157 | 481-163 | 481-169 | 481-174 | | | |
| 16 | 481-181 | 481-147 | 481-152 | 481-158 | 481-164 | 481-170 | 481-175 | 481-179 | | |
| 20 | 481-182 | 481-185 | 481-153 | 481-159 | 481-165 | 481-205 | 481-176 | 481-220 | 481-229 | |
| 25 | 481-183 | 481-186 | 481-190 | 481-160 | 481-166 | 481-171 | 481-177 | 481-180 | 481-230 | 481-240 |
| 30 | | 481-187 | 481-191 | 481-195 | ▲481-167 | 481-206 | 481-178 | 481-221 | 481-231 | 481-476 |
| 35 | | 481-188 | 481-192 | 481-196 | 481-200 | 481-172 | 481-213 | 481-222 | | |
| 40 | | 481-189 | 481-193 | 481-C02-1T | 481-201 | 481-207 | 481-214 | 481-223 | 481-233 | 481-477 |
| 45 | | | | 481-198 | 481-202 | 481-208 | 481-215 | 481-224 | 481-234 | |
| 50 | | | | 481-199 | 481-203 | 481-173 | 481-216 | 481-225 | 481-235 | 481-478 |
| 60 | | | | | 481-204 | 481-209 | 481-217 | 481-226 | 481-236 | |
| 70 | | | | | | 481-210 | 481-218 | 481-227 | 481-237 | |
| 80 | | | | | | 481-211 | 481-219 | 481-228 | 481-238 | |
| 100 | | | | | | 481-212 | 481-454 | 481-498 | 481-239 | |
| | PKG QTY. 100 | | | | PKG QTY. 50 | | | | PKG QTY. 10 | |

▲**481-800** A2 Stainless Steel

**ASSORTMENT** **805-490** **DIN 915**

## METRIC "REGULAR" (COARSE) THREAD HEX SOCKET SET SCREWS

Grade 45H
ALLOY STEEL Not Plated

**24 Sizes - 500 Pieces**

With DOG POINT



REGULAR SIZE grey enamelled STEEL. Drawer has "Scooped" bins. Drawer fits Slide Racks shown on page A2

Shipping weight: **2.49 kg** (5.5 lbs.)





**For the complete assortment contents turn to A58**





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# STEEL
Not Plated

# METRIC



Property Class **8.8**

**DIN 479**

# SQUARE HEAD SET SCREWS
## *with Short Dog Point*

**Regular (COARSE) Metric Thread**

B

| DIAMETER in mm | M6 | M8 | M10 | M12 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|
| PITCH in mm | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 |
| LENGTH in mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 10 | 487-009 | | | | | | |
| 12 | 487-010 | | | | | | |
| 16 | 487-B01-1C | 487-020 | 487-051 | | | | |
| 20 | 487-012 | 487-021 | 487-032 | 487-060 | | | |
| 25 | 487-013 | 487-022 | 487-033 | 487-041 | | | |
| 30 | 487-014 | 487-023 | 487-034 | 487-061 | | | |
| 35 | | 487-024 | 487-035 | 487-042 | | | |
| 40 | 487-016 | 487-025 | 487-036 | 487-062 | 487-046 | 487-077 | |
| 40 | | | 481-480 | | | | |
| 45 | 487-093 | 487-026 | 487-056 | 487-043 | 487-068 | | |
| 50 | 487-017 | 487-027 | 487-037 | 487-063 | 487-047 | 487-078 | 487-086 |
| 60 | 487-018 | 487-029 | 487-038 | 487-044 | 487-048 | 487-080 | |
| 70 | | 487-053 | 487-039 | 487-045 | 487-071 | 487-B03-1T | 487-088 |
| 80 | | 487-030 | 487-058 | 487-064 | 487-072 | 487-082 | 487-089 |
| 90 | | 487-054 | 487-040 | 487-065 | 487-073 | 487-B02-1N | |
| 100 | | 487-031 | 487-059 | 487-066 | 487-074 | 487-084 | 487-091 |
| 120 | | | | 487-067 | 487-076 | 487-085 | |
| 140 | | | | | | | 487-092 |
| | PKG QTY. 100 | PKG QTY. 50 | | PKG QTY. 25 | | PKG QTY. 10 | |

**ASSORTMENT / ASSORTIMENT 805-495** **DIN 479**

## METRIC "REGULAR" (COARSE) THREAD SQUARE HEAD SET SCREWS

STEEL Property Class 8.8
Not Plated

**24 Sizes - 500 Pieces**

With DOG SHORT POINT 

REGULAR SIZE grey enamelled STEEL. Drawer has "Scooped" bins. Drawer fits Slide Racks shown on page A2
Shipping weight: **5.60 kg** (12.25 lbs.)





**For the complete assortment contents turn to A58**



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B

## BRITISH THREADS PER INCH

| BOLT DIA (BSW, BSF) | 3/16" | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" | 9/16" | 5/8" | 3/4" | 7/8" | 1" |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BSW Thread/Inch | 24 | 20 | 18 | 16 | 14 | 12 | 12 | 11 | 10 | 9 | 8 |
| BSF Thread/Inch | 32 | 26 | 22 | 20 | 18 | 16 | 16 | 14 | 12 | 11 | 10 |

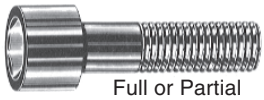
## HIGH TENSILE STEEL - HEAT TREATED - PLAIN FINISH



Full or Partial Thread, our option.

**Threads**

**BA** - British Association (Standard)
**BSW** - British Standard Whitworth (Coarse)
**BSF** - British Standard Fine



Full or Partial Thread, our option.

## BRITISH HEXAGON HEAD CAP SCREWS

**ORDER BY *SPAENAUR NUMBERS* LISTED BELOW**

| SIZE | | *SPAENAUR No.* | |
|---|---|---|---|
| DIA. | LENGTH | BSW | BSF |
| 1/4" | 1/2" | 371-100 | 371-134 |
| | 5/8" | 371-102 | — |
| | 3/4" | 371-103 | 371-135 |
| | 1" | 371-104 | 371-136 |
| | 1-1/4" | 371-105 | 371-137 |
| | 1-1/2" | 371-106 | 371-138 |
| | 2" | 371-107 | 371-139 |
| | 2-1/2" | 371-173 | — |
| | 3" | 371-101 | — |
| 5/16" | 1/2" | 371-108 | 371-140 |
| | 3/4" | 371-189 | 371-141 |
| | 1" | 371-109 | 371-142 |
| | 1-1/4" | — | 371-143 |
| | 1-1/2" | 371-110 | 371-144 |
| | 1-3/4" | — | 371-145 |
| | 2" | — | 371-146 |
| | 2-1/2" | 371-171 | — |
| | 3" | 371-174 | 371-147 |
| 3/8" | 1" | 371-113 | 371-149 |
| | 1-1/4" | 371-114 | 371-150 |
| | 1-1/2" | 371-115 | 371-151 |
| | 1-3/4" | — | 371-152 |
| | 2" | 371-116 | 371-153 |
| | 2-1/2" | 371-117 | — |
| | 3" | 371-118 | 371-154 |
| 7/16" | 1" | 371-119 | 371-155 |
| | 1-1/2" | 371-120 | 371-157 |
| | 2" | 371-121 | 371-158 |
| 1/2" | 3/4" | 371-122 | 371-159 |
| | 1" | 371-169 | 371-160 |
| | 1-1/4" | 371-175 | 371-161 |
| | 1-1/2" | 371-112 | 371-162 |
| | 1-3/4" | 371-123 | — |
| | 2" | 371-124 | 371-170 |
| | 2-1/2" | 371-125 | — |
| | 3" | 371-126 | 371-164 |
| 9/16" | 1" | 371-127 | 371-165 |
| | 1-1/2" | 371-133 | — |
| | 2" | 371-191 | — |
| | 3" | 371-128 | — |
| 5/8" | 1-1/4" | 371-129 | — |
| | 1-1/2" | 371-172 | 371-177 |
| | 2" | 371-130 | 371-176 |
| | 2-1/2" | 371-131 | — |
| | 3" | 371-132 | 371-168 |

**Contact Sales Desk for Package Quantities**

## BRITISH HEX SOCKET CAP SCREWS

**ORDER BY *SPAENAUR NUMBERS* LISTED BELOW**

| SIZE | | *SPAENAUR No.* | | |
|---|---|---|---|---|
| DIA. | LENGTH | BA | BSW | BSF |
| #2 | 1/4" | 371-018 | — | — |
| | 3/8" | 371-019 | — | — |
| | 1/2" | 371-020 | — | — |
| 1/4" | 1/2" | — | — | 371-022 |
| | 5/8" | — | — | — |
| | 3/4" | — | 371-004 | 371-023 |
| | 1" | — | 371-005 | 371-024 |
| | 1-1/4" | — | 371-180 | — |
| | 1-1/2" | — | 371-006 | 371-025 |
| | 1-3/4" | — | 371-179 | — |
| | 2" | — | 371-007 | 371-403 |
| 5/16" | 3/4" | — | 371-001 | — |
| | 1" | — | 371-008 | 371-026 |
| | 1-1/2" | — | •371-009 | 371-027 |
| | 2" | — | 371-010 | 371-028 |
| | 2-1/2" | — | — | 371-029 |
| 3/8" | 1" | — | 371-011 | 371-030 |
| | 1-1/4" | — | 371-181 | — |
| | 1-1/2" | — | 371-012 | 371-031 |
| | 1-3/4" | — | 371-183 | — |
| | 2" | — | 371-002 | 371-032 |
| | 2-1/2" | — | 371-190 | 371-033 |
| | 3" | — | 371-003 | — |
| 1/2" | 1" | — | 371-184 | 371-034 |
| | 1-1/2" | — | ▲371-182 | 371-035 |
| | 1-3/4" | — | 371-013 | — |
| | 2" | — | 371-014 | 371-036 |
| | 2-1/2" | — | 371-015 | 371-037 |
| | 3" | — | 371-016 | 371-038 |
| 5/8" | 3" | — | 371-017 | — |

**Contact Sales Desk for Package Quantities**

▲**371-039** Flat Head Hex Socket Cap Screw, Prop. Cl. 12.9, Plain Finish
•**371-041** Flat Head Hex Socket Cap Screw, Prop. Cl. 12.9, Plain Finish

### BRITISH HEX KEY SIZES

| SCREW DIA (BSW, BSF) | 3/16" | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|---|---|
| HEX KEY SIZE | 5/32" | 3/16" | 7/32" | 5/16" | 5/16" | 3/8" | 1/2" | 9/16" |

### BRITISH ASSOCIATION WASHERS



STEEL
ZINC PLATED

| *SPAENAUR No.* | DESCRIPTION | FOR SCREW SIZE |
|---|---|---|
| 371-304 | Flat Washer | 8 BA |
| 371-303 | Flat Washer | 6 BA |
| 371-302 | Flat Washer | 5 BA |
| 371-306 | Internal Tooth Lockwasher | 4 BA |
| 371-305 | Internal Tooth Lockwasher | 2 BA |
| 371-300 | Split Lockwasher | 2 BA |



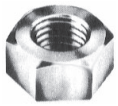

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B

## Threads

**BA** - British Association (Standard)
**BSW** - British Standard Whitworth (Coarse)
**BSF** - British Standard Fine

## BRITISH HEX NUTS AND JAM NUTS



| ORDER BY *SPAENAUR NUMBERS* LISTED BELOW | | |
|---|---|---|
| FOR SCREW SIZE | HEX NUTS PLAIN | HEX NUTS ZINC PLTD. |
| 1/8" BSW | 371-040 | — |
| 3/16" BSW | 371-402 | — |
| 3/16" BSF | 371-201 | — |
| 1/4" BSW | 371-214 | — |
| 1/4" BSF | 371-202 | 371-202ZP |
| 5/16" BSW | 371-215 | — |
| 5/16" BSF | 371-203 | — |
| 3/8" BSW | 371-216 | — |
| 3/8" BSF | 371-204 | — |
| 7/16" BSW | 371-217 | — |
| 7/16" BSF | 371-206 | — |
| 1/2" BSW | 371-A01-1T | — |
| 1/2" BSF | 371-208 | — |
| 9/16" BSW | 371-218 | — |
| 9/16" BSF | 371-207 | — |
| 5/8" BSW | — | 371-219ZP |
| 5/8" BSF | 371-205 | — |

## BRITISH SOCKET DRIVERS

### 1/4" DRIVE 6 POINT SOCKETS

Chrome Plated
Vanadium Steel

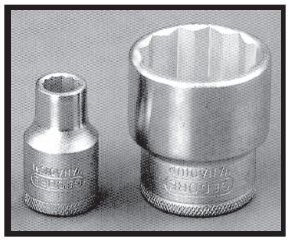
| *SPAENAUR No.* | WHITWORTH SIZE |
|---|---|
| 876-1093 | 7 BA |
| 876-1092 | 6 BA |
| 876-1091 | 5 BA |
| 876-1090 | 4 BA |
| 876-1089 | 3 BA |
| 876-1087 | 1 BA |
| 876-1086 | 0 BA |



### 1/2" DRIVE 12 POINT BRITISH SOCKETS

Chrome Plated
Vanadium Steel

| *SPAENAUR No.* | WHITWORTH SIZE |
|---|---|
| 876-1095 | 3/16" |
| 876-1096 | 1/4" |
| 876-1097 | 5/16" |
| 876-1098 | 3/8" |
| 876-1099 | 7/16" |
| 876-1100 | 1/2" |
| 876-1101 | 9/16" |
| 876-1102 | 5/8" |
| 876-1103 | 11/16" |
| 876-1104 | 3/4" |

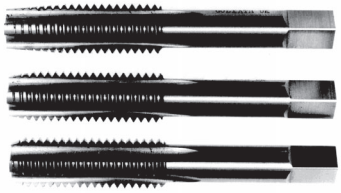


## BRITISH TAPS AND DIES

HIGH SPEED STEEL (HSS)

**STRAIGHT FLUTE TAP**

No. 1 STARTING TAP
No. 2 MIDDLE TAP
No. 3 FINISHING TAP



**TAPS - HAND OR MACHINE**

**CLASS 2**

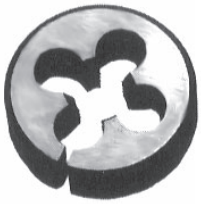
Note: Taps No. 1, No. 2 & No. 3 are commonly referred to as TAPER, PLUG AND BOTTOMING TAPS

**SPIRAL FLUTE TAP**



See pages P50 to P73 for more Taps & Dies.

**SPLIT ROUND DIES**



**ORDER BY *SPAENAUR NUMBERS* LISTED BELOW**

| NOMINAL DIAMETER | THREADS BSW | THREADS BSF | #1 STARTING TAP | #2 MIDDLE TAP | #3 FINISHING TAP | SPIRAL TAP | SQUARE A/F | LENGTH OF THREAD | OVERALL LENGTH | DIES | DIE O.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/8" | 40 | — | 874-297 | — | 874-298 | 874-1590 | 2.50 mm | 11 mm | 48 mm | 878-006 | 13/16" |
| 5/32" | 32 | — | — | — | — | 874-1591 | 3.15 mm | 13 mm | 53 mm | — | — |
| 3/16" | 24 | — | 874-095 | 874-096 | 874-097 | 874-1592 | 4.00 mm | 16 mm | 58 mm | 878-007 | 13/16" |
| 1/4" | — | 26 | 874-383 | — | 874-284 | — | 5.00 mm | 19 mm | 66 mm | 878-K11-1P | 1" |
| 1/4" | 20 | — | 874-390 | 874-399 | 874-391 | 874-1593 | 5.00 mm | 19 mm | 66 mm | 878-008 | 1" |
| 5/16" | — | 22 | 874-385 | — | 874-286 | — | 6.30 mm | 22 mm | 72 mm | 878-K18-1M | 1" |
| 5/16" | 18 | — | 874-392 | 874-389 | 874-393 | 874-1594 | 6.30 mm | 22 mm | 72 mm | 878-009 | 1" |
| 3/8" | — | 20 | 874-384 | — | 874-288 | — | 8.00 mm | 24 mm | 80 mm | 878-003 | 1" |
| 3/8" | 16 | — | 874-394 | 874-388 | 874-395 | 874-1595 | 8.00 mm | 24 mm | 80 mm | 878-010 | 1" |
| 7/16" | — | 18 | 874-289 | — | 874-290 | — | 6.30 mm | 25 mm | 85 mm | 878-004 | 1-5/16" |
| 7/16" | 14 | — | 874-396 | 874-379 | 874-397 | — | 6.30 mm | 25 mm | 85 mm | 878-011 | 1-5/16" |
| 1/2" | — | 16 | 874-381 | — | 874-382 | — | 7.50 mm | 29 mm | 89 mm | 878-K13-1C | 1-5/16" |
| 1/2" | 12 | — | 874-398 | 874-299 | 874-006 | 874-1596 | 7.50 mm | 29 mm | 89 mm | 878-K04-1K | 1-5/16" |
| 5/8" | 11 | — | 874-453 | 874-461 | 874-454 | 874-1597 | 10.00 mm | 32 mm | 102 mm | 878-013 | 2" |
| 3/4" | 10 | — | 874-455 | 874-462 | 874-456 | 874-1598 | 11.20 mm | 37 mm | 112 mm | 878-014 | 2" |
| 7/8" | 9 | — | 874-457 | 874-463 | 874-458 | — | 12.50 mm | 38 mm | 118 mm | 878-015 | 2" |
| 1" | 8 | — | 874-459 | 874-464 | 874-460 | 874-1599 | 14.00 mm | 45 mm | 130 mm | 878-016 | 2" |



For Thread Gauges See page P80
Contact Sales Desk For Package Quantities

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B

## DOUBLE BOX BRITISH WRENCH



with deep offset

| *SPAENAUR No.* | WHITWORTH SIZE | LENGTH (mm) |
|---|---|---|
| **876-1071** | 1/8" x 3/16" | 195 |
| **876-1072** | 3/16" x 1/4" | 210 |
| **876-1073** | 1/4" x 5/16" | 225 |
| **876-1074** | 3/8" x 7/16" | 285 |
| **876-1075** | 7/16" x 1/2" | 305 |
| **876-1076** | 1/2" x 9/16" | 325 |
| **876-1078** | 9/16" x 5/8" | 345 |
| **876-1079** | 5/8" x 3/4" | 370 |
| **876-1080** | 11/16" x 13/16" | 400 |
| **876-1082** | 1-1/8" x 1-1/4" | 535 |

**PKG QTY. 1**

## DOUBLE OPEN-END WRENCH



| *SPAENAUR No.* | WHITWORTH SIZE | LENGTH (mm) |
|---|---|---|
| **876-1036** | 1/8" x 3/16" | 157 |
| **876-1037** | 3/16" x 1/4" | 172 |
| **876-1038** | 1/4" x 5/16" | 190 |
| **876-1039** | 5/16" x 3/8" | 205 |
| **876-1040** | 3/8" x 7/16" | 236 |
| **876-1041** | 7/16" x 1/2" | 250 |
| **876-1042** | 1/2" x 9/16" | 266 |
| **876-1043** | 9/16" x 5/8" | 280 |
| **876-1044** | 5/8" x 3/4" | 302 |
| **876-1045** | 3/4" x 7/8" | 328 |
| **876-1047** | 7/8" x 1" | 360 |

**PKG QTY. 1**

## COMBINATION BOX AND OPEN-END BRITISH WRENCH

**PKG QTY. 1**



| *SPAENAUR No.* | WHITWORTH SIZE | LENGTH (mm) |
|---|---|---|
| **876-1049** | 1/8" | 138 |
| **876-1050** | 3/16" | 158 |
| **876-1051** | 1/4" | 185 |
| **876-1052** | 5/16" | 210 |
| **876-1053** | 3/8" | 245 |
| **876-1054** | 7/16" | 280 |

| *SPAENAUR No.* | WHITWORTH SIZE | LENGTH (mm) |
|---|---|---|
| **876-1055** | 1/2" | 305 |
| **876-1056** | 9/16" | 340 |
| **876-1057** | 5/8" | 370 |
| **876-1058** | 11/16" | 390 |
| **876-1059** | 3/4" | 412 |

## 18-8 STAINLESS STEEL

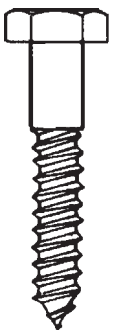
(Passivated)

## LAG SCREWS

**HEXAGON HEAD**

Head/Body & Thread Dimensions to ANSI/ASME B18.2.1

| DIA. | 1/4" | 5/16" | 3/8" | 1/2" |
|---|---|---|---|---|
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | |
| 1" | **038-800** | | | |
| 1-1/4" | **038-H21-1K** | | | |
| 1-1/2" | **038-H26-1P** | **038-807** | **038-812** | |
| 2" | **038-H33-1K** | **038-808** | **038-813** | **038-820** |
| 2-1/2" | **038-804** | **038-809** | **038-814** | **038-821** |
| 3" | **038-H28-1C** | **038-H34-1W** | **038-H32-1T** | **038-822** |
| 3-1/2" | | | **038-816** | **038-823** |
| 4" | **038-806** | **038-H40-1P** | **038-817** | **038-H27-1Y** |
| 5" | | | **038-818** | |
| 6" | | | **038-819** | |



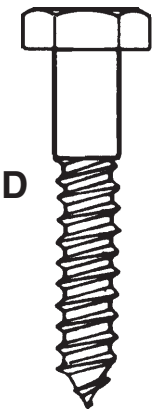
**Contact Sales Desk For Package Quantities**





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# STEEL
## LAG SCREWS
**HEXAGON HEAD**



**NOT PLATED**

Hexagon head replaces square head. We reserve the option to substitute square head, until stock is depleted.

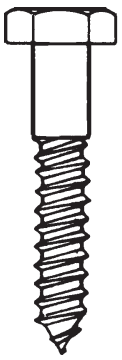
| DIA. | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 1" | 038-H30-1C | | | | | |
| 1-1/4" | 038-H07-1K | | | | | |
| 1-1/2" | 038-H19-1K | LB-12 | LB-22 | | | |
| 1-3/4" | LB-4 | LB-13 | | | | |
| 2" | LB-5 | LB-14 | 038-H25-1A | 038-H05-1N | | |
| 2-1/2" | LB-6 | 038-H22-1W | 038-H14-1P | 038-H10-1W | | |
| 3" | LB-7 | 038-H29-1N | 038-H15-1Y | LB-34 | LB-44 | |
| 3-1/2" | LB-8 | LB-17 | 038-H18-1T | LB-35 | LB-45 | |
| 4" | LB-9 | 038-H31-1N | 038-H20-1T | LB-36 | LB-46 | 038-H11-1M |
| 4-1/2" | | LB-19 | 038-H23-1M | LB-37 | | |
| 5" | | 038-H36-1X | 038-H39-1Y | 038-H17-1N | 038-H09-1M | LB-53 |
| 6" | | LB-21 | LB-30 | 038-H08-1W | 038-H12-1X | LB-54 |
| 7" | | | LB-31 | 038-H38-1P | LB-49 | LB-55 |
| 8" | | | LB-58 | LB-41 | LB-50 | 038-H16-1C |
| 10" | | | | LB-42 | LB-51 | LB-57 |
| 12" | | | | 038-H13-1A | | |

# STEEL
## LAG SCREWS
**HEXAGON HEAD**

**ZINC PLATED**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1-1/2" | 038-148 | | | | | |
| 2" | | | 038-147 | 038-151 | | |
| 2-1/2" | | | 038-002 | | | |
| 3" | 038-149 | | | 038-150 | | |
| 3-1/3" | | | 038-154 | | | |
| 4" | 038-145 | 038-161 | | | 038-H04-1C | |
| 4-1/2" | | | 038-156 | | | |
| 5" | 038-146 | | 038-159 | | | |
| 5-1/2" | | | 038-158 | | | |
| 6" | | | 038-160 | 038-152 | | |

# STEEL
## LAG SCREWS
**HEXAGON HEAD**



**HOT GALVANIZED Finish**

For maximum protection

| | | | | | | |
|---|---|---|---|---|---|---|
| 1" | 038-100 | | | | | |
| 1-1/4" | 038-101 | | | | | |
| 1-1/2" | 038-102 | 038-108 | 038-116 | | | |
| 2" | 038-103 | 038-109 | 038-117 | 038-125 | | |
| 2-1/2" | 038-104 | 038-110 | 038-118 | 038-126 | | |
| 3" | 038-105 | 038-111 | 038-119 | 038-127 | 038-134 | |
| 3-1/2" | 038-106 | 038-H41-1A | 038-120 | 038-128 | | |
| 4" | 038-107 | 038-113 | 038-H06-1T | 038-129 | 038-H03-1Y | 038-139 |
| 4-1/2" | | 038-143 | 038-144 | | | |
| 5" | | 038-114 | 038-122 | 038-130 | 038-136 | 038-140 |
| 6" | | 038-H37-1A | 038-123 | 038-H35-1M | 038-137 | 038-141 |
| 8" | | | 038-124 | 038-H24-1X | 038-138 | 038-142 |
| 10" | | | | 038-133 | | |

**Contact Sales Desk For Package Quantities**

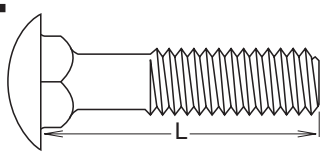


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B

# STEEL

**LOW CARBON**
NOT PLATED




## ROUND HEAD SQUARE NECK CARRIAGE BOLTS

**ASTM A307**
**ASME B18.5**

**MINIMUM THREAD LENGTH**
**Up to 6" long: Twice dia. plus 1/4"**
**Over 6" long: Twice dia. plus 1/2"**

**THREAD CLASS 2A FIT**
**LENGTH IS MEASURED UNDER HEAD TO END**

| DIA. | 10 | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|---|---|
| THD. | 24 | 20 | 18 | 16 | 14 | 13 | 11 | 10 |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 1/2 | | CB-53 | | | | | | |
| 3/4 | CB-1 | CB-4 | 014-K55-1P | | | | | |
| 1 | 014-K06-1Y | 014-K57-1C | 014-K52-1M | CB-20 | CB-56 | | | |
| 1-1/4 | 014-K46-1N | | 014-079 | | | | | |
| 1-1/2 | CB-3 | *CB-6 | CB-13 | CB-21 | 014-K20-1Y | 014-K54-1A | | |
| 2 | | *014-010 | *014-025 | 014-K58-1N | 014-K18-1Y | CB-31 | 014-K60-1N | |
| 2-1/2 | 014-080 | CB-8 | | | CB-43 | | 014-068 | |
| 2-1/2 | | *014-012 | *014-026 | *014-K51-1W | | | | |
| 3 | | *014-013 | 014-K40-1M | CB-24 | CB-44 | CB-33 | | |
| 3-1/2 | | | *014-027 | *014-032 | | *014-K49-1W | | 014-078 |
| 4 | | *014-014 | CB-17 | CB-25 | *014-K44-1Y | | | |
| 4-1/2 | | | | *014-004 | | 014-065 | | |
| 5 | | *014-015 | *014-028 | *014-039 | CB-46 | 014-K31-1P | | |
| 6 | | *014-016 | *014-030 | CB-27 | CB-47 | *014-K59-1T | | |
| 6-1/2 | | 014-066 | | | | 014-K50-1K | | |
| 7 | | | | CB-28 | | | | |
| 8 | | | | CB-29 | | CB-38 | 014-K19-1C | |
| 9 | | | | | | 014-K41-1X | | |
| 10 | | | | | | CB-39 | | |
| 11 | | | | 014-083 | | 014-K47-1T | | |
| 12 | | | | | | 014-K48-1K | | |

* Fully Threaded

## STEEL - Zinc Plated Fully Threaded

| DIA. | 8 | 10 | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" | 5/8" |
|---|---|---|---|---|---|---|---|---|
| THD. | 32 | 24 | 20 | 18 | 16 | 14 | 13 | 11 |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 3/8 | 014-K01-1W | | | | | | | |
| 1/2 | | | 014-K13-1W | | | | | |
| 5/8 | 014-K02-1M | | | | | | | |
| 3/4 | | 014-K05-1P | 014-181 | | 014-179 | | | |
| 7/8 | | B-1050 | | | | | | |
| 1 | | | 014-154 | 014-165 | 014-159 | | | |
| 1-1/4 | | | | | 014-178 | CB-40ZP | 014-002 | |
| 1-1/2 | | 014-K07-1C | | 014-164 | 014-163 | | | 014-037 |
| 1-3/4 | | | 014-019 | | 014-162 | | | |
| 2 | | | 014-020 | | | | | |
| 2-1/4 | | | 014-183 | 014-K08-1C | | | | |
| 2-1/2 | | | 014-166 | | | | | |
| 3 | | | 014-158 | | | | | |
| 3-1/2 | | | 014-023 | 014-151 | | | | |
| 4 | | | 014-024 | | | | | |
| 5-1/2 | | | | CB-52ZP | | | | |
| 6 | | | | 014-031 | | | | |
| 7 | | | | | | | | 014-085 |

**Contact Sales Desk For Package Quantities**





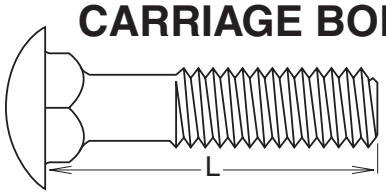
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# STEEL
## GRADE 5

NOT PLATED

**BOLT LENGTH IS MEASURED UNDER HEAD TO END.**

## ROUND HEAD SQUARE NECK CARRIAGE BOLTS




**ASTM A307**

**ASME B18.5**

**THREAD CLASS 2A FIT**

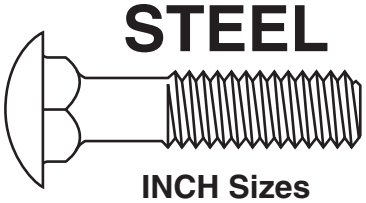
**Minimum Thread Length**
Up to 6" long: Twice dia. plus 1/4"
Over 6" long: Twice dia. plus 1/2"

B

| DIAMETER | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" | 5/8" | 3/4" |
|---|---|---|---|---|---|---|---|
| THREAD | 20 | 18 | 16 | 14 | 13 | 11 | 10 |
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 5/8" | | 014-209 | | | | | |
| 3/4" | 014-K14-1M | 014-210 | 014-221 | | | | |
| 7/8" | | 014-211 | | | | | |
| 1" | 014-201 | 014-212 | 014-223 | | 014-244 | | |
| 1-1/4" | *014-202 | 014-K45-1C | 014-K12-1P | 014-236 | 014-245 | | |
| 1-1/2" | 014-203 | 014-214 | 014-225 | 014-237 | 014-246 | 014-278 | |
| 1-3/4" | 014-K56-1Y | 014-215 | 014-226 | 014-238 | 014-247 | 014-253 | |
| 2" | 014-205 | 014-216 | 014-227 | 014-239 | 014-K30-1A | 014-254 | |
| 2-1/4" | | 014-217 | 014-228 | 014-240 | 014-249 | 014-255 | |
| 2-1/2" | 014-207 | 014-218 | 014-229 | 014-241 | 014-250 | 014-256 | 014-269 |
| 2-3/4" | | 014-219 | 014-K15-1X | 014-242 | 014-251 | 014-257 | |
| 3" | | 014-220 | 014-231 | 014-243 | 014-252 | 014-258 | 014-270 |
| 3-1/4" | | | 014-232 | | | 014-259 | |
| 3-1/2" | | | 014-233 | | | 014-260 | |
| 4" | | | 014-234 | | | 014-261 | 014-271 |
| 4-1/2" | | | | | | 014-262 | 014-272 |
| 5" | | | | | | 014-263 | 014-273 |
| 5-1/2" | | | | | | 014-264 | |
| 6" | | | | | | 014-265 | 014-274 |
| 7" | | | | | | 014-266 | |
| 8" | | | | | | 014-267 | 014-276 |
| 9" | | | | | | 014-268 | |

***014-202ZP Zinc Plated**

## Hot Galvanized STEEL



## INCH Sizes CARRIAGE BOLTS

**MINIMUM THREAD LENGTH**
**Up to 6" long: Twice dia. plus 1/4"**
**Over 6" long: Twice dia. plus 1/2"**

**ASME B18.5**

For Galvanized Nuts, see page C6.

(Tapped oversize nuts must be used with galvanized Carriage Bolts.)

| DIA. | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" |
|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 13 | 11 |
| LENGTH | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 1 | 014-100 | 014-110 | | | |
| 1-1/4 | 014-101 | 014-111 | | | |
| 1-1/2 | 014-102 | ◆014-007 | 014-K04-1A | | |
| 2 | 014-103 | | | ◆014-175 | |
| 2-1/2 | | 014-114 | ◆014-005 | ◆014-184 | |
| 3 | 014-105 | ◆014-006 | 014-123 | | 014-K16-1A |
| 3-1/2 | | | ◆014-186 | 014-K09-1T | |
| 4 | 014-107 | 014-117 | 014-125 | ◆014-022 | |
| 5 | 014-108 | ◆014-009 | 014-K42-1A | 014-137 | |
| 6 | ◆014-185 | 014-119 | 014-127 | 014-138 | |
| 6-1/2 | | | 014-128 | | |
| 7 | | | 014-129 | 014-139 | |
| 8 | | | 014-130 | 014-140 | 014-146 |
| 10 | | | 014-131 | 014-141 | 014-147 |

**Contact Sales Desk For Package Quantities** ◆ **Fully Threaded**



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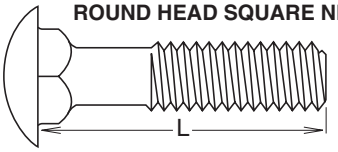
B

# STAINLESS STEEL 18-8

Head & Body Dimensions to ANSI/ASME B18.5
Rockwell Hardness Min. B70

## Carriage Bolt

**ROUND HEAD SQUARE NECK**




**THREAD CLASS**
**2A FIT**

**MINIMUM THREAD LENGTH:**
Up to 6" long: Twice dia. plus 1/4"
Over 6" long: Twice dia. plus 1/2"
Length shown is under head to end in inches.

| DIA. | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" |
|---|---|---|---|---|---|
| THD. | 20 | 18 | 16 | 13 | 11 |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 1/2 | 014-800 | | | | |
| 3/4 | 014-801 | 014-K29-1P | 014-821 | | |
| 1 | 014-K21-1C | 014-K28-1A | 014-K33-1C | 014-833 | |
| 1-1/4 | 014-K27-1X | 014-813 | 014-K34-1N | | |
| 1-1/2 | 014-804 | 014-814 | 014-824 | 014-K10-1P | |
| 1-3/4 | 014-805 | 014-815 | 014-825 | | |
| 2 | 014-K26-1M | 014-816 | 014-826 | 014-835 | |
| 2-1/4 | | 014-817 | | | |
| 2-1/2 | 014-K38-1M | 014-K39-1X | 014-827 | 014-836 | |
| 3 | 014-K36-1K | 014-K53-1X | 014-828 | 014-K11-2T | |
| 3-1/2 | 014-K37-1W | 014-K32-1Y | 014-829 | 014-K25-1W | |
| 4 | 014-K24-1K | | 014-K22-1N | 014-839 | 014-K03-1X |
| 4-1/2 | | | | | 014-K43-1P |
| 5 | | | 014-K23-1T | 014-840 | |
| 6 | | | 014-832 | 014-K35-1T | |

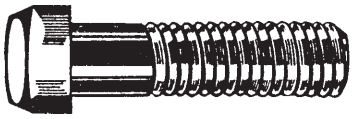
**Contact Sales Desk For Package Quantities**

For Nuts See Pages C2 to C15

# STEEL Square Head Bolt

**LOW CARBON / HEAT TREATED / STRESS RELIEVED**

**MINIMUM TENSILE STRENGTH (PSI)**
All sizes 55,000 PSI.
Length shown is under head to end in inches.



NOT PLATED

**ASTM A307**

**MINIMUM THREAD LENGTH:**
Up to 6" long: Twice dia. plus 1/4"
Over 6" long: Twice dia. plus 1/2"

| COARSE THREAD (U.N.C. - U.S.S.) | UNIFIED STANDARD CLASS 2A FIT (NOT AVAILABLE IN FINE THREAD) | | | | | |
|---|---|---|---|---|---|---|
| DIA. | 1/4" | 5/16" | 3/8" | 1/2" | 5/8" | 3/4" |
| THD. | 20 | 18 | 16 | 13 | 11 | 10 |
| LGTH. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 3/4 | 042-H02-1C | MB-826 | | | | |
| 1 | | MB-827 | MB-832 | MB-841 | | |
| 1-1/4 | | | MB-833 | | | |
| 1-1/2 | | 042-H04-1T | | MB-801 | | |
| 2 | MB-823 | MB-829 | 042-H03-1N | 042-H05-1K | MB-814 | MB-844 |
| 2-1/2 | MB-824 | MB-806 | | MB-842 | MB-853 | 042-H01-1Y |
| 3 | | | | 042-H07-1M | MB-815 | MB-845 |
| 3-1/2 | | MB-851 | MB-852 | 042-006 | | |
| 4 | | | | 042-H06-1W | 042-H08-1X | MB-846 |
| 4-1/2 | | | | 042-005 | | |
| 5 | | | | | MB-817 | |
| 5-1/2 | | | | 042-004 | | |

For Nuts See Pages C2 to C15

**Contact Sales Desk For Package Quantities**





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B

**DIN 603-Mu**

# ROUND HEAD SQUARE NECK Carriage Bolt

with Hex Nut

**Property Class 3.6 or 4.6 Steel**
(Our Option)
**Plain Finish**

**Regular (Coarse)**
**METRIC THREAD**

Tensile strength Rm: min. **400 N/mm²**
58000 psi



Bolt **DIN 603**

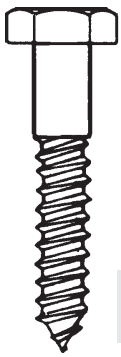


Nut **DIN 555**

| Dia. mm | M5 | M6 | M8 | M10 | M12 | M16 |
|---|---|---|---|---|---|---|
| Pitch mm | 0.8 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | |
| 16 | 015-050 | 015-063 | 015-079 | | | |
| 20 | 015-051 | 015-064 | ▾015-080 | 015-095 | | |
| 25 | 015-052 | 015-065 | 015-081 | 015-096 | | |
| 30 | 015-053 | 015-066 | 015-082 | 015-097 | 015-T01-1P | |
| 35 | 015-054 | 015-067 | 015-083 | ▲015-098 | 015-113 | |
| 40 | *015-055 | 015-068 | 015-084 | 015-099 | 015-114 | 015-137 |
| 45 | 015-056 | 015-069 | 015-085 | 015-100 | 015-115 | 015-138 |
| 50 | 015-057 | 015-070 | 015-086 | 015-101 | 015-116 | 015-139 |
| 55 | | ■015-071 | 015-087 | 015-102 | 015-117 | 015-140 |
| 60 | 015-059 | 015-072 | 015-088 | 015-103 | 015-118 | 015-141 |
| 65 | 015-060 | 015-073 | 015-089 | 015-104 | 015-119 | 015-142 |
| 70 | 015-061 | 015-074 | 015-090 | 015-105 | 015-120 | 015-143 |
| 75 | | | | 015-106 | 015-121 | 015-144 |
| 80 | | 015-076 | 015-092 | 015-107 | 015-122 | ◆015-145 |
| 90 | | 015-077 | 015-093 | 015-108 | 015-123 | 015-146 |
| 100 | | 015-078 | 015-094 | 015-109 | 015-124 | 015-147 |
| 110 | | | | 015-110 | 015-125 | 015-148 |
| 120 | | | | 015-111 | 015-126 | |
| 130 | | | | | 015-127 | 015-150 |
| 140 | | | | | 015-128 | 015-151 |
| 150 | | | | | 015-129 | 015-152 |
| 160 | | | | | 015-130 | 015-153 |
| 170 | | | | (Zinc Plated) | 015-131 | 015-154 |
| 180 | | | | | 015-132 | 015-155 |
| 190 | | | | | 015-133 | 015-156 |
| 200 | | | | | 015-134 | 015-157 |

*015-055ZP Zinc Pltd. ▾015-080ZP Zinc Pltd. ■015-071ZP Zinc. Pltd.
◆015-145ZP Zinc Pltd. ▲015-098ZP Zinc. Pltd.

**Contact Sales Desk For Package Quantities**



# STEEL
## LAG SCREWS
### HEXAGON HEAD

For Lag Screws See Page B257

More Metric Carriage Bolts on following page



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B

# METRIC

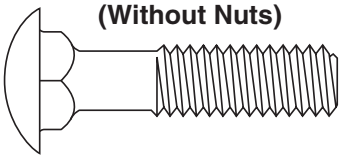
## Carriage Bolts

**DIN 603**

**Regular (Coarse)**
**METRIC THREAD**

## ROUND HEAD SQUARE NECK

**(Without Nuts)**

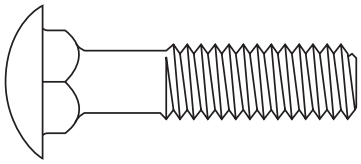


For Metric Hex Nuts, see pages C9 to C15.

## 18-8 STAINLESS STEEL

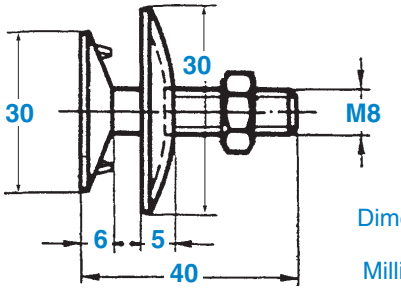
| Dia. mm | M6 | M8 | M10 | M12 | M16 |
|---|---|---|---|---|---|
| Pitch mm | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
| Lgth. mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 25 | 015-800 | | | | |
| 30 | 015-801 | 015-807 | | | |
| 40 | 015-802 | 015-808 | 015-813 | | |
| 50 | 015-803 | 015-809 | 015-814 | 015-820 | 015-828 |
| 60 | 015-804 | 015-810 | 015-815 | 015-821 | 015-829 |
| 70 | 015-805 | 015-811 | 015-816 | 015-822 | 015-830 |
| 80 | 015-806 | 015-812 | 015-817 | 015-824 | 015-831 |
| 90 | | | 015-818 | 015-824 | |
| 100 | | | 015-819 | 015-826 | 015-832 |
| 120 | | | | 015-827 | 015-833 |

## BRASS



| | | | | | |
|---|---|---|---|---|---|
| 25 | 015-500 | | | | |
| 30 | 015-501 | 015-507 | | | |
| 50 | 015-503 | 015-509 | | 015-520 | |
| 60 | | | 015-515 | | |
| 70 | 015-505 | 015-511 | | | |
| 80 | 015-506 | 015-512 | 015-517 | | |
| 90 | | | | 015-524 | |
| 100 | | | 015-519 | | |

**Contact Sales Desk For Package Quantities**




All Dimensions in Millimetres

**PKG QTY. 50**

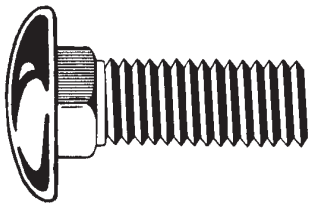
**DIN 15237** *SPAENAUR No.* **018-100**

### Metric
### Elevator Bolt with Domed Washer and Hex Nut

**Property Class 4.6 Steel, Zinc Plated**

Regular (COARSE) **Metric** Thread **M8 x 1.25 mm Pitch**

See Page B124 for Carriage Bolts





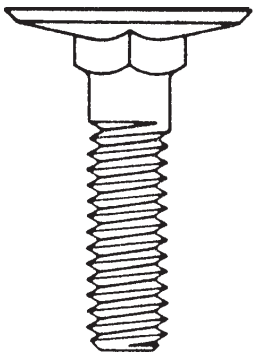


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# Steel

## ELEVATOR BOLTS

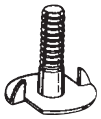
Not Plated



**LARGE HEAD**
**COARSE THREAD (UNC)—2A**

ASME B18.5

◆**018-007** Zinc Plated

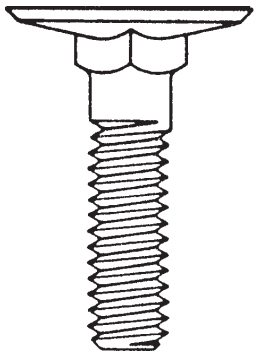


▲018-101
Fanged
Black Finish

## INCH SIZES

| DIA. | 1/4" | 5/16" | 3/8" | PKG QTY. |
|---|---|---|---|---|
| THD. | 20 UNC | 18 UNC | 16 UNC | |
| Minimum Head Dia. | 0.969" | 1.188" | 1.312" | |
| LGTH. | ORDER BY *SPAENAUR* No.'s BELOW | | | |
| 3/4" | | **018-006** (zinc pltd.) | | |
| 1" | **B-1890** | | | 100 |
| 1" | ▲**018-101** | | | 100 |
| 1-1/4" | **018-005** | | **018-003** | 100 |
| 1-1/2" | **762** | **B-793** | ◆**018-P02-1X** | 50 |
| 2" | **B-792** | **018-P01-1M** | **B-1285** | 50 |
| 2-1/4" | | | **018-002** | 50 |
| 2-1/2" | | | **018-004** | 50 |

# 18-8 Stainless Steel



## ELEVATOR BOLTS

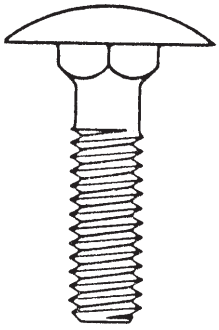
Head & Body Dimensions
to ANSI/ASME B18.5

**LARGE HEAD**
**COARSE THREAD (UNC)—2A**

ASME B18.5

| | | | | |
|---|---|---|---|---|
| 3/4" | **EB-2001** | | | 100 |
| 1" | **019-A01-2Y** | **EB-2009** | | 50 |
| 1-1/8" | | **EB-2010** | | 50 |
| 1-1/4" | **019-007** | **019-A03-1N** | | 50 |
| 1-1/2" | **EB-2006** | **EB-2012** | **EB-2021** | 50 |
| 1-1/2" | | **019-005** (1" head dia.) | | 50 |
| 2" | | **EB-2014** | **019-A02-1C** | 50 |
| 2-1/4" | | **EB-2015** | | 50 |
| 2-1/2" | | **019-001** | | 50 |

# Steel



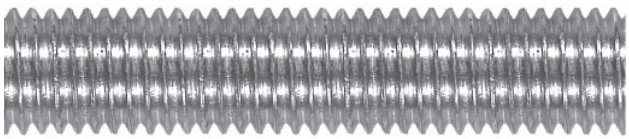
## STEP BOLTS

Not Plated

**COARSE THREAD (UNC)—2A**
ASME B18.5

| DIA. | 1/4" | 5/16" | | PKG QTY. |
|---|---|---|---|---|
| THD. | 20 UNC | 18 UNC | | |
| Minimum Head Dia. | 0.813" | 1.000" | | |
| 1-1/4" | | **018-P03-1A** | | 50 |
| 1-1/2" | **761** | **B-499** | | 50 |
| 2" | | **B-700** | | 50 |
| 3-1/2" | | **B-701** | | 50 |

See Page B286 for Fully Threaded Rods



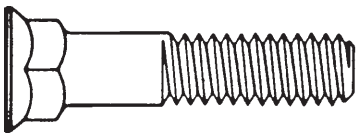


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B

# STEEL Plow Bolts

## No. 3 REGULAR HEAD



**ASME B18.9**
**U.N.C. COARSE THREAD**

NOT PLATED

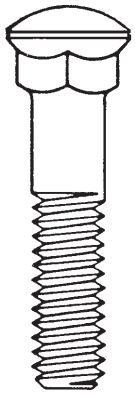
**80-deg. Round, Countersunk, Square Neck**

| | S.A.E. GRADE 5 C1035-1041 MEDIUM CARBON STEEL | | | | S.A.E. GRADE 8 ALLOY STEEL HEAT TREATED |
|---|---|---|---|---|---|
| **DIA.** | **3/8"** | **7/16"** | **1/2"** | **5/8"** | **5/8"** |
| **THD.** | 16 | 14 | 13 | 11 | 11 |
| **LENGTH** | **ORDER BY *SPAENAUR* NUMBERS LISTED BELOW** | | | | |
| 1" | **050-143** | | | | |
| 1-1/4" | **050-144** | **050-146** | **050-150** | | |
| 1-1/2" | **050-145** | **050-147** | **050-151** | | |
| 1-3/4" | | **050-148** | **050-152** | | |
| 2" | **050-161** | **050-149** | **050-153** | **PB-65** | **050-155** |
| 2-1/4" | | | | **PB-66** | **050-156** |
| 2-1/2" | | | **050-154** | **PB-67** | **050-157** |
| 3" | | | **050-159** | **050-160** | **050-158** |
| | **PKG QTY. 100** | **PKG QTY. 50** | | **PKG QTY. 25** | **PKG QTY. 25** |

**High Strength**

# STEEL

## SCRAPER (BLADE) BOLTS



**No. 3D**
## DOME HEAD

**Tensile strength**
**160,000 lbs. per sq. in.**

**U.N.C. COARSE THREAD**

NOT PLATED

| **DIA.** | **5/8"** | **3/4"** | **7/8"** | **1"** |
|---|---|---|---|---|
| **THD.** | 11 | 10 | 9 | 8 |
| **LENGTH** | **ORDER BY *SPAENAUR* NUMBERS LISTED BELOW** | | | |
| 2" | **PB-100** | **PB-110** | | |
| 2-1/4" | **PB-101** | **PB-111** | **PB-121** | |
| 2-1/2" | **PB-102** | **PB-112** | **PB-122** | |
| 2-3/4" | | **PB-113** | **PB-123** | **PB-131** |
| 3" | **PB-104** | **PB-114** | **PB-124** | **PB-132** |
| 3-1/4" | | **PB-115** | **PB-125** | **PB-133** |
| 3-1/2" | **PB-106** | **PB-116** | **PB-126** | **PB-134** |
| 3-3/4" | | **PB-117** | **PB-127** | **PB-135** |
| 4" | | **PB-118** | **PB-128** | **PB-136** |
| 4-1/2" | | **PB-119** | **PB-129** | **PB-137** |
| 5" | | **PB-120** | **PB-130** | **PB-138** |
| 5-1/2" | | | | **PB-139** |
| 6" | | | | **PB-140** |
| | **PKG QTY. 25** | | **PKG QTY. 10** | |

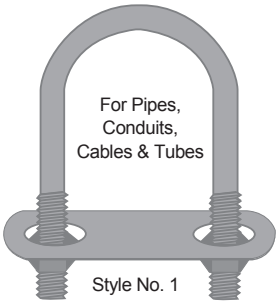
See Page B286 for Fully Threaded Rods







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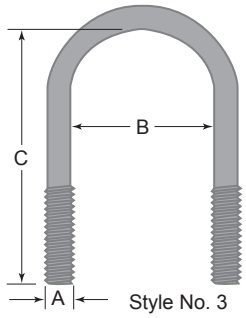

# U-BOLTS

**WITH HEX NUTS & STRAP PLATES**



**Low Carbon STEEL**

**BRIGHT ZINC PLATED**




| A Thread Size | B Width Inside | C Length Inside | Width Centre to Centre | For Nominal Pipe Size | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW<br>Style No. 1 With Plate & Hex. Nuts | Style No. 3 Bolt Only | Strap Plate Only | Hex. Nut Only ASME B18.2.2 |
|---|---|---|---|---|---|---|---|---|
| 1/4"-20 | 3/4" | 2-1/4" | 1" | 3/8" | 030-003 | 030-001 | 030-002 | B-91 |
| 1/4"-20 | 1-1/8" | 2" | 1-3/8" | 3/4" | UB-1XA | UB-1 | | B-91 |
| 1/4"-20 | 1-1/8" | 2-1/4" | 1-3/8" | 3/4" | 030-005A | 030-004 | | B-91 |
| 5/16"-18 | 1-3/8" | 2-1/4" | 1-11/16" | 1" | UB-2XA | UB-2 | 030-019 | B-92 |
| 5/16"-18 | 1-1/2" | 2-1/4" | 1-13/16" | 1" | 030-018A | UB-3 | | B-92 |
| 5/16"-18 | 1-3/4" | 3" | 2-1/16" | 1-1/4" | 030-039 | 030-037 | 030-038 | B-92 |
| 5/16"-18 | 1-3/4" | 3-1/2" | 2-1/16" | 1-1/4" | UB-5XA | UB-5 | | B-92 |
| 5/16"-18 | 2" | 2-11/16" | 2-5/16" | 1-1/2" | | | 030-035 | B-92 |
| 5/16"-18 | 2-1/32" | 2-3/4" | 2-5/16" | 1-1/2" | UB-6XA | 030-L01-1N | | B-92 |
| 5/16"-18 | 2-5/8" | 3-1/4" | 2-7/8" | 2" | UB-7XA | UB-7 | | B-92 |
| 3/8"-16 | 3-1/2" | 4-1/8" | 3-13/16" | 3" | 030-008 | 030-006 | 030-007 | 155-P40-1X |
| 1/2"-13 | 3-1/2" | 5" | 4" | 3" | 030-011 | 030-009 | 030-010 | *B-95 |
| 1/2"-13 | 4" | 5-1/2" | 4-1/2" | 3-1/2" | 030-014 | 030-012 | 030-013 | *B-95 |
| 1/2"-13 | 4-1/2" | 6" | 5" | 4" | 030-017 | 030-015 | 030-016 | *B-95 |
| | | | | *PKG QTY. 50 | PKG QTY. 10 | PKG QTY. 10 | PKG QTY. 10 | PKG QTY. 100 |

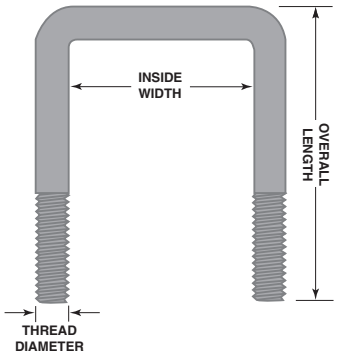
# SQUARE BEND U-BOLTS Only

Low Carbon

**Steel**

**Zinc Plated**

**PKG QTY. 10**




| *SPAENAUR No.* | Thread Dia. | Inside Width | O/A Lgth. |
|---|---|---|---|
| 030-050 | 3/8"-16 | 2" | 3" |
| 030-051 | 3/8"-16 | 2" | 5" |
| 030-052 | 3/8"-16 | 2" | 7" |
| 030-053 | 3/8"-16 | 4" | 3" |
| 030-054 | 3/8"-16 | 4" | 5" |
| 030-055 | 3/8"-16 | 4" | 7" |
| 030-056 | 3/8"-16 | 6" | 5" |
| 030-057 | 3/8"-16 | 6" | 7" |
| 030-058 | 3/8"-16 | 6" | 9" |

## —For Reference Only—
## Dimensions of Welded and Seamless Steel Pipe

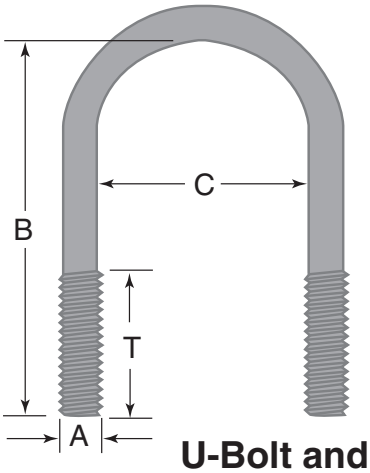
| Nominal Pipe Size | Outside Diameter |
|---|---|
| 1/4" | .540" |
| 3/8" | .675" |
| 1/2" | .840" |
| 3/4" | 1.05" |
| 1" | 1.315" |
| 1-1/4" | 1.66" |

| Nominal Pipe Size | Outside Diameter |
|---|---|
| 1-1/2" | 1.90" |
| 2" | 2.375" |
| 2-1/2" | 2.875" |
| 3" | 3.500" |
| 3-1/2" | 4.000" |
| 4" | 4.500" |



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B




# U-BOLTS & STRAP PLATES

## 18-8

## STAINLESS STEEL

Plain Finish



**U-Bolt and Strap Plate must be ordered separately.**

**PKG QTY.10**
***PKG QTY. 1**

| U-BOLTS | | | | | | STRAP PLATES |
|---|---|---|---|---|---|---|
| Bolt Only *SPAENAUR No.* | A Thread Size | C Width Inside | B Length Inside | T Approx. Thread Lgth. | For Nominal Pipe Size | Strap Only *SPAENAUR No.* |
| — | 1/4-20 | 9/16" | 1-1/4" | 3/4" | 1/4" | **030-850** |
| **030-800** | 1/4-20 | 3/4" | 1-1/4" | 5/8" | 3/8" | **030-851** |
| **030-801** | 1/4-20 | 3/4" | 2-1/4" | 1-1/2" | 3/8" | **030-851** |
| **030-802** | 1/4-20 | 1" | 1-3/4" | 1" | 1/2" | **030-853** |
| **030-803** | 1/4-20 | 1-1/8" | 2" | 1" | 3/4" | **030-854** |
| **030-804** | 1/4-20 | 1-1/4" | 2-1/4" | 1-1/4" | 3/4" | **030-855** |
| — | 1/4-20 | 1-1/2" | 2-3/4" | 1-3/8" | 1" | **030-856** |
| **030-805** | 1/4-20 | 1-3/4" | 3" | 1-3/8" | 1-1/4" | **030-857** |
| **030-806** | 1/4-20 | 2" | 3-1/4" | 1-3/8" | 1-1/2" | **030-858** |
| — | 5/16-18 | 1" | 2-3/16" | 1-3/8" | 1/2" | **030-859** |
| **030-807** | 5/16-18 | 1-3/8" | 2-3/16" | 1" | 1" | **030-860** |
| — | 5/16-18 | 1-1/2" | 2-3/16" | 1" | 1" | **030-861** |
| **030-808** | 5/16-18 | 1-3/4" | 2-11/16" | 1-1/8" | 1-1/4" | **030-862** |
| **030-809** | 5/16-18 | 2" | 2-11/16" | 1" | 1-1/2" | **030-863** |
| **030-810** | 5/16-18 | 2-1/2" | 3-3/16" | 1" | 2" | **030-864** |
| — | 5/16-18 | 3" | 3-11/16" | 1" | 2-1/2" | **030-865** |
| **030-811** | 3/8-16 | 1" | 2-1/4" | 1-1/4" | 1/2" | **030-866** |
| — | 3/8-16 | 1-1/4" | 2-1/4" | 1-1/4" | 3/4" | **030-867** |
| **030-812** | 3/8-16 | 1-1/2" | 2-1/2" | 1-1/4" | 1" | **030-868** |
| — | 3/8-16 | 1-3/4" | 2-3/4" | 1-1/8" | 1-1/4" | **030-869** |
| **030-813** | 3/8-16 | 2" | 2-5/8" | 1-1/4" | 1-1/2" | **030-870** |
| **030-814** | 3/8-16 | 2-1/2" | 3-1/8" | 1-1/4" | 2" | **030-871** |
| **030-815** | 3/8-16 | 3" | 3-5/8" | 1-1/4" | 2-1/2" | **030-872** |
| **030-821** | 3/8-16 | 3" | 3-11/16" | 1-1/4" | 2-1/2" | **030-872** |
| **030-816** | 3/8-16 | 3-1/2" | 4-1/8" | 1-1/4" | 3" | **030-873** |
| ***030-817** | 1/2-13 | 3" | 4-1/2" | 1-5/8" | 2-1/2" | **030-874** |
| ***030-818** | 1/2-13 | 3-1/2 | 5" | 1-1/2" | 3" | **030-875** |
| ***030-819** | 1/2-13 | 4" | 5-1/2" | 1-1/2" | 3-1/2" | **030-876** |
| ***030-820** | 1/2-13 | 4-1/2" | 6" | 1-1/2" | 4" | **030-877** |

Hex Nuts not included.

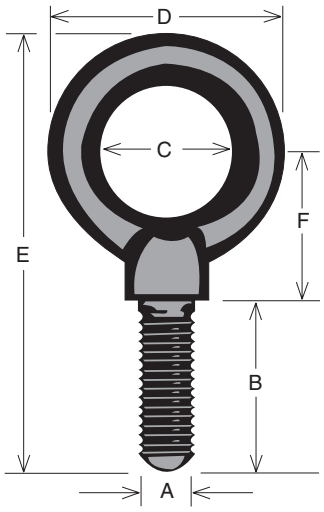
For Stainless Steel Hex Nuts see page C7.



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# SHOULDER TYPE EYE BOLTS

## FORGED / 1030 STEEL / HEAT TREATED
### Self-Coloured



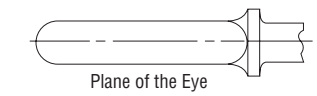

**ASME B18.15**

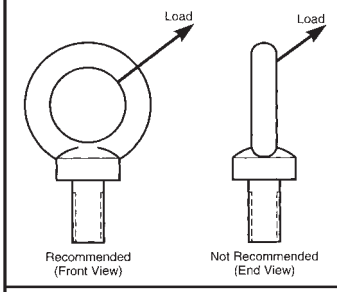
SHANKS FULL THREADED TO WITHIN 1/8" - 3/8" OF SHOULDER.

Class 2A (UNC-2A)
**(COARSE THREAD)**

**WARNING:**
**APPLIES TO**
**EYE BOLTS & EYE NUTS**

Safe working load is drastically reduced when loading at an angle. Loading must never be made at an angle greater than 45° from bolt or nut centreline.




(In Inches)

| *SPAENAUR No.* | (A) Thread Size | (B) Shank Length | (C) Eye I.D. | (D) Nom Eye O.D. | (E) Overall Length | (F) Centre Of Eye To Shoulder | PKG QTY. |
|---|---|---|---|---|---|---|---|
| **EYB-3** | 1/4-20 | 1.00 | 0.50 | 0.94 | 2.20 | 0.70 | 10 |
| **EYB-4** | 1/4-20 | 1.00-1.06 | 0.69-0.81 | 1.19 | 2.22-2.53 | 0.69-0.81 | 10 |
| **EYB-5** | 5/16-18 | 1.125 | .625 | 1.19 | 2.50 | 0.875 | 10 |
| **024-T38-1X** | 5/16-18 | 1.12-1.19 | 0.81-0.94 | 1.44 | 2.66-2.97 | 0.88-1.00 | 10 |
| **EYB-7** | 3/8-16 | 0.75 | 1.00 | 1.69 | 2.81 | 1.20 | 10 |
| **EYB-8** | 3/8-16 | 1.25 | 0.75 | 1.44 | 2.97 | 1.00 | 10 |
| **EYB-9** | 3/8-16 | 1.25-1.38 | 0.94-1.06 | 1.69 | 3.09-3.47 | 1.06-1.19 | 10 |
| **EYB-10** | 7/16-14 | 1.38-1.50 | 1.00-1.12 | 1.81 | 3.41-3.78 | 1.19-1.31 | 10 |
| **EYB-11** | 1/2-13 | 1.50 | 1.00 | 1.94 | 3.75 | 1.28 | 5 |
| **EYB-12** | 1/2-13 | 1.50-1.62 | 1.12-1.25 | 2.12 | 3.81-4.19 | 1.31-1.44 | 5 |
| **EYB-13** | 9/16-12 | 1.75-1.88 | 1.31-1.44 | 2.56 | 4.56-4.94 | 1.59-1.72 | 5 |
| **EYB-14** | 5/8-11 | 1.75-1.88 | 1.31-1.44 | 2.56 | 4.56-4.94 | 1.59-1.72 | 5 |
| **EYB-15** | 3/4-10 | 2.00-2.12 | 1.44-1.56 | 2.81 | 5.06-5.50 | 1.72-1.91 | 5 |
| **EYB-16** | 7/8-9 | 2.25-2.38 | 1.56-1.69 | 3.19 | 5.75-6.19 | 2.03-2.22 | 1 |
| **EYB-17** | 1-8 | 2.50-2.62 | 1.69-1.81 | 3.56 | 6.44-6.88 | 2.22-2.41 | 1 |
| **EYB-18** | 1-1/8-7 | 2.75-2.88 | 1.94-2.06 | 4.06 | 7.31-7.75 | 2.59-2.78 | 1 |
| **EYB-19** | 1-1/4-7 | 3.00-3.12 | 2.12-2.25 | 4.44 | 8.00-8.44 | 2.84-3.03 | 1 |
| **EYB-20** | 1-1/2-6 | 3.50-3.62 | 2.44-2.56 | 5.19 | 9.22-9.72 | 3.19-3.44 | 1 |
| **EYB-40** | 1-3/4-5 | 3.75-3.88 | 2.75-3.00 | 6.00 | 10.50-11.12 | 3.88-4.12 | 1 |

-Special Stock Sizes -

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ▲**024-044** | 1/4-20 | 2.00 | 0.50 | 0.94 | 3.19 | 0.75 | 10 |
| ●**024-022** | 1/2-13 | 6.00 | 1.00 | 1.938 | 8.00 | 1.25 | 5 |

***Self-coloured finish except:***

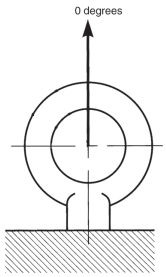
▲ No. 024-044 Hot Galvanized Finish. 1" Thread Length.

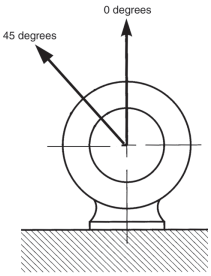
● Hot Galvanized Finish. 2" Thread Length.

### Plain Pattern (Straight Shank) Eyebolt

Showing Rated Capacity in lbs. at 0° (for ref. only)

| Nominal Size | Rated Cap. in lbs. 0 degrees |
|---|---|
| 1/4 | 400 |
| 5/16 | 680 |
| 3/8 | 1,000 |
| 7/16 | 1,380 |
| 1/2 | 1,840 |
| 9/16 | 2,370 |
| 5/8 | 2,940 |
| 3/4 | 4,340 |
| 7/8 | 6,000 |
| 1 | 7,880 |
| 1-1/8 | 9,920 |
| 1-1/4 | 12,600 |
| 1-1/2 | 18,260 |
| 1-3/4 | 24,700 |
| 2 | 32,500 |
| 2-1/2 | 52,000 |




### Shoulder Pattern Eyebolt

Showing Rated Capacity in lbs. at 0° and 45° (for ref. only)

| Nominal Size | Rated Capacity in lbs. 0 degrees | 45 degrees |
|---|---|---|
| 1/4 | 400 | NR |
| 5/16 | 680 | NR |
| 3/8 | 1,000 | 220 |
| 7/16 | 1,380 | 330 |
| 1/2 | 1,840 | 520 |
| 9/16 | 2,370 | 700 |
| 5/8 | 2,940 | 890 |
| 3/4 | 4,340 | 1,310 |
| 7/8 | 6,000 | 1,910 |
| 1 | 7,880 | 2,630 |
| 1-1/8 | 9,920 | 3,840 |
| 1-1/4 | 12,600 | 4,125 |
| 1-1/2 | 18,260 | 6,040 |
| 1-3/4 | 24,700 | 8,250 |
| 2 | 32,500 | 10,910 |

NR - no rating

**Note:** All Eye Bolts and Eye Nuts, whether in blanks or fully machined, as shown on page B269, are covered by our standard warranty. The warranty becomes VOID whenever modifications are made or further machining is done by the buyer, also in cases where these items are subject to an angular lift or pull.

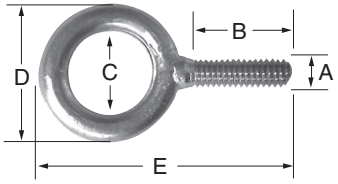


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B

## 304 STAINLESS STEEL EYE BOLTS, Forged

### Plain Type



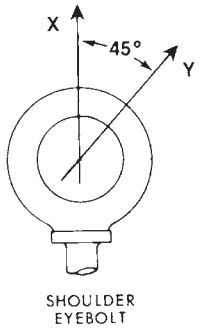

| *SPAENAUR No.* PLAIN TYPE | A Thread Size UNC-2A | B Length of Shank | C Eye I.D. | D Eye O.D. | E Overall Length | Approx. Lbs. per 100 Pcs. | Rated Capacity Lbs. | PKG QTY. |
|---|---|---|---|---|---|---|---|---|
| **024-894** | **1/2"-13** | 1-1/2" | 1-3/1" | 2-1/8" | 4" | 42.0 | 2150 | 1 |

(without nut)

## 316 STAINLESS FORGED EYE BOLTS

**Drop Forged - Plain Finish**
**Shoulder Type**






Maximum load rating for eyebolts are based on a straight vertical lift (x) in a gradually increasing manner. Angular lifts will significantly lower maximum loads and should be avoided whenever possible. If an angular lift is required (y), a properly seated Shoulder eyebolt must be used. Loads should always be applied to eyebolts in the plane of the eye, not at some angle to this plane. Angular lifts must never be more than a 45° pull.

Vertical loads are based on safety factor of 5 to 1.

| *SPAENAUR No.* | Thread Size UNC | Length of Shank | Eye I.D. | Eye O.D. | Overall Length Min./Max. | Max. Safe Working Load Lbs. | PKG QTY. |
|---|---|---|---|---|---|---|---|
| **024-832** | **1/4"-20** | 1" | 3/4" | 1-1/4" | 2-7/32/2-17/32" | 500 | 1 |
| **024-833** | **5/16"-18** | 1-1/8" | 7/8" | 1-1/2" | 2-21/32/2-31/32" | 900 | 1 |
| **024-834** | **3/8"-16** | 1-1/4" | 1" | 1-21/32" | 3-3/32/3-15/32" | 1400 | 1 |
| **024-835** | **1/2"-13** | 1-1/2" | 1-3/16" | 2-1/16" | 3-13/16/4-3/16" | 2600 | 1 |
| **024-836** | **5/8"-11** | 1-3/4" | 1-3/8" | 2-1/2" | 4-9/16/4-15/16" | 4000 | 1 |
| **024-837** | **3/4"-10** | 2" | 1-1/2" | 2-13/16" | 5/5-1/2" | 6000 | 1 |

Angular lifts should be avoided whenever possible.

**Note:** All Eye Bolts and Eye Nuts, whether in blanks or fully machined, as shown on pages B267 to B274, are covered by our standard warranty. The warranty becomes VOID whenever modifications are made or further machining is done by the buyer, also in cases where these items are subject to an angular lift or pull.

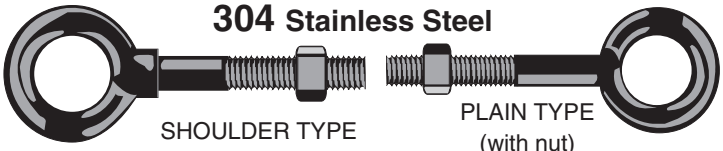


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# STAINLESS FORGED EYE BOLTS

## PLAIN & SHOULDER STYLE

## 304 Stainless Steel



SHOULDER TYPE
(with nut)

PLAIN TYPE
(with nut)

**Applications in the following industries:**

- Food Processing
- Chemical
- Pulp & Paper
- Nuclear
- Marine
- Sewage Disposal
- Petroleum
- Aircraft

**Supplied with standard UNC-2A threads and heavy hex nuts.**

| *SPAENAUR No.* PLAIN TYPE (with nut) | SHOULDER TYPE (with nut) | Diameter & Length of Shank | Eye I.D. | Eye O.D. | Min. Thread Length | Approx. Lbs. per 100 Pcs. | Rated Capacity Lbs. |
|---|---|---|---|---|---|---|---|
| 024-800 | 024-810 | 3/8" x 4-1/2" | 3/4" | 1-1/2" | 1-1/2" | 25 | 1160 |
| 024-T02-1X | *024-811 | 1/2" x 4-1/2" | 1" | 1-15/16" | 2" | 41 | 2150 |
| 024-802 | 024-812 | 1/2" x 6" | 1" | 1-15/16" | 2" | 42 | 2150 |
| 024-803 | — | 5/8" x 4" | 1-3/8" | 2-1/2" | 2-1/4" | 82 | 3440 |
| 024-804 | 024-814 | 5/8" x 6" | 1-3/8" | 2-1/2" | 2-1/4" | 98 | 3440 |
| 024-805 | — | 3/4" x 4-1/2" | 1-1/2" | 2-13/16" | 2-1/2" | 128 | 5140 |
| 024-806 | 024-816 | 3/4" x 6" | 1-1/2" | 2-13/16" | 2-1/2" | 138 | 5140 |
| 024-807 | — | 7/8" x 6" | 1-11/16" | 3-1/4" | 2-1/2" | 214 | 7000 |
| 024-808 | 024-817 | 1" x 6" | 1-13/16" | 3-9/16" | 3" | 280 | 9370 |

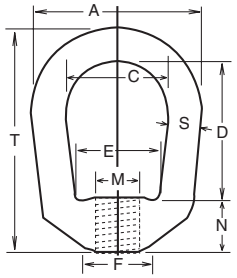
**PKG QTY. 1**

***316 Stainless Steel,** 1-1/2" Thread Lgth.

# Drop-forged Eye Nuts

## 1035 Steel Self-coloured Finish and 316 Stainless Steel Plain Finish

| *SPAENAUR No's.* 1035 Steel | Stainless Steel 316 | TAP SIZES STD. M | N | SPECIFICATION IN INCHES A | C | D | E | F | S | T | MAX. LOAD TONS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 024-047 | 024-850 | 1/4"-20 | 3/8" | 1-1/4" | 3/4" | 1-1/16" | 19/32" | 1/2" | 1/4" | 1-11/16" | .26 |
| 024-048 | 024-851 | 5/16"-18 | 3/8" | 1-1/4" | 3/4" | 1-1/16" | 19/32" | 1/2" | 1/4" | 1-11/16" | .42 |
| 024-049 | — | 3/8"-16 | 7/16" | 1-5/8" | 1" | 1-1/4" | 3/4" | 9/16" | 5/16" | 2-1/16" | .62 |
| — | 024-852 | 3/8"-16 | 1/2" | 2" | 1-1/4" | 1-1/2" | 1" | 13/16" | 3/8" | 2-1/2" | 1.12 |
| 024-050 | — | 7/16"-14 | 5/8" | 2" | 1-1/4" | 1-1/2" | 1" | 13/16" | 3/8" | 2-1/2" | .85 |
| 024-051 | 024-849 | 1/2"-13 | 5/8" | 2" | 1-1/4" | 1-1/2" | 1" | 13/16" | 3/8" | 2-1/2" | 1.12 |
| 024-052 | 024-853 | 5/8"-11 | 3/4" | 2-1/2" | 1-1/2" | 2" | 1-3/16" | 1" | 1/2" | 3-3/16" | 1.8 |
| 024-053 | 024-854 | 3/4"-10 | 7/8" | 3" | 1-3/4" | 2-3/8" | 1-3/8" | 1-1/8" | 5/8" | 3-7/8" | 2.6 |
| 024-054 | — | 7/8"-9 | 1" | 3-1/2" | 2" | 2-5/8" | 1-5/8" | 1-5/16" | 3/4" | 4-5/16" | 3.6 |
| 024-055 | — | 1"-8 | 1" | 3-1/2" | 2" | 2-5/8" | 1-5/8" | 1-5/16" | 3/4" | 4-5/16" | 3.6 |




Drilled and Tapped
UNC-2B

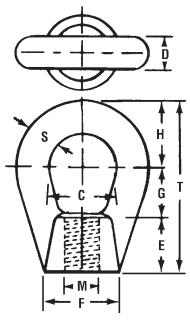
**Contact Sales Desk For Package Quantities**

# HEAVY DUTY Drop Forged Eye Nuts

## C1035 Steel

**Self-coloured Finish**

| *SPAENAUR No.* | SPECIFICATIONS IN INCHES C | S | D | M | F | E | G | H | T | MAX. LOAD TONS |
|---|---|---|---|---|---|---|---|---|---|---|
| 024-011 | 1-1/2" | 3/4" | 3/4" | 3/4"-10 | 1-3/4" | 1-1/4" | 1-1/8" | 1-1/2" | 3-7/8" | 5.3 |
| 024-010 | 1-3/4" | 1" | 1" | 1"-8 | 2-1/4" | 1-5/8" | 1-1/4" | 1-7/8" | 4-3/4" | 9.4 |
| 024-056 | 1-3/4" | 1" | 1" | 1-1/8"-7 | 2-1/4" | 1-5/8" | 1-1/4" | 1-7/8" | 4-3/4" | 9.4 |
| 024-057 | 2" | 1-1/4" | 1-1/4" | 1-1/4"-7 | 2-7/8" | 1-7/8" | 1-3/8" | 2-1/4" | 5-1/2" | 14.7 |
| 024-058 | 2-1/2" | 1-3/8" | 1-3/8" | 1-1/2"-6 | 3-1/8" | 2-1/8" | 1-3/4" | 2-5/8" | 6-1/2" | 17.8 |



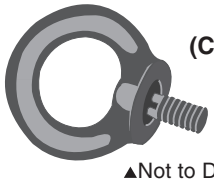

**PKG QTY. 1**

**Note:** All Eye Bolts and Eye Nuts, whether in blanks or fully machined, as shown on page B267, are covered by our standard warranty. The warranty becomes VOID whenever modifications are made or further machining is done by the buyer, also in cases where these items are subject to an angular lift or pull.



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B

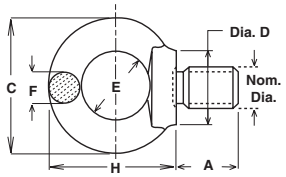


Regular (COARSE) Metric Thread

## Drop Forged Eye Bolts

CONFORMING TO **DIN 580**

C15 Carbon Steel - Heat Treated
Plain Finish




▲Not to DIN ∗Calculated Pull Capacity

| SPAENAUR No. | NOMINAL DIAMETER mm | PITCH mm | *Max. Pull capacity in kg for 1 Bolt | *Max. Pull capacity in kg total for 2 Bolts | DATA IN mm A | C | D | E | F | H | PKG QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ∗ 026-021 | M6 | 1.00 | 70 | 50 | 13 | 36 | 20 | 20 | — | — | 10 |
| ∗ 026-021ZP (Zinc Pltd.) | M6 | 1.00 | 70 | 50 | 13 | 36 | 20 | 20 | — | — | 10 |
| 026-001 | M8 | 1.25 | 140 | 95 | 13 | 36 | 20 | 20 | 8 | 36 | 10 |
| 026-002 | M10 | 1.50 | 230 | 170 | 17 | 45 | 25 | 25 | 10 | 45 | 10 |
| 026-003 | M12 | 1.75 | 340 | 240 | 20.5 | 54 | 30 | 30 | 12 | 53 | 10 |
| 026-004 | M16 | 2.00 | 700 | 500 | 27 | 63 | 35 | 35 | 14 | 62 | 5 |
| 026-005 | M20 | 2.50 | 1200 | 830 | 30 | 72 | 40 | 40 | 16 | 71 | 5 |
| 026-006 | M24 | 3.00 | 1800 | 1270 | 36 | 90 | 50 | 50 | 20 | 90 | 5 |
| ∗▲026-022ZP (Zinc Pltd.) | M27 | 3.00 | 2180 | 1500 | 38 | 90 | 50 | 50 | 20 | 90 | 1 |
| 026-007 | M30 | 3.50 | 3600 | 2600 | 45 | 108 | 65 | 60 | 24 | 109 | 1 |
| 026-008 | M36 | 4.00 | 5100 | 3700 | 54 | 126 | 75 | 70 | 28 | 128 | 1 |
| 026-009 | M42 | 4.50 | 7000 | 5000 | 63 | 144 | 85 | 80 | 32 | 147 | 1 |
| 026-010 | M48 | 5.00 | 8600 | 6100 | 68 | 166 | 100 | 90 | 38 | 168 | 1 |
| 026-023 | M56 | 5.50 | 11500 | 8300 | 78 | 184 | 110 | 100 | 42 | 187 | 1 |
| 026-024 | M64 | 6.00 | 16000 | 11000 | 90 | 206 | 120 | 110 | 48 | 208 | 1 |

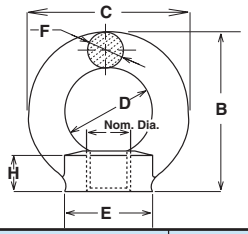


Regular (COARSE) Metric Thread

## Drop Forged Eye Nuts

CONFORMING TO **DIN 582**

C15 Carbon Steel - Heat Treated
Plain Finish




∗Calculated Pull Capacity

| SPAENAUR No. | NOMINAL DIAMETER mm | PITCH mm | *Max. Pull Capacity in kg for 1 Nut | *Max. Pull Capacity in kg total for 2 Nuts | DATA IN mm B | C | D | E | F | H | PKG QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ∗ 026-028 | M6 | 1.00 | 70 | 50 | 18 | 36 | 20 | 20 | 8 | 8.5 | 10 |
| 026-011 | M8 | 1.25 | 140 | 95 | 36 | 36 | 20 | 20 | 8 | 8.5 | 10 |
| 026-011ZP (Zinc Pltd.) | M8 | 1.25 | 140 | 95 | 36 | 36 | 20 | 20 | 8 | 8.5 | 10 |
| 026-012 | M10 | 1.50 | 230 | 170 | 45 | 45 | 25 | 25 | 10 | 10 | 10 |
| 026-013 | M12 | 1.75 | 340 | 240 | 53 | 54 | 30 | 30 | 12 | 11 | 10 |
| 026-014 | M16 | 2.00 | 700 | 500 | 62 | 63 | 35 | 35 | 14 | 13 | 5 |
| 026-015 | M20 | 2.50 | 1200 | 830 | 71 | 72 | 40 | 40 | 16 | 16 | 5 |
| 026-016 | M24 | 3.00 | 1800 | 1270 | 90 | 90 | 50 | 50 | 20 | 20 | 5 |
| 026-016ZP (Zinc Pltd.) | M24 | 3.00 | 1800 | 1270 | 90 | 90 | 50 | 50 | 20 | 20 | 5 |
| 026-017 | M30 | 3.50 | 3600 | 2600 | 109 | 108 | 60 | 65 | 24 | 25 | 1 |
| 026-M01-1P | M36 | 4.00 | 5100 | 3700 | 128 | 126 | 70 | 75 | 28 | 30 | 1 |
| 026-019 | M42 | 4.50 | 7000 | 5000 | 147 | 144 | 80 | 85 | 32 | 35 | 1 |

***WARNING:** Lifting eye nuts and bolts must always be tightened so that they bear solidly on the surface they contact. Loads at right angles to the plane of the eye are prohibited. When a specified position in relation to an axis, edge or the like is specified for the lifting eye nut/bolt when screwed in/on, shims should be used if necessary in order to rule out unacceptable loading. The loading values specified apply solely to the use of lifting eye bolts/nuts according to the present Standard on workpieces made of steel, cast steel or grey cast iron. When the lifting eye nuts are used on a metric bolt thread of medium tolerance class, the thread length must be no less than 0.8 nom. dia. and the tensile strength of the bolt not in excess of 500 N/mm$^2$.



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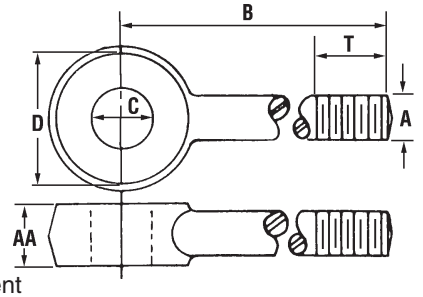
# ROD END EYEBOLTS

Threaded and drilled
or
Furnished in 'Blanks'

## Sizes to meet your needs!



**Finish:** Self-colour




**SUGGESTED APPLICATIONS**
•Space adjustment in machinery •Tie-downs
•Swing bolts for heavy covers •Linkage adjustment

B

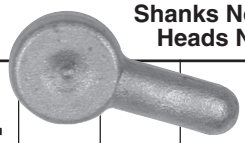
## C1030-C1035 Steel Forged

### With Threaded Shank and Drilled Head

| SPAENAUR No. | A U.N.C. Thread Size | B Ctr. of Eye to End | T Approx. Thread Length | C Hole Size | D Head Dia. | AA Head Thick |
|---|---|---|---|---|---|---|
| 024-401 | 1/4"-20 | 1-1/4" | 1" | 1/4" | .535" | 9/32" |
| 024-402 | | 1-3/4" | 1-1/4" | | .535" | 9/32" |
| 024-403 | | 2-1/2" | 2-1/4" | | .535" | 9/32" |
| 024-T39-1A | | 2-7/8" | 2-5/8" | | .535" | 9/32" |
| 024-406 | 5/16"-18 | 1-3/4" | 1-3/8" | 5/16" | 11/16" | 5/16" |
| 024-T46-1T | | 4" | 3-5/8" | | 5/8" | 5/16" |
| 024-411 | 3/8"-16 | 1-1/2" | 1-1/8" | 3/8" | .750" | 7/16" |
| 024-412 | | 3" | 2-1/2" | | .750" | 7/16" |
| 024-413 | | 4-1/2" | 4-1/8" | | .750" | 7/16" |
| 024-419 | 1/2"-13 | 1-5/16" | 7/8" | 1/2" | 15/16" | 9/16" |
| 024-420 | | 1-3/4" | 1-5/16" | | 15/16" | 9/16" |
| 024-421 | | 3-1/8" | 2-9/16" | | 15/16" | 9/16" |
| 024-422 | | 6" | 3" | | 15/16" | 9/16" |
| 024-423 | | 12" | 6" | | 15/16" | 9/16" |
| 024-424 | | 3-3/4" | 3" | 1/2" | 1-1/8" | 1/2" |
| 024-425 | | 4-13/16" | 4-1/4" | | 1-1/8" | 1/2" |
| 024-429 | 5/8"-11 | 2" | 1-7/16" | 5/8" | 1-3/16" | 11/16" |
| 024-430 | | 6" | 3" | | | 11/16" |
| 024-431 | | 12" | 6" | | | 11/16" |
| 024-436 | 3/4"-10 | 2" | 1-5/16" | 3/4" | 1-7/16" | 13/16" |
| 024-437 | | 4-3/4" | 4" | | | 13/16" |
| 024-438 | | 6" | 3" | | | 13/16" |
| 024-453 | | 8" | 6-1/2" | | | 13/16" |
| 024-T54-1P | | 12" | 6" | | | 13/16" |
| 024-443 | 7/8"-9 | 2" | 1-3/16" | 7/8" | 1-11/16" | 15/16" |
| 024-444 | | 6" | 3" | | | 15/16" |
| 024-445 | | 12" | 6" | | | 15/16" |
| 024-449 | 1"-8 | 3" | 2" | 1" | 2" | 1" |
| 024-450 | | 6" | 3" | | | 1" |
| 024-451 | | 12" | 6" | | | 1" |

## C1030-C1035 Steel Forged-Blanks

### BLANKS:



Shanks Not Threaded
Heads Not Drilled

| SPAENAUR No. | A Shank Dia. | D Head Dia. | AA Head Thick. | App. Wgt. in lbs. per 100. Blanks Only | App. Wgt. in lbs. per 100. Fully Mach. | PKG QTY. |
|---|---|---|---|---|---|---|
| | 1/4" | | | | 2.7 | 10 |
| | | | | | 3.7 | 10 |
| | | | | | 4.2 | 10 |
| 024-452 | 5/16" | 11/16" | 5/16" | 7 | 6.7 | 10 |
| 024-405 | | 5/8" | | 11 | 10.7 | 5 |
| 024-408 | 3/8" | 11/16" | 7/16" | 8 | 7.7 | 5 |
| 024-409 | | | | 13 | 12.7 | 5 |
| 024-410 | | | | 16 | 15.7 | 5 |
| | 1/2" | 15/16" | 9/16" | | 17.6 | 5 |
| 024-414 | | | | 19 | 18.6 | 5 |
| 024-415 | | | | 28 | 27.6 | 1 |
| 024-416 | | | | 40 | 39.4 | 1 |
| 024-417 | | 15/16" | 9/16" | 80 | 79.5 | 1 |
| | 1/2" | | | | 25.5 | 1 |
| 024-426 | 5/8" | 1-3/16" | 11/16" | 40 | 38.5 | 1 |
| 024-427 | | | 11/16" | 76 | 75.4 | 1 |
| 024-428 | | | 11/16" | 127 | 125 | 1 |
| | | | | | | |
| 024-433 | | | 13/16" | 100 | 98.5 | 1 |
| 024-434 | 3/4" | 1-7/16" | 13/16" | 110 | 108.5 | 1 |
| | | | 13/16" | | 109.5 | 1 |
| 024-435 | | | 13/16" | 187 | 185.5 | 1 |
| 024-440 | 7/8" | 1-11/16" | 15/16" | 120 | 118 | 1 |
| 024-441 | | | 15/16" | 156 | 154 | 1 |
| 024-442 | | | 15/16" | 256 | 253 | 1 |
| 024-446 | 1" | 2" | 1" | 300 | 297 | 1 |
| 024-447 | | | 1" | 352 | 349 | 1 |
| 024-448 | | | 1" | 424 | 421 | 1 |

Standard Forging Tolerances.
Also available 4140 and 8620 Alloy Steel special order.

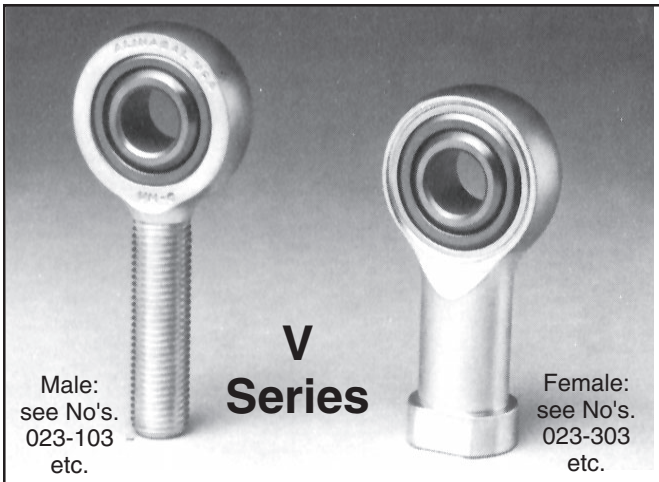
**Note:** All Rod End Eyebolts, whether in Blanks or fully machined, as detailed above, are covered by our standard warranty which appears in the front of this book. The warranty becomes **VOID** whenever modifications are made or further machining is done by the buyer, also in all cases where these items are subjected to an angular lift or pull.

**More Rod Ends on pages B272 & E81.**



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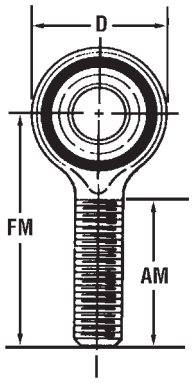

Male: see No's. 023-103 etc.

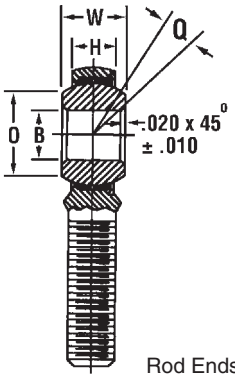
Female: see No's. 023-303 etc.

**V SERIES • MAINTENANCE-FREE CONSTRUCTION • SELF LUBRICATING • PLATED STEEL HOUSING • PHOSPHOR BRONZE RACE • HARDENED PLATED STEEL BALL**

Alinabal V Series rod ends combine a plated case hardened steel ball with self-lubricated sintered phosphor bronze race secured permanently in a mild steel, plated housing. This combination assures reduced frictional wear for longer life and superior resistance to corrosion.

V Series rod ends have been found to fulfill the widest range of applications and are an excellent general purpose rod end.

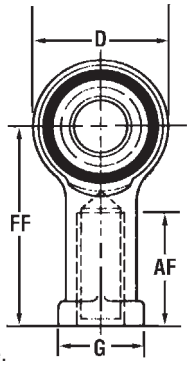


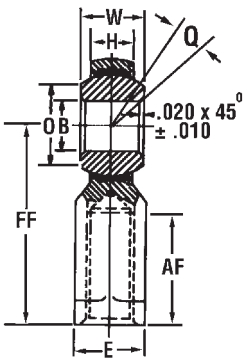




***ROD ENDS** in other styles materials and finish, or, 'with grease fittings', are available on "Special Order" basis. Allow us to quote on your needs.*

**PKG QTY. 1**

Rod Ends with Bearings furnished in Male or Female. See chart below.




| *Spaenaur No.* | | | | DIMENSIONS IN INCHES | | | | | | | | | | | | | | | Ultimate (Radial) Static Load Rating (lbs.) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LEFT-HAND | | RIGHT-HAND | | Thread | B | W | H | AM | FM | AF | FF | D | G | E | O | Ball Dia. | Q | Approx. Wt. | | |
| Male | Female | Male | Female | Class UNF-2 | +.0025 -.0005 | ±.005 | (Ref) | ±.060 | ±.030 | ±.060 | ±.030 | ±.010 | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (lbs.) | Male | Female |
| 023-119 | 023-317 | 023-103 | 023-303 | 10-32 | .1900 | .312 | .250 | .750 | 1.250 | .562 | 1.062 | .750 | .406 | .312 | .296 | .430 | ±11° | .04 | 1,600 | 1,800 |
| 023-117 | 023-314 | 023-104 | 023-304 | 1/4"-28 | .2500 | .375 | .281 | 1.000 | 1.562 | .750 | 1.312 | .750 | .468 | .375 | .346 | .510 | ±13° | .05 | 2,250 | 2,300 |
| 023-120 | 023-313 | 023-105 | 023-305 | 5/16"-24 | .3125 | .437 | .344 | 1.250 | 1.875 | .750 | 1.375 | .875 | .500 | .437 | .438 | .618 | ±11° | .08 | 2,850 | 2,900 |
| 023-114 | 023-316 | 023-106 | 023-306 | 3/8"-24 | .3750 | .500 | .406 | 1.250 | 1.938 | .937 | 1.625 | 1.000 | .687 | .562 | .508 | .713 | ±10° | .12 | 3,900 | 4,300 |
| — | — | 023-107 | 023-307 | 7/16"-20 | .4375 | .562 | .437 | 1.375 | - | 1.062 | 1.812 | 1.125 | .750 | .625 | .578 | .806 | ±12° | .17 | - | 5,350 |
| 023-115 | 023-318 | — | — | 7/16"-20 | .4375 | .562 | .437 | 1.375 | 2.125 | 1.062 | 1.812 | 1.250 | .750 | .625 | .578 | .806 | ±12° | .17 | 5,300 | 5,350 |
| 023-116 | 023-319 | 023-108 | 023-308 | 1/2"-20 | .5000 | .625 | .500 | 1.500 | 2.438 | 1.187 | 2.125 | 1.312 | .875 | .750 | .690 | .931 | ±10° | .27 | 7,400 | 8,400 |
| 023-118 | 023-320 | 023-110 | 023-310 | 5/8"-18 | .6250 | .750 | .562 | 1.625 | 2.625 | 1.500 | 2.500 | 1.500 | 1.000 | .875 | .801 | 1.098 | ±12° | .40 | 9,350 | 9,550 |
| 023-121 | 023-315 | 023-112 | 023-312 | 3/4"-16 | .7500 | .875 | .687 | 1.750 | 2.875 | 1.750 | 2.875 | 1.750 | 1.125 | 1.000 | 1.010 | 1.336 | ±10° | .62 | 10,450 | 10,500 |

## MATERIALS

**Housing -** Low carbon steel - plated for corrosion resistance.
**Race -** Sintered bronze - oil impregnated.
**Ball -** Low carbon steel - case hardened - plated for corrosion resistance and wear

**Temperature Range:** **-35°C to +150°C** (-30°F to +300°F)

More Rod Ends on pages B271 & E81.

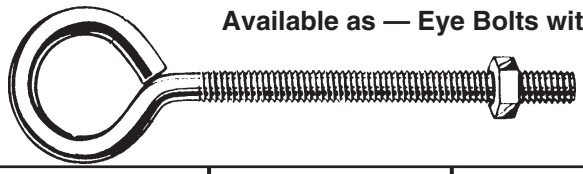



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# STEEL

## Bent Eye Bolts

ZINC PLATED
(Clear Chromate Finish)



**Available as — Eye Bolts with Nuts, Eye Bolts only and Nuts only.**

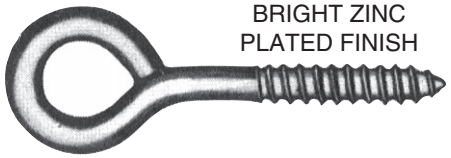
B

| EYE BOLTS with NUTS | | EYE BOLTS ONLY | | EYE BOLT DIMENSIONAL DATA | | | | | NUTS ONLY | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Dimensions are approximate. | | | | | |
| *SPAENAUR No.* (Bolt with Nut) | PKG QTY. | *SPAENAUR No.* (Bolt Only) | PKG QTY. | Thread | Shank Length | Thread Length | Overall Length | I.D. Eye | *SPAENAUR No.* (Nut Only) ASME B18.2.2 | PKG QTY. |
| | | 024-063 | 50 | 10-24 | 2" | 1-7/8" | 2-3/4" | 3/8" | 155-P08-1T | 100 |
| EYB-1 | 10 | | | | 2" | 2" | 2-3/4" | 3/8" | 155-P08-1T | 100 |
| EYB-23 | 10 | 024-023 | 50 | | 1-1/4" | 1-1/8" | 2" | 3/8" | 155-P08-1T | 100 |
| EYB-43 | 10 | 024-043 | 50 | | 2-1/4" | 2" | 3" | 3/8" | 155-P08-1T | 100 |
| 024-046-A | 10 | 024-045 | 50 | 1/4"-20 | 1-1/2" | 1-3/8" | 2-1/2" | 9/16" | 155-P06-1C | 100 |
| EYB-24B | 10 | 024-060 | 50 | | 1-7/8" | 1-1/2" | 2-5/8" | 3/8" | 155-P06-1C | 100 |
| 024-T55-1Y | 10 | 024-T40-2X | 50 | | 2-1/8" | 2" | 3" | 1/2" | 155-P06-1C | 100 |
| EYB-25A | 10 | 024-T41-2A | 50 | | 3-1/8" | 2-1/2" | 4" | 3/8" | 155-P06-1C | 100 |
| EYB-26A | 10 | | | 5/16"-18 | 2-1/8" | 2" | 3-1/4" | 1/2" | B-92 | 100 |
| EYB-27 | 10 | 024-027 | 25 | | 2-7/8" | 2-3/4" | 4" | 1/2" | B-92 | 100 |
| EYB-28 | 10 | 024-028 | 25 | | 3-7/8" | 3" | 5" | 1/2" | B-92 | 100 |
| | | 024-T45-1N | 25 | | 2-1/8" | 5" | 3-1/4" | 1/2" | B-92 | 100 |
| EYB-29 | 10 | 024-029 | 25 | 3/8"-16 | 2-1/4" | 2" | 4" | 1" | B-93 | 100 |
| EYB-30 | 10 | 024-030 | 20 | | 3-1/4" | 2-7/8" | 5" | 13/16" | B-93 | 100 |
| EYB-31 | 10 | 024-031 | 20 | | 4-1/4" | 2-3/4" | 6" | 1" | B-93 | 100 |
| EYB-32 | 10 | 024-032 | 10 | | 6-1/4" | 3" | 8" | 1" | B-93 | 100 |

# STEEL

## Lag Screw Eyes

BRIGHT ZINC
PLATED FINISH



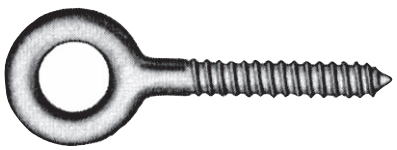
| *SPAENAUR No.* | Thread Diameter | Thread Length | Overall Length | Shank Length | I.D. Eye | PKG QTY. |
|---|---|---|---|---|---|---|
| EYB-38 | 5/16" | 2" | 3-7/8" | 2-3/4" | 5/8" | 10 |
| EYB-39 | 3/8" | 2-1/2" | 4-3/8" | 3" | 3/4" | 10 |

Dim. Tol. ± 1/16"

# STEEL

## Drop-forged Eye Bolts

**Hot Galvanized**



**SCREW EYE BOLTS**

| *SPAENAUR No.* | Shank Dia. and Length | I.D. Eye |
|---|---|---|
| EYB-33 | 1/4" x 2" | 1/2" |
| EYB-34 | 5/16" x 2-1/4" | 5/8" |
| EYB-35 | 3/8" x 2-1/2" | 3/4" |
| EYB-36 | 1/2" x 3-1/4" | 1" |
| EYB-37 | 5/8" x 4" | 1-1/4" |

**PKG QTY. 10**



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

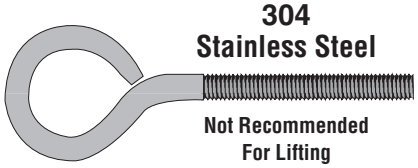


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## STAINLESS STEEL WROUGHT EYE BOLTS

(without nuts)

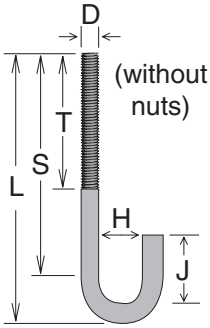


**304 Stainless Steel**

**Not Recommended For Lifting**

| *SPAENAUR No.* | Thread Dia. | Overall Length | Shank Length | Thread Length | Eye I. D. | PKG QTY. |
|---|---|---|---|---|---|---|
| **024-820** | 1/4"-20 | 2" | 1" | 7/8" | 1/2" | 50 |
| **024-821** | 1/4"-20 | 2-5/8" | 1-13/16" | 1-1/2" | 3/8" | 50 |
| **024-822** | 1/4"-20 | 3-1/2" | 2-1/2" | 1-1/2" | 9/16" | 50 |
| **024-823** | 1/4"-20 | 4" | 3" | 1-1/2" | 9/16" | 50 |
| **024-824** | 5/16"-18 | 3-1/8" | 2" | 1-1/4" | 5/8" | 25 |
| **024-825** | 5/16"-18 | 4" | 2-5/8" | 2" | 3/4" | 25 |
| **024-826** | 3/8"-16 | 4" | 2-1/2" | 1-1/2" | 3/4" | 10 |
| **024-827** | 3/8"-16 | 6" | 4-1/4" | 2-1/2" | 1" | 10 |
| **024-828** | 3/8"-16 | 8" | 6-1/4" | 2-1/2" | 1" | 10 |
| **024-829** | 1/2"-13 | 4" | 2" | 1-1/2" | 1" | 10 |
| **024-830** | 1/2"-13 | 6" | 4" | 2-1/2" | 1" | 10 |
| **024-831** | 1/2"-13 | 8" | 6" | 4" | 1" | 1 |

## *J-Bolts*

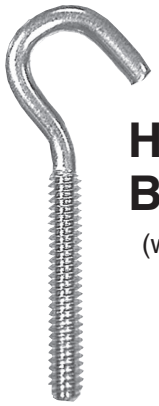



(without nuts)

**Material: STEEL, Bright Zinc Plated**

| *SPAENAUR No.* | Thd. Dia. (D) | Thd. Lg. (T) | Hook Opg. (H) | O.A. Lg. (L) | Ins. Dpth. (J) | PKG QTY. |
|---|---|---|---|---|---|---|
| **030-020** | 10-24 | 1-1/4" | 5/16" | 1-7/8" | 5/16" | 50 |
| **030-021** | 12-24 | 1-1/4" | 3/8" | 2-1/8" | 3/8" | 50 |
| **030-022** | 1/4"-20 | 1-1/2" | 7/16" | 2-5/16" | 7/16" | 25 |
| **030-023** | 1/4"-20 | 2" | 1/2" | 4" | 1/2" | 25 |
| **030-024** | 1/4"-20 | 2-1/2" | 1/2" | 5" | 1/2" | 25 |
| **030-025** | 1/4"-20 | 2-1/2" | 5/8" | 6" | 7/8" | 25 |
| **030-026** | 5/16"-18 | 2" | 1/2" | 3" | 1/2" | 10 |
| **030-027** | 5/16"-18 | 2" | 5/8" | 4" | 5/8" | 10 |

| *SPAENAUR No.* | Thd. Dia. (D) | Thd. Lg. (T) | Hook Opg. (H) | O.A. Lg. (L) | Ins. Dpth. (J) | PKG QTY. |
|---|---|---|---|---|---|---|
| **030-028** | 5/16"-18 | 2-1/2" | 5/8" | 5" | 5/8" | 10 |
| **030-029** | 5/16"-18 | 2-1/2" | 5/8" | 6" | 5/8" | 10 |
| **030-030** | 5/16"-18 | 3-7/8" | 5/8" | 7" | 7/8" | 10 |
| **030-031** | 3/8"-16 | 2-1/4" | 5/8" | 3-3/4" | 5/8" | 10 |
| **030-032** | 3/8"-16 | 2-1/4" | 5/8" | 5" | 7/8" | 10 |
| **030-033** | 3/8"-16 | 2-1/4" | 5/8" | 7" | 7/8" | 10 |
| **030-034** | 1/2"-13 | 3" | 1" | 6" | 1-1/2" | 10 |



## Hook Bolts

(without nuts)

**Material: STEEL, Zinc Plated**

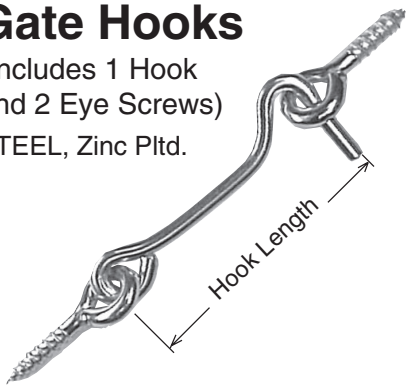
| *SPAENAUR No.* | Thread Dia. | Thread Length | Hook Opening | Overall Length | Shank Length | PKG QTY. |
|---|---|---|---|---|---|---|
| **024-003** | 8-32 | 7/8" | 13/32" | 1-5/8" | 1-1/8" | 50 |
| **024-T42-1P** | 10-24 | 1-1/8" | 13/32" | 2-1/4" | 1-5/16" | 50 |
| **024-005** | 12-24 | 1-3/8" | 1/2" | 2-3/16" | 1-1/2" | 50 |
| **024-006** | 1/4"-20 | 1-1/2" | 1/2" | 2-5/8" | 1-7/8" | 25 |
| **024-007** | 5/16"-18 | 2" | 7/16" | 3-1/2" | 2-1/4" | 10 |
| **024-008** | 3/8"- 16 | 2-1/8" | 5/8" | 4" | 2-3/8" | 10 |
| **024-009** | 3/8"-16 | 3-1/4" | 5/8" | 4-3/4" | 3-3/8" | 10 |

## Gate Hooks

(Includes 1 Hook and 2 Eye Screws)

STEEL, Zinc Pltd.

| *SPAENAUR No.* | Screw Gauge | Hook Length | Wire Dia. | PKG QTY. |
|---|---|---|---|---|
| **024-T06-1C** | #10 | 3" | .177" | 25 |

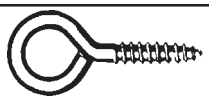





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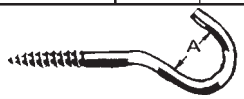
B

# STEEL



## Steel - Zinc Plated
## SCREW EYES

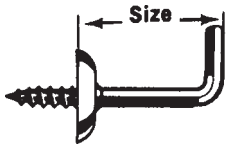
| SPAENAUR No. | Screw Gauge | Approx. Lgth. Overall | Wire Dia. | Eye I.D. | Shank Length | PKG QTY. |
|---|---|---|---|---|---|---|
| 024-T04-1P | 1 | 15/32 | .054 | 1/8 | 7/32 | 100 |
| 024-013 | 2 | 11/16 | .062 | 1/8 | 3/8 | 100 |
| 024-035 | 1 | 3/4 | .062 | 13/64 | 13/32 | 100 |
| 024-034 | 3 | 15/16 | .080 | 1/4 | 1/2 | 100 |
| 024-036 | N/A | 15/16 | .105 | 9/32 | 3/8 | 100 |
| 024-012 | N/A | 1-1/8 | .135 | 5/16 | 1/2 | 100 |
| 024-020 | N/A | 1-7/16 | .148 | 21/64 | 3/4 | 100 |
| 024-021 | 12 | 1-11/16 | .177 | 13/32 | 29/32 | 100 |
| 024-018 | N/A | 1-15/16 | .212 | 15/32 | 1-1/32 | 100 |
| 024-014 | N/A | 2-1/16 | .225 | 1/2 | 1 | 100 |
| 024-T05-1A | 18 | 2-5/8 | .262 | 23/32 | 1-3/8 | 50 |




## Steel - Zinc Plated
## SCREW HOOKS

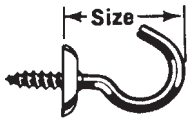
| SPAENAUR No. | Screw Gauge | Approx. Lgth. Overall | Wire Dia. | A | PKG QTY. |
|---|---|---|---|---|---|
| 024-066 | 3 | 1-5/16 | .080 | 1/4 | 100 |
| 024-068 | N/A | 1-11/16 | .105 | 11/32 | 100 |
| 024-065 | 6 | 1-7/8 | .120 | 3/8 | 100 |
| 024-015 | N/A | 2-9/16 | .160 | 9/16 | 100 |
| 024-019 | 12 | 2-13/16 | .177 | 5/8 | 100 |
| 024-160 | 14 | 3-3/8 | .192 | 3/4 | 100 |
| 024-161 | 16 | 3-3/4 | .232 | 7/8 | 50 |
| 024-017 | N/A | 4-7/16 | .264 | 1 | 50 |
| 024-062 | N/A | 4-11/16 | .283 | 1-1/16 | 50 |
| 024-016 | N/A | 4-15/16 | .306 | 1-1/8 | 25 |

# BRASS




## Solid Brass
## SHOULDER HOOKS
**Base Firmly Attached**

| SPAENAUR No. | Size | Wire Dia. | Approx. Lgth. Overall | PKG QTY. |
|---|---|---|---|---|
| 025-001 | 1/2" | .720" | 3/4" | 100 |
| 025-004 | 3/4" | .091" | 1-1/8" | 100 |
| 025-102 | 1" | .120" | 1-1/2" | 100 |
| 025-103 | 1-1/2" | .150" | 2-1/8" | 100 |




## Solid Brass
## CUP HOOKS
**Base Firmly Attached**

| SPAENAUR No. | Size | Wire Dia. | Approx. Lgth. Overall | PKG QTY. |
|---|---|---|---|---|
| 025-B01-1W | 1/2" | .072" | 7/8" | 100 |
| 025-003 | 5/8" | .080" | 15/16" | 100 |
| 025-005 | 3/4" | .091" | 1-1/8" | 100 |
| 025-B02-1M | 7/8" | .105" | 1-5/16" | 100 |
| 025-002 | 1-3/16" | .120" | 1-1/2" | 100 |
| 025-006 | 1-1/4" | .135" | 1-7/8" | 50 |
| 025-110 | 1-1/2" | .150" | 2-1/8" | 50 |

**Larger size "Screw Eyes" also "Eye Bolts" shown on pages B267-B274, B276 & B277.**

# TURNBUCKLES

(See chart below for size data)

See page B277 for
**Drop Forged Steel TURNBUCKLES**

**Made with ZINC ALLOY TURNBUCKLE BODY**
**STEEL HOOKS and EYES - zinc chromate plated**



EYE & EYE



HOOK & EYE



HOOK & HOOK

| SPAENAUR No. Turnbuckle Body Only | SPAENAUR No. and Style: Eye & Eye | Hook & Eye | Hook & Hook | Thread (in inches) | Closed (in inches) | Open (in inches) | Body Length (in inches) | I.D. Eye (in inches) | PKG QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 024-555 | 024-537 | 024-543 | 024-549 | #8-32 | 3-1/8 | 4-3/8 | 1-7/8 | 7/64 | 10 |
| 024-556 | 024-538 | 024-544 | 024-550 | #10-24 | 4 | 5-5/8 | 2-3/8 | 9/32 | 10 |
| 024-557 | 024-539 | | 024-551 | #12-24 | 4-1/2 | 6-3/8 | 1-7/8 | 5/16 | 10 |
| | | 024-545 | | #12-24 | 4-1/2 | 6-3/8 | 2-5/8 | 5/16 | 10 |
| | | 024-546 | | 1/4-20 | 5-1/4 | 7-3/8 | 2-1/8 | 3/8 | 10 |
| 024-558 | 024-540 | | 024-552 | 1/4-20 | 5-1/4 | 7-3/8 | 3 | 3/8 | 10 |
| | | | | 1/4-20 | 5-1/2 | 7-5/8 | 3 | 5/16 | 10 |
| | | | 024-553 | 5/16-18 | 6-1/4 | 8-7/8 | 2-5/8 | 5/16 | 10 |
| 024-559 | 024-541 | 024-547 | | 5/16-18 | 6-1/4 | 8-7/8 | 3-5/8 | 5/16 | 10 |
| 024-560 | | | | 3/8-16 | 7-1/2 | 10-5/8 | 3-1/8 | 3/4 | 10 |
| | | 024-548 | 024-554 | 3/8-16 | 7-1/2 | 10-5/8 | 4-3/8 | 3/4 | 10 |
| | 024-542 | | | 3/8-16 | 7-1/2 | 10-5/8 | 4-3/8 | 3/4 | 10 |

**Above Nos. Include Turnbuckle Body.**



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# STAINLESS STEEL Type 304-Forged




**PKG QTY. 1 (ALL ITEMS ON THIS PAGE)**

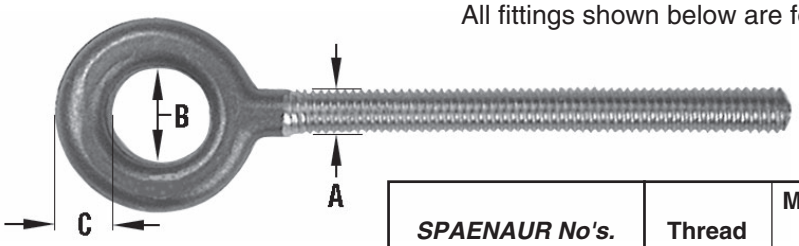
| *SPAENAUR No.* | Thread Dia. | Take-Up Length | Overall Length |
|---|---|---|---|
| **024-856** | 3/8"-16 | 6" | 7" |
| **024-900** | 3/8"-16 | 6" | 7" |
| ***024-T01-1M** | 1/2"-13 | 6" | 7-1/4" |
| ***024-T48-1W** | 5/8"-11 | 6" | 7-1/2" |
| ***024-T44-1C** | 3/4"-10 | 6" | 8" |

## TURNBUCKLE BODY

with 1 right hand (RH) thread and 1 left hand (LH) thread.

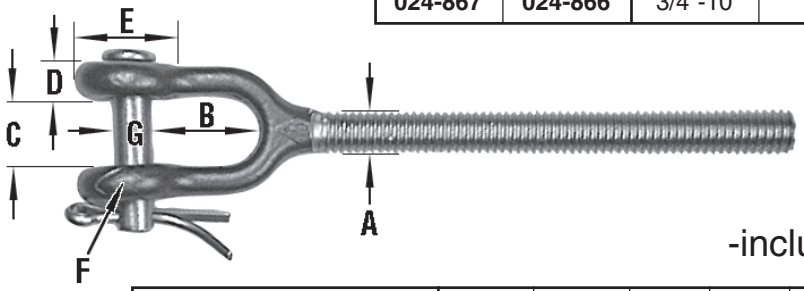
*316 Stainless Steel

**N.B.** Be sure to order both Right and Left fittings to go with each Turnbuckle ordered.
All fittings shown below are for 6" take-up length turnbuckle body.




## ROUND EYE

| *SPAENAUR No's.* L.H. Thread | R.H. Thread | Thread Dia. A | Minimum Shank Length | B | C | Rated Capacity |
|---|---|---|---|---|---|---|
| **024-861** | **024-860** | 3/8"-16 | 4" | 3/4" | 3/8" | 1200 lbs. |
| **024-863** | **024-862** | 1/2"-13 | 4" | 1" | 7/16" | 2100 lbs. |
| | **024-864** | 5/8"-11 | 5" | 1-3/8" | 9/16" | 3200 lbs. |
| **024-867** | **024-866** | 3/4"-10 | 5" | 1-1/2" | 21/32" | 5000 lbs. |

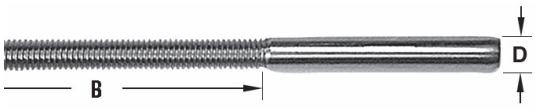



## JAW

-includes Clevis and Cotter Pin.

| *SPAENAUR No's.* L.H. Thread | R.H. Thread | Thread Dia. A | Min. Shank Length | B | C | D | E | O/A Dia. F | Pin Dia. G | Rated Capacity |
|---|---|---|---|---|---|---|---|---|---|---|
| ***024-T56-1C** | ***024-T57-1N** | 3/8"-16 | 4" | 13/16" | 9/16" | 3/8" | 9/16" | 13/16" | 5/16" | 1200 lbs. |
| **024-871** | **024-870** | 1/2"-13 | 4" | 1" | 3/4" | 3/8" | 3/4" | 1" | 7/16" | 2100 lbs. |
| **024-873** | **024-872** | 5/8"-11 | 5" | 1-5/16" | 3/4" | 7/16" | 1" | 1-5/16" | 1/2" | 3200 lbs. |

*316 Stainless Steel




## STUB END

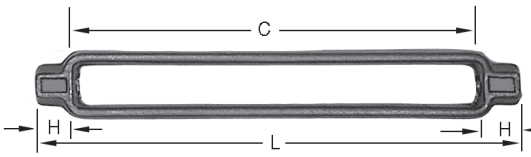
| *SPAENAUR No's.* L.H. Thread | R.H. Thread | Thread Dia. A | Minimum Thread Length B | Diameter D | Overall Length | Rated Capacity |
|---|---|---|---|---|---|---|
| **024-877** | **024-876** | 3/8"-16 | 3-5/8" | 3/8" | 6-1/2" | 1200 lbs. |
| ***024-T43-1Y** | ***024-T49-1M** | 1/2"-13 | 3-3/4" | 1/2" | 7" | 2200 lbs. |
| ***024-T51-1M** | ***024-T50-1W** | 5/8"-11 | 4" | 5/8" | 7-1/2" | 3500 lbs. |
| ***024-T53-1A** | ***024-T52-1X** | 3/4"-10 | 4-1/8" | 3/4" | 8" | 5200 lbs. |

*316 Stainless Steel



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## Drop Forged 1030 Steel Heat Treated




# Turnbuckle BODY

(with 1 right hand & 1 left hand thread)

Class 2B UNC Coarse Thread (Right & Left)

***HOT GALVANIZED Finish***

B

| *SPAENAUR No.* | Thread Size | ▲C Take-Up | H Head Length | L O/A Length | (Rated capacity is figured with safety factor to 5 to 1) Rated Capacity kg | Rated Capacity lbs. | Approx. Weight per 100 pieces kg | Approx. Weight per 100 pieces lbs. |
|---|---|---|---|---|---|---|---|---|
| 024-200 | 1/4"-20 | 4" | 13/32" | 4-13/16" | 227 | 500 | 6.0 | 14 |
| 024-201 | 5/16"-18 | 4-1/2" | 17/32" | 5-9/16" | 363 | 800 | 9.5 | 21 |
| 024-202 | 3/8"-16 | 6" | 9/16" | 7-1/8" | 544 | 1,200 | 17.2 | 38 |
| 024-204 | 1/2"-13 | 6" | 3/4" | 7-1/2" | 998 | 2,200 | 30.0 | 66 |
| 024-205 | | 9" | | 10-1/2" | | | 38.6 | 85 |
| 024-206 | | 12" | | 13-1/2" | | | 46.2 | 102 |
| 024-207 | 5/8"-11 | 3" | 7/8" | 4-3/4" | 1,588 | 3,500 | 22.7 | 50 |
| 024-208 | | 6" | 15/16" | 7-7/8" | | | 41.3 | 91 |
| 024-209 | | 9" | 15/16" | 10-7/8" | | | 59.4 | 131 |
| 024-210 | | 12" | 15/16" | 13-7/8" | | | 78.5 | 173 |
| 024-211 | 3/4"-10 | 6" | 1-1/8" | 8-1/4" | 2,359 | 5,200 | 58.5 | 129 |
| 024-212 | | 9" | | 11-1/4" | | | 86.6 | 191 |
| 024-213 | | 12" | | 14-1/4" | | | 110.2 | 243 |
| 024-214 | | 18" | | 20-1/4" | | | 152.9 | 337 |
| 024-215 | 7/8"-9 | 6" | 1-5/16" | 8-5/8" | 3,266 | 7,200 | 88.9 | 196 |
| 024-216 | | 12" | | 14-5/8" | | | 140.6 | 310 |
| 024-217 | | 18" | | 20-5/8" | | | 264.9 | 584 |
| 024-218 | 1"-8 | 6" | 1-1/2" | 9" | 4,536 | 9,800 | 126.2 | 279 |
| 024-219 | | 12" | | 15" | | | 173.7 | 383 |
| 024-220 | | 18" | | 21" | | | 265.7 | 566 |

Turnbuckle bodies, as listed at left, are for use with TURNBUCKLE FITTINGS as listed below, and on page B278.

Be sure to **order both Right and Left fittings** to go with each Turnbuckle ordered.

▲ Take-up length of turnbuckle fittings are referenced to total inside length of turnbuckle bodies when assembled.

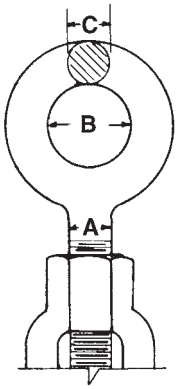
**Note: All Tundbuckle Components on this page are PKG QTY. 1**

## Drop Forged 1030 Steel

# Turnbuckle EYE Fittings

***HOT GALVANIZED Finish***

Eye Fittings are threaded **RIGHT Hand or LEFT Hand**




(Turnbuckle Body not included)

| *SPAENAUR No.* LEFT HAND Thread | *SPAENAUR No.* RIGHT HAND Thread | A Thread Size | ▲ Take-Up | B I.D. of Eye | C Stock Dia. | (Rated capacity is figured with safety factor of 5 to 1) Rated Capacity kg | Rated Capacity lbs. | Approx. Weight per 100 pieces kg | Approx. Weight per 100 pieces lbs. |
|---|---|---|---|---|---|---|---|---|---|
| 024-172 | 024-335 | 1/4"-20 | 4" | 1/2" | 7/32" | 227 | 500 | 3.2 | 7 |
| 024-223 | 024-224 | 5/16"-18 | 4-1/2" | 5/8" | 9/32" | 363 | 800 | 5.4 | 12 |
| 024-225 | 024-226 | 3/8"-16 | 6" | 3/4" | 11/32" | 544 | 1,200 | 10.4 | 23 |
| 024-227 | 024-228 | 1/2"-13 | 6" | 1" | 7/16" | 998 | 2,200 | 21.8 | 48 |
| 024-229 | 024-230 | | 9" | | | | | 25.4 | 56 |
| 024-231 | 024-232 | | 12" | | | | | 26.3 | 58 |
| 024-233 | 024-234 | 5/8"-11 | 6" | 1-1/4" | 17/32" | 1,588 | 3,500 | 37.7 | 83 |
| 024-235 | 024-236 | | 9" | | | | | 43.5 | 96 |
| 024-237 | 024-238 | | 12" | | | | | 49.0 | 108 |
| 024-239 | 024-240 | 3/4"-10 | 6" | 1-1/2" | 5/8" | 2,359 | 5,200 | 56.7 | 125 |
| 024-241 | 024-242 | | 9" | | | | | 62.1 | 137 |
| 024-243 | 024-244 | | 12" | | | | | 72.6 | 160 |
| 024-245 | 024-246 | | 18" | | | | | 90.7 | 200 |
| 024-249 | 024-250 | 7/8"-9 | 12" | 1-3/4" | 7/8" | 3,266 | 7,200 | 110.7 | 244 |
| 024-251 | 024-252 | | 18" | | | | | 129.7 | 286 |
| 024-253 | 024-254 | 1"-8 | 6" | 2" | 7/8" | 4,536 | 10,000 | 120.7 | 266 |
| 024-255 | 024-256 | | 12" | | | | | 145.6 | 321 |
| 024-257 | 024-258 | | 18" | | | | | 170.6 | 376 |

▲ Take-up length of turnbuckle fittings are referenced to total inside length of turnbuckle bodies when assembled.



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



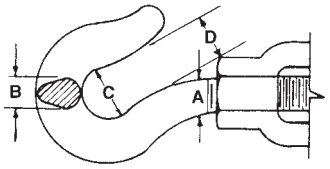
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B

# HOOK Fitting
## Drop Forged

**1030 Steel Heat Treated**

***HOT GALVANIZED Finish***




▲ Take-up length of turnbuckle fittings are referenced to total inside length of turnbuckle bodies when assembled.

Class 2B UNC Coarse Thread
**Right Hand and Left Hand**

∗ Rated capacity figured with safety factor of 5 to 1.

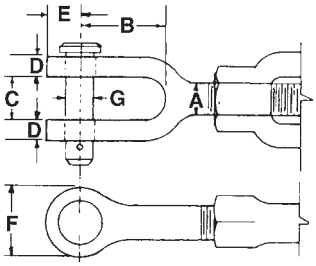
**PKG QTY. 1**

| *SPAENAUR No.* Threaded LEFT Hand | *SPAENAUR No.* Threaded RIGHT Hand | A Thread Size | ▲ Take-up | B | C Nominal Size | D Throat Size | ∗Rated Capacity kg | ∗Rated Capacity lbs. | Approx. Weight per 100 pieces kg | Approx. Weight per 100 pieces lbs. |
|---|---|---|---|---|---|---|---|---|---|---|
| — | 024-173 | 1/4"-20 | 4" | 7/32" | 5/16" | 9/32" | 136 | 300 | 3.2 | 7 |
| 024-261 | 024-262 | 5/16"-18 | 4-1/2" | 5/16" | 1/2" | 1/2" | 227 | 500 | 5.4 | 12 |
| 024-263 | 024-264 | 3/8"-16 | 6" | 3/8" | 1/2" | 1/2" | 318 | 700 | 10.4 | 23 |
| 024-265 | 024-266 | 1/2"-13 | 6" | 17/32" | 7/8" | 13/16" | 472 | 1,040 | 21.8 | 48 |
| 024-267 | 024-268 | | 9" | | | | | | 25.4 | 56 |
| 024-269 | 024-270 | | 12" | | | | | | 26.3 | 58 |
| 024-271 | 024-272 | 5/8"-11 | 6" | 5/8" | 29/32" | 27/32" | 726 | 1,600 | 37.7 | 83 |
| 024-273 | 024-274 | | 9" | | | | | | 43.5 | 96 |
| 024-275 | 024-276 | | 12" | | | | | | 49.0 | 108 |
| 024-277 | 024-278 | 3/4"-10 | 6" | 11/16" | 1-1/8" | 29/32" | 907 | 2,000 | 56.7 | 125 |
| 024-279 | 024-280 | | 9" | | | | | | 62.1 | 137 |
| 024-281 | 024-282 | | 12" | | | | | | 72.6 | 160 |
| 024-283 | 024-284 | | 18" | | | | | | 93.4 | 200 |
| 024-287 | 024-288 | 7/8"-9 | 12" | 13/16" | 1-3/16" | 1-1/16" | 1,089 | 2,400 | 110.7 | 244 |
| 024-289 | 024-290 | | 18" | | | | | | 129.7 | 286 |
| 024-291 | 024-292 | 1"-8 | 6" | 7/8" | 1-3/8" | 1-1/4" | 1,315 | 2,900 | 120.7 | 266 |
| 024-293 | 024-294 | | 12" | | | | | | 145.6 | 321 |
| 024-295 | 024-296 | | 18" | | | | | | 170.6 | 376 |

# JAW Fitting
## Drop Forged

**1030 Steel Heat Treated**

***HOT GALVANIZED Finish***




▲ Take-up length of turnbuckle fittings are referenced to total inside length of turnbuckle bodies when assembled.

Class 2B UNC Coarse Thread
**Right Hand and Left Hand**

■ **Note: Clevis and Cotter Pins ARE included.**

∗ Rated capacity figured with safety factor of 5 to 1.

**PKG QTY. 1**

| *SPAENAUR No.* Threaded LEFT Hand | *SPAENAUR No.* Threaded RIGHT Hand | A Thread Size | ▲ Take-up | B | C Jaw Space | D | E | F Over-all | ■ G Pin Dia. | ∗Rated Capacity kg | ∗Rated Capacity lbs. | Approx. Weight per 100 pieces kg | Approx. Weight per 100 pieces lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 024-174 | 024-175 | 1/4"-20 | 4" | 25/32" | 3/8" | 7/32" | 5/16" | 5/8" | 1/4" | 227 | 500 | 4.1 | 9 |
| 024-299 | 024-300 | 5/16"-18 | 4-1/2" | 7/8" | 15/32" | 1/4" | 5/16" | 5/8" | 1/4" | 363 | 800 | 6.8 | 15 |
| 024-301 | 024-302 | 3/8"-16 | 6" | 1" | 1/2" | 9/32" | 13/32" | 13/16" | 5/16" | 544 | 1,200 | 11.8 | 26 |
| 024-303 | 024-304 | 1/2"-13 | 6" | 1-9/32" | 5/8" | 5/16" | 1/2" | 1" | 7/16" | 998 | 2,200 | 24.5 | 54 |
| 024-305 | 024-306 | | 9" | | | | | | | | | 28.6 | 63 |
| 024-307 | 024-308 | | 12" | | | | | | | | | 30.8 | 68 |
| 024-309 | 024-310 | 5/8"-11 | 6" | 1-21/32" | 7/8" | 3/8" | 21/32" | 1-5/16" | 1/2" | 1,588 | 3,500 | 43.1 | 95 |
| 024-311 | 024-312 | | 9" | | | | | | | | | 49.4 | 109 |
| 024-313 | 024-314 | | 12" | | | | | | | | | 58.1 | 128 |
| 024-315 | 024-316 | 3/4"-10 | 6" | 1-27/32" | 15/16" | 1/2" | 13/16" | 1-5/8" | 5/8" | 2,359 | 5,200 | 76.3 | 155 |
| 024-317 | 024-318 | | 9" | | | | | | | | | 70.8 | 156 |
| 024-319 | 024-320 | | 12" | | | | | | | | | 83.5 | 184 |
| 024-321 | 024-322 | | 18" | | | | | | | | | 99.8 | 220 |
| 024-325 | 024-326 | 7/8"-9 | 12" | 1-31/32" | 1-5/32" | 9/16" | 29/32" | 1-7/8" | 3/4" | 3,266 | 7,200 | 137.0 | 302 |
| 024-327 | 024-328 | | 18" | | | | | | | | | 149.2 | 329 |
| 024-329 | 024-330 | 1"-8 | 6" | 2-13/32" | 1-3/16" | 11/16" | 1-1/16" | 2" | 7/8" | 4,536 | 10,000 | 159.2 | 351 |
| 024-331 | 024-332 | | 12" | | | | | | | | | 193.2 | 426 |
| 024-333 | 024-334 | | 18" | | | | | | | | | 215.5 | 475 |





For Forged Shackles see page E74

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# THUMBSCREWS

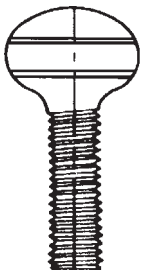
## COLD FORGED

## LOW CARBON STEEL

### ZINC PLATED

See page B281 for WING SCREWS

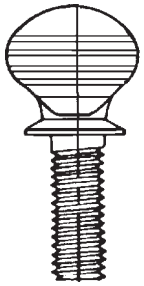
PKG QTY. 100



**Without Shoulder**

| DIA. | 6-32 | 8-32 | 10-24 | 10-32 | 1/4"-20 | 5/16"-18 | 3/8"-16 |
|---|---|---|---|---|---|---|---|
| Thrd. Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 3/8" | | TS-500 | TS-510 | | | | |
| 1/2" | | TS-502 | TS-512 | 565-064 | 565-034 | | |
| 5/8" | TS-1000 | | 565-030 | | | | |
| 3/4" | | TS-504 | TS-514 | 565-049 | TS-524 | *TS-534 | TS-542 |
| 1" | | TS-506 | TS-516 | | TS-526 | TS-536 | ▲TS-544 |
| 1-1/4" | | | | | TS-528 | | |
| 1-1/2" | | TS-508 | TS-520 | | TS-530 | TS-538 | TS-546 |
| 2" | | | TS-522 | TS-1001 | TS-532 | TS-540 | TS-548 |
| 2-3/4" | | | | | | | 565-050 |

▲**TS-544YZ** Yellow Zinc Pltd. *__565-063__ with Cup Point



**With Shoulder**

| DIA. | 6-32 | 8-32 | 10-24 | 10-32 | 1/4"-20 | 5/16"-18 | 3/8"-16 |
|---|---|---|---|---|---|---|---|
| Thrd. Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 3/8" | | TS-501 | | | | | |
| 1/2" | 565-051 | 565-054 | 565-057 | 565-059 | 565-031 | | |
| 3/4" | 565-052 | 565-055 | 565-033 | 565-060 | TS-525 | TS-535 | |
| 1" | | 565-056 | TS-517 | 565-061 | TS-527 | | |
| 1-1/2" | | | 565-058 | | | | |
| 2" | | | | | 565-032 | TS-541 | TS-549 |



**Without Shoulder**

**With Nylon Tip**

| DIA. | 6-32 | 8-32 | 10-24 | 10-32 | 1/4"-20 | 5/16"-18 | 3/8"-16 |
|---|---|---|---|---|---|---|---|
| Thrd. Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 1/2" | | 565-036 | | 565-038 | 565-041 | 565-044 | |
| 3/4" | | 565-037 | | 565-039 | 565-042 | 565-045 | |
| 1" | | | | 565-040 | 565-043 | 565-046 | 565-047 |
| 1-1/2" | | | | | | | 565-048 |

**PKG QTY. 10 of Nylon Tip Thumbscrews only.**

Page A59

**PLASTIKIT «PLASTIKIT» 804-089**

## THUMBSCREWS

**Cold Forged Steel**

**Zinc Plated**

**9 SIZES - 85 PIECES**






Size: 1" x 2-3/4" x 4-1/2"
Clear durable, plastic container



P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

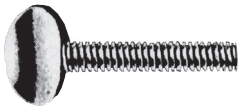


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B

# 18-8 STAINLESS STEEL
## THUMBSCREWS

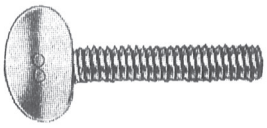
"A" 
WITH SHOULDER

"B" 
WITHOUT SHOULDER

| DIA. | A 10-24 | A 10-32 | B 10-24 | B 10-32 | B 1/4"-20 | B 5/16"-18 | B 3/8"-16 |
|---|---|---|---|---|---|---|---|
| Thread Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | |
| 1/2" | 567-809 | 567-A01-1X | | 567-819 | | | |
| 3/4" | TS-2004 | 567-808 | | | TS-2009 | 567-815 | TS-2014 |
| 1" | TS-2005 | 567-811 | | | TS-2010 | TS-2012 | TS-2015 |
| 1-1/4" | 567-810 | 567-812 | 567-814 | | | 567-816 | 567-817 |
| 1-1/2" | TS-2006 | 567-813 | 567-818 | | TS-2011 | TS-2013 | TS-2016 |
| | PKG QTY. 100 | | | | | | PKG QTY. 50 |

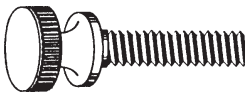
# BRASS
## THUMBSCREWS

**Without Shoulder**


COARSE THREAD

| DIA. | 1/4"-20 | 5/16"-18 | 3/8"-16 |
|---|---|---|---|
| Thread Length | ORDER BY *SPAENAUR* NUMBERS | | |
| 1/2" | TS-575 | TS-580 | |
| 3/4" | TS-576 | TS-581 | TS-587 |
| 1" | TS-577 | TS-582 | TS-588 |
| 1-1/4" | 566-001 | TS-583 | 566-002 |
| 1-1/2" | TS-578 | TS-584 | TS-590 |
| 2" | TS-579 | TS-585 | TS-591 |
| | PKG QTY. 100 | | PKG QTY. 10 |

# BRASS
## KNURLED THUMBSCREWS



Plain Brass only stocked.
Plated finishes
available to order at extra cost.

| DIA. | 4-36 | 4-40 | 6-32 | 8-32 | 10-24 | 10-32 | 12-24 | 1/4"-20 |
|---|---|---|---|---|---|---|---|---|
| Thread Lgth. | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | | | | |
| 1/4" | TS-550 | TS-592 | 566-A08-1W | | | | | |
| 3/8" | TS-551 | | 566-A06-1T | 566-A01-1A | | | | |
| 1/2" | TS-552 | | 566-A05-1N | 556-A07-1K | TS-563 | TS-566 | TS-569 | TS-572 |
| 3/4" | TS-553 | | 566-A09-1M | 566-A04-1C | TS-564 | 566-A03-1Y | TS-570 | TS-573 |
| 1" | | | TS-558 | TS-562 | TS-565 | 566-A02-1P | TS-571 | TS-574 |
| | PKG QTY. 100 | | | | | | | |

More Wing and Thumbscrews on B281 - B285



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# STEEL COLD FORGED WING SCREWS

**YELLOW ZINC CHROMATE PLATED**

**Contact Sales Desk For Package Quantities**



**with SHOULDER or BEARING FACE (our option).**

***Riveted-on* Head**

Other Styles
on page B279

B

| Dia./Thread | 8-32 | 10-24 | 1/4"-20 | 5/16"-18 | 3/8"-16 |
|---|---|---|---|---|---|
| WING SPREAD | 27/32" | 1-1/16" | 1-7/32" | 1-7/32" | 1-13/32" |
| Thread Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
| 3/8" | **565-001** | **565-008** | | | |
| 1/2" | **565-002** | **565-009** | | | |
| 3/4" | **565-003** | **565-010** | **565-015** | ***565-T01-1K** | **565-025** |
| 1" | **565-004** | **565-011** | **565-016** | ***565-021** | **565-026** |
| 1-1/4" | **565-005** | **565-012** | **565-017** | **565-022** | **565-027** |
| 1-1/2" | **565-006** | **565-013** | **565-018** | **565-023** | **565-028** |
| 2" | **565-007** | **565-014** | **565-019** | **565-024** | **565-029** |

*1-13/32" Wing Spread

## 18-8 STAINLESS STEEL

| Dia./Thread | 10-24 | 1/4"-20 | 5/16"-18 | 3/8"-16 |
|---|---|---|---|---|
| WING SPREAD | 1-1/16" | 1-7/32" | 1-7/32" | 1-13/32" |
| Thread Length | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | |
| 3/8" | **565-811** | **565-817** | **565-822** | |
| 1/2" | | **565-800** | | |
| 5/8" | **565-812** | **565-801** | | **565-828** |
| 3/4" | **565-813** | **565-802** | **565-804** | **565-806** |
| 1" | **565-814** | **565-803** | **565-805** | **565-807** |
| 1-1/4" | **565-815** | **565-818** | **565-824** | **565-829** |
| 1-3/8" | | | | **565-808** |
| 1-1/2" | **565-816** | **565-819** | **565-825** | **565-809** |
| 1-3/4" | | **565-820** | **565-826** | **565-830** |
| 2" | | **565-821** | **565-827** | **565-810** |



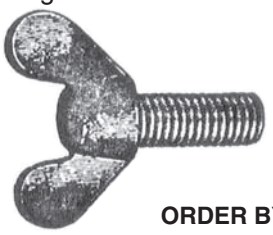
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# MALLEABLE IRON

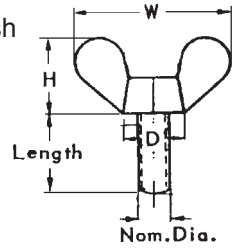
# CAST BRASS

**WING -** Malleable Casting
**SCREW -** Steel
**FINISH -** Zinc Plated

**DIN 316**



Plain Finish




**ISO Metric**
**Regular (coarse) Thread**
**6g** or **8g** Thread Fit - FULLY THREADED

| SIZE | THDS. PER INCH | DIA. D | Height H | Width W |
|---|---|---|---|---|
| | | mm | mm | mm |
| M4 | 36-1/4 | 8 | 10 | 20 |
| M5 | 31-3/4 | 10 | 12 | 25 |
| M6 | 25-1/2 | 12 | 16 | 32 |
| M8 | 20-1/4 | 16 | 20 | 40 |
| M10 | 17 | 20 | 25 | 50 |

**ORDER BY *SPAENAUR* NUMBERS LISTED BELOW**

| Length in mm | MALLEABLE IRON - Zinc Plated | | | | |
|---|---|---|---|---|---|
| | M4 | M5 | M6 | M8 | M10 |
| 8 | | | | | |
| 10 | 570-002 | 570-006 | 570-012 | | |
| 12 | 570-003 | | | 570-020 | |
| 16 | 570-004 | 570-008 | 570-014 | 570-021 | 570-031 |
| 20 | | 570-010 | 570-016 | 570-023 | 570-032 |
| 25 | | | 570-042 | 570-025 | 570-034 |
| 30 | | | 570-018 | 570-M01-1Y | 570-041 |
| 40 | | | | | 570-036 |
| 45 | | | | 570-028 | |
| 50 | | | | | 570-038 |
| 60 | | | | 570-030 | 570-039 |
| | PKG QTY. 100 | | | PKG QTY. 50 | |

| BRASS - Plain Finish | | | | |
|---|---|---|---|---|
| M4 | M5 | M6 | M8 | M10 |
| 571-050 | 571-054 | | | |
| 571-051 | 571-055 | 571-060 | | |
| | | 571-061 | 571-066 | |
| 571-052 | 571-056 | 571-062 | 571-067 | |
| | 571-057 | 571-063 | 571-068 | 571-071 |
| | 571-058 | | | |
| | 571-059 | 571-065 | 571-069 | 571-072 |
| | | | 571-W01-1P | 571-073 |
| | | | | 571-074 |
| PKG QTY. 100 | | | PKG QTY. 50 | |

# BRASS

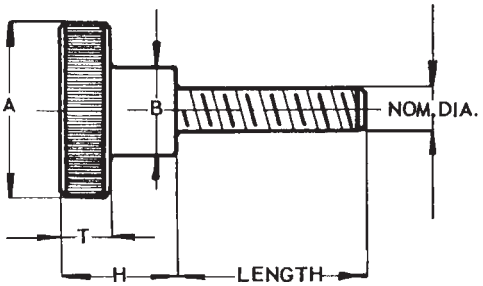
# Knurled Thumbscrews
# Vis à tête moletée

ISO
Regular (coarse)
Thread

**ISO METRIC**

**RAISED KNURLED HEAD SCREWS**

CONFORMING TO **DIN 464** REGULAR PITCH




| Length in mm | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW | | | | |
|---|---|---|---|---|---|
| | NOMINAL DIAMETER | | | | |
| | M3 | M4 | M5 | M6 | M8 |
| 5 | 571-001 | 571-007 | | | |
| 6 | | | 571-013 | | |
| 8 | 571-002 | 571-009 | | | |
| 10 | | | | 571-020 | |
| 12 | 571-005 | 571-011 | | | 571-025 |
| 16 | 571-006 | 571-012 | 571-017 | 571-022 | |
| 20 | | | 571-018 | | 571-027 |
| 25 | | | | 571-024 | 571-028 |
| | PKG QTY. 100 | | | PKG QTY. 25 | |

**DATA IN mm**

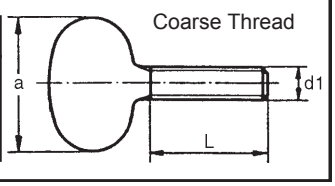
| SIZE | NOMINAL DIAMETER | | | | |
|---|---|---|---|---|---|
| | M3 | M4 | M5 | M6 | M8 |
| A | 12 | 16 | 20 | 24 | 30 |
| B | 6 | 8 | 10 | 12 | 16 |
| T | 2.5 | 3.5 | 4 | 5 | 6 |
| H | 7.5 | 9.5 | 11.5 | 15 | 18 |

# METRIC THUMBSCREWS

**Malleable Casting**
**Zinc Plated**

**PKG QTY. 50**

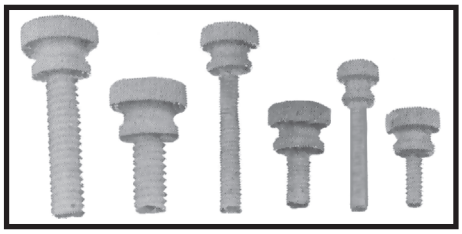
| *SPAENAUR No.* | d1 | L | a |
|---|---|---|---|
| 570-050 | M5 | 10 mm | 21 mm |
| 570-051 | M5 | 16 mm | 21 mm |
| 570-052 | M6 | 25 mm | 24 mm |

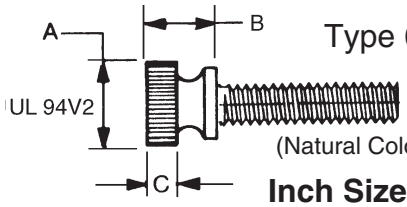





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## Thumbscrews





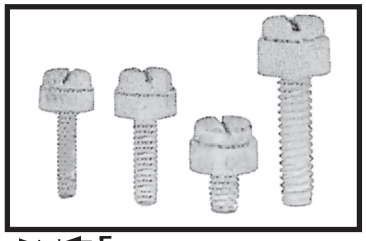

Type 6/6
(Natural Colour)

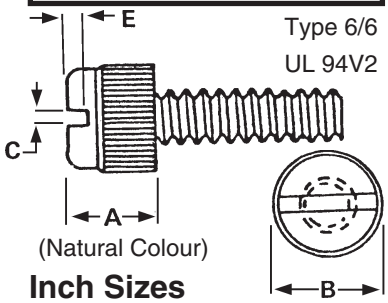
### Inch Sizes

| Thread Size | A | B | C |
|---|---|---|---|
| 4-40 | .300 | .280 | .120 |
| 6-32 | .360 | .275 | .125 |
| 8-32 | .425 | .305 | .140 |
| 10-24 | .425 | .325 | .140 |
| 10-32 | .425 | .325 | .140 |
| 1/4-20 | .540 | .365 | .155 |
| 5/16-18 | .625 | .406 | .171 |
| 3/8-16 | .687 | .437 | .187 |
| 1/2-13 | .750 | .468 | .203 |

| *SPAENAUR No.* | Thread Size | Length | PKG QTY. |
|---|---|---|---|
| 568-001 | 4-40 | 1/4 | 100 |
| 568-002 | 4-40 | 3/8 | 100 |
| 568-003 | 4-40 | 1/2 | 100 |
| 568-004 | 4-40 | 3/4 | 100 |
| 568-005 | 6-32 | 1/4 | 100 |
| 568-006 | 6-32 | 3/8 | 100 |
| 568-007 | 6-32 | 1/2 | 100 |
| 568-008 | 6-32 | 3/4 | 100 |
| 568-009 | 6-32 | 1 | 100 |
| 568-010 | 8-32 | 3/16 | 100 |
| 568-011 | 8-32 | 3/8 | 100 |
| 568-012 | 8-32 | 1/2 | 100 |
| 568-013 | 8-32 | 3/4 | 100 |
| 568-014 | 8-32 | 1 | 100 |
| 568-016 | 10-24 | 1/2 | 100 |
| 568-017 | 10-24 | 3/4 | 100 |
| 568-018 | 10-24 | 1 | 100 |
| 568-019 | 10-24 | 1-1/4 | 100 |
| 568-020 | 10-24 | 2 | 100 |
| 568-021 | 10-32 | 3/8 | 100 |
| 568-022 | 10-32 | 1/2 | 100 |
| 568-023 | 10-32 | 3/4 | 100 |
| 568-024 | 10-32 | 1 | 100 |
| 568-026 | 10-32 | 2 | 100 |
| 568-029 | 1/4-20 | 1/2 | 100 |
| 568-030 | 1/4-20 | 3/4 | 100 |
| 568-031 | 1/4-20 | 1 | 100 |
| 568-032 | 1/4-20 | 1-1/4 | 100 |
| 568-033 | 1/4-20 | 1-1/2 | 100 |
| 568-067 | 5/16-18 | 1/2 | 100 |
| 568-068 | 5/16-18 | 1 | 50 |
| 568-069 | 5/16-18 | 1-1/2 | 50 |
| 568-070 | 5/16-18 | 2 | 50 |
| 568-071 | 3/8-16 | 1/2 | 100 |
| 568-072 | 3/8-16 | 1 | 50 |
| 568-073 | 3/8-16 | 1-1/2 | 50 |
| 568-074 | 3/8-16 | 2 | 50 |
| 568-075 | 1/2-13 | 1/2 | 50 |
| 568-076 | 1/2-13 | 1 | 50 |
| 568-077 | 1/2-13 | 1-1/2 | 25 |
| 568-078 | 1/2-13 | 2 | 25 |

## CORROSION-RESISTANT NYLON 6/6 Thumbscrews





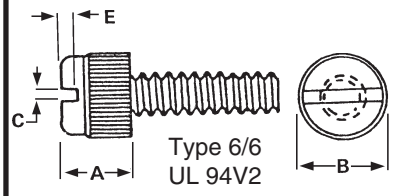

Type 6/6
UL 94V2
(Natural Colour)

### Inch Sizes

| Thread Size | A | B | C | E |
|---|---|---|---|---|
| 4-40 | .216 | .317 | .039 | .045 |
| 6-32 | .250 | .348 | .042 | .051 |
| 8-32 | .280 | .381 | .049 | .059 |
| 10-24 | .317 | .412 | .056 | .068 |
| 10-32 | .317 | .412 | .056 | .068 |
| 1/4-20 | .326 | .492 | .070 | .088 |

| *SPAENAUR No.* | Thread Size | Length | PKG QTY. |
|---|---|---|---|
| 568-034 | 4-40 | 1/4 | 100 |
| 568-035 | 4-40 | 3/8 | 100 |
| 568-036 | 4-40 | 1/2 | 100 |
| 568-037 | 4-40 | 3/4 | 100 |
| 568-038 | 6-32 | 1/4 | 100 |
| 568-039 | 6-32 | 3/8 | 100 |
| 568-040 | 6-32 | 1/2 | 100 |
| 568-041 | 6-32 | 3/4 | 100 |
| 568-042 | 6-32 | 1 | 100 |
| 568-043 | 8-32 | 1/4 | 100 |
| 568-044 | 8-32 | 3/8 | 100 |
| 568-045 | 8-32 | 1/2 | 100 |
| 568-046 | 8-32 | 3/4 | 100 |
| 568-047 | 8-32 | 1 | 100 |
| 568-053 | 10-24 | 1/4 | 100 |
| 568-048 | 10-24 | 3/8 | 100 |
| 568-049 | 10-24 | 1/2 | 100 |
| 568-050 | 10-24 | 3/4 | 100 |
| 568-051 | 10-24 | 1 | 100 |
| 568-052 | 10-24 | 1-1/4 | 100 |
| 568-059 | 10-32 | 1/4 | 100 |
| 568-054 | 10-32 | 3/8 | 100 |
| 568-055 | 10-32 | 1/2 | 100 |
| 568-056 | 10-32 | 3/4 | 100 |
| 568-057 | 10-32 | 1 | 100 |
| 568-058 | 10-32 | 1-1/4 | 100 |
| 568-060 | 1/4-20 | 1/4 | 100 |
| 568-061 | 1/4-20 | 3/8 | 100 |
| 568-062 | 1/4-20 | 1/2 | 100 |
| 568-063 | 1/4-20 | 3/4 | 100 |
| 568-064 | 1/4-20 | 1 | 100 |
| 568-065 | 1/4-20 | 1-1/4 | 100 |
| 568-066 | 1/4-20 | 1-1/2 | 100 |

## METRIC
## MOLDED NYLON 6/6




Type 6/6
UL 94V2

### Slotted Thumbscrew

(Natural Colour)
Metric (COARSE) Thread
**ALL DIMENSIONS IN MILLIMETRES**

| THREAD SIZE | A | B | C | E |
|---|---|---|---|---|
| M3 x .5 | 5.2 | 7.6 | 1.0 | 1.1 |
| M3.5 x .6 | 6.1 | 8.5 | 1.1 | 1.3 |
| M4 x .7 | 7.1 | 9.4 | 1.2 | 1.5 |
| M5 x .8 | 7.7 | 10.0 | 1.3 | 1.5 |
| M6 x 1.0 | 7.75 | 12.21 | 1.14 | 1.53 |

| *SPAENAUR No.* | Thread Size & Length | PKG QTY. |
|---|---|---|
| 568-100 | M3 x .5 x 5 mm | 100 |
| 568-101 | M3 x .5 x 6 mm | 100 |
| 568-102 | M3 x .5 x 8 mm | 100 |
| 568-103 | M3 x .5 x 10 mm | 100 |
| 568-104 | M3 x .5 x 12 mm | 100 |
| 568-105 | M3 x .5 x 16 mm | 100 |
| 568-106 | M3 x .5 x 20 mm | 100 |
| 568-107 | M3 x .5 x 25 mm | 100 |
| 568-108 | M3 x .5 x 30 mm | 100 |
| 568-109 | M3.5 x .6 x 5 mm | 100 |
| 568-110 | M3.5 x .6 x 6 mm | 100 |
| 568-111 | M3.5 x .6 x 8 mm | 100 |
| 568-112 | M3.5 x .6 x 10 mm | 100 |
| 568-113 | M3.5 x .6 x 12 mm | 100 |
| 568-114 | M3.5 x .6 x 16 mm | 100 |
| 568-115 | M3.5 x .6 x 20 mm | 100 |
| 568-116 | M3.5 x .6 x 25 mm | 100 |
| 568-117 | M3.5 x .6 x 35 mm | 100 |
| 568-118 | M4 x .7 x 6 mm | 100 |
| 568-119 | M4 x .7 x 8 mm | 100 |
| 568-120 | M4 x .7 x 10 mm | 100 |
| 568-121 | M4 x .7 x 12 mm | 100 |
| 568-122 | M4 x .7 x 16 mm | 100 |
| 568-123 | M4 x .7 x 20 mm | 100 |
| 568-124 | M4 x .7 x 25 mm | 100 |
| 568-125 | M5 x .8 x 6 mm | 100 |
| 568-126 | M5 x .8 x 8 mm | 100 |
| 568-127 | M5 x .8 x 10 mm | 100 |
| 568-128 | M5 x .8 x 12 mm | 100 |
| 568-129 | M5 x .8 x 16 mm | 100 |
| 568-130 | M5 x .8 x 20 mm | 100 |
| 568-131 | M5 x .8 x 25 mm | 100 |
| 568-132 | M5 x .8 x 30 mm | 100 |
| 568-133 | M5 x .8 x 40 mm | 100 |
| 568-134 | M6 x 1.00 x 8 mm | 50 |
| 568-135 | M6 x 1.00 x 10 mm | 50 |
| 568-136 | M6 x 1.00 x 12 mm | 50 |
| 568-137 | M6 x 1.00 x 16 mm | 50 |
| 568-138 | M6 x 1.00 x 20 mm | 50 |
| 568-139 | M6 x 1.00 x 25 mm | 50 |
| 568-140 | M6 x 1.00 x 35 mm | 50 |
| 568-141 | M6 x 1.00 x 45 mm | 50 |





P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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B

# THUMB SCREW KNOBS

**Make any quantity -any size - as needed.**



**Use Shear-Loc KNOBS, plus 1960 Series Socket Head Cap Screws.**

U.S.A. PATENT NO. 3,529,508
PATENT PENDING IN OTHER COUNTRIES

## Make your own Thumbscrews... instantly.

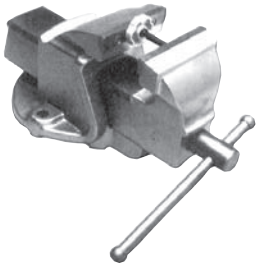
**1** Select a standard hex socket head cap screw



**2** Select a standard Shear-Loc Knob



**3** Select a way to press and cold-form together





**4** YOUR INSTANT THUMBSCREW



Shear-Loc Knobs are made of tough “DELRIN 500™”.

## REGULAR and LARGE Size Thumbscrew Knob Assortments

**ASSORTMENT / ASSORTIMENT 805-418**

**Inch SHEAR-LOC® THUMBSCREW KNOBS**

**24 VARIETIES - 507 PIECES**

For use with Hex Socket Cap Screws in inch sizes #4 to 3/8" dia.
Delrin Plastic - Black, Grey, Red

REGULAR SIZE Drawer:
13-5/16" x 9-1/4" x 2"
Shipping weight: **2.9 kg** (6.5 lbs.)



805-418

**ASSORTMENT / ASSORTIMENT 805-419**

**Metric SHEAR-LOC® THUMBSCREW KNOBS**

**22 VARIETIES - 456 PIECES**

For use with Metric Hex Socket Cap Screws in diameters **M3 to M10**.
Delrin Plastic - Black, Grey, Red

REGULAR SIZE Drawer:
13-5/16" x 9-1/4" x 2"
Shipping weight: **2.9 kg** (6.5 lbs.)



**For the complete assortment contents turn to A59**



**Page A60**

**ASSORTMENT / ASSORTIMENT 805-445**

**KNOBS – Inch and Metric SHEAR-LOC® TEE STYLE THUMBSCREW**

**24 VARIETIES - 510 PIECES**

REGULAR SIZE grey enamelled drawer.
Shipping weight: **2.7 kg** (6 lbs.)





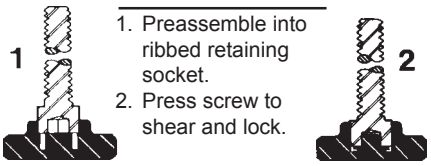
See page B285 for more Thumbscrews

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B

# THUMB SCREW KNOBS

See page B284 for more information




1. Preassemble into ribbed retaining socket.
2. Press screw to shear and lock.

**Shear-Loc Knobs are made of DuPont "Delrin 500." They are tough, and will endure all normal thumbscrew applications.**

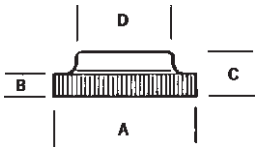
## INCH SIZES

| *SPAENAUR* NUMBERS BLACK | GRAY | RED | KNOB STYLE | USE WITH SCREW | Measurements in inches A | B | C | D | PKG QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 134-074 | 134-075 | 134-076 | FR | #4 | 5/16" | 9/64" | 11/64" | 9/32" | 100 |
| 134-077 | 134-078 | 134-079 | | #6 | 3/8" | 5/32" | 13/64" | 21/64" | 100 |
| 134-080 | 134-081 | 134-082 | | #8 | 1/2" | 5/32" | 7/32" | 3/8" | 100 |
| 134-083 | 134-084 | 134-085 | | #10 | 5/8" | 11/64" | 1/4" | 27/64" | 100 |
| 134-086 | 134-087 | 134-088 | | 1/4" | 3/4" | 11/64" | 5/16" | 31/64" | 100 |
| 134-089 | 134-090 | 134-091 | | 1/4" | 1" | 17/64" | 5/16" | 1/2" | 100 |
| 134-092 | 134-093 | 134-094 | | 5/16" | 1" | 17/64" | 3/8" | 19/32" | 100 |
| 134-095 | 134-096 | – | K | 5/16" | 1-1/2" | 3/8" | 13/32" | 19/32" | 50 |
| 134-097 | 134-098 | – | | 3/8" | 1-1/2" | 3/8" | 15/32" | 43/64" | 50 |

## METRIC SIZES

| *SPAENAUR* NUMBERS BLACK | GRAY | RED | KNOB STYLE | USE WITH SCREW | Measurements in mm A | B | C | D | PKG QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 134-500 | 134-501 | 134-502 | FR | M3 | 9.5 | 4.0 | 4.8 | 8.1 | 100 |
| 134-503 | 134-504 | 134-505 | | M4 | 13.0 | 4.0 | 5.5 | 10.0 | 100 |
| 134-506 | 134-507 | 134-508 | | M5 | 16.0 | 4.5 | 6.9 | 11.5 | 100 |
| 134-509 | 134-510 | 134-511 | | M6 | 19.0 | 4.5 | 7.8 | 13.1 | 100 |
| 134-512 | 134-513 | 134-514 | | M6 | 26.0 | 8.0 | 8.0 | 13.1 | 100 |
| 134-515 | 134-516 | 134-517 | | M8 | 26.0 | 7.7 | 10.0 | 16.0 | 100 |
| 134-518 | 134-519 | – | K | M8 | 38.0 | 10.0 | 10.0 | 16.0 | 50 |
| 134-520 | 134-521 | – | | M10 | 38.0 | 10.0 | 12.5 | 19.8 | 50 |

# THUMBSCREW KNOBS

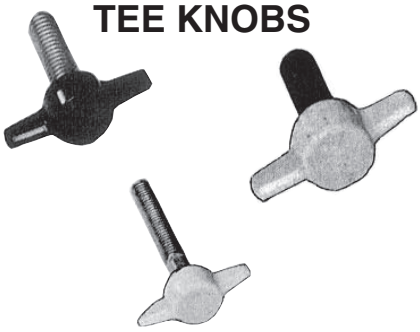


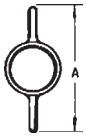

Knob Style **FR** (Fine Ribbed)



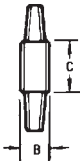
Knob Style **K**

# TEE KNOBS






TEE KNOB




## INCH SIZES

**USE ON 1960 SERIES HEX SOCKET HEAD CAP SCREWS**

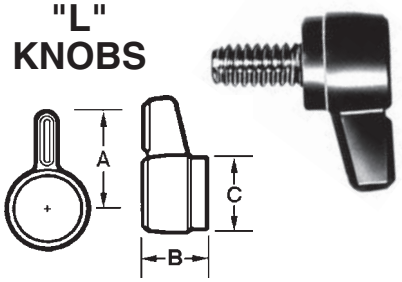
| *SPAENAUR* NUMBERS BLACK | GRAY | RED | KNOB STYLE | FITS SCREW | Measurements in inches A | B | C | PKG QTY. |
|---|---|---|---|---|---|---|---|---|
| 134-099 | 134-100 | 134-107 | TEE | #10 | 1" | 1/4" | 7/16" | 100 |
| 134-101 | 134-102 | 134-108 | | 1/4" | 1-1/4" | 5/16" | 33/64" | 100 |
| 134-103 | 134-104 | 134-109 | | 5/16" | 1-1/2" | 13/32" | 5/8" | 50 |
| 134-105 | 134-106 | 134-110 | | 3/8" | 1-3/4" | 15/32" | 23/32" | 50 |

## METRIC SIZES

**USE ON DIN 912 - JAPAN J.I.S. - BRITISH METRIC SERIES**

| *SPAENAUR* NUMBERS BLACK | GRAY | RED | KNOB STYLE | FITS SCREW | Measurements in mm A | B | C | PKG QTY. |
|---|---|---|---|---|---|---|---|---|
| 134-522 | 134-523 | 134-530 | TEE | M5 | 26 | 6.6 | 12 | 100 |
| 134-524 | 134-525 | 134-531 | | M6 | 30 | 7.8 | 13.5 | 100 |
| 134-526 | 134-527 | 134-532 | | M8 | 38 | 10 | 16.5 | 50 |
| 134-528 | 134-529 | 134-533 | | M10 | 45 | 12.5 | 20 | 50 |

# "L" KNOBS




## INCH SIZES

**USE ON 1960 SERIES HEX SOCKET HEAD CAP SCREWS**

| *SPAENAUR* NUMBERS BLACK | GRAY | RED | KNOB STYLE | FITS SCREW | Measurements in inches A | B | C | PKG QTY. |
|---|---|---|---|---|---|---|---|---|
| 134-111 | 134-114 | 134-117 | L | #10 | 9/16" | 11/32" | 29/64" | 100 |
| 134-112 | 134-115 | 134-118 | | 1/4" | 11/16" | 7/16" | 33/64" | 100 |
| 134-113 | 134-116 | 134-119 | | 5/16" | 27/32" | 17/32" | 41/64" | 50 |

**Yellow Colour also available on Special Order.**



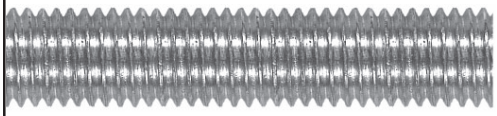
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# STEEL THREADED RODS

Right-hand Threads
THREADED FULL LENGTH



## Inch Sizes

Grade: C1010 (or better)
ASTM spec A-307
Minimum tensile strength
50,000 to 60,000 psi

The versatile do-it-yourself rod for making U-bolts, eye-bolts, hangers, ladder rungs, and many types of special items. Cold-drawn steel bends easily without heating. Just cut to desired length and use.

## Finishes: Plain and Zinc Plated

**All Threaded Rods shown below: PKG QTY 1.**

B

| THREAD SIZE | ORDER BY *SPAENAUR* NUMBERS LISTED BELOW — * Zinc Plated | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Plain 24" Lgth. | Zinc Pltd. 24" Lgth. | Plain 36" Lgth. | Zinc Pltd. 36" Lgth. | Plain 72" Lgth. | Zinc Pltd. 72" Lgth. | Plain 120" Lgth. | Zinc Pltd. 120" Lgth. | Plain 144" Lgth. | Zinc Pltd. 144" Lgth. |
| 4-40 | TR-44 | | 866-055 | 866-055ZP | | | | | | |
| 5-40 | | | 866-012 | 886-012ZP | | | | | | |
| 6-32 | TR-46 | TR-46ZP | 866-056 | 866-056ZP | | | | | | |
| 8-32 | TR-48 | TR-48ZP | 866-057 | 866-057ZP | | | | | | |
| 10-24 | TR-50 | TR-50ZP | 866-058 | 866-058ZP | | | | | | |
| 10-32 | TR-52 | TR-52ZP | 866-059 | 866-059ZP | | | | | | |
| 12-24 | TR-54 | TR-54ZP | 866-060 | 866-060ZP | | | | | | |
| 1/4"-20 | 866-146 | *866-A02-1A | TR-4 | TR-4ZP | 866-013 | 866-013ZP | 866-061 | 866-061ZP | 866-130 | 866-130ZP |
| 1/4"-28 | 866-145 | 866-145ZP | 866-001 | 866-001ZP | | | | | | |
| 5/16"-18 | 866-142 | 866-142ZP | TR-5 | TR-5ZP | 866-014 | 866-014ZP | 866-062 | 866-062ZP | 866-131 | |
| 5/16"-24 | | | 866-002 | 866-002ZP | | | | | | |
| 3/8"-16 | | | TR-6 | TR-6ZP | 866-015 | 866-015ZP | 866-063 | 866-063ZP | 866-079 | 866-079ZP |
| 3/8"-24 | | | 866-003 | 866-003ZP | 866-154 | | | | 866-054 | |
| 7/16"-14 | 866-143 | 866-143ZP | TR-7 | TR-7ZP | 866-016 | 866-016ZP | 866-064 | 866-064ZP | 866-132 | 866-132ZP |
| 7/16"-20 | | | 866-004 | 866-004ZP | | | | | | |
| 1/2"-13 | | | TR-8 | TR-8ZP | 866-017 | 866-017ZP | 866-065 | 866-065ZP | 866-081 | 866-081ZP |
| 1/2"-20 | | | 866-005 | 866-005ZP | | | | | | |
| 9/16"-12 | | | 866-125 | 866-125ZP | 866-127 | 866-127ZP | 866-128 | 866-128ZP | 866-129 | |
| 9/16"-18 | | | 866-126 | 866-126ZP | | | | | | |
| 5/8"-11 | | | TR-10 | TR-10ZP | 866-018 | 866-018ZP | 866-066 | 866-066ZP | 866-082 | |
| 5/8"-18 | | | 866-006 | 866-006ZP | | | | | | |
| 3/4"-10 | | | TR-12 | TR-12ZP | 866-019 | 866-019ZP | 866-067 | 866-067ZP | 866-083 | |
| 3/4"-16 | | | 866-007 | 866-007ZP | | | | | | |
| 7/8"-9 | 866-A01-1X | 866-144ZP | TR-14 | TR-14ZP | 866-020 | 866-020ZP | 866-068 | 866-068ZP | 866-084 | |
| 7/8"-14 | | | 866-008 | 866-008ZP | | | | | | |
| 1"-8 | | | TR-16 | TR-16ZP | 866-021 | 866-021ZP | 866-124 | 866-124ZP | 866-069 | 866-069ZP |
| 1"-14 | | | 866-009 | 866-009ZP | | | | | | |
| 1-1/8"-7 | | | TR-18 | TR-18ZP | 866-148 | | | | 866-070 | 866-070ZP |
| 1-1/8"-12 | | | 866-010 | 866-010ZP | | | | | | |
| 1-1/4"-7 | | | TR-20 | TR-20ZP | 866-149 | | | | 866-071 | |
| 1-1/4"-12 | | | 866-011 | 866-011ZP | | | | | | |
| 1-3/8"-6 | | | TR-22 | TR-22ZP | 866-150 | | | | 866-072 | |
| 1-3/8"-12 | | | | 866-120ZP | | | | | | |
| 1-1/2"-6 | | | TR-24 | TR-24ZP | 866-151 | | | | 866-073 | |
| 1-1/2"-12 | | | 866-121 | 866-121ZP | | | | | | |
| 1-5/8"-5-1/2 | | | | TR-26ZP | | | | | | |
| 1-3/4"-5 | | | TR-28 | TR-28ZP | 866-152 | | | | 866-075 | |
| 2"-4-1/2 | | | TR-32 | TR-32ZP | 866-153 | | | | 866-076 | |

## Weight Chart for Steel Threaded Rod

**Approximate Weight in Lbs. per Foot**

| Thread Size | Weight per Foot |
|---|---|
| 4-40 | .024 lbs. |
| 5-40 | .032 lbs. |
| 6-32 | .036 lbs. |
| 8-32 | .054 lbs. |
| 10-24 | .070 lbs. |
| 12-24 | .100 lbs. |
| 1/4"-20 | .120 lbs. |
| 5/16"-18 | .200 lbs. |

| Thread Size | Weight per Foot |
|---|---|
| 3/8"-16 | .290 lbs. |
| 7/16"-14 | .400 lbs. |
| 1/2"-13 | .540 lbs. |
| 9/16"-12 | .667 lbs. |
| 5/8"-11 | .834 lbs. |
| 3/4"-10 | 1.240 lbs. |
| 7/8"-9 | 1.667 lbs. |
| 1"-8 | 2.223 lbs. |

| Thread Size | Weight per Foot |
|---|---|
| 1-1/8"-7 | 2.667 lbs. |
| 1-1/4" 7 | 3.334 lbs. |
| 1-3/8"-6 | 4.112 lbs. |
| 1-1/2"-6 | 4.667 lbs. |
| 1-5/8"-5-1/2 | 6.334 lbs. |
| 1-3/4"-5 | 7.000 lbs. |
| 2"-4-1/2 | 9.112 lbs. |




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For Non-ferrous Threaded Rods see page B290
For Acme Threaded Rods see page B288

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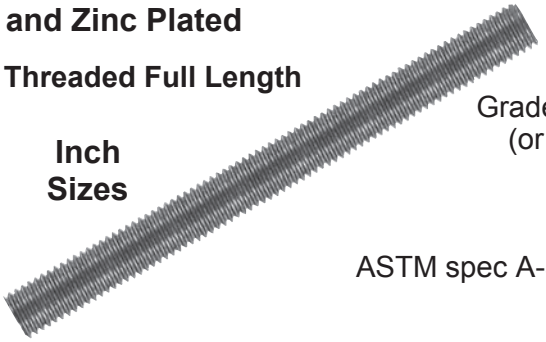
B

# STEEL Threaded Rods

**Self-Colour - Plain Finish and Zinc Plated**

**Threaded Full Length**

**Inch Sizes**



Grade: C1010 (or better)

ASTM spec A-307

Minimum tensile strength 50,000 to 60,000 psi

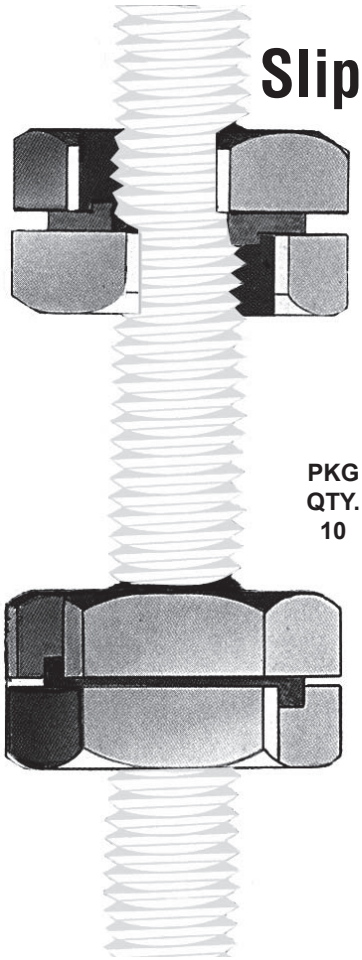
## Continuous LEFT-HAND Threads

| Thread Size | 36" Length *SPAENAUR No.* Plain | Zinc Pltd. | PKG QTY. |
|---|---|---|---|
| 1/4"-20 UNC | **866-300** | **866-300ZP** | 1 |
| 1/4"-28 UNF | **866-309** | **—** | 1 |
| 5/16"-18 UNC | **866-301** | **866-301ZP** | 1 |
| 5/16"-24 UNF | **866-311** | **866-311ZP** | 1 |
| 3/8"-16 UNC | **866-302** | **866-302ZP** | 1 |
| 3/8"-24 UNF | **866-313** | **—** | 1 |
| 7/16"-14 UNC | **866-303** | **866-303ZP** | 1 |
| 1/2"-13 UNC | **866-304** | **866-304ZP** | 1 |
| 1/2"-20 UNF | **866-307** | **866-307ZP** | 1 |
| 5/8"-11 UNC | **866-305** | **866-305ZP** | 1 |
| 3/4"-10 UNC | **866-306** | **866-306ZP** | 1 |
| 3/4"-16 UNF | **866-308** | **866-308ZP** | 1 |
| 1-1/8"-12 UNF | **866-312** | **866-312ZP** | 1 |
| 1-1/4"-7 UNC | **866-310** | **866-310ZP** | 1 |

See Page C5 for STEEL Hex. Nuts **with LEFT-HAND Threads**
See page B291 for STEEL Coupling Nuts with **LEFT-HAND Threads**

# Slip-on® Lock Nut

**Position at any desired location without threading**
**A nut that does not have to be "threaded on."**



C1018 Cold Rolled Steel, Bright Zinc Pltd.

A must for electricians, mechanical contractors, plumbers, steamfitters, sprinkler installers, general contractors, mining contractors, telecommunication industry, television industry, plant maintenance, original equipment manufacturers—and the list goes on. The Slip-On Lock Nut can be used on pipe racks, clevis hangers, cable trays, all-thread rod, anchor bolts that are rusted or bent, and in high vibratory situations. The list of applications is endless.

- **Saves time**
- **Saves money**
- **Solves rod and retrofit problems**

**PKG QTY. 10**

| *SPAENAUR No.* | Thread Size | Width A\F | Approx. Thick. | Recommended Loads | Recommended Torque |
|---|---|---|---|---|---|
| **165-199** | 1/4"-20 UNC | 5/8" | 3/8" | 650 lbs. | 6-8 ft. lbs. |
| **165-200** | 3/8"-16 UNC | 7/8" | 15/32" | 2,000 lbs. | 19-25 ft. lbs. |
| **165-201** | 1/2"-13 UNC | 1-1/16" | 5/8" | 4,000 lbs. | 50-60 ft. lbs. |
| **165-207** | 3/4"-10 UNC | 1-5/8" | 1" | 8,000 lbs. | 180-200 ft. lbs. |

**MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURE FOR RIGHT-HAND THREADED SLIP-ON LOCK NUTS**

STEP 1. Line up slot on both halves and position at desired location, placing threads of rod/bolt all the way back into the base of the slot.

STEP 2. Turn half of the nut, following the direction of the arrows, until both halves tighten down against one another.

STEP 3. Put wrench on the half of the Slip-On Lock Nut that is farthest away from your fixed structure and tighten, following the direction of the arrows, until slots of both halves are opposite one another (180°).

NOTE: In order to adjust or torque the nut as a unit, turn half of the Slip-On Lock Nut until slot is 120° (2 flats). Then put wrench on entire nut to adjust or torque as you would a conventional nut with compatible materials. Next, follow STEP 3, putting slots at 180° of each other to complete installation.



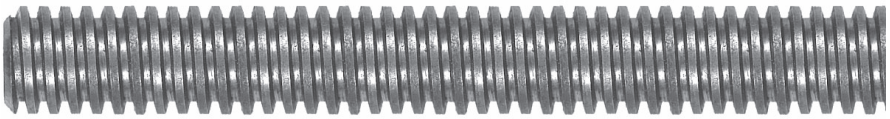
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B

Threaded
Full Length

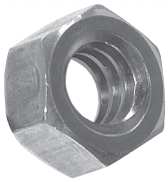


## "ACME" Threaded Rods

**C1018 STEEL, Plain Finish**
**29° ACME THREAD**
**Fully Threaded in 36" Lengths**

| *SPAENAUR No.* | Diameter and T.P.I. | Lgths. in Package |
|---|---|---|
| **866-133** | 3/8"-12 | 1 |
| **866-134** | 1/2"-10 | 1 |
| **866-135** | 5/8"-8 | 1 |
| ***866-136** | 3/4"-6 | 1 |
| **866-137** | 7/8"-6 | 1 |
| **866-138** | 1"-5 | 1 |
| **866-139** | 1-1/8"-5 | 1 |
| **866-140** | 1-1/4"-5 | 1 |
| **866-141** | 1-1/2"-4 | 1 |
| **866-147** | 2"-4 | 1 |

*870-010 304 Stainless Steel



## "ACME" Hexagon Nuts

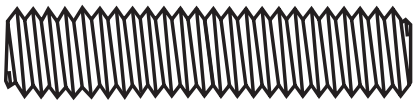
**C1018 STEEL, Plain Finish**
**ACME THREADS-Right Hand**

| *SPAENAUR No.* | Diameter and T.P.I. | Width A/F | Thickness | Type of Nut | PKG QTY. |
|---|---|---|---|---|---|
| **155-013** | 3/8"-12 | 11/16" | 3/8" | Heavy | 10 |
| **155-014** | 1/2"-10 | 7/8" | 31/64" | Heavy | 10 |
| **155-015** | 5/8"-8 | 1-1/16" | 39/64" | Heavy | 10 |
| **155-016** | 3/4"-6 | 1-1/8" | 41/64" | Finished | 10 |
| **155-017** | 7/8"-6 | 1-7/16" | 55/64" | Heavy | 5 |
| **155-018** | 1"-5 | 1-1/2" | 55/64" | Finished | 5 |
| **155-019** | 1-1/8"-5 | 1-13/16" | 1-7/64" | Heavy | 5 |
| **155-020** | 1-1/4"-5 | 1-7/8" | 1-1/16" | Finished | 5 |
| **155-021** | 1-1/2"-4 | 2-1/4" | 1-9/32" | Finished | 5 |
| **155-022** | 2"-4 | 3" | 1-3/4" | Finished | 1 |

# B7 Alloy Steel Studs

## Full Right Hand Threaded

Heat Treated
Chromium - Molybdenum Alloy Steel
Quench and Tempered
For High Temperature Service



### Inch Sizes - UNC Coarse Thread*

Plain Finish

*Sizes up to 1" nominal size UNC Class 2A fit.
1" and over nominal size 8-UN Class 2A fit.

Conforms to ASTM A193 - Grade B7
Minimum Tensile Strength: 125,000 PSI **(860 MPa.)**

| Length | Spaenaur No. | PKG QTY. |
|---|---|---|
| **1/2"-13** Dia. | | |
| 1-3/4" | **616-130** | 25 |
| 2" | **616-131** | 25 |
| 2-1/2" | **616-132** | 25 |
| 3" | **616-133** | 25 |
| 3-1/2" | **616-134** | 25 |
| 4" | **616-135** | 25 |
| 4-1/2" | **616-136** | 25 |
| 5" | **616-137** | 25 |
| 6" | **616-138** | 25 |
| **5/8"-11** Dia. | | |
| 2" | **616-139** | 20 |
| 2-1/2" | **616-140** | 20 |
| 3" | **616-A01-1C** | 20 |
| 3-1/2" | **616-142** | 20 |
| 4" | **616-143** | 20 |

| Length | Spaenaur No. | PKG QTY. |
|---|---|---|
| ***5/8"-11** cont'd.* | | |
| 4-1/2" | **616-144** | 20 |
| 5" | **616-145** | 20 |
| 6" | **616-146** | 20 |
| 8" | **616-147** | 1 |
| **3/4"-10** Dia. | | |
| 2" | **616-148** | 20 |
| 3" | **616-149** | 20 |
| 3-1/2" | **616-150** | 20 |
| 4" | **616-151** | 20 |
| 4-1/2" | **616-152** | 20 |
| 5" | **616-153** | 20 |
| 6" | **616-154** | 20 |
| 7" | **616-155** | 1 |
| 8" | **616-156** | 1 |
| 10" | **616-157** | 1 |

| Length | Spaenaur No. | PKG QTY. |
|---|---|---|
| **7/8"-9** Dia. | | |
| 3" | **616-158** | 10 |
| 4" | **616-159** | 10 |
| 4-1/2" | **616-160** | 10 |
| **5"** | **616-161** | 10 |
| 6" | **616-162** | 10 |
| 7" | **616-163** | 1 |
| 8" | **616-164** | 1 |
| 9" | **616-165** | 1 |
| 10" | **616-166** | 1 |

| Length | Spaenaur No. | PKG QTY. |
|---|---|---|
| **1"-8** Dia. | | |
| 4" | **616-167** | 10 |
| 4-1/2" | **616-168** | 10 |
| 5" | **616-169** | 10 |
| 6" | **616-170** | 10 |
| 7" | **616-171** | 1 |
| 8" | **616-172** | 1 |
| 10" | **616-173** | 1 |
| **1-1/8"-8** Dia. | | |
| 5" | **616-174** | 1 |
| 6" | **616-175** | 1 |
| 8" | **616-176** | 1 |

| Length | Spaenaur No. | PKG QTY. |
|---|---|---|
| **1-1/4"-8** Dia. | | |
| 6" | **616-177** | 1 |
| 8" | **616-178** | 1 |
| 10" | **616-179** | 1 |
| **1-3/8"-8** Dia. | | |
| 10" | **616-180** | 1 |
| **1-1/2"-8** Dia. | | |
| 9" | **616-181** | 1 |
| 10" | **616-182** | 1 |

**Use with 2H Nuts page B289 and ASTM F436 Hardened Structural Washers page D3.**
**B7 Full Threaded Rod, 6 and 12 foot lengths - see following page.**



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B

# B7 ALLOY STEEL

## *High Strength - High Temperature*

Heat Treated

To ASTM A-193 B7

Minimum Tensile Strength - 125,000 psi.
Temperature range, from **-101°C to +454°C**

-For use in mining, petroleum, chemical, automotive, and other industries.

-For high pressure, high temperature applications.




D = nominal diameter
L = length from first to last thread

**Continuous RIGHT-HAND Thread**

**B7 Alloy Steel Threaded Rods and 2H Hex Nuts**

*Sizes up to 1" nominal size UNC Class 2A and 2B fit, 1" and over nominal size 8 UN Class 2A and 2B fit.

### Inch Sizes - UNC Coarse thread*

**PLAIN FINISH**

| D Dia. & Thread | *SPAENAUR No.* 72" Length | 144" Length |
|---|---|---|
| 1/4"-20 | **866-200** | – |
| 5/16"-18 | **866-201** | – |
| 3/8"-16 | **866-202** | – |
| 7/16"-14 | **866-203** | – |
| 1/2"-13 | **866-204** | **866-216** |
| 5/8"-11 | **866-205** | **866-217** |
| 3/4"-10 | **866-206** | **866-218** |
| 7/8"-9 | **866-207** | **866-219** |
| 1"-8 | **866-208** | **866-220** |
| 1-1/8"-8 | **866-210** | **866-234** |
| 1-1/4"-8 | **866-211** | **866-235** |
| 1-3/8"-8 | **866-212** | **866-236** |
| 1-1/2"-8 | **866-213** | **866-237** |
| 1-5/8"-8 | **866-214** | **866-238** |
| 1-3/4"-8 | **866-209** | **866-239** |
| 2"-8 | **866-215** | **866-240** |

**All Threaded Rods listed above PKG QTY. 1**

# 2H Nuts



PLAIN FINISH

**For use with B7 Studs & Rods**

2H Nuts are used for high temperature, high pressure applications such as pipelines, pressure vessels, valves and controls used in the transmission and storage of oil, gasoline, natural gas, steam and many other chemicals.

**PHYSICAL PROPERTIES:**
**Specification:** ASTM A 194-2H
**Grade:** AISI 1045 or 1050
**Heat Treatment:** Oil Quench & Temper
**Hardness:** 248 to 352 Brinell No.

| *SPAENAUR No.* PLAIN | UNC THREAD | ACROSS FLATS | THICKNESS | PKG QTY. |
|---|---|---|---|---|
| **155-200** | 1/4"-20 | 1/2" | 15/64" | 50 |
| **155-201** | 5/16"-18 | 9/16" | 19/64" | 25 |
| **155-P42-1P** | 3/8"-16 | 11/16" | 23/64" | 25 |
| **155-203** | 7/16"-14 | 3/4" | 27/64" | 25 |
| **155-204** | 1/2"-13 | 7/8" | 31/64" | 25 |
| **155-205** | 5/8"-11 | 1-1/16" | 39/64" | 20 |
| **155-206** | 3/4"-10 | 1-1/4" | 47/64" | 10 |
| **155-207** | 7/8"-9 | 1-7/16" | 55/64" | 10 |
| **155-208** | 1"-8 | 1-5/8" | 63/64" | 10 |
| **155-211** | 1-1/8"-8 | 1-13/16" | 1-7/64" | 10 |
| **155-210** | 1-1/4"-8 | 2" | 1-7/32" | 10 |
| **155-P44-1C** | 1-3/8"-8 | 2-3/16" | 1-11/32" | 10 |
| **155-212** | 1-1/2"-8 | 2-3/8" | 1-15/32" | 10 |
| **155-P45-1N** | 1-5/8"-8 | 2-9/16" | 1-19/32" | 10 |
| **155-214** | 1-3/4"-8 | 2-3/4" | 1-23/32" | 10 |
| **155-215** | 2"-8 | 3-1/8" | 1-31/32" | 5 |

**See previous page for B7 ALLOY STEEL STUDS.**
**See page D3 for ASTM F436 STRUCTURAL WASHERS.**



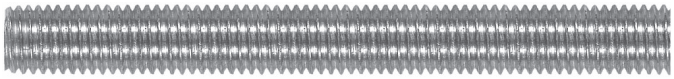
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B

**THREADED RODS**



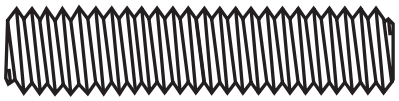
Right-Hand Threads
Threaded Full Length

## Self-Colour BRASS Plain Finish

| Thread Size | SPAENAUR No. 24" Lgth. | 36" Lgth. | PKG QTY. |
|---|---|---|---|
| 4-40 | TR-500 | 868-525 | 25 |
| 5-40 | TR-501 | 868-526 | 25 |
| 6-32 | TR-502 | 868-518 | 25 |
| 8-32 | TR-503 | 868-527 | 25 |
| 10-24 | 868-A10-1N | 868-528 | 25 |
| 10-32 | TR-505 | 868-A04-1A | 25 |
| 12-24 | | 868-529 | 25 |
| 1/4"-20 | 868-A07-1C | 868-A09-1T | 10 |
| 1/4"-28 | TR-508 | 868-524 | 10 |
| 5/16"-18 | TR-509 | 868-531 | 10 |
| 3/8"-16 | 868-A03-1X | 868-532 | 10 |
| 3/8"-24 | | 868-A05-1P | 1 |
| 7/16"-14 | | 868-539 | 1 |
| 1/2"-13 | 868-A06-1Y | 868-533 | 1 |
| 5/8"-11 | TR-512 | 868-A01-1W | 1 |
| 3/4"-10 | 868-A08-1N | 868-A02-1M | 1 |
| 7/8"-9 | TR-514 | 868-536 | 1 |
| 1"-8 | TR-515 | 868-537 | 1 |

## 18-8 and 316 STAINLESS STEEL

| Thread Size | 18-8 STAINLESS STEEL 12" Lgth. | 24" Lgth. | 36" Lgth. | 72" Lgth. | 316 S.S. 36" Lgth. | PKG QTY. |
|---|---|---|---|---|---|---|
| 0000-160 | | | | | | 1 |
| 000-120 | 870-002 | | | | | 1 |
| 00-96 | 870-003 | | | | | 1 |
| 00-90 | 870-004 | | | | | 1 |
| 0-80 | 870-005 | | | | | 1 |
| 2-56 | | 870-009 | | | | 1 |
| 4-40 | | TR-2000 | 870-824 | | | 25 |
| 6-32 | | TR-2001 | 870-825 | | 870-902 | 25 |
| 8-32 | | 870-G12-1A | 870-826 | | 870-903 | 25 |
| 10-24 | | 870-G09-1X | 870-827 | | 870-G07-1W | 1 |
| 10-32 | | TR-2004 | 870-G06-1K | | 870-905 | 1 |
| 1/4"-20 | | 870-G14-1Y | 870-829 | | 870-906 | 1 |
| 1/4"-28 | | 870-G01-2P | 870-830 | | | 1 |
| 5/16"-18 | | TR-2007 | 870-G11-1X | | 870-901 | 1 |
| 5/16"-24 | | 870-G02-1Y | 870-G03-1C | | | 1 |
| 3/8"-16 | | 870-G08-1M | 870-G05-1T | TR-2016 | 870-900 | 1 |
| 3/8"-24 | | 870-G10-1M | 870-834 | 870-G13-1P | | 1 |
| 7/16"-14 | | TR-2011 | 870-835 | 870-841 | 870-907 | 1 |
| 1/2"-13 | | TR-2012 | 870-836 | TR-2017 | 870-908 | 1 |
| 1/2"-20 | | TR-2013 | 870-G04-1N | 870-842 | | 1 |
| 5/8"-11 | | TR-2014 | 870-838 | TR-2018 | 870-909 | 1 |
| 3/4"-10 | | TR-2015 | 870-839 | TR-2019 | 870-910 | 1 |
| 7/8"-9 | | | 870-843 | TR-2020 | | 1 |
| 1"-8 | | | | TR-2021 | 870-911 | 1 |
| 1-1/8"-7 | | | | TR-2022 | 870-912 | 1 |
| 1-1/4"-7 | | | | TR-2023 | 870-913 | 1 |
| 1-1/2"-6 | | | | | 870-914 | 1 |



## ALUMINUM

Alloy Grade 6061-T6 (ASTM)

**THREADED RODS**

Full Length Right-Hand Threads

**INCH SIZES**

| Thread Size | SPAENAUR No. 36" Lgth. | 72" Lgth. | PKG QTY. |
|---|---|---|---|
| 6-32 | 863-001 | 863-A02-1C | 10 |
| 8-32 | 863-002 | 863-A01-1Y | 10 |
| 10-24 | 863-A06-1W | 863-A03-1N | 10 |
| 10-32 | 863-004 | 863-A09-1A | 10 |
| 1/4"-20 | 863-005 | 863-A07-1M | 1 |
| 5/16"-18 | 863-A08-1X | 863-025 | 1 |
| 3/8"-16 | 863-007 | 863-A04-1T | 1 |
| 1/2"-13 | | 863-027 | 1 |
| 5/8"-11 | 863-009 | 863-A05-1K | 1 |
| 3/4"-10 | 863-010 | 863-029 | 1 |
| 7/8"-9 | 863-011 | 863-030 | 1 |
| 1"-8 | | 863-031 | 1 |

## NYLON

**(Polyamid 6/6)**

**INCH SIZES**



### Full Length THREADED RODS

**RIGHT-HAND THREADS in 48" Lengths**

| Thread Size | 48" Lgth. SPAENAUR No. | PKG QTY. |
|---|---|---|
| 4-40 | 872-012 (24" Length) | 1 |
| 4-40 | 872-001 | 1 |
| 6-32 | 872-002 | 1 |
| 8-32 | 872-003 | 1 |
| 10-24 | 872-004 | 1 |
| 10-32 | 872-005 | 1 |
| 1/4"-20 | 872-006 | 1 |
| 5/16"-18 | 872-007 | 1 |
| 3/8"-16 | 872-008 | 1 |
| 1/2"-13 | 872-010 | 1 |
| 5/8"-11 | 872-011 | 1 |
| 3/4"-10 | 872-013 | 1 |
| 7/8"-9 | 872-014 | 1 |
| 1"-8 | 872-015 | 1 |



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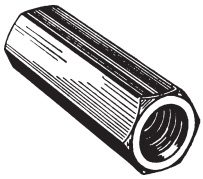

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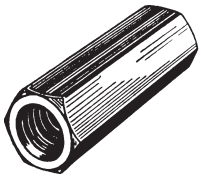
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# COUPLING NUTS

For joining lengths of threaded rod end to end.

**Right-hand and Left-hand Threads**
**Coarse and Fine Threads**



Used by plumbers, electricians, contractors, to join lengths of *SPAENAUR* threaded rod, end to end.

For mounting heaters, fans, lighting fixtures; for stringing pipe, conduit, raceways. Solves unusual fastening problems when used with versatile *SPAENAUR* threaded rods.

B

## INCH SIZES

### Zinc Plated Steel - RIGHT-HAND Threads

| *SPAENAUR No.* | Size & Threads Per Inch | Width Across Flats | Length | PKG QTY. |
|---|---|---|---|---|
| **155-301** | 10-24 UNC | 5/16" | 3/4" | 50 |
| **155-300** | 10-32 UNF | 5/16" | 3/4" | 50 |
| **155-302** | 1/4"-20 UNC | 7/16" | 7/8" | 50 |
| **155-359** | 1/4"-28 UNF | 3/8" | 7/8" | 50 |
| **155-303** | 5/16"-18 UNC | 1/2" | 1-3/4" | 25 |
| **155-376** | 5/16"-18 UNC | 5/8" | 1-3/4" | 25 |
| **155-360** | 5/16"-24 UNF | 7/16" | 7/8" | 25 |
| **155-304** | 3/8"-16 UNC | 9/16" | 1-3/4" | 25 |
| **155-361** | 3/8"-24 UNF | 1/2" | 1-1/8" | 25 |
| **155-362** | 3/8"-24 UNF | 5/8" | 1-3/4" | 25 |
| **155-305** | 7/16"-14 UNC | 5/8" | 1-3/4" | 25 |
| **155-363** | 7/16"-20 UNF | 5/8" | 1-1/4" | 25 |
| **155-381** | 1/2"-13 UNC | 11/16" | 1-3/4" | 25 |
| **155-306** | 1/2"-13 UNC | 3/4" | 1-3/4" | 25 |
| **155-364** | 1/2"-20 UNF | 5/8" | 1-1/4" | 25 |
| **155-365** | 1/2"-20 UNF | 11/16" | 1-3/4" | 25 |
| **155-377** | 5/8"-11 UNC | 13/16" | 2-1/8" | 15 |
| **155-307** | 5/8"-11 UNC | 15/16" | 2-1/8" | 15 |
| **155-366** | 5/8"-18 UNF | 13/16" | 2-1/8" | 15 |
| **155-024** | 3/4"-10 UNC | 1" | 2-1/4" | 15 |
| **155-308** | 3/4"-10 UNC | 1-1/8" | 2-1/4" | 15 |
| **155-367** | 3/4"-16 UNF | 1" | 2-1/4" | 15 |
| **155-309** | 7/8"-9 UNC | 1-1/4" | 2-1/2" | 10 |
| **155-368** | 7/8"-14 UNF | 1-1/4" | 2-1/2" | 10 |
| **155-310** | 1"-8 UNC | 1-1/4" | 2-1/2" | 10 |
| **155-369** | 1"-14 UNF | 1-3/8" | 2-3/4" | 10 |
| **155-311** | 1-1/8"-7 UNC | 1-5/8" | 3" | 10 |
| **155-312** | 1-1/4"-7 UNC | 1-5/8" | 3" | 1 |
| **155-370** | 1-1/4"-12 UNF | 1-5/8" | 3" | 1 |
| **155-341** | 1-1/2"-6 UNC | 2" | 4" | 1 |
| **155-371** | 1-1/2"-12 UNF | 2" | 3-1/2" | 1 |

### 18-8 STAINLESS STEEL - Right-hand Threads

| *SPAENAUR No.* | Size & Threads Per Inch | Width Across Flats | Length | PKG QTY. |
|---|---|---|---|---|
| **155-P37-1M** | 1/4"-20 UNC | 3/8" | 7/8" | 50 |
| **155-801** | 5/16"-18 UNC | 7/16" | 1" | 25 |
| **155-P43-1Y** | 3/8"-16 UNC | 1/2" | 1-1/8" | 25 |
| **155-P35-1K** | 1/2"-13 UNC | 5/8" | 1-1/4" | 25 |
| **155-804** | 5/8"-11 UNC | 7/8" | 1-3/4" | 10 |
| **155-805** | 3/4"-10 UNC | 1" | 2-1/4" | 10 |

### Zinc Plated Steel - LEFT-HAND Threads

| *SPAENAUR No.* | Size & Threads Per Inch | Width Across Flats | Length | PKG QTY. |
|---|---|---|---|---|
| **155-351** | 3/8"-16 UNC | 5/8" | 1-3/4" | 25 |
| **155-352** | 1/2"-13 UNC | 11/16" | 1-3/4" | 25 |
| **155-353** | 5/8"-11 UNC | 13/16" | 2-1/8" | 15 |
| **155-354** | 3/4"-10 UNC | 1" | 2-1/4" | 15 |

**Inch Size Coupling Nuts are used with Threaded Rods on pages B286, B287 and B290.**

**Metric Coupling Nuts are found on page B293**

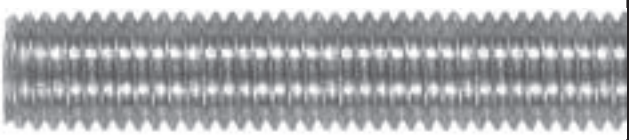


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B

## DIN 975

Standard Coarse Thread
Right Hand Threads - Full Length



### Property Class 4.6 and 8.8 Steel Plain and Zinc Plated

| Size Dia. x Pitch mm | CLASS 4.6 PLAIN 1 Metre Lengths | CLASS 4.6 PLAIN 2 Metre Lengths | CLASS 4.6 PLAIN 3 Metre Lengths | CLASS 4.6 ZINC PLATED 1 Metre Lengths | CLASS 4.6 ZINC PLATED 2 Metre Lengths | CLASS 8.8 1 Metre Lengths Plain | CLASS 8.8 1 Metre Lengths Zinc Plated |
|---|---|---|---|---|---|---|---|
| M2 x 0.40 | 867-001 | | | 867-001ZP | | | |
| M2.5 x 0.45 | 867-026 | | | 867-026ZP | | | |
| M2.6 x 0.45 | 867-003 | | | 867-003ZP | | | |
| M3 x 0.50 | 867-004 | | 867-042 | 867-004ZP | | | |
| M3.5 x 0.60 | 867-028 | | | 867-028ZP | | | |
| M4 x 0.70 | 867-005 | 867-033 | 867-043 | 867-005ZP | | 867-102 | 867-102ZP |
| M5 x 0.80 | 867-006 | | 867-044 | 867-006ZP | | 867-103 | 867-103ZP |
| M6 x 1.00 | 867-007 | 867-035 | 867-045 | 867-007ZP | 867-035ZP | 867-A01-1M | 867-104ZP |
| M7 x 1.00 | 867-027 | | | 867-027ZP | | | |
| M8 x 1.25 | 867-008 | 867-036 | 867-046 | 867-008ZP | 867-036ZP | 867-105 | 867-105ZP |
| M10 x 1.50 | 867-009 | 867-037 | 867-047 | 867-009ZP | 867-037ZP | 867-106 | 867-106ZP |
| M12 x 1.75 | 867-010 | 867-038 | 867-048 | 867-010ZP | 867-038ZP | 867-107 | 867-107ZP |
| M14 x 2.00 | 867-011 | 867-068 | 867-049 | 867-011ZP | | 867-101 | 867-101ZP |
| M16 x 2.00 | 867-012 | 867-039 | 867-050 | 867-012ZP | 867-039ZP | 867-109 | 867-109ZP |
| M18 x 2.50 | 867-013 | | 867-051 | 867-013ZP | | 867-100 | 867-100ZP |
| M20 x 2.50 | 867-014 | 867-040 | 867-052 | 867-014ZP | 867-040ZP | 867-111 | 867-111ZP |
| M22 x 2.50 | 867-015 | | 867-053 | 867-015ZP | | 867-112 | 867-112ZP |
| M24 x 3.00 | 867-016 | 867-041 | 867-054 | 867-016ZP | | 867-113 | 867-113ZP |
| M27 x 3.00 | 867-017 | | | 867-017ZP | | 867-114 | 867-114ZP |
| M30 x 3.50 | 867-018 | | | 867-018ZP | | 867-115 | 867-115ZP |
| M33 x 3.50 | 867-019 | | | 867-019ZP | | 867-116 | |
| M36 x 4.00 | 867-020 | | | 867-020ZP | | 867-117 | 867-117ZP |
| M39 x 4.00 | 867-021 | | | 867-021ZP | | | |
| M42 x 4.50 | 867-022 | | | 867-022ZP | | | |
| M45 x 4.50 | 867-023 | | | | | | |
| M48 x 5.00 | 867-024 | | | 867-024ZP | | | |
| M52 x 5.00 | 867-025 | | | | | | |

## DIN 975

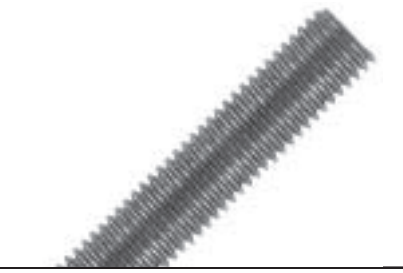


### METRIC FINE THREAD

Right Hand Thread - Full Length

Property Class 4.6 Steel, Plain
1 Metre Lengths

| SPAENAUR No. | Dia. x Pitch | SPAENAUR No. | Dia. x Pitch |
|---|---|---|---|
| 867-069 | M4 x 0.50 | 867-075 | M12 x 1.25 |
| 867-070 | M5 x 0.50 | 867-076 | M12 x 1.50 |
| 867-071 | M6 x 0.75 | 867-077 | M14 x 1.50 |
| 867-072 | M8 x 1.00 | 867-078 | M16 x 1.50 |
| 867-073 | M10 x 1.00 | 867-079 | M18 x 1.50 |
| 867-074 | M10 x 1.25 | 867-080 | M20 x 1.50 |



### METRIC LEFT-HAND THREAD

Standard Coarse Thread - Full Length

Property Class 4.6 Steel, Plain
1 Metre Lengths

| SPAENAUR No. | Dia. x Pitch | SPAENAUR No. | Dia. x Pitch |
|---|---|---|---|
| 867-055 | M4 x 0.70 | 867-061 | M14 x 2.00 |
| 867-056 | M5 x 0.80 | 867-062 | M16 x 2.00 |
| 867-057 | M6 x 1.00 | 867-063 | M18 x 2.50 |
| 867-058 | M8 x 1.25 | 867-064 | M20 x 2.50 |
| 867-059 | M10 x 1.50 | 867-065 | M24 x 3.00 |
| 867-060 | M12 x 1.75 | | |



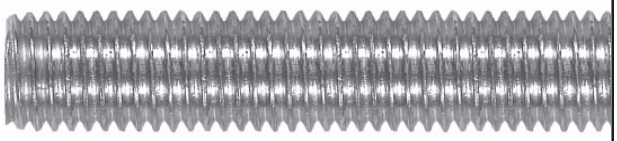
Contact Sales Desk For Package Quantities


P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

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**DIN 975** Metric Standard Coarse Thread
Right-Hand - Full Length

## Brass, A2 & A4 Stainless Steel, Aluminum and Nylon



**Contact Sales Desk For Package Quantities**

B

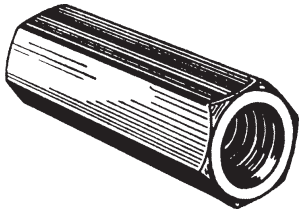
| Size Dia. x Pitch mm | BRASS 1 Metre Lengths | A2 STAINLESS STEEL 1 Metre Lengths | A2 STAINLESS STEEL 2 Metre Lengths | A2 STAINLESS STEEL 3 Metre Lengths | A4 STAINLESS STEEL 1 Metre Lengths | A4 STAINLESS STEEL 3 Metre Lengths | ALUMINUM 1 Metre Lengths | 6/6 NYLON 1 Metre Lengths |
|---|---|---|---|---|---|---|---|---|
| M2 x 0.40 | 869-001 | 871-030 | | | 871-050 | | | |
| M2.3 x 0.40 | 869-002 | | | | | | | |
| M2.5 x 0.45 | 869-013 | | | | 871-051 | | | |
| M2.6 x 0.45 | 869-003 | | | | | | | |
| M3 x 0.50 | 869-004 | 871-004 | | | 871-017 | | 863-100 | 873-004 |
| M4 x 0.70 | 869-005 | 871-005 | | | 871-018 | | 863-101 | 873-005 |
| M5 x 0.80 | 869-006 | 871-006 | 871-038 | | 871-019 | | 863-102 | 873-006 |
| M6 x 1.00 | 869-007 | 871-007 | 871-039 | 871-043 | 871-020 | 871-056 | 863-103 | 873-007 |
| M8 x 1.25 | 869-008 | 871-008 | 871-040 | 871-044 | 871-021 | 871-057 | 863-104 | 873-B01-1C |
| M10 x 1.50 | 869-009 | 871-009 | 871-041 | 871-045 | 871-A01-1A | 871-058 | 863-105 | 873-009 |
| M12 x 1.75 | 869-010 | 871-010 | 871-042 | 871-046 | 871-023 | 871-059 | 863-106 | 873-010 |
| M14 x 2.00 | 869-011 | 871-011 | | | 871-024 | | | 873-011 |
| M16 x 2.00 | 869-012 | 871-012 | | 871-047 | 871-025 | 871-060 | 863-107 | 873-012 |
| M18 x 2.50 | 869-015 | 871-013 | | | 871-026 | | | 873-013 |
| M20 x 2.50 | 869-016 | 871-014 | | 871-048 | 871-027 | 871-061 | | 873-014 |
| M22 x 2.50 | | 871-015 | | | 871-028 | | | |
| M24 x 3.00 | 869-018 | 871-016 | | 871-049 | 871-029 | 871-062 | | |
| M27 x 3.00 | 869-019 | 871-034 | | | 871-052 | | | |
| M30 x 3.50 | 869-020 | 871-035 | | | 871-053 | | | |
| M33 x 3.50 | 869-021 | 871-036 | | | 871-054 | | | |
| M36 x 4.00 | 869-022 | 871-037 | | | 871-055 | | | |

Metric Sizes

## COUPLING NUTS

**ZINC PLATED STEEL**
**Regular (Coarse) Thread**

| SPAENAUR No. | Dimensions in Millimeters Thread Size Diameter | Pitch | Width A/F | Length | PKG QTY. |
|---|---|---|---|---|---|
| 156-202 | M8 | 1.25 | 15 | 44 | 50 |
| 156-F01-1W | M10 | 1.50 | 15 | 44 | 25 |
| 156-211 | M27 | 3.00 | 41 | 76 | 10 |



## COUPLING NUTS DIN 6334

**Regular (Coarse) Thread**

**STEEL, PLAIN and ZINC PLATED**

| SPAENAUR No. Plain | Zinc Plated | Dimensions in Millimeters Thread Size Diameter | Pitch | Width A/F | Length | PKG QTY. |
|---|---|---|---|---|---|---|
| | 156-344ZP | M6 | 1.00 | 10 | 18 | 50 |
| 156-345 | 156-345ZP | M8 | 1.25 | 13 | 24 | 50 |
| 156-352 | 156-352ZP | M10 | 1.50 | 17 | 30 | 25 |
| 156-346 | 156-346ZP | M12 | 1.75 | 19 | 36 | 25 |
| 156-347 | 156-347ZP | M16 | 2.00 | 24 | 48 | 25 |
| 156-348 | 156-348ZP | M20 | 2.50 | 30 | 60 | 10 |
| 156-349 | 156-349ZP | M24 | 3.00 | 36 | 72 | 10 |
| 156-350 | 156-350ZP | M30 | 3.50 | 46 | 90 | 5 |
| 156-351 | 156-351ZP | M36 | 4.00 | 55 | 108 | 5 |





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# TURNBUCKLES

**Made with ZINC ALLOY TURNBUCKLE BODY**
**STEEL HOOKS and EYES - zinc chromate plated**

B



**EYE & EYE**



**HOOK & EYE**



**HOOK & HOOK**

(See chart below for size data)

| *SPAENAUR No.* Turnbuckle Body Only | *SPAENAUR No.* and Style | | | Thread (in inches) | Closed (in inches) | Open (in inches) | Body Length (in inches) | I.D. Eye (in inches) | PKG QTY. |
|---|---|---|---|---|---|---|---|---|---|
| | Eye & Eye | Hook & Eye | Hook & Hook | | | | | | |
| 024-555 | 024-537 | 024-543 | 024-549 | #8-32 | 3-1/8 | 4-3/8 | 1-7/8 | 7/64 | 10 |
| 024-556 | 024-538 | 024-544 | 024-550 | #10-24 | 4 | 5-5/8 | 2-3/8 | 9/32 | 10 |
| 024-557 | 024-539 | | 024-551 | #12-24 | 4-1/2 | 6-3/8 | 1-7/8 | 5/16 | 10 |
| | | 024-545 | | #12-24 | 4-1/2 | 6-3/8 | 2-5/8 | 5/16 | 10 |
| | | 024-546 | | 1/4-20 | 5-1/4 | 7-3/8 | 2-1/8 | 3/8 | 10 |
| 024-558 | 024-540 | | 024-552 | 1/4-20 | 5-1/4 | 7-3/8 | 3 | 3/8 | 10 |
| | | | | 1/4-20 | 5-1/2 | 7-5/8 | 3 | 5/16 | 10 |
| | | | 024-553 | 5/16-18 | 6-1/4 | 8-7/8 | 2-5/8 | 5/16 | 10 |
| 024-559 | 024-541 | 024-547 | | 5/16-18 | 6-1/4 | 8-7/8 | 3-5/8 | 5/16 | 10 |
| 024-560 | | | | 3/8-16 | 7-1/2 | 10-5/8 | 3-1/8 | 3/4 | 10 |
| | | 024-548 | 024-554 | 3/8-16 | 7-1/2 | 10-5/8 | 4-3/8 | 3/4 | 10 |
| | 024-542 | | | 3/8-16 | 7-1/2 | 10-5/8 | 4-3/8 | 3/4 | 10 |

Above Nos. Include Turnbuckle Body

See Pages B275-B277 for a wide range of Turnbuckles & Fittings



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B

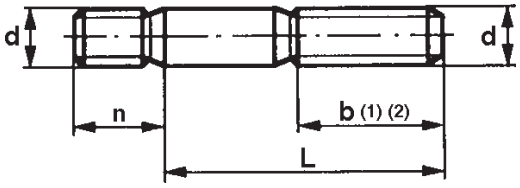
## DIN 939

**Property Class 5.8 Steel**
**Plain Finish**

### Metric



End "n" approximately **1.25** x diameter.
Overall length = "L" plus "n".




**All dimensions in millimetres.**

| d | M6 | M8 | M10 | M12 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|
| PITCH | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 |
| Note below. b(1) | 18 | 22 | 26 | 30 | 38 | 46 | 54 |
| b(2) | 24 | 28 | 32 | 36 | 44 | 52 | 60 |
| n | 7.5 | 10 | 12 | 15 | 20 | 25 | 30 |
| x1 | 2.5 | 3.2 | 3.8 | 4.3 | 5.0 | 6.3 | 7.5 |
| (L) 16 Length | 616-013 | 616-026 | | | | | |
| 18 | | 616-027 | | | | | |
| 20 | 616-014 | 616-028 | 616-040 | 616-061 | | | |
| 25 | 616-015 | 616-029 | 616-039 | 616-062 | | | |
| 30 | 616-016 | 616-008 | 616-038 | 616-063 | | | |
| 35 | 616-017 | 616-030 | 616-037 | 616-064 | 616-078 | | |
| 40 | 616-018 | 616-031 | 616-036 | 616-065 | 616-009 | | |
| 45 | 616-019 | 616-032 | 616-048 | 616-066 | 616-079 | 616-010 | |
| 50 | 616-020 | 616-033 | 616-049 | 616-067 | 616-080 | 616-091 | 616-102 |
| 55 | | 616-034 | 616-050 | 616-068 | 616-081 | 616-092 | 616-103 |
| 60 | 616-021 | 616-035 | 616-051 | 616-069 | 616-012 | 616-093 | 616-104 |
| 65 | | 616-046 | 616-052 | 616-070 | 616-082 | 616-094 | 616-105 |
| 70 | | 616-045 | 616-053 | 616-071 | 616-083 | 616-095 | 616-106 |
| 75 | | 616-044 | | | | | |
| 80 | 616-023 | 616-043 | 616-054 | 616-072 | 616-084 | 616-011 | 616-107 |
| 90 | | 616-042 | 616-055 | 616-073 | 616-085 | 616-096 | 616-108 |
| 100 | | 616-041 | 616-056 | 616-074 | 616-086 | 616-097 | 616-109 |
| 110 | | | 616-057 | 616-075 | 616-087 | 616-098 | |
| 120 | | | 616-058 | 616-076 | 616-088 | 616-099 | |
| 150 | | | | | | 616-101 | 616-111 |

**Note:** b(1) For lengths (L) up to **125 mm**
b(2) For lengths (L) from **125 to 200 mm**

Studs of sizes above the heavy line in chart cannot be manufactured with a nut end thread length, b, as specified in the table. In such cases, b will be approximately equal to L- (x1 + 3).

## DIN 939

### Metric
**Property Class 8.8 Steel**
Plain Finish

| SPAENAUR No. | Dia. x Pitch | (L) Lgth. |
|---|---|---|
| **616-112** | M8 x 1.25 | 45mm |
| **616-113** | M8 x 1.25 | 50mm |
| **616-006YZ** (Yellow Zinc) | M10 x 1.50 | 100mm |
| **616-114** | M12 x 1.75 | 25mm |

### Metric
**A2 Stainless Steel**

| | | |
|---|---|---|
| **616-805** | M8 x 1.25 | 35mm |
| **616-800** | M8 x 1.25 | 50mm |

## DIN 938

### Metric
**Steel - Plain Finishes**
End "n" approximately 1 x diameter

| | | |
|---|---|---|
| **616-115** | M8 x 1.25 | 30mm |
| **616-116** | M12 x 1.75 | 120mm |
| **616-117ZP** (Zinc Plated) | M16 x 2.00 | 40mm |
| **616-118YZ** (Yellow Zinc) | M10 x 1.50 | 100mm |
| **616-119YZ** (Yellow Zinc) | M20 x 2.50 | 60mm |

## DIN 835

### Metric Property Class 8.8 Steel
Plain Finish
End "n" approximately 2 x diameter

| SPAENAUR No. | Dia. x Pitch | (L) Lgth. | O/A Length |
|---|---|---|---|
| **616-002** | M10 x 1.50 | 130mm | 150mm |
| **616-003** | M12 x 1.75 | 70mm | 94mm |
| **616-002YZ** (Yellow Zinc) | M10 x 1.50 | 130mm | 150mm |
| **616-001YZ** (Yellow Zinc) | M10 x 1.50 | 210mm | 230mm |
| **616-127** Property Class 5.8 | M14 x 2.00 | 90mm | 118mm |

## DIN 976-2

### Metric Threaded Pins
**Free-cutting Steel**



**Coarse Thread**

Threaded full Length
Chamfered both ends.

| SPAENAUR No. | Dia. x Pitch | Length | Finish |
|---|---|---|---|
| **616-121** | M10 x 1.50 | 25mm | Plain |
| **616-121YZ** | M10 x 1.50 | 25mm | Yellow Zinc |
| **616-121ZP** | M10 x 1.50 | 25mm | Zinc Plated |
| **616-804ZP** | M10 x 1.50 | 40mm | Zinc Plated |

Contact Sales Desk For Package Quantities



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B

Heat-treated Alloy
# STEEL

NOT PLATED

**Half-dog Point**

*Polished* **Square Head**



Tool Room Necessities
Nécessités pour la place aux outils

# TOOL POST SCREWS

| Diameter and Thread | Length under Collar | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **1/4" (.250) 20 UNC** | 3/4" | **486-200** | 5 |
| | 1" | **486-201** | 5 |
| | 1-1/4" | **486-202** | 5 |
| | 1-1/2" | **486-203** | 5 |
| **5/16" (.3125) 18 UNC** | 3/4" | **486-204** | 5 |
| | 1" | **486-205** | 5 |
| | 1-1/4" | **486-206** | 5 |
| | 1-1/2" | **486-207** | 5 |
| | 1-3/4" | **486-208** | 5 |
| | 2" | **486-209** | 5 |
| **3/8" (.375) 16 UNC** | 3/4" | **486-210** | 5 |
| | 1" | **486-211** | 5 |
| | 1-1/4" | **486-212** | 5 |
| | 1-1/2" | **486-213** | 5 |
| | 1-3/4" | **486-214** | 5 |
| | 2" | **486-215** | 5 |
| | 2-1/4" | **486-216** | 5 |
| | 2-1/2" | **486-217** | 5 |
| **7/16" (.4375) 14 UNC** | 1" | **486-218** | 5 |
| | 1-1/4" | **486-219** | 5 |
| | 1-1/2" | **486-220** | 5 |
| | 1-3/4" | **486-221** | 5 |
| | 2" | **486-222** | 5 |
| **1/2" (.500) 13 UNC** | 1" | **486-223** | 5 |
| | 1-1/4" | **486-224** | 5 |
| | 1-1/2" | **486-225** | 5 |
| | 1-3/4" | **486-226** | 5 |
| | 2" | **486-227** | 5 |
| | 2-1/4" | **486-228** | 5 |
| | 2-1/2" | **486-229** | 5 |
| | 3" | **486-231** | 5 |

| Diameter and Thread | Length under Collar | *SPAENAUR No.* | PKG QTY. |
|---|---|---|---|
| **9/16" (.5625) 12 UNC** | 1-1/2" | **486-232** | 5 |
| | 2-1/2" | **486-234** | 5 |
| | 3" | **486-235** | 5 |
| **5/8" (.625) 11 UNC** | 1-1/2" | **486-236** | 5 |
| | 1-3/4" | **486-237** | 5 |
| | 2" | **486-238** | 5 |
| | 2-1/4" | **486-239** | 5 |
| | 2-1/2" | **486-240** | 5 |
| | 2-3/4" | **486-241** | 5 |
| | 3" | **486-242** | 5 |
| | 3-1/2" | **486-244** | 5 |
| | 4" | **486-245** | 5 |
| **3/4" (.750) 10 UNC** | 1-1/2" | **486-246** | 5 |
| | 1-3/4" | **486-247** | 5 |
| | 2" | **486-248** | 5 |
| | 2-1/4" | **486-249** | 5 |
| | 2-1/2" | **486-250** | 5 |
| | 2-3/4" | **486-251** | 5 |
| | 3" | **486-252** | 5 |
| | 3-1/4" | **486-253** | 5 |
| | 3-1/2" | **486-254** | 5 |
| | 4" | **486-255** | 5 |

**See also...**

**Inch Square Head Set Screws, Cup Point, UNC - see page B244.**

**12 Point, "Countr-Bor" Screws, with Shoulder, UNC - see page B210.**



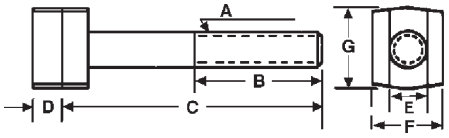
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# T-Slot Bolts

## Steel – Black oxide finish

Used for setting up work on planers, shapers, milling machines or similar applications. Heads are sized to fit in table slot giving more bearing surface and to prevent twisting or jamming. Upset forged from AISI 1045 for strength.

**Tool Room Necessities**
**Nécessités pour la place aux outils**






**INCH Sizes**

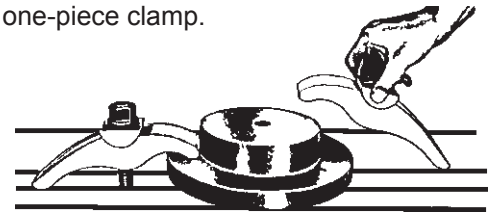
| *SPAENAUR No.* | Thread A | All Dimensions Stated in Inches B | C | D | E | F | G | PKG QTY. |
|---|---|---|---|---|---|---|---|---|
| **070-001** | 3/8-16 | 5/8 | 1 | 13/64 | 3/8 | 5/8 | 3/4 | 1 |
| **070-002** | 3/8-16 | 1 | 1-1/2 | 13/64 | 3/8 | 5/8 | 3/4 | 1 |
| **070-003** | 3/8-16 | 1-1/4 | 2 | 13/64 | 3/8 | 5/8 | 3/4 | 1 |
| **070-004** | 1/2-13 | 1 | 1-1/2 | 1/4 | 1/2 | 13/16 | 1 | 1 |
| **070-005** | 1/2-13 | 1-1/4 | 2 | 1/4 | 1/2 | 13/16 | 1 | 1 |
| **070-006** | 1/2-13 | 1-1/2 | 2-1/2 | 1/4 | 1/2 | 13/16 | 1 | 1 |
| **070-007** | 5/8-11 | 1-1/4 | 2 | 5/16 | 5/8 | 1-1/64 | 1-1/8 | 1 |
| **070-008** | 5/8-11 | 1-1/2 | 3 | 5/16 | 5/8 | 1-1/64 | 1-1/8 | 1 |
| **070-009** | 5/8-11 | 1-1/2 | 4 | 5/16 | 5/8 | 1-1/64 | 1-1/8 | 1 |
| **070-010** | 3/4-10 | 1-1/2 | 4 | 3/8 | 3/4 | 1-1/4 | 1-3/8 | 1 |
| **070-011** | 3/4-10 | 1-1/2 | 5 | 3/8 | 3/4 | 1-1/4 | 1-3/8 | 1 |
| **070-012** | 3/4-10 | 2 | 6 | 3/8 | 3/4 | 1-1/4 | 1-3/8 | 1 |
| **070-013** | 1"-8 | 2 | 5 | 1/2 | 1 | 1-21/32 | 1-7/8 | 1 |
| **070-014** | 1"-8 | 2 | 6 | 1/2 | 1 | 1-21/32 | 1-7/8 | 1 |
| **070-015** | 1"-8 | 3 | 8 | 1/2 | 1 | 1-21/32 | 1-7/8 | 1 |

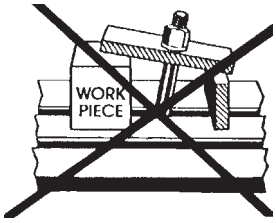
# RITE HITE

**Self-positioning Hold-down Clamps**

## You Can't Set Up Quicker

Rugged fully adjustable one-piece clamp.






**PKG QTY. 1**

**MODEL S - Shorter for Closer Set-ups**

| *SPAENAUR No.* | MAX. BOLT SIZE | NOMINAL CLAMPING RANGE | NOMINAL DIMENSIONS | WEIGHT |
|---|---|---|---|---|
| **086-020** | 3/8" | 0" to 1" | 1-1/8" x 3" | 1/2 lb. |
| **086-021** | 1/2" | 0" to 1-3/4" | 1-3/8" x 4-1/4" | 1 lb. |
| **086-022** | 5/8" | 0" to 2-3/4" | 1-7/8" x 5-1/2" | 2 lbs. |
| **086-023** | 3/4" | 0" to 3-1/2" | 2" x 7" | 4 lbs. |
| **086-024** | 1" | 0" to 3" | 2-7/8" x 9" | 10 lbs. |

**MODEL L - Longer Reach**

| *SPAENAUR No.* | MAX. BOLT SIZE | NOMINAL CLAMPING RANGE | NOMINAL DIMENSIONS | WEIGHT |
|---|---|---|---|---|
| **086-025** | 3/8" | 0" to 1-1/4" | 1-1/8" x 3-1/2" | 1/2 lb. |
| **086-026** | 1/2" | 0" to 2-1/2" | 1-7/16" x 5-3/4" | 1-1/4 lbs. |
| **086-027** | 5/8" | 0" to 3-1/2" | 1-7/8" x 6-3/4" | 2-1/2 lbs. |
| **086-028** | 3/4" | 0" to 5" | 2-1/8" x 9" | 4-3/4 lbs. |
| **086-029** | 1" | 0" to 5" | 2-7/8" x 11-1/8" | 12 lbs. |



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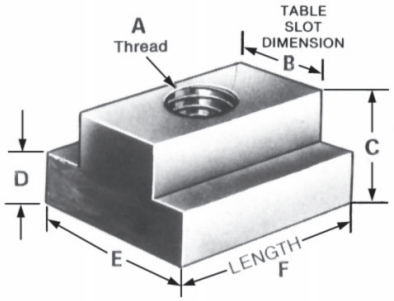
B

**Tool Room Necessities**
**Nécessités pour la place aux outils**

# T-SLOT NUTS

**Hardened Steel**
Black Oxide Finish

**Inch Sizes**



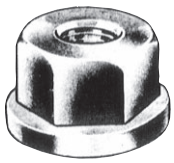

Made to fit all standard machine tables. An imperfect thread is left in the T-Nut base to eliminate any danger of screwing the stud through the T-Nut and damaging the table slot. Also, hardened machine surfaces will not damage underside of T-slot.

**PKG QTY. 1**

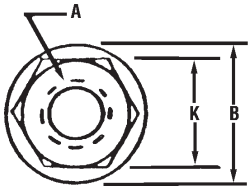
**T-SLOT NUTS and RITE HITE Clamps**
Use them with
**T SLOT BOLTS**
see page B297.

| *SPAENAUR No.* | A THREAD | B SLOT | C | D | E | F LENGTH |
|---|---|---|---|---|---|---|
| **226-319** | 1/4-20 | 5/16 | 1/4 | 3/16 | 9/16 | 9/16 |
| **226-320** | 1/4-20 | 3/8 | 3/8 | 15/64 | 9/16 | 9/16 |
| **226-009** | 5/16-18 | 3/8 | 1/2 | 3/16 | 5/8 | 7/8 |
| **226-321** | 5/16-18 | 3/8 | 3/8 | 1/4 | 5/8 | 7/8 |
| **226-310** | 3/8-16 | 7/16 | 1/2 | 7/32 | 11/16 | 7/8 |
| **226-311** | 3/8-16 | 1/2 | 1/2 | 9/32 | 7/8 | 7/8 |
| **226-322** | 3/8-16 | 9/16 | 5/8 | 11/32 | 7/8 | 1-1/8 |
| **226-324** | 7/16-14 | 1/2 | 3/8 | 7/32 | 3/4 | 7/8 |
| **226-312** | 1/2-13 | 9/16 | 5/8 | 11/32 | 7/8 | 1-1/8 |
| **226-313** | 1/2-13 | 5/8 | 5/8 | 11/32 | 1 | 1-1/8 |
| **226-325** | 1/2-13 | 5/8 | 3/4 | 3/8 | 1-1/8 | 1-1/8 |
| **226-326** | 1/2-13 | 11/16 | 3/4 | 7/16 | 1-1/8 | 1-1/4 |
| **226-314** | 5/8-11 | 11/16 | 3/4 | 7/16 | 1-1/8 | 1-1/4 |
| **226-315** | 5/8-11 | 3/4 | 3/4 | 15/32 | 1-1/4 | 1-1/4 |
| **226-328** | 5/8-11 | 13/16 | 1 | 9/16 | 1-1/4 | 1-1/2 |
| **226-316** | 3/4-10 | 13/16 | 1 | 9/16 | 1-1/4 | 1-1/2 |
| **226-317** | 3/4-10 | 7/8 | 1 | 9/16 | 1-1/2 | 1-1/2 |
| **226-318** | 3/4-10 | 1 | 1 | 5/8 | 1-5/8 | 1-3/4 |
| **226-G25-1W** | 3/4-10 | 1 | 1-1/3 | 3/4 | 1-3/4 | 1-3/4 |
| **226-330** | 3/4-10 | 1-1/16 | 1-1/8 | 11/16 | 1-5/8 | 2 |
| **226-331** | 7/8-9 | 1 | 1 | 5/8 | 1-5/8 | 1-3/4 |
| **226-332** | 7/8-9 | 1-1/16 | 1-1/8 | 11/16 | 1-5/8 | 2 |
| **226-333** | 7/8-9 | 1-1/8 | 1-1/2 | 3/4 | 1-3/4 | 2 |
| **226-337** | 7/8-9 | 1-5/16 | 1-1/4 | 15/16 | 2 | 2 |
| **226-334** | 1-8 | 1-1/16 | 1-1/8 | 11/16 | 1-5/8 | 2 |
| **226-335** | 1-8 | 1-1/8 | 1-1/2 | 3/4 | 1-3/4 | 2 |
| **226-336** | 1-8 | 1-1/4 | 1-1/4 | 7/8 | 2 | 2 |
| **226-338** | 1-8 | 1-5/16 | 1-1/4 | 15/16 | 2 | 2 |

# FLANGE NUTS



**Hardened Steel**
Black Oxide Finish




**PKG QTY. 6**




**Inch Sizes**

| *SPAENAUR No.* | A THREAD | B O/A Dia. | C O/A Thick. | K Across Flats |
|---|---|---|---|---|
| **155-230** | 1/4"-20 | 5/8 | 5/16 | 1/2 |
| **155-231** | 5/16"-18 | 3/4 | 3/8 | 9/16 |
| **155-232** | 3/8"-16 | 7/8 | 1/2 | 11/16 |
| **155-241** | 7/16"-14 | 1 | 9/16 | 3/4 |
| **155-234** | 1/2"-13 | 1-1/8 | 11/16 | 7/8 |
| **155-235** | 5/8"-11 | 1-3/8 | 13/16 | 1-1/16 |
| **155-236** | 3/4"-10 | 1-5/8 | 1 | 1-1/4 |
| **155-237** | 7/8"-9 | 1-3/4 | 1-1/8 | 1-7/16 |
| **155-238** | 1"-8 | 2 | 1-1/4 | 1-5/8 |
| **155-240** | 1-1/4"-7 | 2-1/4 | 1-1/4 | 1-7/8 |

**More Flange Nuts - see pages C36 to C38, & B299.**





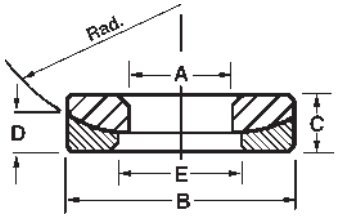
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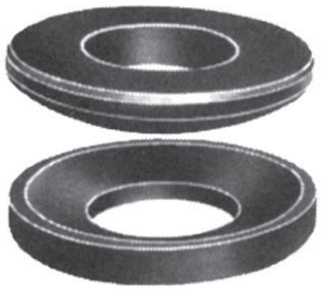
## Self-Aligning Washers (Spherical)

Tool Room Necessities
Nécessités pour la place aux outils

Heat Treated Steel.
Black Oxide Finish.
Tops and bottoms available separately.
Bottom half works with Spherical Flanged Nuts (see below).

Spherical Washers for bolts larger than 2" available.
Ask for price and delivery.



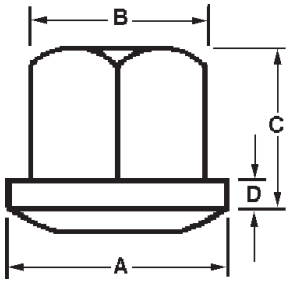



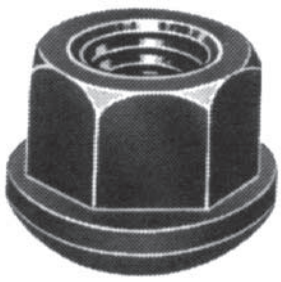
| *SPAENAUR No.* Top | Bottom | Bolt Size | A | B | C | D | E | R | PKG QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **656-250** | **656-259** | 1/4" | 9/32" | 5/8" | 3/16" | 1/8" | 5/16" | 3/4" | 10 |
| **656-251** | **656-260** | 5/16" | 11/32" | 3/4" | 1/4" | 5/32" | 3/8" | 1" | 10 |
| **656-252** | **656-261** | 3/8" | 13/32" | 7/8" | 1/4" | 5/32" | 7/16" | 1-1/4" | 10 |
| **656-253** | **656-262** | 7/16" | 15/32" | 1" | 5/16" | 7/32" | 1/2" | 1-3/4" | 10 |
| **656-254** | **656-263** | 1/2" | 17/32" | 1-1/8" | 5/16" | 7/32" | 9/16" | 1-1/2" | 10 |
| **656-255** | **656-264** | 5/8" | 21/32" | 1-3/8" | 5/16" | 7/32" | 11/16" | 1-3/4" | 10 |
| **656-256** | **656-265** | 3/4" | 25/32" | 1-5/8" | 3/8" | 9/32" | 13/16" | 2-1/4" | 5 |
| **656-B62-1P** | **656-266** | 7/8" | 15/16" | 1-3/4" | 3/8" | 1/4" | 1" | 2-1/2" | 5 |
| **656-258** | **656-267** | 1" | 1-1/16" | 2" | 1/2" | 5/16" | 1-1/8" | 2-3/4" | 5 |
| **656-271** | **656-272** | 2" | 2-1/16" | 3-7/8" | 3/4" | 9/16" | 2-1/8" | 4" | 1 |

## Spherical Flanged Nut

Heat Treated Steel.
Black Oxide Finish.

Spherical Flanged Nut works with bottom Self-Aligning Washer shown above.



| *SPAENAUR No.* | Thread Size | A | B | C | D | PKG QTY. |
|---|---|---|---|---|---|---|
| **155-216** | 1/4"-20 | 5/8" | 1/2" | 5/16" | 3/32" | 10 |
| **155-217** | 5/16"-18 | 3/4" | 9/16" | 3/8" | 3/32" | 10 |
| **155-218** | 3/8"-16 | 7/8" | 11/16" | 1/2" | 1/8" | 10 |
| **155-219** | 7/16"-14 | 1" | 3/4" | 9/16" | 5/32" | 10 |
| **155-220** | 1/2"-13 | 1-1/8" | 7/8" | 11/16" | 5/32" | 10 |
| **155-221** | 5/8"-11 | 1-3/8" | 1-1/16" | 13/16" | 3/16" | 10 |
| **155-222** | 3/4"-10 | 1-5/8" | 1-1/4" | 1" | 1/4" | 5 |
| **155-223** | 7/8"-9 | 1-3/4" | 1-7/16" | 1-1/8" | 1/4" | 5 |
| **155-224** | 1"-8 | 2" | 1-5/8" | 1-1/4" | 1/4" | 5 |



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B

# METRIC T-Slot Bolts

Used for setting up work on planers, shapers, milling machines or similiar applications. Forged, with milled T-slot guide-faces, rolled thread.

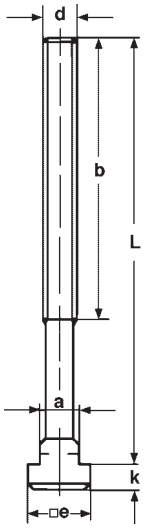
(M6-M12 heat-treated to strength class 10.9, M14-M42 to class 8.8)

Black Oxide Finish

**Tool Room Necessities**
**Nécessités pour la place aux outils**



**DIN 787**




| SPAENAUR No. | All Dimensions Stated in Millimetres<br>Thread Dia. x a (nom.) x L | b | a | e | k | PKG QTY. |
|---|---|---|---|---|---|---|
| 070-100 | M6 x 6 x 25 | 15 | 5.7 | 10 | 4 | 1 |
| 070-101 | M6 x 6 x 40 | 28 | 5.7 | 10 | 4 | 1 |
| 070-102 | M8 x 8 x 32 | 22 | 7.7 | 13 | 6 | 1 |
| 070-103 | M8 x 8 x 50 | 35 | 7.7 | 13 | 6 | 1 |
| 070-104 | M10 x 10 x 40 | 30 | 9.7 | 15 | 6 | 1 |
| 070-105 | M12 x 12 x 50 | 35 | 11.7 | 18 | 7 | 1 |
| 070-106 | M12 x 12 x 80 | 55 | 11.7 | 18 | 7 | 1 |
| 070-107 | M12 x 14 x 50 | 35 | 13.7 | 22 | 8 | 1 |
| 070-108 | M12 x 14 x 80 | 55 | 13.7 | 22 | 8 | 1 |
| *070-109 | M14 x 16 x 63 | 45 | 15.7 | 25 | 9 | 1 |
| *070-110 | M14 x 16 x 100 | 65 | 15.7 | 25 | 9 | 1 |
| 070-111 | M16 x 18 x 80 | 55 | 17.7 | 28 | 10 | 1 |
| 070-112 | M16 x 18 x 160 | 100 | 17.7 | 28 | 10 | 1 |
| *070-113 | M20 x 20 x 160 | 110 | 19.7 | 32 | 12 | 1 |
| *070-114 | M20 x 22 x 160 | 110 | 21.7 | 35 | 14 | 1 |
| *070-115 | M24 x 24 x 200 | 125 | 23.7 | 40 | 16 | 1 |
| 070-116 | M24 x 28 x 250 | 150 | 27.7 | 44 | 18 | 1 |

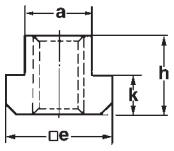
*Sizes not included in DIN Standard

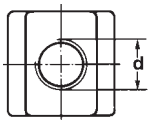
**DIN 508**

# METRIC T-Slot Nuts

Tempered to tensile strength class 10.
The max. load capacity is allowed with the total thread reach of the nut.






| SPAENAUR No. | All Dimensions Stated in Millimetres<br>Thread Dia. x a (nom.) | a | e | h | k | PKG QTY. |
|---|---|---|---|---|---|---|
| 226-400 | M6 x 8 | 7.7 | 13 | 10 | 6 | 1 |
| 226-401 | M8 x 10 | 9.7 | 15 | 12 | 6 | 1 |
| 226-402 | M10 x 12 | 11.7 | 18 | 14 | 7 | 1 |
| 226-403 | M12 x 14 | 13.7 | 22 | 16 | 8 | 1 |
| 226-404 | M14 x 16 | 15.7 | 25 | 18 | 9 | 1 |
| 226-405 | M16 x 18 | 17.7 | 28 | 20 | 10 | 1 |
| 226-406 | M20 x 22 | 21.7 | 35 | 28 | 14 | 1 |
| 226-407 | M24 x 28 | 27.7 | 44 | 36 | 18 | 1 |
| 226-408 | M30 x 36 | 35.6 | 54 | 44 | 22 | 1 |



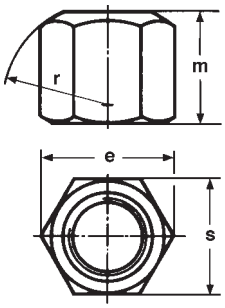

P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

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## METRIC Fixture Nut

**DIN 6330-B**





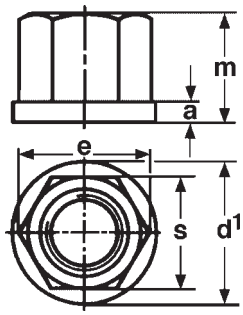

GRADE A STEEL (May contain some lead)
Tensile strength class 8 or 10.
With one spherical bearing face.
Flat end matching hardened washers DIN 6340.

| *SPAENAUR No.* | All Dimensions Stated in Millimetres Thread | s | e | m (1.5d) | r | PKG QTY. |
|---|---|---|---|---|---|---|
| **156-383** | M6 | 10 | 11.5 | 9 | 9 | 25 |
| **156-384** | M8 | 13 | 15.0 | 12 | 11 | 25 |
| **156-F08-1N** | M10 | 16 | 18.2 | 15 | 15 | 25 |
| **156-386** | M12 | 18 | 20.4 | 18 | 17 | 25 |
| **156-387** | M14 | 21 | 23.8 | 21 | 20 | 25 |
| **156-388** | M16 | 24 | 27.7 | 24 | 22 | 25 |
| **156-389** | M18 | 27 | 31.2 | 27 | 24 | 25 |
| **156-353** | M20 | 30 | 34.6 | 30 | 27 | 25 |
| **156-390** | M22 | 34 | 38.6 | 33 | 30 | 10 |
| **156-391** | M24 | 36 | 41.6 | 36 | 32 | 10 |
| **156-392** | M27 | 41 | 47.3 | 40 | 36 | 10 |
| **156-393** | M30 | 46 | 53.1 | 45 | 41 | 10 |
| **156-394** | M36 | 55 | 63.5 | 54 | 50 | 1 |
| **156-395** | M42 | 65 | 75.0 | 63 | 58 | 1 |

## METRIC Collar Nut

**DIN 6331**






GRADE A STEEL (may contain some lead)
Turned and milled.
Tensile strength class 8 or 10.

| *SPAENAUR No.* | All Dimensions Stated in Millimetres Thread | s | e | m (1.5d) | a | $d^1$ | PKG QTY. |
|---|---|---|---|---|---|---|---|
| **156-397** | M6 | 10 | 11.5 | 9 | 3 | 14 | 10 |
| **156-398** | M8 | 13 | 15.0 | 12 | 3.5 | 18 | 10 |
| **156-399** | M10 | 16 | 19.6 | 15 | 4 | 22 | 10 |
| **156-400** | M12 | 18 | 21.9 | 18 | 4 | 25 | 10 |
| **156-401** | M14 | 22 | 25.4 | 21 | 4.5 | 28 | 10 |
| **156-402** | M16 | 24 | 27.7 | 24 | 5 | 31 | 10 |
| **156-403** | M18 | 27 | 31.2 | 27 | 5 | 34 | 5 |
| **156-404** | M20 | 30 | 34.6 | 30 | 6 | 37 | 5 |
| **156-405** | M22 | 32 | 36.9 | 33 | 6 | 40 | 1 |
| **156-406** | M24 | 36 | 41.6 | 36 | 6 | 45 | 1 |
| **156-407** | M27 | 41 | 47.3 | 40 | 7 | 50 | 1 |
| **156-408** | M30 | 46 | 53.1 | 45 | 8 | 58 | 1 |
| **156-411** | M48 | 75 | 86.5 | 72 | 14 | 92 | 1 |





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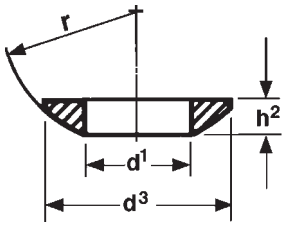
B

# METRIC
## Spherical Seat Washer
Case Hardened Steel - Black

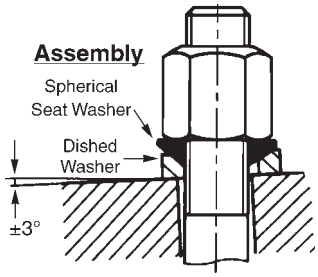
**DIN 6319C**



**Tool Room Necessities**
**Nécessités pour la place aux outils**



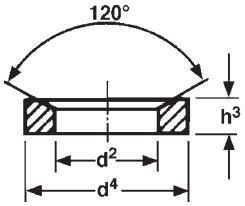

| SPAENAUR No. | Nominal Size | All Dimensions in Millimetres d1 | d3 | h2 | r | PKG QTY. |
|---|---|---|---|---|---|---|
| 657-320 | M6 | 6.4 | 12 | 2.3 | 9 | 50 |
| 657-321 | M8 | 8.4 | 17 | 3.2 | 12 | 50 |
| 657-322 | M10 | 10.5 | 21 | 4.0 | 15 | 50 |
| 657-323 | M12 | 13.0 | 24 | 4.6 | 17 | 25 |
| 657-324 | M14 | 15.0 | 28 | 5.0 | 22 | 25 |
| 657-325 | M16 | 17.0 | 30 | 5.3 | 22 | 25 |
| 657-326 | M20 | 21.0 | 36 | 6.3 | 27 | 10 |
| 657-327 | M24 | 25.0 | 44 | 8.2 | 32 | 5 |
| 657-285 | M30 | 31.0 | 56 | 11.2 | 41 | 1 |
| 657-328 | M36 | 37.0 | 68 | 14.0 | 50 | 1 |
| 657-329 | M42 | 43.0 | 78 | 17.0 | 58 | 1 |
| 657-330 | M48 | 50.0 | 92 | 21.0 | 67 | 1 |




**DIN 6319D**



# METRIC
## Dished Washer
Case Hardened Steel - Black




| SPAENAUR No. | Nominal Size | All Dimensions in Millimetres d2 | d4 | h3 | PKG QTY. |
|---|---|---|---|---|---|
| 657-331 | M6 | 7.1 | 12 | 2.8 | 50 |
| 657-332 | M8 | 9.6 | 17 | 3.5 | 50 |
| 657-333 | M10 | 12.0 | 21 | 4.2 | 50 |
| 657-334 | M12 | 14.2 | 24 | 5.0 | 25 |
| 657-335 | M14 | 16.5 | 28 | 5.6 | 25 |
| 657-336 | M16 | 19.0 | 30 | 6.2 | 25 |
| 657-337 | M20 | 23.2 | 36 | 7.5 | 10 |
| 657-338 | M24 | 28.0 | 44 | 9.5 | 5 |
| 657-283 | M30 | 35.0 | 56 | 12.0 | 1 |
| 657-339 | M36 | 42.0 | 68 | 15.0 | 1 |
| 657-340 | M42 | 49.0 | 78 | 18.0 | 1 |
| 657-341 | M48 | 56.0 | 92 | 22.0 | 1 |

These washers serve to transmit clamping forces in cases where the clamping elements have to compensate uneven surfaces. The combined application of spherical seat washer with respective nuts DIN 6330 with dished washers allows a 3° deviation from squareness of bolt and work.

**DIN 6319G**



Dished Washer with larger diameter to bridge the slots of clamps, available upon request.



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NEW



## CEDAR DECK & FENCE SCREWS - SQUARE SOCKET - FLAT HEAD UNC

STEEL, DURADIZED II COATED, ACQ APPROVED



B

High quality Paulin® Cedar Deck Screws are compatible with ACQ treated wood. The DURADIZED II coating is formulated to prevent rust, staining, or streaking. Call for pricing.

DIMENSIONS IN INCHES (IN)

| SPAENAUR # | Screw Size | Overall Length | PKG QTY. | |
|---|---|---|---|---|
| | | | Packaging | Pail |
| 593-K38-1Y | #6 | 1-5/8” | 500 | |
| 593-K64-1Y | | | | 3000 |
| 593-K42-1N | #8 | 1-1/2” | 600 | |
| 593-K43-1T | | 1-3/4” | 500 | |
| 593-K44-1K | | 2” | 400 | |
| 593-K39-1C | | | 500 | |
| 593-K65-1C | | | | 1800 |
| 593-K40-1Y | | 2 -1/2” | 350 | |
| 593-K67-1T | | | | 1200 |
| 593-K45-1W | | | 250 | |
| 593-K46-1M | | 3” | 200 | |
| 593-K41-1C | | | 250 | |
| 593-K66-1N | | | | 1000 |
| 593-K47-1X | #10 | 3-1/2” | 125 | |
| 593-K68-1K | | | | 500 |

NEW



## GREEN DECK & FENCE SCREWS - SQUARE SOCKET - FLAT HEAD UNC

STEEL, DURADIZED II COATED, ACQ APPROVED



High quality Paulin® Green Deck Screws are compatible with ACQ treated wood. The DURADIZED II coating is formulated to prevent rust, staining, or streaking. Call for pricing.

DIMENSIONS IN INCHES (IN)

| SPAENAUR # | Screw Size | Overall Length | PKG QTY. | |
|---|---|---|---|---|
| | | | Packaging | Pail |
| 593-K26-1Y | #6 | 1-5/8” | 500 | |
| 593-K59-1X | | | | 3000 |
| 593-K28-1N | #8 | 1-1/4” | 500 | |
| 593-K29-1T | | 1-1/2” | | |
| 593-K32-1K | | | 600 | |
| 593-K33-1W | | 1-3/4” | 500 | |
| 593-K34-1M | | 2” | 400 | |
| 593-K27-1C | | | 500 | |
| 593-K60-1M | | | | 1000 |
| 593-K35-1X | | 2-1/2” | 250 | |
| 593-K30-1N | | | 350 | |
| 593-K61-1X | | | | 1200 |
| 593-K36-1A | | 3” | 200 | |
| 593-K31-1T | | | 250 | |
| 593-K62-1A | | | | 800 |
| 593-K37-1P | #10 | 3-1/2” | 125 | |
| 593-K63-1P | | | | 500 |



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P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com



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NEW



## CONSTRUCTION SCREW, SQUARE SOCKET FLAT HEAD UNC

YELLOW ZINC PLATED - NOT FOR ACQ LUMBER



High quality Paulin® construction screws are also available in yellow zinc. **Not suitable for use with ACQ treaded wood.** Call for pricing.

DIMENSIONS IN INCHES (IN)

| SPAENAUR # | Screw Size | Overall Length | PKG QTY. | |
|---|---|---|---|---|
| | | | Packaging | Pail |
| **593-K48-1A** | #6 | 1-5/8” | 500 | |
| **593-K69-1W** | | | | 3000 |
| **593-K52-1Y** | #8 | 1-1/4 | 700 | |
| **593-K53-1C** | | 1-1/2 | 600 | |
| **593-K54-1N** | | 1-3/4” | 500 | |
| **593-K55-1T** | | 2” | 400 | |
| **593-K49-1P** | | | 500 | |
| **593-K72-1M** | | | | 1800 |
| **593-K56-1K** | | 2-1/2” | 250 | |
| **593-K50-1A** | | | 350 | |
| **593-K70-1K** | | | | 1200 |
| **593-K57-1W** | | 3” | 200 | |
| **593-K51-1P** | | | 250 | |
| **593-K71-1W** | | | | 1000 |
| **593-K58-1M** | #10 | 3-1/2” | 125 | |
| **593-K73-1X** | | | 500 | |

NEW



## RED SQUARE SOCKET DRIVER BIT

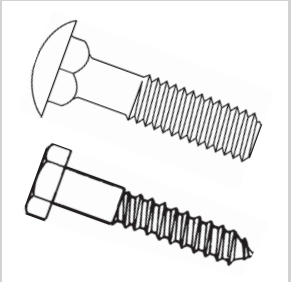
S2 STEEL,ZINC PLATED



High-quality, shatter proof square driver bits allow higher torque and more control through reduced screw slippage. Call for pricing.

DIMENSIONS IN INCHES (IN)

| SPAENAUR # | Size | Overall Length | PKG QTY. |
|---|---|---|---|
| **876-F55-1N** | #2 | 2” | 10 |



## CARRIAGE BOLTS

**See Carriage Bolts starting on page B258**

## LAG SCREWS

**See Lag Screws on page B256**



## WASHERS

**See Washers starting on page D2**

Call us toll free at **1-800-265-8772**



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NEW



(Plate sold separately)

## U-BOLT (WITH NUTS) & STRAP PLATE

Low carbon steel black oxide

- Can be Welded.
- Improved Lubrication Characteristics
- Will not Chip, Flake, Peel or Rub off
  No White Corrosion
  No Hydrogen Embrittlement

B

| U-Bolt with Nuts SPAENAUR No. | Thread Size | Inside Length | I.D. | For Nominal Pipe Size | U-Bolt Plate SPAENAUR No. (Sold Separately) | PKG QTY. |
|---|---|---|---|---|---|---|
| **030-L02-1X** | 1/4-20 | 1-1/4” | 3/4” | 3/8” | **030-L28-1P** | 10 |
| **030-L03-1A** | 1/4-20 | 2-1/4” | 3/4” | 3/8” | **030-L29-1Y** | 10 |
| **030-L04-1P** | 1/4-20 | 1-3/4” | 1” | 1/2” | **030-L30-1P** | 10 |
| **030-L05-1Y** | 1/4-20 | 2” | 1-1/8” | 3/4” | **030-L31-1Y** | 10 |
| **030-L06-1C** | 1/4-20 | 2-3/4” | 1-1/2” | 1” | **030-L32-1C** | 10 |
| **030-L07-1N** | 1/4-20 | 3” | 1-3/4” | 1-1/4” | **030-L33-1N** | 10 |
| **030-L08-1T** | 5/16-18 | 2-3/16” | 1” | 1/2” | **030-L34-1T** | 10 |
| **030-L09-1K** | 5/16-18 | 2-3/16” | 1-3/8” | 1” | **030-L35-1K** | 10 |
| **030-L10-1T** | 5/16-18 | 2-3/16” | 1-1/2” | 1” | **030-L36-1W** | 10 |
| **030-L11-1K** | 5/16-18 | 2-11/16” | 1-3/4” | 1-1/4” | **030-L37-1M** | 10 |
| **030-L12-1W** | 5/16-18 | 2-11/16” | 2” | 1-1/2” | **030-L38-1X** | 10 |
| **030-L13-1M** | 5/16-18 | 3-3/16” | 2-1/2” | 2” | **030-L39-1A** | 10 |
| **030-L14-1X** | 5/16-18 | 3-11/16” | 3” | 2-1/2” | **030-L40-1X** | 10 |
| **030-L15-1A** | 3/8-16 | 2-1/4” | 1” | 1/2” | **030-L41-1A** | 10 |
| **030-L16-1P** | 3/8-16 | 2-1/4” | 1-1/4” | 3/4” | **030-L42-1P** | 10 |
| **030-L17-1Y** | 3/8-16 | 2-1/2” | 1-1/2” | 1” | **030-L43-1Y** | 10 |
| **030-L18-1C** | 3/8-16 | 2-3/4” | 1-3/4” | 1-1/4” | **030-L44-1C** | 10 |
| **030-L19-1N** | 3/8-16 | 3-1/8” | 2-1/2” | 2” | **030-L45-1N** | 10 |
| **030-L20-1C** | 3/8-16 | 3-5/8” | 3” | 2-1/2” | **030-L46-1T** | 10 |
| **030-L21-1N** | 3/8-16 | 4-1/8” | 3-1/2” | 3” | **030-L47-1K** | 10 |
| **030-L22-1T** | 1/2-13 | 4-1/2” | 3” | 2-1/2” | **030-L48-1W** | 1 |
| **030-L23-1K** | 1/2-13 | 5” | 3-1/2” | 3” | **030-L49-1M** | 1 |
| **030-L24-1W** | 1/2-13 | 5-1/2” | 4” | 3” | **030-L50-1W** | 1 |
| **030-L25-1M** | 1/2-13 | 6” | 4-1/2” | 4” | **030-L51-1M** | 1 |
| **030-L26-1X** | 1/2-13 | 7-1/4” | 5-5/8” | 5” | - | 1 |
| **030-L27-1A** | 1/2-13 | 10-3/8” | 8-3/4” | 8” | - | 1 |



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NEW



## BENT EYE BOLT WITH NUT

LOW CARBON COLD DRAWN STEEL WIRE BLACK OXIDE

DIMENSIONS IN INCHES (IN)

| SPAENAUR # | Thread Size | Overall Length | I.D. EYE | PKG QTY. |
|---|---|---|---|---|
| **024-T07-1N** | 8-32 | 1-11/16” | 1/4” | 50 |
| **024-T08-1T** | 10-24 | 1-11/16” | 3/8” | 50 |
| **024-T09-1K** | 10-24 | 2” | 5/16” | 50 |
| **024-T10-1T** | 10-24 | 2-11/16” | 3/8” | 50 |
| **024-T11-1K** | 10-24 | 3-11/16” | 3/8” | 50 |
| **024-T12-1W** | 12-24 | 2-1/4” | 3/8” | 50 |
| **024-T13-1M** | 1/4-20 | 2” | 1/2” | 10 |
| **024-T14-1X** | 1/4-20 | 2-1/2” | 1/2” | 10 |
| **024-T15-1A** | 1/4-20 | 3” | 1/2” | 10 |
| **024-T16-1P** | 1/4-20 | 3-1/2” | 1/2” | 10 |
| **024-T17-1Y** | 1/4-20 | 4” | 1/2” | 10 |
| **024-T18-1C** | 1/4-20 | 5” | 1/2” | 10 |
| **024-T19-1N** | 1/4-20 | 6” | 1/2” | 10 |
| **024-T20-1C** | 1/4-20 | 7” | 1/2” | 10 |
| **024-T21-1N** | 5/16-18 | 2-1/8” | 5/8” | 10 |
| **024-T22-1T** | 5/16-18 | 3-1/8” | 5/8” | 10 |
| **024-T23-1K** | 5/16-18 | 4-1/8” | 5/8” | 10 |
| **024-T24-1W** | 5/16-18 | 5-1/8” | 5/8” | 10 |
| **024-T25-1M** | 5/16-18 | 6-1/8” | 5/8” | 10 |
| **024-T26-1X** | 5/16-18 | 7-1/8” | 5/8” | 10 |
| **024-T27-1A** | 5/16-18 | 7-3/4” | 7/8” | 10 |
| **024-T28-1P** | 3/8-16 | 2-1/2” | 3/4” | 10 |
| **024-T29-1Y** | 3/8-16 | 3-1/2” | 21/32” | 10 |
| **024-T30-1P** | 3/8-16 | 4” | 3/4” | 10 |
| **024-T31-1Y** | 3/8-16 | 4-1/2” | 3/4” | 10 |
| **024-T32-1C** | 3/8-16 | 5-1/2” | 3/4” | 10 |
| **024-T33-1N** | 3/8-16 | 6-1/2” | 3/4” | 10 |
| **024-T34-1T** | 3/8-16 | 7-1/2” | 3/4” | 10 |
| **024-T35-1K** | 1/2-13 | 4” | 1” | 10 |
| **024-T36-1W** | 1/2-13 | 6” | 1” | 10 |
| **024-T37-1M** | 1/2-13 | 8” | 1” | 10 |





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