

CATALOG
14

Section B



SPAENNAUR

Fasteners Right Now[®]

Bolts, Screws & Externally Threaded Fasteners



Boulons, vis et attaches à filets externes

Screws & Bolts – General Data Machine Screws Weight Chart – Slotted & Phillips Drive	Inch	B2	Pouce	Vis et boulons – données générales Tableau de poids des vis mécaniques – tête fendue et cruciforme
NEW Vibra-TITE® Threadlockers & Liquid Thread Sealants		B4		Adhésifs frein-filet Vibra-TITE^{MD} et scellants liquides pour filets NOUVEAU
Machine Screws	Inch & Metric	B5, B118	Pouce et métrique	Vis mécaniques
Hanger Bolts; Dowel Screws; Joint Connector Bolts & Nuts Top Star Adjustable Distance Screw Sets & Bits	Inch & Metric	B60	Pouce et métrique	Boulons de suspension; Vis à goujon; Boulons et écrous de connecteur 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 Fasteners & Installation Tools	Inch	B74	Pouce	Système de fixations pour le béton Tapcon^{MD} Attaches et outils d'installation
Tapping Screws & Thread Forming Screws Slot, Phillips, Square Socket, Hex Socket, Torx®, Hex Head	Inch & Metric	B78, B177	Pouce et métrique	Vis autotaraudeuses et vis de formation de filetage Fente, Phillips, douille carré, douille hexagonale, Torx ^{MD} , tête hexagonale
Drive Screws; Trailer, Floorboard, Container Screws Camtainer® FRP Fasteners	Inch	B101	Pouce	Vis d'entraînement; remorque, plancher, vis de récipient Attaches «FRP» Camtainer ^{MD}
Tamper-Resistant Fasteners & Tools "Tampruf TM ", "One-Way", "Spanner"	Inch & Metric	B103	Pouce et métrique	Système de vis antivols et artil «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 Tensilok® Metric Hex Flange Serrated Screws	Inch & Metric	B119	Pouce et métrique	Vis pour automobile, spécialisées et hexagonales à rebords Vis dentelées à bride hexagonale métrique Tensilok®
NEW Self-Clinching Studs Kwik-Thred®	Inch	B125	Pouce	Goujons autoriveurs Kwik-Thred^{MD} NOUVEAU
GRIPCO® Weld Screws & Weld Pins 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 Hex Head Cap Screws, Nuts, Washers & Assortments	Inch	B147	Pouce	Système de fixation L•9^{MD} 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

B

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

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Bolts, Screws & Externally Threaded Fasteners



Boulons, vis et attaches à filets externes

B

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 œil 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 Fully Threaded Rods, "Acme" Threaded Rods & Hexagon Nuts, Coupling Nuts	Inch & Metric	B286	Pouce et métrique	Tiges et goujons filetés Tiges filetées et écrous hexagonaux «Acme», écrous de raccord
Tool Room Necessities 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 Boulons et écrous en «T»; brides de retenue; rondelles - écrous à embase et écrous de fixation sphériques
NEW Paulin® Deck, Fence & Construction Screws Square Socket Drive	Inch	B303	Pouce	Vis pour patios et clôtures, vis de construction Paulin ^{MD} Tête creuse carrée
NEW Black Oxide U-Bolts, Strap Plates & Bent Eye Bolts Nuts Included	Inch	B305	Pouce	Boulons en U à oxyde noir, plaques à courroie et boulons à œillet Écrous inclus
Section Index		B307 B309		Index de section

CATALOG 14

SPAENAUR

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

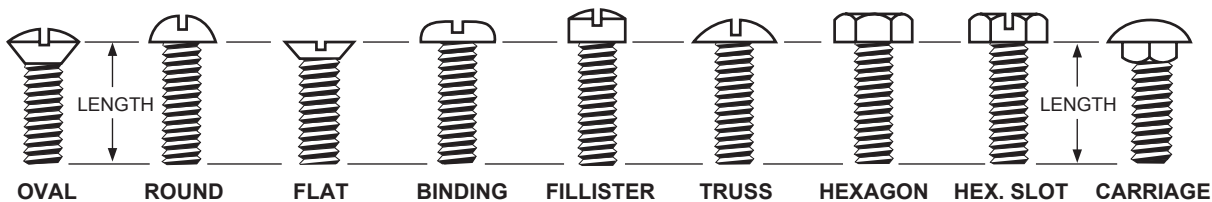
NUMBER OF THREADS PER INCH - UNIFIED STANDARD

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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SPAENAUR

Inch

Pouce



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.

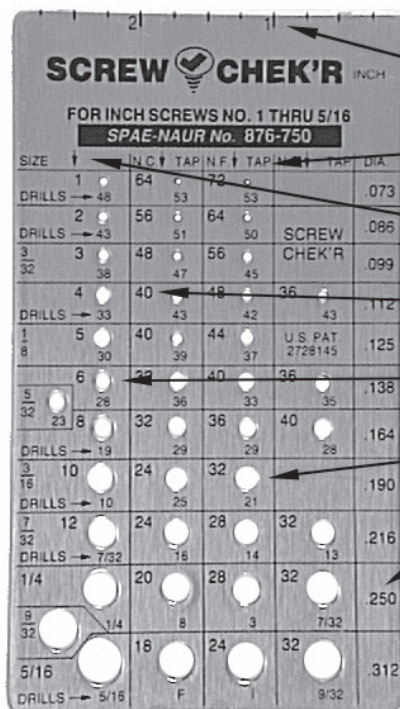
INCH

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

CATALOG 14

SPAENAUR

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	24221	BLUE
800-B81-1M	50ml	24231	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	27131	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	26221	RED
800-B83-1A	50ml	26231	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	1.8ml	131 Permanent Strength	RED	262™
800-B86-1C	1.8ml	121 Medium Strength	BLUE	242™



SAFETY & TECHNICAL data sheets available online @ spaenaur.com



STEEL

ASME B18.6.3


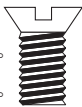



INCH Sizes

FINISH: ZINC PLATED

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

PACKING: Contact Sales Desk For Package Quantities
ORDER: By **SPAENAU** 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			

Machine Screws - Slot Drive

Vis mécaniques – prise fendue



Inch

Pouce

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		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-29	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

B6

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

▲ 380-014 Undercut Head
• Undercut Head

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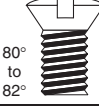







Inch

Pouce



Machine Screws - Slot Drive

Vis mécaniques – prise fendue

STEEL ASME B18.6.3 Inch Sizes									
		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

Contact Sales Desk For Package Quantities

CATALOG 14 SPAENAUR

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B7

Machine Screws - Slot Drive

Vis mécaniques – prise fendue



Inch

Pouce

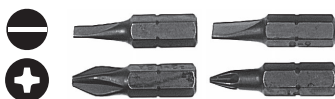
STEEL Inch Sizes ASME B18.6.3		NICKEL PLATED		ZINC PLATED					5/16" Across Flat		5/16" Across Flat	
		80° to 82°		80° to 82°								
DIA.	L.	OVAL	ROUND	FLAT	BINDING	FILLISTER	TRUSS	HEX. SLOT	UNSLOTTED HEXAGON			
10-32 UNF	1/4		MS-66	1075	MS-194	MS-143	MS-1267	391-083	MS-471H			
	5/16		1028-A	MS-99	380-F74-1K	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		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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SPAENAUR CATALOG 14.09



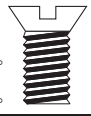

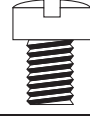

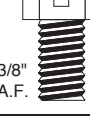
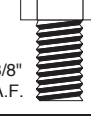
Inch

Pouce



Machine Screws - Slot Drive

Vis mécaniques – prise fendue

STEEL Inch Sizes										
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			
	1-1/8			380-F67-1P						
	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



For Head Dimension Chart see Page R10

CATALOG 14.06 SPAENAUR


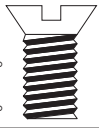
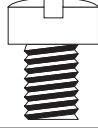

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B

STEEL Inch Sizes ANSI B18.6.3			 80° to 82°		
		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		



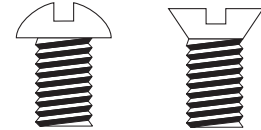
STEEL
STOVE BOLTS
With Square Nuts

ZINC PLATED
PKG QTY. 100

DIAMETER	L.	ROUND	FLAT
3/16" (10-24) <small>(Includes N-28 Square Nut)</small>	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) <small>(Includes B-1548 Square Nut)</small>	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

CATALOG 14

SPAENAUR

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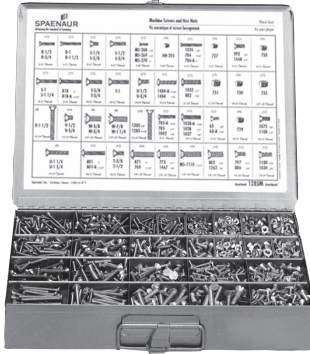
Inch

Pouce



Machine Screws - Slot Drive / Hex Nuts Assortment

Assortiment de vis mécaniques – prise fendue / Écrous hexagonaux



ASSORTIMENT **B-576-M-C**
ASSORTIMENT

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

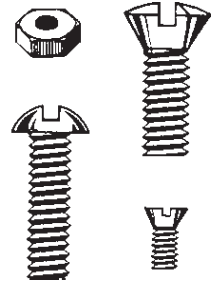
Steel, Zinc and Nickel Plated.

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		
				B-1515		50	B5		
		#2-56	B-1516	3/8"	40				
			#4-40	380-F09-1T	1/2"	30			
		#4-40		380-F26-1M	1/4"	25			
			#4-40	B-411	1/2"	30			
		#5-40		380-F53-1X	1"	20			
			#5-40	MS-268	1/4"	30			
		#5-40		MS-270	1"	30			
			#6-32	380-F37-1W	1/4"	30	B6		
		B-1509		3/8"					
		380-F22-1N	1/2"						
		#6-32	B-1499	3/4"	15				
			786A	1"	12				
		#6-32	380-F42-1A	1-1/4"	20				
			380-F69-1C	1-1/2"	30				
		#8-32	785A	5/16"	20				
			785	1/2"	15	B7			
		#8-32	1042	3/4"	15				
			#8-32	B-1500	1"	25			
#8-32	380-F89-1X	1-1/4"		20					
	#8-32	B-1502	1-3/4"	20					
#8-32		B-1503	2"	15					
	#10-32	1028-A	5/16"	25					
#10-32		1028	1/2"	20	B8				
	380-F25-1W	1"	15						
	Tapping Screw Hex Drive	Indented Hex Washer	#4	525-172	1/4"	30	B88		
				B-1098		35			
				#6		B-1519		3/8"	30
						B-1520		1/2"	
				#8		525-D04-1T		5/16"	25
ST-6H	1/2"								
#10	ST-7H	3/8"	50	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	
				#8-32				155-P03-2A	
								155-P05-1Y	
#8-32	155-P04-1P								
#10-32	155-P02-1X	50							

CATALOG 14

SPAENAUR

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ASSORTMENT **1285M-F**
ASSORTIMENT

SLOT DRIVE MACHINE SCREWS & HEX NUTS

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

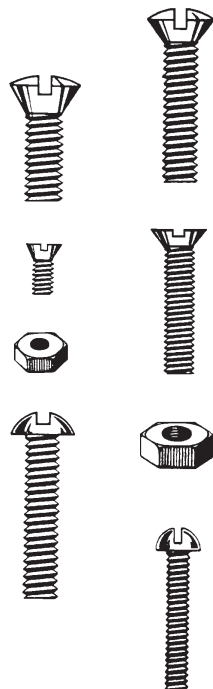
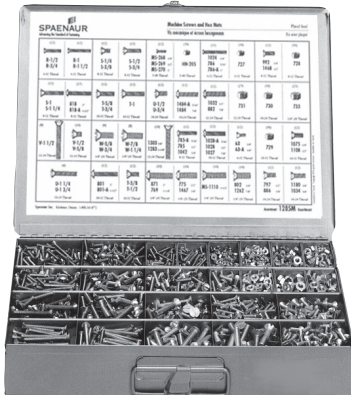
Zinc / Zinc Chromate
Trivalent Zinc / Nickel

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.)






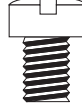
Name	Thread Size	Head Type	Spaenaur No.	Screw Length	Qty.	Page		
Machine Screw Steel	#5-40	Round	MS-268	1/4"	12	B6		
			MS-269	1/2"				
			MS-270	1"				
			380-F37-1W	1/4"				
			786	5/16"				
	#6-32	Oval	786A	1"	15	B6		
			R-1/2	1/2"				
			R-3/4	3/4"				
			385-258	1"				
			MS-29	2"				
		Flat	380-F84-1N	3/8"	12	B6		
			63-A	3/4"				
			785A	5/16"				
			785	1/2"				
			MS-58	5/8"				
	#8-32	Round	1042	3/4"	15	B7		
			MS-1244	7/8"				
			B-1500	1"				
			380-F83-1C	1-1/2"				
			1809	1"			12	B7
			S-3/8	3/8"				
			S-1-1/4	1-1/4"				
			992	1/4"				
			380-F92-1A	1/2"				
			Flat	1468-A			3/4"	6
		380-F49-1W		5/16"				
		1484		7/8"				
		380-F34-1N		1/2"				
		U-7/8		7/8"				
		#10-24	Round	MS-160	1"	12	B7	
	1180			3/8"				
	886			3/4"				
	Oval		797	1/2"	6	B8		
			1034	5/8"				
			MS-1108	2"				
			1028-A	5/16"				
	#10-32		Round	1028	1/2"	12	B8	
				1027	7/8"			
				380-F25-1W	1"			
		801-A		1-1/2"				
		MS-1184P		3/8"				
		Oval	T-1/2	1/2"	10	B8		
			T-5/8	5/8"				
			T-7/8	7/8"				
			T-1	1"				
			1075	1/4"				
	#12-24	Flat 82° Countersunk	1108	1/2"	8	B8		
			1032	1/2"				
			380-F07-1C	7/8"				
		Oval with 80° to 82° Countersunk	V-1/2	1/2"	10	B8		
			2034	5/8"				
	1/4"-20	Flat with 80° to 82° Countersunk	1303	1-3/8"	6	B9		
			1283	1-3/8"				
			775	1/2"				
			1467	3/4"				
			871	1"				
		Round	380-F08-1N	1-1/4"	8	B9		
			W-5/8	5/8"				
			W-3/4	3/4"				
			MS-33	1"				
			W-1-1/4	1-1/4"				
		Oval with 80° to 82° Countersunk	380-F39-2X	3/4"	10	B9		
			1262	7/8"				
			MS-1110	1-1/2"				
			HN-205				50	C2
			155-P03-2A					
	155-P04-1P							
	155-P08-1T							
	155-P02-1X							
	Hex Nut Machine Screw Steel	#10-24			25	C2		
		#12-24						
		1/4"-20						



ORDER BY SPAENAU R NUMBERS LISTED BELOW

Contact Sales Desk For Package Quantities

Head/Body & Slot
Dimensions to
ASME B18.6.3

SLOT DRIVE BRASS Unplated Inch Sizes			 80° to 82°		
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
0-80 UNF	1/2	400-016			
	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
1-64 UNC	5/8				MS-930
	3/4				MS-932
1-72 UNF	1/8	MS-695			
	3/16	400-B55-1K			
	1/4	MS-699	MS-709		MS-676
	5/16	MS-700	MS-570		
	3/8	MS-546	MS-710		MS-935
	7/16	MS-701			MS-725
	1/2	MS-702			
5/8	MS-703	400-B36-1P			
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.

B



Continued from Previous Page

Head/Body & Slot Dimensions to ASME B18.6.3

SLOT DRIVE BRASS		ORDER BY SPAENAUR NUMBERS LISTED BELOW				
		Contact Sales Desk For Package Quantities				
Unplated Inch Sizes						
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			
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 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"				
649-B21-1X	#6		0.147"	5/16"	0.028"	100	
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"	1 1/16"	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"	10	
649-B17-1W	#30	7/16"	1/2"	1-1/8"	0.081"		
649-B12-1Y	#34	1/2"	9/16"	1-1/4"	0.091"		
W-519		5/8"	1 1/16"	1-1/2"	0.102"		
649-B03-1M		3/4"	1 3/16"	1-7/8"	0.114"		

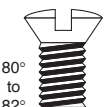

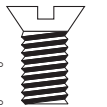
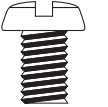
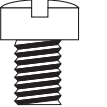
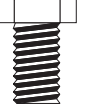

Inch

Pouce



Machine Screws - Slot Drive

Vis mécaniques – prise fendue

SLOT DRIVE BRASS Unplated Inch Sizes Continued from Previous Page		ORDER BY SPAENAU R NUMBERS LISTED BELOW Contact Sales Desk For Package Quantities						Head / Body & Slot Dimensions to ASME B18.6.3
		 80° to 82°		 80° to 82°				
DIAMETER	L.	OVAL	ROUND	FLAT	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-754		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

CATALOG 14.05
2019/12/18

SPAENAU R

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B

**SLOT DRIVE
BRASS**

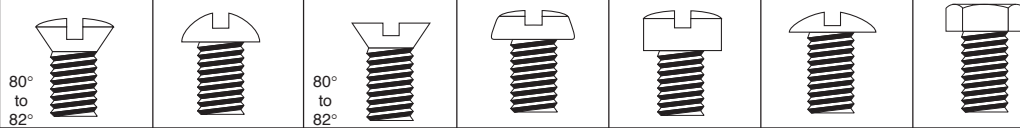
Unplated
Inch Sizes

Continued from Previous Page

ORDER BY SPAENAUR NUMBERS LISTED BELOW

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

Contact Sales Desk For Package Quantities



DIAMETER	L.	OVAL	ROUND	FLAT	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					
1/4"-20 UNC	2		MS-856					
	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	MS763	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						

NEW



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

See Page B4

SPAENAUR
CATALOG 14.05
2019/12/18




Inch

Pouce



Machine Screws - Slot Drive

Vis mécaniques – prise fendue

SLOT DRIVE BRASS		ORDER BY <i>SPAENAUR</i> NUMBERS LISTED BELOW		
Unplated Inch Sizes		Contact Sales Desk For Package Quantities		
			 80° to 82°	
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	

Made to
ASME B18.6.3

B

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

ASSORTMENT **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

CATALOG 14

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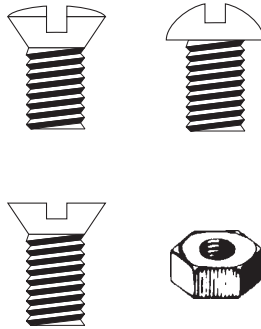
B

SLOT DRIVE 18-8 STAINLESS STEEL Inch Sizes		ORDER BY SPAENAUR NUMBERS LISTED BELOW				Head/Body & Slot Dimensions to ASME B18.6.3
		PKG QTY. 100				
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
ASSORTIMENT **805-525**

**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

B18

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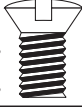

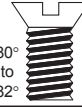




Inch

Pouce



Machine Screws - Slot Drive

Vis mécaniques – prise fendue

SLOT DRIVE 18-8 STAINLESS STEEL Inch Sizes		ORDER BY SPAENAU R NUMBERS LISTED BELOW PKG QTY. 100 - ALL ITEMS							Made to ASME B18.6.3
		 80° to 82°		 80° to 82°					
DIAMETER	L.	OVAL	ROUND	FLAT	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						
5-40 UNC	1		420-A93-1C	MS-2113	MS-2450				
	2								420-A49-1X
6-32 UNC	1/4								420-475
	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

CATALOG 14

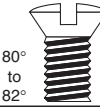

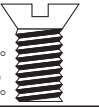
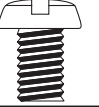
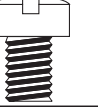


SPAENAU R

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B19



B

SLOT DRIVE 18-8 STAINLESS STEEL Inch Sizes		ORDER BY SPAENAUER NUMBERS LISTED BELOW PKG QTY. 100						Head/Body & Slot Dimensions to ASME B18.6.3
		 80° to 82°		 80° to 82°				
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					
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...

SPAENAUER
 CATALOG 14.05
 2019/12/18

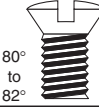

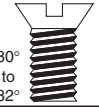



Inch

Pouce



Machine Screws - Slot Drive

Vis mécaniques – prise fendue

SLOT DRIVE 18-8 STAINLESS STEEL Inch Sizes		ORDER BY SPAENAU^R 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	
	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				
1/4"-20 UNC	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				
3/8"-16 UNC	2-1/2	420-480		MS-2338				
	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				
1/2"-13 UNC	2-1/2		MS-2410	420-456				
	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

CATALOG 14 SPAENAU^R



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

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B21



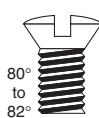

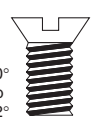
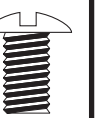


PKG QTY. 100

ALUMINUM SLOT DRIVE

GRADE 2024-T4

ORDER BY SPAENAU No. LISTED BELOW

Head Body & Slot Dimensions to ASME B18.6.3

Inch Sizes						Inch Sizes			
DIA.	L.	OVAL	ROUND	FLAT	TRUSS	DIA.	L.	ROUND	FLAT
6-32 UNC	1/4		MS-3012			10-32 UNF	1/2	MS-3002	
	1		436-035				1	436-036	
8-32 UNC	1/4				■ 436-A02-1A	1/4"-20 UNC	1/2	436-031	
	3/8				■ 436-A01-1X		3/4		436-024
	1/2		MS-3014				1	MS-3016	MS-3015
	5/8		MS-3018				1-1/4		436-034
	1		436-022			1-1/2	436-032	MS-3013	
10-24 UNC	1/4		436-027			5/16"-18 UNC	1	436-037	
	1/2		436-028	MS-3008			1-1/2	436-033	
	5/8			▲ 436-029					
	3/4		436-023	MS-3009					
	1	MS-3019	MS-3021						
	1-1/4				MS-3011				
	2			MS-3010					

▲ or 436-030 Flat SOCKET Head
 ■ Binder Post Screws with Low Profile - not to standard Truss Head specifications.
ALUMINUM HEX BOLTS See page B152

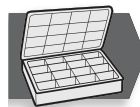
B

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		1/4"		
	445-013	#4-40	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	#8-32	1"		
	445-111		1/4"		
	445-112		5/16"		
	445-031		3/8"		
	445-032		1/2"		
	445-033	#10-24	3/4"		
	MS-5001		1"		
	445-136		1/4"		
	445-137		5/16"		
	445-058		3/8"		
	445-059	#10-32	1/2"		
	445-060		3/4"		
	445-056		1"		
	445-155		1/4"		
	445-161		5/16"		
	445-034	1/4"-20	3/8"		
	445-035		1/2"		
	445-036		3/4"		
	MS-5005		1"		
445-062	1-1/4"				
445-179	1/4"-20	1-1/2"			
445-186		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

6/6 Nylon Slot Drive
71 SIZES - 3475 PIECES



Machine Screws with Hex Nuts & Flat Washers

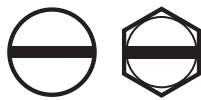
Furnished in Large Size, Grey Enamelled STEEL Drawer, with scooped bins. Drawer will fit into the Slide Racks shown on page A3. 18" x 12" x 3". Shipping weight 4.5 kg (10 lbs.)

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



Inch

Pouce



Machine Screws - Slot Drive

Vis mécaniques – prise fendue

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	
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			
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

CATALOG 14

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B23

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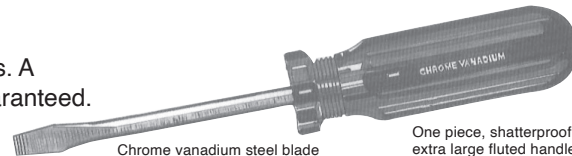
B

SLOT DRIVE NYLON		ORDER BY SPAENAUR NUMBERS LISTED BELOW						
6/6 Polyamide (Natural Colour) Inch Sizes		PKG QTY. 100						
DIA.	L.	ROUND	FLAT	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 perfect 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	3"	#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.

SPAENAUR CATALOG 14.09

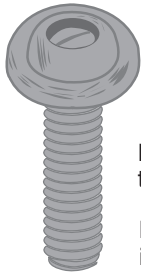
Inch

Pouce



Nylon Metal Core Screws - Slot Drive

Vis de nylon à âme métallique – prise fendue

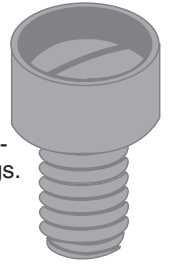


The shear strength of heat-treated steel and the dielectric insulation, corrosion resistance and vibration resistance of nylon.

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

Thread 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

Order by SPAENAUR No's. listed below.						
DIAMETER	LENGTH	ROUND HEAD	ROUND WASHER HD.	FILLISTER HEAD	FLAT HEAD	PKG QTY.
6-32 UNC	1/4"	445-300		445-340	445-360	100
	3/8"	445-B05-1T	445-320	445-341	445-361	100
	1/2"	445-302	445-321	445-342	445-362	100
	5/8"	—	445-322	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		Double Shear	
			YIELD LBS.	BREAK LBS.	YIELD LBS.	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

CATALOG 14

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B25






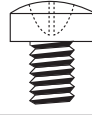

Machine Screws - Phillips Drive

Vis mécaniques – prise cruciforme



Inch

Pouce

PHILLIPS DRIVE STEEL								
Inch Sizes		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.
- ◆ Slight Flattening of Head Crown may occur due to formation of Phillips socket recess.
- MS-245PBO Black Oxide Finish
- 385-214 Black Oxide Finish
- 385-211 Black Zinc Finish
- ▲ 385-B41-1N Black Oxide Finish and 100° Ctsk. Hd.
- ◆ 385-B66-1T 100° Ctsk. Hd.

Contact Sales Desk For Package Quantities

B26

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SPAENAUR CATALOG 14.06

Inch

Pouce



Machine Screws - Phillips Drive

Vis mécaniques – prise cruciforme

PHILLIPS DRIVE STEEL Inch Sizes		80° to 82°		80° to 82°		80° to 82°		80° to 82°		80° to 82°		80° to 82°	
		NICKEL PLATED		ZINC PLATED									
DIAMETER	L.	OVAL	◆ 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		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			385-289		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	2034		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			Made to ASME B18.6.3				

Contact Sales Desk For Package Quantities

▲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

CATALOG 14.11

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B27





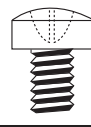


Machine Screws - Phillips Drive

Vis mécaniques – prise cruciforme



Inch

Pouce

PHILLIPS DRIVE STEEL								
Inch Sizes		NICKEL PLATED		ZINC PLATED				
DIAMETER	L.	OVAL	◆ ROUND	FLAT	BINDING	FILLISTER	TRUSS	PAN
1/4"-20 UNC	1/4							385-291
	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	385-290	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

◆ Slight Flattening of Head Crown may occur due to formation of Phillips socket recess. ▲ Pozidriv Head ■ Undercut Head

ASSORTMENT
ASSORTIMENT 805-614D

INCH SIZES
PHILLIPS DRIVE
MACHINE SCREWS

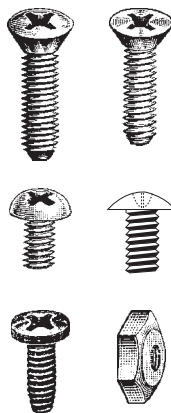
with Hexagon Nuts

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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SPAENAUR CATALOG 14.11



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

DIN 84 Screws
DIN 934 Nuts

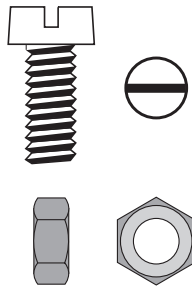
**METRIC COARSE THREAD
SLOTTED CHEESE
HEAD SCREWS & NUTS**

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.)

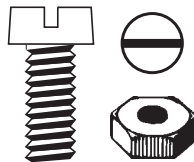


Name	Spaenaur No.	Diameter x Length	Qty.	Page
Machine Screw Slot Drive	382-B01-1T	M1.0 x 2mm	50	B37
	382-004	M1.0 x 5mm		B44
	382-870	M1.2 x 2mm		
	382-872	M1.2 x 4mm		
	382-B18-1A	M1.2 x 6mm		B37
	382-875	M1.4 x 2mm		
	382-020	M1.4 x 4mm		B44
	382-878	M1.4 x 6mm		
	382-029NP	M1.7 x 2mm		B44
	382-883	M1.7 x 10mm		
	382-039	M2 x 3mm		B38
	382-042	M2 x 12mm		
	382-049	M2.3 x 4mm		B38
	382-051	M2.3 x 8mm		
	382-053	M2.3 x 16mm		B38
	382-063	M2.5 x 10mm		
382-067	M2.5 x 20mm	C9		
Nut Hexagon	156-001ZP		M1.0	
	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



**METRIC THREADED - SLOT DRIVE
FLAT/PAN/OVAL HEAD
MACHINE SCREWS & HEX NUTS**

STEEL, Zinc Plated

DIN 84

ASSORTMENT **805-400**
ASSORTIMENT

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	M4 x 0.70	16mm	50	B40
	382-190		6mm		
	382-102		8mm		
	382-B17-1X		10mm		
	382-B22-1Y		12mm		
	382-105		16mm		
	382-192	20mm	40	B41	
	382-116	10mm			
	382-117	16mm			
	382-118	20mm			
	382-119	25mm			
	382-131	10mm			
382-133	16mm	30	B41		
382-210	20mm				
382-135	25mm	25	100	C9	
Hex Nut	156-006ZP	M2 x 0.40			80
	156-010ZP	M3 x 0.50			80
	156-012ZP	M4 x 0.70			
	156-013ZP	M5 x 0.80			
	156-014ZP	M6 x 1.00			

ASSORTMENT **805-401**
ASSORTIMENT



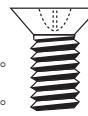


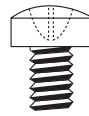
24 SIZES
1,100 PIECES

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		
		382-110	M4 x 0.70	8mm	50	B40
		382-112		12mm		
		382-128	M5 x 0.80	16mm	30	B41
		382-246		30mm		
		382-145		20mm		
		382-159		20mm		
		382-078	M3 x 0.50	6mm	80	B39
382-079	10mm					
Machine Screw Slot Drive Head Style Pan Metric DIN 85	Pan	382-106	M4 x 0.70	8mm	50	B40
		382-107		12mm		
		382-120		6mm		
		382-122	M5 x 0.80	10mm	40	B41
		382-123		20mm		
		382-137	M6 x 1.00	10mm	30	B41
		382-138		16mm		
		382-081		M3 x 0.50		
Machine Screw Slot Drive Head Style Oval Metric DIN 964	Oval	382-109	M4 x 0.70	50	40	B40
		382-124	M5 x 0.80	10mm		
		382-126		25mm	30	B41
		382-141	M6 x 1.00	16mm		
		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.)



B

PHILLIPS DRIVE BRASS		ORDER BY SPAENAUR NUMBERS LISTED BELOW Contact Sales Desk For Package Quantities						Head/Body & Recess Dimensions to ASME B18.6.3
Unplated Inch Sizes								
DIAMETER	L.	OVAL	ROUND	FLAT	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					
6-32 UNC	1		MS-617P					
	1/4			MS-621P				
	5/16			MS-622P				
	3/8			MS-623P				
	1/2	MS-610P		MS-624P				
8-32 UNC	5/8			MS-625P				
	1	MS-612P		MS-627P				
	3/8		404-003					
	1/2	MS-613P		404-A01-1C				MS-647P
	5/8	MS-679P						
10-32 UNF	3/4			404-A03-1T				
	2	MS-689P						
	3/8	MS-669P		404-A05-1W				
	1/2			404-A02-1N				
1/4"-20 UNC	3/4			404-002				
	1			MS-668P				
	2-1/4					MS-805P		MS-837P

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

ASSORTMENT 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	1/8"	0.119"	9/32"	0.025"	100	
W-528	#5		0.133"				
649-B21-1X	#6		0.147"	5/16"	0.028"	25	
649-B14-1N	#8	5/32"	0.172"	3/8"	0.032"		
649-B13-1C	#10	3/16"	0.200"	7/16"	0.036"	10	
649-B19-1X	#12	7/32"	0.227"	1/2"	0.040"		
649-B09-1P	#14	1/4"	0.260"	9/16"		25	
649-B15-1T	#18		0.310"	11/16"	0.051"		
649-B18-1M	#20	5/16"	0.337"	3/4"	0.064"	10	
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"	10	
649-B03-1M		3/4"	13/16"	1-7/8"	0.114"		

SPAENAUR
CATALOG 14.05
2019/12/18

Inch
Pouce



Machine Screws - Phillips Drive

Vis mécaniques – prise cruciforme







**PHILLIPS
DRIVE**

18-8 STAINLESS STEEL

Head/Body & Recess
Dimensions to ASME B18.6.3

ORDER BY SPAENAUR NUMBERS LISTED BELOW

Inch
Sizes

SIZE							
DIA.	L.	80° to 82° OVAL	ROUND	80° to 82° 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	
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			
	1	MS-2384P	MS-2383P	424-F62-1X		424-073	424-077

B

CATALOG 14

SPAENAUR

Continues on
Next Page

PKG QTY. 100

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B31



PHILLIPS DRIVE

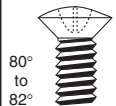

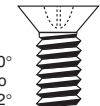



18-8 STAINLESS STEEL

Inch Sizes

Head/Body & Recess
Dimensions to ASME B18.6.3

ORDER BY SPAENAU^R NUMBERS LISTED BELOW

B

SIZE							
DIA.	L.	80° to 82° OVAL	80° to 82° ROUND	80° to 82° FLAT	BINDING	PAN	TRUSS
Continued from Previous Page 10-24 UNC	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
	2			424-F67-1N		424-F50-1X	
	2-1/2	424-473		424-G25-1T			
	3						424-475
10-32 UNF	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
	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		
1/4"-20 UNC	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	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					
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**



Machine Screws Square Socket Drive

Low Carbon STEEL		ZINC PLATED		
		▲ ROUND	FLAT	TRUSS
Inch Sizes				
DIA.	L.	▲ 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	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	395-006	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	
	Continued...		▲ Slight Flattening of Head Crown may occur due to formation of square socket recess.	

PKG QTY. 100

For Insulated Screwdrivers see Page P21

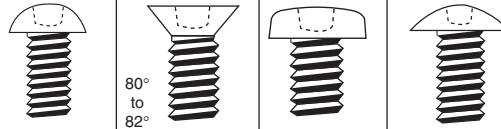


B

Continued from
Previous Page

**Low Carbon
STEEL**

Inch Sizes



ZINC PLATED

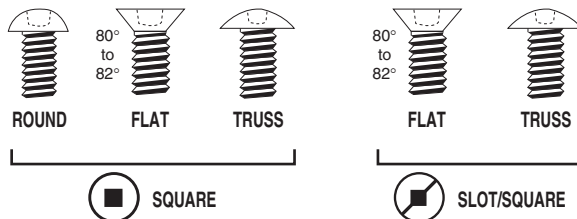
DIA.	L.	▲ ROUND	FLAT	PAN	TRUSS
10-32 UNF	1-1/4	MS-435	395-008		
	1-1/2	395-H45-1N	395-115		
	2	395-060	395-009		MS-1282
	2-1/2	395-083			
1/4"-20 UNC	1/2	395-H36-1W	395-044		
	5/8	395-061			395-H07-1N
	3/4	395-H03-1A	395-H17-1Y		
	1	395-H44-1C	395-078		
	1-1/2	MS-490	395-079	395-045	
	1-3/4	395-099			
	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 805-535C

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



**30 SIZES
1080 PIECES**



Furnished in a regular size grey enameled 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"	50	
	395-072		1-1/2"		
	395-075	#10-32	3/4"	30	
395-H17-1Y	1/4"-20	3/4"	50	B34	
Square Socket Drive Truss Head	MS-427	#8-32	1-1/2"	30	B33
	MS-1018		3/4"		
	395-H51-1M	#10-24	1"	40	
	395-H38-1X		1"		
Square Socket Drive Round Head	395-H55-1Y	#4-40	1/4"	15	B33
	395-H53-1A		1/2"		
	395-051	#6-32	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"	40	
	395-H50-1W		1-1/2"		
	395-H41-1A	#10-32	1/2"	30	
	395-H29-1Y		1"		
	395-060	1/4"-20	2"	25	
	395-H36-1W		1/2"		
	395-H44-1C	1"	1"	B34	
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	#10-24	2"	50	
	395-147R		2"		

Inch

Pouce



Machine Screws - Combination Square Socket / Slot Drive





Vis mécaniques – prise fendue/carrée combinée

STEEL

ZINC PLATED

Combination Square Socket/Slot Drive

ORDER BY SPAENAUR NUMBERS LISTED BELOW

Inch Sizes				HEAD DIA. 7/16" 	
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".

B

PKG QTY.

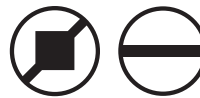
Up to 2-1/2" Long - 100
2-1/2" Long and over - 50

CATALOG 14.06 SPAENAUR

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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			PKG QTY. 100
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				

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	B38	
	382-302		8mm			
	382-308	M2.5 x 0.45	20mm			
	382-B10-1Y		25mm		B38	
	382-311		5mm		B39	
	382-313	M3 x 0.50	8mm			
	382-B12-1N		16mm		B39	
	382-325	M3.5 x 0.60	20mm			
	382-326		35mm		30	B39
	382-332	M4 x 0.70	8mm		50	B40
	382-334		13mm			
	382-337		25mm	40	B40	
	382-343	M5 x 0.80	10mm	50		
	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

CATALOG 14

SPAENAUR



Metric Fasteners by SPAENAUR

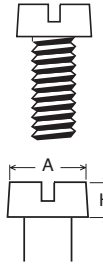
Throughout this Section B, likewise in sections C, D and E, you will find extensive listings of Metric Fasteners to I.S.O. and D.I.N. Standards.

Slot Drive

4.8 STEEL

Finishes this page listed at top of each column.

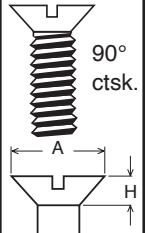
Metric Coarse Thread Threaded to Head



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	382-875			
	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.



B

<p>Slot Drive 4.8 STEEL (IFI 513, Grade 1018) Zinc Plated METRIC Standard (Coarse) Thread</p> <p><small>*This Standard has been replaced. Please see Catalog Page R21 for more information.</small></p> <p>For Head Size Charts see pages R10 & R11.</p>	 <p>North American Head Style IFI 513, 1982 PAN</p>	 <p>* DIN 84 Head Style CHEESE</p>	 <p>* DIN 85 Head Style PAN</p>	 <p>90° ctsk. * DIN 964 Head Style OVAL</p>	 <p>90° ctsk. * DIN 963 Head Style FLAT</p>
--	---	---	--	--	--

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
	5		382-040		382-611
	6		382-406		382-612
	8	382-302	382-041		382-613
	10		382-407		382-614
	12		382-042		
	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
	5		382-415	382-493	382-616
	6		382-416	382-494	382-617
	8		382-417	382-495	382-618
	10		382-B23-1C	382-496	382-619
	12		382-064	382-497	382-620
	14			382-498	
	16		382-418	382-499	382-621
	18			382-468	
	20		382-067	382-500	382-622
	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



DIAMETER in mm		LGTH. mm	ORDER BY SPAENAU R NUMBERS LISTED BELOW				
M3 Pitch: 0.50 mm 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	382-680	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 Pitch: 0.60 mm 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



B

Slot Drive
4.8 STEEL

(IFI 513, Grade 1018)

Zinc Plated

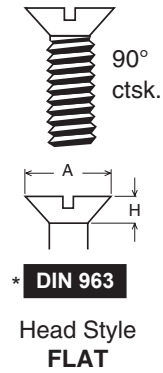
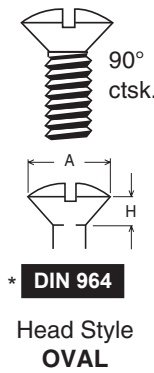
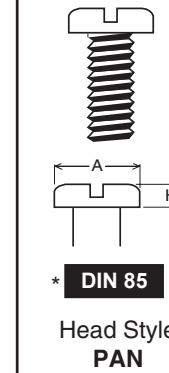
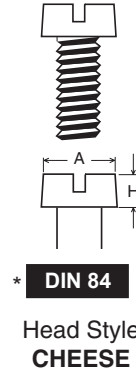
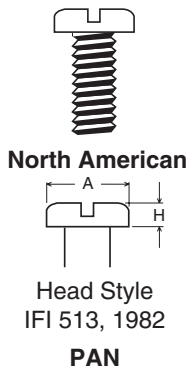
METRIC

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



DIAMETER in mm	LGTH. mm	ORDER BY SPAENAUER NUMBERS LISTED BELOW				
M4 Pitch: 0.70 mm 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 Pitch: 0.80 mm Tap Hole: 4.20 mm continued...	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			
30		382-204	382-540	382-656	382-246	
*382-128YZ Yellow Zinc Chromate						
PKG QTY. 100						

CATALOG 14
SPAENAUER



DIAMETER in mm		LGTH. mm	ORDER BY SPAENAUR NUMBERS LISTED BELOW			
Continued from Previous Page M5 Pitch: 0.80 mm Tap Hole: 4.20 mm	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
	55		382-442	382-545		382-779
	60	382-B25-1T	382-546	382-280		382-780
	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	
M6 Pitch: 1.00 mm Tap Hole: 5.00 mm	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
	30		382-212	382-554	382-663	382-790
	35		382-213	382-603	382-664	382-249
	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...

Contact Sales Desk For Package Quantities



B

<p>Slot Drive 4.8 STEEL Zinc Plated</p> <p>METRIC Standard (Coarse) Thread</p> <p>For Head Size Charts see pages R10 & R11.</p> <p>Continued from Previous Page</p>	 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	 90° ctsk. DIN 84 This Standard has been replaced. Please see Catalog Page R21 for more information. Head Style OVAL	 90° ctsk. DIN 84 This Standard has been replaced. Please see Catalog Page R21 for more information. Head Style FLAT
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DIAMETER in mm		LGTH. mm	ORDER BY SPAENAUR NUMBERS LISTED BELOW			
<p>M8 Pitch: 1.25 mm Tap Hole: 6.75 mm</p>	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	
<p>M10 Pitch: 1.50 mm Tap Hole: 8.50 mm</p>	12		382-229			382-256
	16		382-161	382-577		382-257
	20		382-231			382-258
	25		382-162	382-166	382-168	382-809
	30		382-234	382-579	382-678	382-259
	35		382-163	382-580	382-169	382-810
	40		382-235	382-581		382-811
	45		382-236			382-812
	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	
<p>M12 Pitch: 1.75 mm Tap Hole: 20 mm</p>	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



YELLOW ZINC PLATED

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

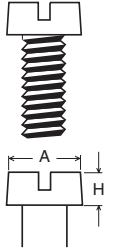
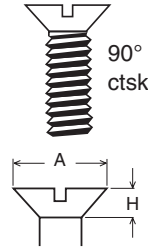


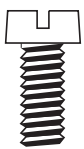
90°
ctsk.

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



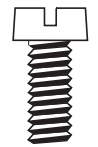
B

<p>Slot Drive 5.8 STEEL Plain Finish METRIC Standard (Coarse) Thread</p>		 <p>DIN 84 This Standard has been replaced. Please see Catalog Page R21 for more information.</p> <p>Head Style CHEESE</p>	 <p>90° ctsk. DIN 963 This Standard has been replaced. Please see Catalog Page R21 for more information.</p> <p>Head Style FLAT</p>	<p>Slot Drive 5.8 STEEL</p> <p>For Head Size Chart see pages R10 & R11.</p>		 <p>DIN 84 This Standard has been replaced. Please see Catalog Page R21 for more information.</p> <p>Head Style CHEESE</p>
DIAMETER in mm	LGTH. mm			DIAMETER in mm	LGTH. mm	
ORDER BY SPAENAU R NUMBERS LISTED BELOW				ORDER BY SPAENAU R NUMBERS LISTED BELOW		
M1 Pitch: 0.25 mm Tap Hole: 0.75 mm	3	382-867		M1.7 Pitch: 0.35 mm Tap Hole: 1.35 mm	10	382-883
	5	382-869			12	382-480
M1.2 Pitch: 0.25 mm Tap Hole: 0.95 mm	2	382-870		M1.8 Pitch: 0.35 mm Tap Hole: 1.45 mm	5	382-485
	3	382-B21-1P			6	382-486
	4	382-872			8	382-487
	5	382-873				
	8	382-469				
M1.4 Pitch: 0.30 mm Tap Hole: 1.10 mm	2	382-875		Slot Drive 5.8 STEEL Yellow Zinc Plated Metric Standard (Coarse) Thread For Head Size Chart see pages R10 & R11.	 <p>DIN 85 This Standard has been replaced. Please see Catalog Page R21 for more information.</p> <p>Head Style PAN</p>	
	3		382-690			
	4	382-876				
	6	382-878				
M1.6 Pitch: 0.35 mm Tap Hole: 1.25 mm	5		382-699	DIAMETER in mm	LGTH. mm	
	10		382-702			
<p>Property Class 5.8 continued top of next column.</p> <p>For small diameter slot drive metric machine screws in Property Class 4.8 see page B37.</p>				ORDER BY SPAENAU R NUMBERS LISTED BELOW		
				M4	8	382-854YZ
					35	382-299YZ
<p>Slot Drive 8.8 STEEL Metric Standard (Coarse) Thread Zinc Plated</p>		 <p>DIN 84 This Standard has been replaced. Please see Catalog Page R21 for more information.</p> <p>Head Style CHEESE</p>	<p>PKG QTY. 100 for all items on this page.</p>			
DIAMETER in mm	LGTH. mm					
M5	10	382-865				



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	
M2 Pitch: 0.40 mm Tap Hole: 1.60 mm	12		421-144			421-200	
	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	
M2.5 Pitch: 0.45 mm Tap Hole: 2.05 mm	25		421-214				
	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



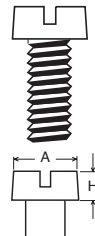
B

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.

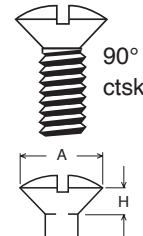
Head Style
CHEESE



DIN 85

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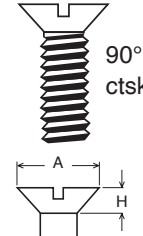
Head Style
PAN



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	
M3.5 Pitch: 0.60 mm Tap Hole: 2.90 mm	40			421-210				421-387		
	45		421-224	421-290						
	50		421-225	421-291				421-389		
	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

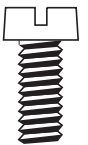


304 & 316 STAINLESS STEEL

METRIC Standard (Coarse) Thread

For Head Size Chart
see pages R10 & R11.

Continued from Previous Page



DIN 84

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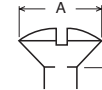
Head Style
CHEESE



DIN 85

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

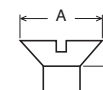
Head Style
PAN



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 SPAENAU R 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			421-521	421-207				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...



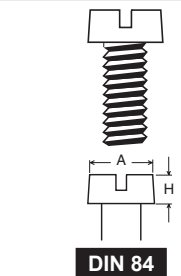
B

304 & 316 STAINLESS STEEL

METRIC
Standard (Coarse) Thread

For Head Size Chart
see pages R10 & R11.

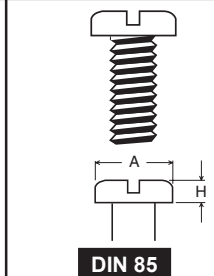
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DIN 84

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

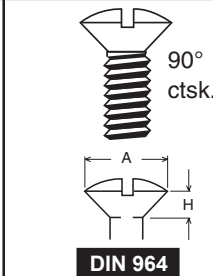
Head Style
CHEESE



DIN 85

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

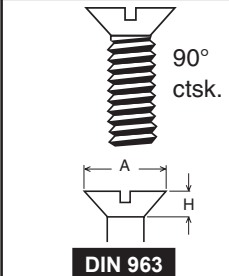
Head Style
PAN



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	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

CATALOG 14
SPAENAUR

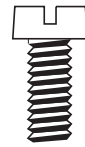


BRASS

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



90°
ctsk.

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
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



B

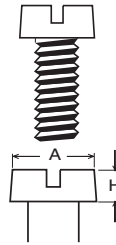
BRASS

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.

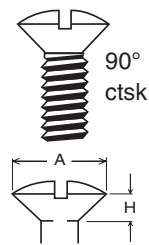
Head Style
CHEESE



DIN 85

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

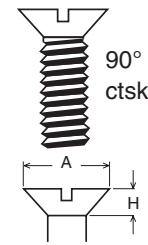
Head Style
PAN



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			
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
M3 Pitch: 0.50 mm Tap Hole: 2.50 mm	20		401-283		401-338
	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
M3.5 Pitch: 0.60 mm Tap Hole: 2.90 mm	35	401-223			
	60	401-227			
	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...



For Inch Size Brass Screws see Page B14



<p>BRASS Unplated METRIC Standard (Coarse) Thread</p> <p>For Head Size Charts see pages R10 & R11.</p> <p>Continued from Previous Page</p>		 DIN 84 <small>This Standard has been replaced. Please see Catalog Page R21 for more information.</small> Head Style CHEESE	 DIN 85 <small>This Standard has been replaced. Please see Catalog Page R21 for more information.</small> Head Style PAN	 DIN 964 <small>This Standard has been replaced. Please see Catalog Page R21 for more information.</small> Head Style OVAL	 DIN 963 <small>This Standard has been replaced. Please see Catalog Page R21 for more information.</small> Head Style FLAT
		<p>ORDER BY SPAENAUR NUMBERS LISTED BELOW</p>			
DIAMETER in mm	LGTH. mm				
<p>M4 Pitch: 0.70 mm Tap Hole: 3.30 mm</p>	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	
<p>M5 Pitch: 0.80 mm Tap Hole: 4.20 mm</p>	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



B

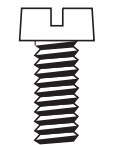
BRASS

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
M8 Pitch: 1.25 mm Tap Hole: 6.75 mm	50	401-083			401-368
	10				*401-373
	16	401-084			
	20	401-085			401-157
	25				401-158
	30	401-P02-1Y			401-P05-1T
	40				401-375
M10 Pitch: 1.50 mm Tap Hole: 8.50 mm	50	401-087			401-377
	16				401-209
	25	401-267			401-161
	30				401-162
	40				401-163
	45	401-P01-1P			

*401-373NP Nickel Plated

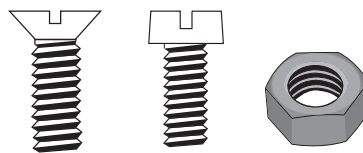
PKG QTY. 100 – up to 60 mm length (inclusive) 50 – over 60 mm length

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



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...



B

NYLON

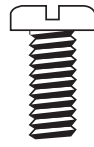
(Polyamid 6/6)
NATURAL COLOUR

METRIC
Standard (Coarse)
Thread

Continued from Previous Page



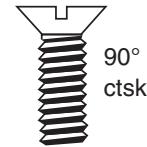
Head Style
CHEESE



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	

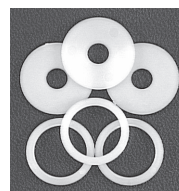
PKG QTY. 100 – up to 60 mm length (inclusive) 50 – over 60 mm length
For Larger (M12/M16) Nylon Hex Head Cap Screws see Page B175

ASSORTMENT
ASSORTIMENT **805-448**

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

18 Sizes
1000 Pieces

Shipping Weight:
2.27 kg (5 lb.)



Inch & Metric FLAT WASHERS
6/6 Nylon



For the complete assortment contents turn to A74



ASSORTMENT 805-483B

METRIC PHILLIPS DRIVE

**Machine Screws
Coarse Thread**

Low Carbon STEEL, Plated Finish

PAN **F1513**, 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	
			25mm	20	
	388-067	M8 x 1.25	30mm		
388-071	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	
			25mm	20	
	388-089	M8 x 1.25	16mm		20
388-092	16mm				
Pan	388-A01-1N	M3 x 0.50	12mm	60	
	388-253	M3	20mm		
	388-020	M3.5 x 0.60	16mm	50	
	388-126	M4 x 0.70	16mm	50	
	388-285	M5	30mm	40	
	388-293	M6	25mm	20	
	388-034	M8 x 1.25	16mm	30	
	388-035		30mm	20	



4.8 STEEL PHILLIPS DRIVE

METRIC “REGULAR” (COARSE) THREAD

For Head Size Charts see pages R10 & R11.

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
DIN 966 This Standard has been replaced. Please see Catalog Page R21 for more information. 90° ctsk. Phillips OVAL HEAD ZINC PLATED	ORDER BY SPAENAUR NUMBERS LISTED BELOW							
	4	388-182						
	5	388-183	388-188	388-050				
	6	388-184	388-096	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 ♦ 388-048 5.8 - 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
DIN 965 This Standard has been replaced. Please see Catalog Page R21 for more information. 90° ctsk. Phillips FLAT HEAD ZINC PLATED	ORDER BY SPAENAUR NUMBERS LISTED BELOW								
	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



4.8 STEEL ZINC PLATED

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

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
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		

DIN 7985

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



Phillips
PAN
HEAD

Additional Finishes on Property Class 4.8 of DIN 7985

▲ 388-352 Posidrive

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	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



STAINLESS STEEL A2

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

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	

DIN 965



Phillips FLAT HEAD

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

DIN 7985



Phillips PAN HEAD

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





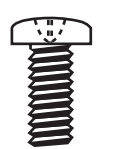
PHILLIPS DRIVE
NYLON
(Polyamid 6/6)

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
ASSORTIMENT **805-431**

**Metric Standard
Metric Machine Screws**

NATURAL COLOUR
6/6 Nylon Coarse Thread

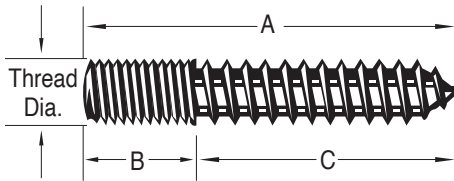
24 SIZES - 188 PIECES

Shipping Weight: **2.38 kg** (5-1/4 lbs.)

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 shoulder (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

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

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

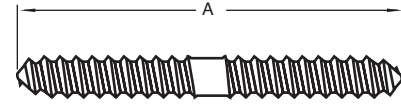
STEEL

Plain Finish

DOWEL SCREWS – for wood

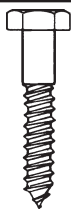
Right-hand Thread (both ends)

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

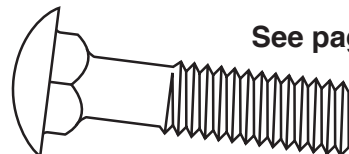


HEX HEAD LAG SCREW

See page B257.

ROUND HEAD CARRIAGE BOLTS

See pages B258 to B262.



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



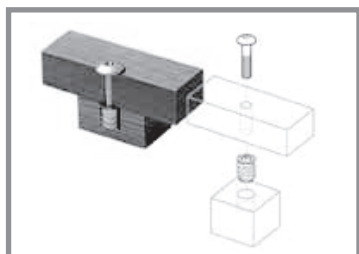
▶ WHY USE AN INSERT WITH A FLANGE?

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



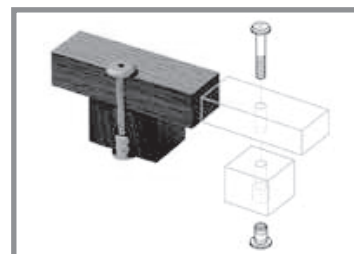
For more INSERTS, see page C157

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.



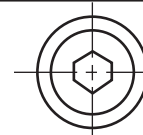
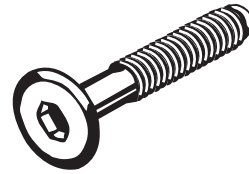
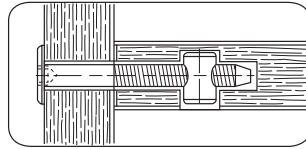
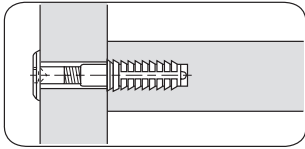
RAMPA Knock-in Insert Type TS + KF

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.



JOINT CONNECTOR BOLT

STEEL - Bronze Plated
Decorative Head

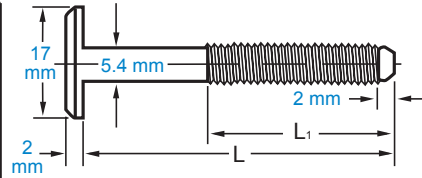


Hex Drive
M4

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

Hanger Bolts on Page B60

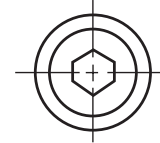
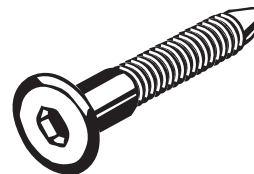
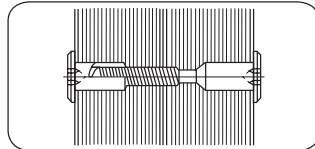
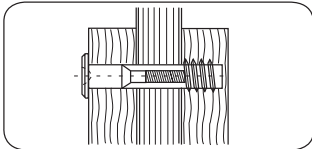
SPAENAUR No.	Thread Size	L	L1	PKG QTY.
191-450	1/4"-20	1.969" (50 mm)	1.181" (30 mm)	50
191-451	1/4"-20	2.362" (60 mm)	1.575" (40 mm)	50
191-452	1/4"-20	2.756" (70 mm)	1.575" (40 mm)	50



JOINT CONNECTOR BOLT

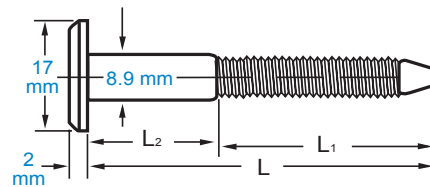
STEEL - Bronze Plated

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.



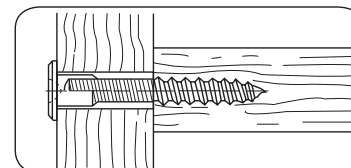
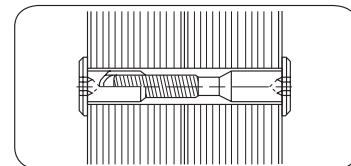
SPAENAUR No.	Thread Size	L	L1	L2	PKG QTY.
*191-456	1/4"-20	1.575" (40 mm)	Full Thread	.394" (10 mm)	50
191-453	1/4"-20	1.969" (50 mm)	Full Thread	.709" (18 mm)	50
191-454	1/4"-20	2.362" (60 mm)	1.378" (35 mm)	.709" (18 mm)	50
191-455	1/4"-20	2.756" (70 mm)	1.378" (35 mm)	.709" (18 mm)	50

*Black Oxide

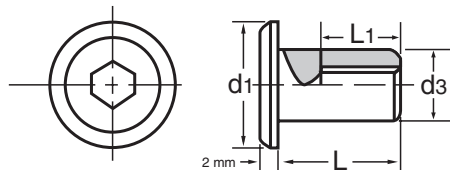
JOINT CONNECTOR NUT

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.



No More Shimming!

The adjustable screw and its ease of use.



Easy Installation of:

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

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:

1 pre-drill

wood brick or concrete
lath
drill bit
drilling machine

2 install anchor

anchor (plug)
TOP STAR

3 tool handling

crown
bit
important press down to the stop

4 install TOP STAR

TOP STAR
crown
bit

5 remove crown

TOP STAR
crown
bit
screw gun

6 adjust for perfect fit

distance adjustment
bit
screw gun

TOP STAR ADJUSTABLE DISTANCE SCREW



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

SPAENAUR No.	Dimensions		PKG QTY.
	U.S. Standard	Metric	
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



876-1565
Crown only



876-1566
Bit only

PKG QTY. 1

Wood Screws - Slot Drive

Vis à bois – tête fendue



Inch

Pouce



Flat and Oval head have 90° countersunk.

B

Inch Sizes PKG QTY. 100		STEEL			BRASS		
		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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CATALOG 14
SPAENAUR

Inch

Pouce



Wood Screws - Slot Drive

Vis à bois – tête fendue

Inch Sizes		STEEL			BRASS		
Continued from Previous Page							
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	576-055	
	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		
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	
16	2-1/4		1307				

PKG QTY. 100

CATALOG 14.05
2019/12/18
SPAENAUR

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PKG QTY. 100 ALL ITEMS ON THIS PAGE

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
12	2-1/2		578-025
	1	578-026	
	1-1/4		578-027
	1-1/2	578-028	578-029
2	578-003	578-007	

B

ASSORTMENT
ASSORTIMENT **805-661-A**

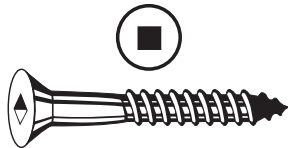
STEEL
Wood
Screws
Zinc Plated

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"		B69	
	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"			
	WS-41	10 x 1-1/4"			
	WS-42	10 x 1-1/2"		50	B68
	593-K23-1X	10 x 2"			
	WS-136	10 x 2-1/2"			
	WS-96	10 x 3"			
WS-139	10 x 3-1/2"				
WS-46	12 x 1-1/2"				
WS-48	12 x 2"	50	B68		
WS-50	12 x 2-1/2"				
593-K01-1P	6 x 3/8"				
WS-126	8 x 1-1/4"				
WS-157	8 x 2"				
WS-128	10 x 3/4"				

CATALOG 14

SPAENAUR



SPAENAU

Fasteners Right Now[®]

NEW PAULIN[®] SCREWS

Deck, fence & construction screws

Find the perfect one for every project.



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From H.PAULIN & CO.

Pg. B303

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High quality inserts and screws

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From RAMPA TEC. INC.

Pg. C157

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Pg. B303

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**Douilles filetées et vis de
haute qualité**

Découvrez notre nouvelle gamme
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Inch
Pouce








Wood Screws - Phillips Drive

Vis à bois – tête cruciforme

PKG QTY. 100
ALL ITEMS ON THIS PAGE



Inch Sizes		STEEL			BRASS	
						
DIA.	L.	FLAT ZINC PLATED	ROUND ZINC PLATED	OVAL ZINC PLATED	FLAT PLAIN FINISH	ROUND PLAIN FINISH
3	1/2			B-388 (Nickel Plated)		
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	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	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				

B

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

CATALOG 14.06 SPAENAUR

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B67

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Wood Screws - Square Drive

Vis à bois – tête carrée



Inch

Pouce

PKG QTY. 100



B

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					
7	2	WS-94					
	1/2		593-K19-1W				
	3/4	WS-59					
	1	WS-60	WS-143				
	1-1/4		WS-154				
8	1-1/2	WS-203					
	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		
9	2-1/2	WS-81	WS-158			592-001	
	3/4	593-K12-1A					
10	1-1/4	593-K11-1X					
	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

SPAENAUR
 CATALOG 14

B68

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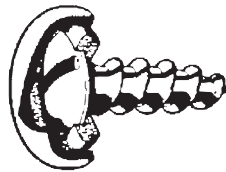


PKG QTY. 100



Inch Sizes		STEEL			BRASS
					Head Dimensions to ASME B18.6.1
Continued from Previous Page		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
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

Wood Screws - Square Drive Assortments

Assortiments de vis à bois – tête carrée



Inch and Metric

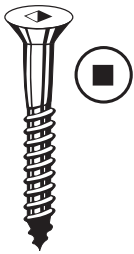
Pouce et Métrique

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)

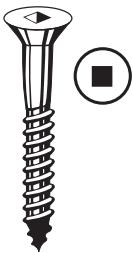
Head Type	Spaenaur No.	Dia. X Lgth.	Qty.	Page
Flat	WS-56	6 x 3/4"	50	B68
	593-K02-1Y	6 x 1"		
	593-005	6 x 1-1/2"		
	WS-94	6 x 2"		
	WS-63	8 x 3/4"		
	WS-20	8 x 1"		
	WS-65	8 x 1-1/4"		
	593-K05-1T	8 x 1-1/2"		
	WS-80	8 x 2"		
	WS-81	8 x 2-1/2"		
	WS-40	10 x 1"		
	WS-41	10 x 1-1/4"		
	WS-42	10 x 1-1/2"		
	593-K23-1X	10 x 2"	25	B69
	WS-136	10 x 2-1/2"		
	WS-96	10 x 3"		
	WS-139	10 x 3-1/2"		
	WS-46	12 x 1-1/2"		
WS-48	12 x 2"			
WS-50	12 x 2-1/2"	50	B68	
593-K01-1P	6 x 3/8"			
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	1"				
	592-A06-1W		1-1/2"				
	WS-646		3/4"				
	WS-543	#8	1-1/4"				
	WS-546		1-1/2"				
	WS-547		1-3/4"				
	WS-627		2"				
	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"	30	B69		
	WS-617		1-1/4"				
	WS-621		1-1/2"				

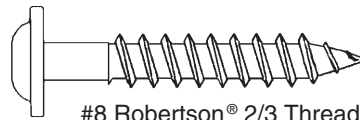
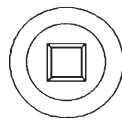
B70

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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.





Particleboard/Wood Screws

HARDENED STEEL - Yellow Zinc Plated and Wax Coated

FLAT HEAD (90° countersunk) Torx Drive

B

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.	SPAENAUR No.	Metric Size (mm)	Approx. Inch Equivalent	PKG QTY.
701-065	3.0 x 16	4 x 5/8"	100	701-082	5.0 x 20	10 x 3/4"	100
701-066	3.0 x 20	4 x 3/4"	100	701-083	5.0 x 25	10 x 1"	100
701-067	3.0 x 25	4 x 1"	100	701-085	5.0 x 40	10 x 1-1/2"	100
701-235	3.0 x 30	4 x 1-1/4"	100	701-086	5.0 x 45	10 x 1-3/4"	100
701-068	3.5 x 12	6 x 1/2"	100	701-087	5.0 x 50	10 x 2"	100
701-069	3.5 x 16	6 x 5/8"	100	701-088	5.0 x 60	10 x 2-1/2"	100
701-070	3.5 x 20	6 x 3/4"	100	701-089	5.0 x 70	10 x 2-3/4"	50
701-072	3.5 x 30	6 x 1-1/4"	100	701-051	5.0 x 80	10 x 3-1/8"	50
701-073	3.5 x 40	6 x 1-1/2"	100	701-054	5.0 x 90	10 x 3-1/2"	50
701-055	3.5 x 45	6 x 1-3/4"	100	*701-A05-1X	5.0 x 100	10 x 4"	50
701-074	4.0 x 16	8 x 5/8"	100	701-091	6.0 x 50	12/14 x 2"	100
701-075	4.0 x 20	8 x 3/4"	100	701-092	6.0 x 60	12/14 x 2-1/2"	100
701-076	4.0 x 25	8 x 1"	100	701-093	6.0 x 70	12/14 x 2-3/4"	50
701-077	4.0 x 30	8 x 1-1/4"	100	701-094	6.0 x 80	12/14 x 3-1/8"	50
701-078	4.0 x 40	8 x 1-1/2"	100	701-095	6.0 x 90	12/14 x 3-1/2"	50
701-079	4.0 x 45	8 x 1-3/4"	100	701-096	6.0 x 100	12/14 x 4"	50
701-057	4.0 x 50	8 x 2"	100	<p>Extra Long Lengths.</p>			
701-236	4.0 x 60	8 x 2-1/2"	100				
701-058	4.0 x 70	8 x 2-3/4"	50	701-097	6.0 x 120	12/14 x 4-3/4"	50
701-080	4.5 x 20	9 x 3/4"	100	701-098	6.0 x 140	12/14 x 5-5/8"	50
701-081	4.5 x 25	9 x 1"	100	701-A01-1T	6.0 x 160	12/14 x 6-3/8"	25
701-052	4.5 x 30	9 x 1-1/4"	100	701-228	6.0 x 180	12/14 x 7-1/4"	25
701-060	4.5 x 40	9 x 1-1/2"	100	701-229	6.0 x 200	12/14 x 8"	25
701-061	4.5 x 45	9 x 1-3/4"	100	701-234	6.0 x 300	12/14 x 12"	25
701-062	4.5 x 50	9 x 2"	100	* R4 Torx Drive			
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				

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

SPAENAUR CATALOG 14.11



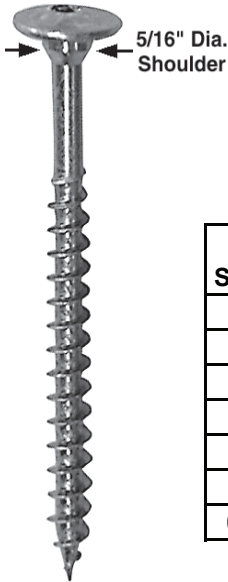
RSS Lagscrew

Torx Drive

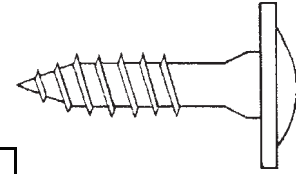
Low Carbon Steel - Case Hardened

Yellow Zinc Plated

T-Star Recess



5/16" Dia.
Shoulder



Torx
Washer Head

Spaenaur No.	Dimensions		PKG QTY.
	Metric	U.S. Standard	
038-250	7mm x 60mm	.280" x 2.50"	50
038-251	7mm x 80mm	.276" x 3.125"	50
038-252	7mm x 100mm	.280" x 4"	50
038-253	7mm x 130mm	.280" x 5"	50
038-254	7mm x 150mm	.270" x 5.875"	50
*038-255	8mm x 180mm	.3125" x 7"	10
038-H43-1N	8mm x 200mm	.3125" x 8"	10

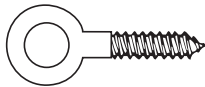


T30
Recess Drive

*T40 Recess Drive

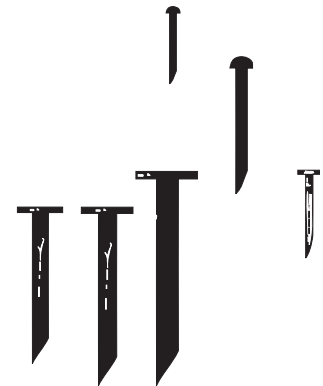
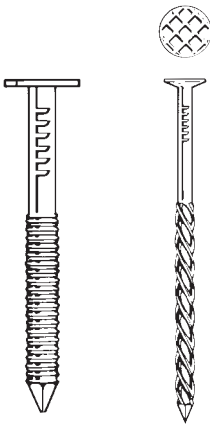
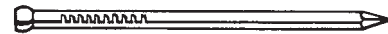


For Hex Head Lag Screws in plain and hot galvanized steel and stainless steel see pages B256 and B257.



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



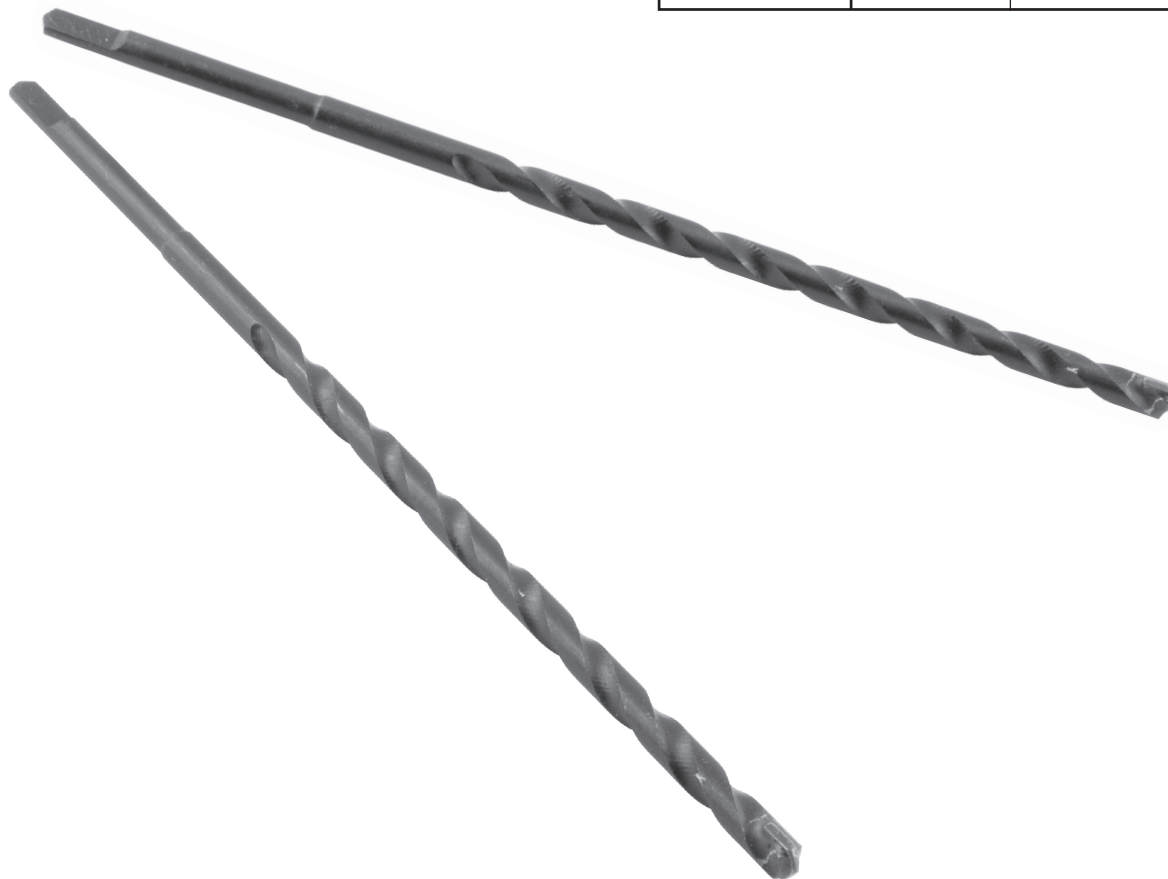
B

ROTARY MASONRY DRILLS

For Use in Rotary and Hammer Drills

PKG QTY. 1

SPAENAU No.	Drill Bit Dia.	Length
875-159	5/32"	3-1/2"
875-160		4-1/2"
875-161		5-1/2"
875-162	3/16"	3-1/2"
875-163		4-1/2"
875-164		5-1/2"
875-165		6-1/2"




SPAENAU
Fasteners Right Now®

For more drill bits see page P29

SPAENAU CATALOG 14.09

Inch
Pouce

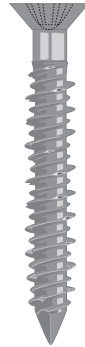
TAPCON®



Concrete Screws / Anchor Installation Tools

Vis à béton / Outils d'installation d'ancrages

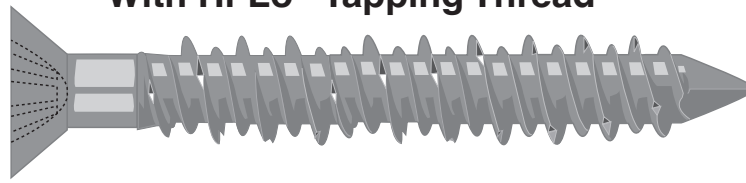
**ALL-NEW MASONRY
ANCHOR SYSTEM.
EASIER, FASTER,
STRONGER,
ECONOMICAL.**



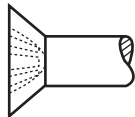
**CONCRETE ANCHOR SYSTEM
3/16" and 1/4"
DIAMETER**

(82° COUNTERSUNK)
TORX FLAT HEAD

With Hi-Lo® Tapping Thread



C-1022 STEEL
Case-hardened

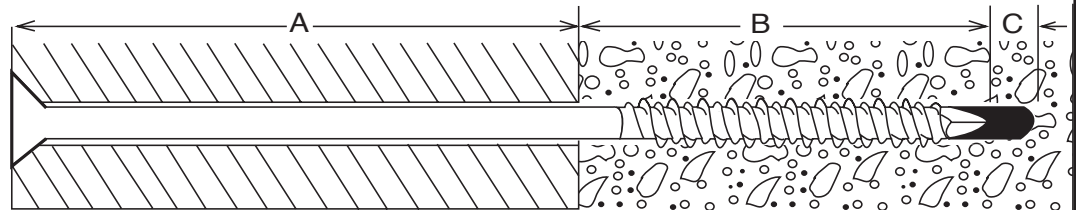


Finish: Blue CLIMASEAL® Organometallic Polymer Coating. (Some blue corrosion resistant zinc electroplated screws are still available and will be supplied until present stock is depleted.)

B Embedment in Concrete
C Additional Hole depth

	<u>Min.</u>	<u>Max.</u>
B	1"	1-1/4"
C	1/4"	

**SELECTOR
GUIDE**



TAPCON SCREW ANCHOR SIZE A + B	PKG QTY. 100 ANCHORS with 1 Drill Bit SPAENAUR No.	A + B + C DRILL BIT SIZE		DRILL BIT PKG QTY. 1 SPAENAUR No.	
		Dia.	Length		Drill Bit Dia.
3/16"	x 1-1/4"	506-A02-1T 506-A03-1K	5/32"	x 3-1/2"	875-159
	x 1-3/4"			x 4-1/2"	875-160
	x 2-1/4"	506-A04-1W 506-A05-1M		x 5-1/2"	875-161
	x 2-3/4"			x 3-1/2"	875-162
1/4"	x 1-1/4"	506-A08-1P 506-A09-1Y	3/16"	x 4-1/2"	875-163
	x 1-3/4"			x 5-1/2"	875-164
	x 2-1/4"	506-A10-1P 506-A11-1Y		x 6-1/2"	875-165
	x 2-3/4"				
	x 4"			506-A12-1C	
x 5"	506-A13-1N				

CATALOG 14.09 SPAENAUR

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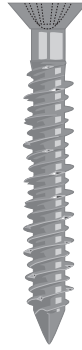
P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

B75

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B

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



CONCRETE ANCHOR SYSTEM

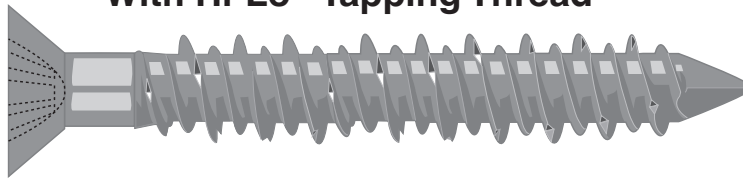
3/16" and 1/4" DIAMETER

(82° COUNTERSUNK)

PHILLIPS FLAT HEAD

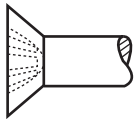


With Hi-Lo® Tapping Thread



C-1022 STEEL
Case-hardened

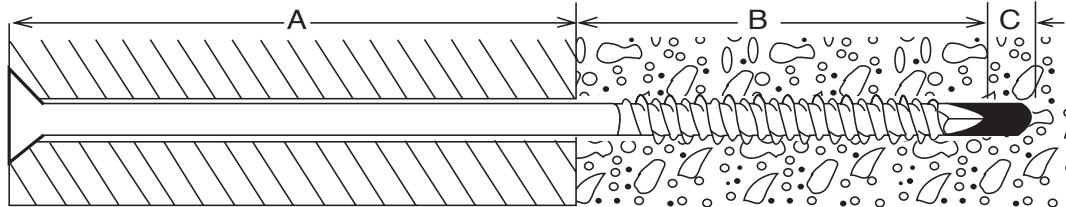
Philips drive available only while quantities lasts
New Torx drive is available on page B75

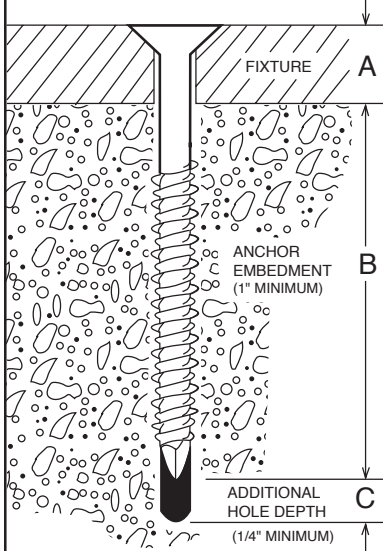


Finish: Blue CLIMASEAL® Organometallic Polymer Coating. (Some blue corrosion resistant zinc electroplated screws are still available and will be supplied until present stock is depleted.)

	<u>Min.</u>	<u>Max.</u>
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 SPAENAUR No.	A + B + C DRILL BIT SIZE		DRILL BIT PKG QTY. 1 SPAENAUR No.
	Dia.	Length		Drill Bit Dia.	Length	
ANCHOR EMBEDMENT (1" MINIMUM)	3/16"	x 1-1/4"	506-051	5/32"	x 3-1/2"	875-159
		x 1-3/4"	506-052		x 4-1/2"	875-160
		x 2-1/4"	506-053		x 5-1/2"	875-161
		x 2-3/4"	506-054			
		x 3-1/4"	506-055			
		x 4"	506-056			
ADDITIONAL HOLE DEPTH (1/4" MINIMUM)	1/4"	x 1-1/4"	506-057	3/16"	x 3-1/2"	875-162
		x 1-3/4"	506-058		x 4-1/2"	875-163
		x 2-1/4"	506-059		x 5-1/2"	875-164
		x 2-3/4"	506-060		x 6-1/2"	875-165
		x 4"	506-062			
		x 5"	506-063			

B76

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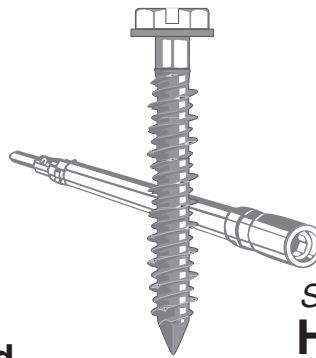
Inch
Pouce



Concrete Screws / Anchor Installation Tools

Vis à béton / Outils d'installation d'ancrages

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

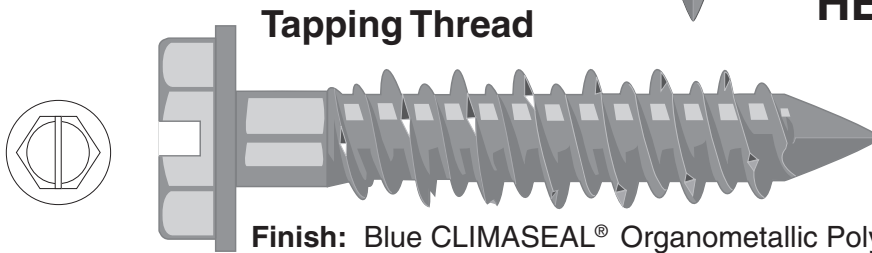


CONCRETE ANCHOR SYSTEM
3/16" and 1/4" DIAMETER

SLOTTED HEX WASHER HEAD

C-1022 STEEL

Case Hardened With Hi-Lo®



Tapping Thread

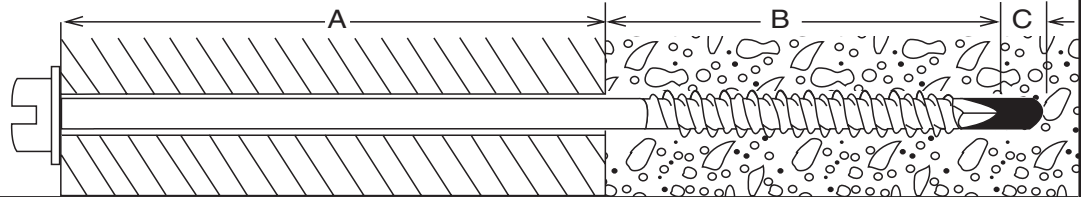
Finish: Blue CLIMASEAL® Organometallic Polymer Coating.
(Some blue corrosion resistant zinc electroplated screws are still available and will be supplied until present stock is depleted.)

Anchor Size 3/16" Dia. - 1/4" width across flats
1/4" Dia. - 5/16" width across flats

B Embedment in concrete
C Additional hole depth

min. max.
1" 1-1/4"
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.		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 4-1/2"	875-160
		x 2-1/4"			506-004	x 5-1/2"	875-161
		x 2-3/4"			506-005		
		x 3-1/4"			506-006		
1/4"		x 4"	506-007	3/16"	x 3-1/2"	875-162	
		x 1-1/4"	506-010		x 4-1/2"	875-163	
		x 1-3/4"	506-011		x 5-1/2"	875-164	
		x 2-1/4"	506-012		x 6-1/2"	875-165	
		x 2-3/4"	506-013				
		x 3-1/4"	506-014				
	x 4"	506-015					
	x 5"	506-016					



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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CATALOG 14.04
2019/08/08

SPAENAUR



PLASTIKIT
«PLASTIKIT» **A-5**

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

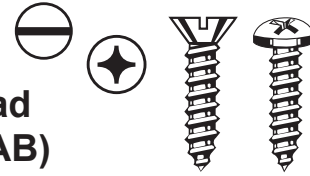
20 SIZES - 140 PIECES



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

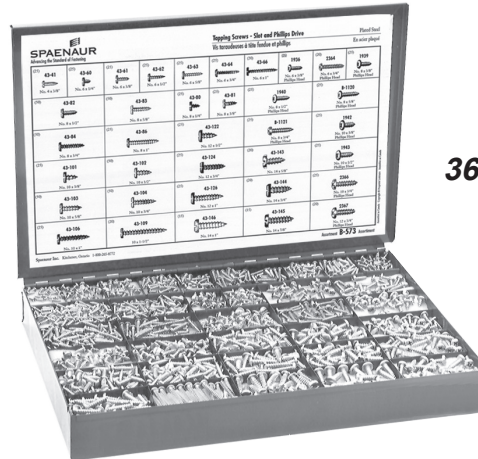
ASSORTMENT
ASSORTIMENT **B-573**

**Slotted & Phillips Pan Head
TAPPING SCREWS (Type AB)**



**ALL SCREWS
ZINC PLATED**

36 SIZES - 1000 PIECES



18" x 12" x 3"
Excellent "General Purpose" kit. Grey enameled STEEL box. 12 SCOOPED bins, 24 regular bins.

Shipping weight:
5.6 kg (12.35 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 enameled 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 enameled metal box. Hinged lid, SCOOPED bins & dividers.
Shipping weight: **4.08 kg** (9 lbs.)



For the complete assortment contents turn to A36

Inch

Pouce



Tapping Screws - Slot Drive

Vis autotaraudeuses – prise fendue

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.



Type AB
thread

Made to
ASME B18.6.3

B

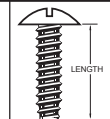
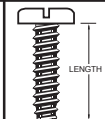
Inch Sizes (Approx. Metric mm equivalent shown in brackets.)					Inch Sizes (Approx. Metric mm equivalent shown in brackets.)							
DIA.	L.	OVAL	FLAT	PAN	DIA.	L.	OVAL	ROUND	FLAT	PAN	TRUSS	
2 (2.2 mm)	3/16			ST-139	10 (4.8 mm)	3/8				43-101		
	1/4			ST-196		1/2		83-102		43-102	ST-106	
4 (2.9 mm)	1/4			ST-24		3/4	52-104				43-104	
	3/8			43-41		7/8				43-105		
	1/2		ST-134	43-42		1		83-106	63-106	43-106		
	5/8			ST-140		1-1/4				43-108		
	3/4			ST-141		1/2				43-122		
6 (3.5 mm)	1			520-B02-1M		14 (6.3 mm)	1/2					
	1/4			43-60			5/8				43-142	
	3/8		63-61	43-61			1				43-143	
	1/2			43-62	3/4					43-144		
	5/8		63-63	43-63	1					43-146		
	3/4	52-64	ST-188	43-64								
8 (4.2 mm)	7/8			ST-143								
	1			43-66								
	1-1/4			ST-135								
	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									

Hardened
STEEL
Inch Sizes



TYPE B SLOTTED DRIVE

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



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

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	

See page R12 for Technical Information relating to Tapping Screws

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CATALOG 14

SPAENAUR



18-8 STAINLESS STEEL

INCH Sizes

TYPE "AB"

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

B



80° to 82° ctsk.



Type "A" illustrated



80° to 82° ctsk.



*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)		Type "A" illustrated					Inch Sizes (Approx. Metric mm equivalent shown in Brackets)		Type "A" illustrated				
DIA.	L.	OV	RO	FL	PA	TR	DIA.	L.	OV	RO	FL	PA	
4 (2.9 mm)	1/4				ST-2030		10 (4.8 mm)	3/8				ST-2070	
	3/8	ST-2034		ST-2032	ST-2033			1/2		ST-2071	521-058	ST-2072	
	1/2	ST-2036			ST-2035			5/8				ST-2074	
	3/4				ST-2038			3/4		ST-2075	521-A06-1K	ST-2076	
6 (3.5 mm)	1/4				ST-2039		12 (5.5 mm)	1			ST-2077	ST-2079	
	3/8	ST-2130	ST-2040	ST-2129	ST-2042	521-A05-1T		1-1/4	521-060	ST-2096	ST-2095	521-A01-1P	
	1/2	ST-2131		521-A03-1C	ST-2045			1-1/2	521-064		ST-2100	521-057	
	5/8			ST-2132	ST-2046		14 (6.3 mm)	1/2				ST-2081	
	3/4	ST-2059	ST-2047	ST-2133	ST-2048			3/4				ST-2082	
	1			521-059	ST-2049			1		ST-2094		521-A04-1N	
7 (3.9 mm)	1-1/2				521-062		14 (6.3 mm)	3/4		ST-2092		ST-2084	
	3/8				ST-2052			1				ST-2099	
8 (4.2 mm)	1/2		ST-2057		ST-2058	ST-2016	See page R12 for Technical Information relating to Tapping Screws						
	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								

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

Inch

Pouce



Tapping Screws - Phillips Drive

Vis autotaraudeuses – prise cruciforme

**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°				Inch Sizes (Approx. Metric mm equivalent shown in Brackets.)	80° to 82°						
	OVAL	FLAT	PAN	TRUSS		DIA.	L.	OVAL	ROUND	FLAT	PAN	TRUSS
2 (2.2 mm)	1/2			530-B18-1M	8 (4.2 mm)	2-1/4			530-135			
						2-1/2	*ST-312P			530-B89-1T	530-049	
4 (2.9 mm)	1/4		530-B23-1P	530-B51-1C	10 (4.8 mm)	3			530-018	530-050		
	3/8	ST-525P	530-001	530-B34-2A		*With No.6 Hd.						
	1/2	530-B66-1K	530-B24-1Y	530-B08-1A		3/8				1942	530-B86-1Y	
	5/8		530-B84-1A	530-B93-1W		1/2			530-019	1943	530-B15-1T	
	3/4	B-348	530-003	530-B29-1W		1/2	**ST-77P		**530-B69-1Y			
	1		530-004	530-B19-1X		5/8		530-134	ST-578P	1943A	530-B90-1N	
6 (3.5 mm)	1/4		530-B67-1W	1935	5/8	**ST-16P						
	5/16			530-B25-1C	3/4	ST-18P		ST-43P	530-B30-1K	530-B78-1K		
	3/8	B-1558	ST-168P	530-B02-1N	3/4	*1717						
	1/2	ST-63P	530-B52-1N	530-B80-1K	7/8	530-B83-1X				ST-488P		
	5/8	1793	530-005	ST-41P	1	ST-17P		530-020	530-B49-1C	ST-465P		
	3/4	1794	530-B56-1M	2364	1	*1804						
	7/8		530-006		1	**ST-19P						
	1	1796	530-007	ST-89P	1-1/8	1807						
	1-1/4	1797	530-B77-1T	530-044	1-1/4	ST-20P		530-021	530-B16-1K	ST-524P		
	1-1/2		530-008	530-045	1-3/8	ST-21P						
8 (4.2 mm)	2		530-009	530-046	1-1/2	ST-22P		530-022	1943B	ST-489P		
	1/2			530-B91-1T	1-1/2	*2046						
	1/4			530-B53-1T	1-1/2	**ST-69P						
	3/8		530-010	530-B14-2N	1-3/4	ST-23P		530-023	530-051			
	1/2	2358	530-B92-1K	530-B60-1A	1-3/4	*2047						
	1/2		*1711		2	ST-4P		530-B54-1K	530-B50-1Y			
	5/8	ST-13P	530-011	B-1120	2	*ST-71P						
	5/8	*1421			2-1/4	ST-75P		530-025	530-128			
	3/4	2359	530-012	B-1121	2-1/4	*ST-74PBO						
	3/4	*530-B68-1M	*1712		2-1/2			530-026	530-053			
	7/8	ST-14P	530-013	530-047	3			530-027	530-054			
	7/8	*1800			•Black Zinc *With No.6 Hd. **With No.8 Hd.							
	1	2360	530-743	530-B37-1C	1/2	ST-412P			530-B40-1N	530-069		
	1	*1483			5/8				ST-343P			
1-1/8	*530-B65-1T		ST-346P	3/4	ST-418P		530-028	2367	530-070			
1-1/4	2361	*530-B58-1A	ST-631P	1	**ST-422P		ST-172P	530-B57-1X	530-071			
1-3/8	ST-32P			1-1/4			530-029	530-055				
1-3/8	*1803A			1-1/2	**ST-427P			530-B71-1X				
1-1/2	2362	530-014	ST-723P	1-3/4	**ST-429P		530-030	530-B75-1C				
1-3/4	ST-25P	530-015	2088	2	**ST-432P		530-031	ST-10P				
1-3/4	*1933			2-1/2			530-032	530-057				
2	ST-26P	530-016	530-048	3			530-033	530-058				
2	*ST-2P			*With No.6 Hd. **With No.8 Head ***With No.10 Hd.								

Contact Sales Desk For Package Quantities

CATALOG 14

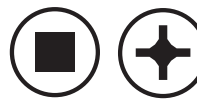
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B81

Tapping Screws - Phillips Drive / Square Socket Drive

Vis autotaraudeuses – prise cruciforme / carrée



Inch

Pouce

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**

SLOTTED/SOCKET DRIVE PKG QTY. 100

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	
8 (4.2 mm)	1	▲530-746	530-745	
	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	
10 (4.8 mm)	1-1/4	530-078	530-090	
	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
12 (5.5 mm)	1		530-092	
	1-1/4	530-083	530-093	
	1/2		530-094	530-B21-1X
	3/4		530-B74-1Y	
14 (6.3 mm)	1		530-096	
	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	SPAENAUR No.	Size	Finish
	530-740	8 x 3/8"	Black Zinc
O.D.	530-725	8 x 3/8"	Zinc
3/8"	530-B46-2A	8 x 1/2"	Chromate
	530-B10-1A	8 x 5/8"	Finish

TYPE AB SELF-TAPPING SCREWS

PKG QTY. 100

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

Material: Case Hardened Steel

Phillips Wafer Head

ASME B18.6.4



For Truck and Trailer FLOORBOARD SCREWS - see page B102.

B82

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CATALOG 14

SPAENAUR

Inch

Pouce



Tapping Screws - Phillips Drive



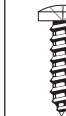




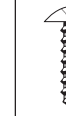
Vis autotaraudeuses – prise cruciforme

**18-8
STAINLESS
STEEL
TAPPING SCREWS**



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

Head/Body & Recess Dimensions to ASME B18.6.4

Inch Sizes (Approx. mm equivalent shown in brackets.)						Inch Sizes (Approx. mm equivalent shown in brackets.)						
DIA.	L.	OVAL	FLAT	PAN	TRUSS	DIA.	L.	OVAL	FLAT	PAN	TRUSS	
4 (2.9 mm)	1/4			531-A61-1T	531-163	12 (5.5 mm)	1/2			531-A68-1Y		
	3/8	531-A04-2A	531-A46-1N	531-A22-1N	531-164		5/8				531-A09-1T	
	1/2	531-020	531-A32-1Y	531-A02-2A	531-A13-1W		3/4	531-138	531-A10-1N		531-128	
	5/8		531-A20-1Y	531-013			1	531-139	531-A60-1N		531-129	
	3/4	531-A29-1P	531-A15-1X	531-A57-1C			1-1/4	531-140	531-135		531-A50-1K	
	1	531-A65-1X	531-019	531-A59-1T			1-1/2	531-A56-1Y	531-A23-1T		531-131	
6 (3.5 mm)	1/4			531-A41-1X		2	531-142	531-137		531-132		
	3/8	531-040	531-A26-1M	531-025	531-A34-1N	1/2	531-154			531-143		
	1/2	531-A58-1N	531-034	531-A14-1M	531-A43-1P	3/4	531-155	531-A52-1M		531-144		
	5/8	531-A28-1A	531-A64-1M	531-A42-1A	531-048	3/4	ST-2000P (#12 Hd., 430 S.S.)					
	3/4	531-A54-1A	531-036	531-A11-1T	531-A36-1K	1	531-156	531-150		531-145	531-160	
	1	531-044	531-037	531-029	531-050	1-1/4	531-157	531-151		531-146		
	1-1/4	531-045	531-A27-1X	531-030	531-051	1-1/2	531-A30-1A	531-A51-1W		531-147		
	1-1/2	531-A55-1P	531-039	531-A08-1N		2	531-A12-1K	531-A35-1T		531-A48-1K		
2			531-A05-1P		■ 526-002 Type B							
8 (4.2 mm)	3/8		531-A39-1X	531-052	531-078	ASSORTMENT 805-546						
	1/2	531-A25-1W	531-062	531-053	531-001	ASSORTMENT 805-546						
	5/8	531-071	531-A69-1C	531-A31-1P	531-A18-1Y	Made to ASME/ANSI B18.6.3						
	3/4	531-072	531-064	531-A44-1Y	531-080	18-8 STAINLESS STEEL TAPPING SCREWS PHILLIPS DRIVE						
	1	531-073	531-A24-1K	531-A45-1C	531-081	36 SIZES - 1000 PIECES						
	1-1/4	531-A63-1W	531-066	531-057	531-A66-1A	Furnished in Regular Size Steel drawer which will fit into Slide Racks shown on page A2						
	1-1/2	531-075	531-067	531-058	531-A47-1T	Shipping Wght: 3.60 kg (7.95 lbs.)						
	1-3/4	531-076	531-068	531-059		PLASTIKIT 804-080						
	2	531-A37-1W	531-A49-1W	531-A06-1Y	531-A07-1C	«PLASTIKIT» 804-080						
10 (4.8 mm)	3/8			531-085	531-117	18-8 STAINLESS STEEL Type A-AB TAPPING SCREWS PHILLIPS DRIVE						
	1/2	*531-A70-1Y	531-A19-1C	■ 531-A40-1M	531-118	Oval, Flat, Pan and Truss Heads						
	5/8	531-108	531-098	531-A62-1K	531-119	20 VARIETIES - 200 PIECES						
	3/4	531-A21-1C	531-099	531-088	531-120	Clear durable, plastic container 1" x 2-3/4" x 4-1/2"						
	1	531-110	531-A17-1P	531-090	531-A38-1M	Shipping Weight: 0.48 kg (1.05 lbs.)						
	1-1/4	531-111	531-101	531-091	531-122	For the complete assortment contents turn to A38						
	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									

* Undercut



For the complete assortment contents turn to A38

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B83

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CATALOG 14.09

SPAENAUR

Tapping Screws - Square Socket Drive

Vis autotaraudeuses – prise carrée



Inch

Pouce

**INCH
Sizes**

**Hardened
STEEL**

PKG QTY. 100
ALL SCREWS ON THIS PAGE

ASSORTMENT 805-531A

TAPPING SCREWS

32 SIZES - 1000 PIECES

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



Regular Size grey
enameled 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.	80° to 82° ctsk.	80° to 82° ctsk.	80° to 82° ctsk.	80° to 82° ctsk.
DIA.	L.	OVAL	▲ ROUND	FLAT	PAN	TRUSS
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-664		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.

SPAE NAUR CATALOG 14.09

B84

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Inch

Pouce



Tapping Screws - Square Socket Drive

Vis autotaraudeuses –prise carrée

18-8 STAINLESS STEEL INCH Sizes Head/Body & Recess Dimensions to ASME B18.6.3	Inch Sizes (Approx. mm equivalent shown in brackets)		 80° to 82° ctsk.	 80° to 82° ctsk.		PKG QTY.	
	DIA.	L.	OVAL	FLAT	PAN		
See page R12 for Technical Information relating to Tapping Screws	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		50
		5/8			536-073		
		3/4	536-027	536-A26-1C	536-A29-1K		
		1	536-A18-1W	536-A06-1W	536-005		
		1-1/4	536-029	536-A16-1T	536-A08-1X		
		1-1/2	536-A28-1T	536-043	536-A05-1K		
10 (4.8 mm)	1-3/4		536-044		25		
	2		536-045	536-A19-1M			
	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			
	12 (5.5 mm)	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				
3/4				536-A02-1C	50		
1			536-065	536-016			
1-1/4			536-A07-1M	536-A23-1A			
14 (6.3 mm)	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.

B

CATALOG 14

SPAENAUR

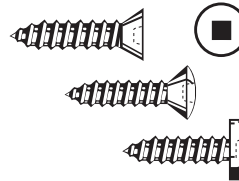


Page
A39

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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TORX®

STAINLESS STEEL, Type 302

Auto Trim Torx Drive

METRIC TAPPING SCREWS

Type AB Thread
A "must" for Auto Body Shops



Torx OVAL Head

TAPPING Screws



Torx PAN Head

4.2 mm Screw Dia. = #8 Inch Dia.



Torx OVAL HEAD



Torx PAN HEAD

SPAENAUR No.	Size (mm) Dia. x Lgth.	Finish	PKG QTY.	Driver
541-002	4.2 x 16	Chrome	50	Bit
541-003	4.2 x 20	Chrome	50	Size
541-004	4.2 x 20	Black	50	T15
541-005	4.2 x 30	Chrome	50	Driver No. 876-609
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	

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

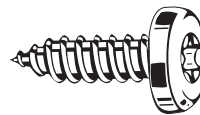
Hardened
STEEL
TAPPING SCREWS

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®



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

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

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



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

See page P16 for Torx Drive Screwdrivers

Inch
Pouce



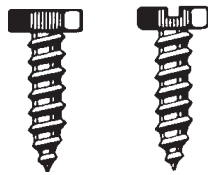
ASSORTMENT **B-575C**
ASSORTIMENT

**HEXAGON HEAD
TAPPING SCREWS**
Hardened Steel

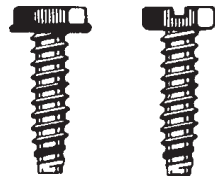
Inch Sizes



36 SIZES - 716 SCREWS



TYPE AB



TYPE B

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

18" x 12" x 3"

Shipping weight: **7.57 kg** (16.69 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	#6	1"	15	B88
	2269		1-1/4"		
	ST-616H	#8	1/4"	25	B89
	2368	#10	3/8"		
	2389	#12	1/2"		
	2388	#14	5/8"	25	B89
	1780		1/2"		
	2012	#14	5/8"	15	B89
	2179		3/4"		
	ST-622H		1-1/2"		
525-152	#6	1/4"	25	B88	
Slotted Hex Head Type B	B-1098	#8	5/16"	20	B88
	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"	20		
525-163	#10	1-1/4"	15		
Hex Washer Head Type B	T-60	#14	1"	25	
	ST-85H	#12	9/16"	15	
Slot Hex Washer Head Type AB	ST-625H	#12	3/4"	25	
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	B98
	491-P31-1X	5/16"-18	1"		
	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	3/8"-16	5/8"	6	
	B-1063			15	
	491-P05-2X	#10 - 24		15	

CATALOG 14.03
2019/04/18

SPAENAUR

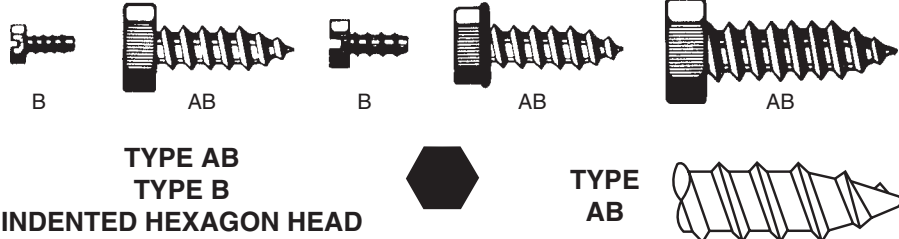
Tapping Screws - Hex Head / Hex Head Slot Drive

Vis autotaraudeuses – tête hexagonale / tête hexagonale a prise fendue



Inch
Pouce

Hardened
STEEL
TAPPING SCREWS



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 SPAENAUER 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.	SPAENAUER No.	Hex Width	SPAENAUER No.	Hex Width	SPAENAUER No.	Hex Width	SPAENAUER No.	Hex Width		
4 (2.9 mm)	1/4							525-172 Slotted Head	3/16		
	3/8	ST-616H	1/4			B-1098	1/4				
6 (3.5 mm)	1/2			525-156	1/4	ST-372H	1/4	B-1519	1/4		
	5/8			525-D36-1P	1/4	ST-373H	1/4	B-1520	1/4		
	3/4			525-143	1/4	ST-374H	1/4				
	1					525-D27-1N	1/4				
					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

CATALOG 14

SPAENAUER

B88

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Inch
Pouce



Tapping Screws - Hex Head / Hex Head Slot Drive

Vis autotaraudeuses – tête hexagonale/embout à fente à tête hexagonale

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				
12 (5.5 mm)	1-1/2							ST-391H	5/16				
	2					525-155	5/16						
	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				
14 (6.3 mm)	1-1/2			ST-500H	5/16			ST-398H	5/16				
	2	525-166	5/16					525-167	5/16				
	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				
5/16" (8.0 mm)	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						
	5/8	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						
3/8" (9.5 mm)	1-1/2	ST-86H	1/2			525-D34-1X	1/2						
	2	525-D12-1P	1/2										
	1	525-D37-1Y	9/16										
	1-1/2	ST-361H	9/16										
2	525-D20-1W	9/16											

Contact Sales Desk For Package Quantities

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

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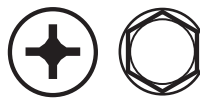
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CATALOG 14.06

SPAENAUR

B



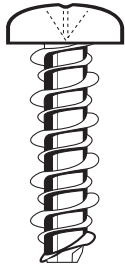
Type H-L (high-low) Self-Tapping Screws are double-lead, thread-forming fasteners with a unique high and low thread design. The thread design increases resistance to pull-out, and prevents workpiece damage. **For use in wood, particle board, and plastics.** (Do not use in steel.)

B

Self-Tapping Screws Type H-L



Hardened Steel Zinc Plated
Phillips Pan Head

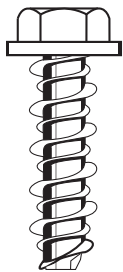


DIA.	4	6	8	10
LENGTH	ORDER BY SPAENAUR NUMBERS LISTED BELOW			
1/4"	530-B11-1P	530-104	530-B33-1X	
5/16"	530-101	*530-105		
3/8"	530-B44-1M	530-B01-1C	530-109	
1/2"	530-B43-1W	530-B07-1X	530-B17-1W	530-B73-1P
5/8"		530-B64-1N		
3/4"			530-111	

*530-B88-1N Black Oxide Finish

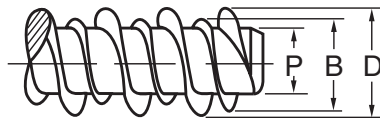


Unslotted
Hex Washer Head

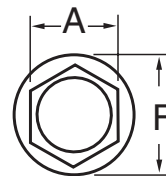


DIA.	4	6	8	10
LENGTH	ORDER BY SPAENAUR NUMBERS LISTED BELOW			
1/4"	525-100	525-104	525-108	
5/16"	525-101	525-105		
3/8"	525-102	525-106	525-109	525-112
1/2"	525-103	525-107	525-110	525-113
5/8"				525-114
3/4"			525-111	525-D29-1K

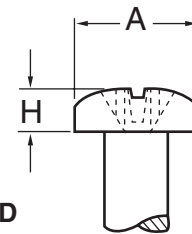
Specifications



HIGH-LOW THREAD



UNSLOTTED
HEX WASHER HEAD



PAN HEAD

Nominal Diameter and Thread	D High Thread Diameter	B Low Thread Diameter	P Point Diameter	A Width Across Flats		F Diameter of Washer		A Diameter of Head		H Height of Head Recessed		
				Nom. Size	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
4-24	.105-.115	.086	.061-.070	4	.125	.120	.177	.163	.193	.180	.071	.062
6-19	.135-.145	.108	.080-.090	6	.188	.181	.260	.240	.254	.240	.097	.087
8-18	.160-.170	.130	.095-.105	8	.250	.244	.328	.302	.270	.256	.097	.087
10-16	.185-.195	.145	.099-.110	10	.250	.244	.348	.322	.322	.306	.115	.105

Inch

Pouce



Self-Drilling Screws - Hex Head / Phillips Drive

Vis autoperceuses – tête hexagonale / prise cruciforme

410 STAINLESS STEEL		SELF-DRILLING FASTENERS						Thread and Point Dimensions to IFI-113	
		HARDENED							
HEX WASHER HEAD	<i>SPAENAUR No.</i>	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"	.107/.105"	2	1/4"	.035-.090
	508-T17-1P	8-18 x 1/2"	1/2"	11/32"	5/32"	.126/.124"	2	1/4"	.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"	.126/.124"	2	1/4"	.035-.100
	508-805	8-18 x 1"	1"	27/32"	5/32"	.126/.124"	2	1/4"	.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"	.126/.124"	2	1/4"	.035-.100
	508-808	10-16 x 1/2"	1/2"	19/64"	13/64"	.145/.143"	2	5/16"	.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"	.145/.143"	2	5/16"	.035-.110	
	508-T10-1N	10-16 x 1"	1"	51/64"	13/64"	.145/.143"	2	5/16"	.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"	.145/.143"	2	5/16"	.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"	.179/.175"	3	5/16"	.110-.210
	508-T15-1X	1/4"-14 x 3/4"	3/4"	29/64"	19/64"	.207/.203"	3	3/8"	.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"	.207/.203"	3	3/8"	.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"	.207/.203"	3	3/8"	.110-.250

B

**Self - Drilling Screw
Aluminum**
7075-T6 Alloy/Etched Finish
Hex Washer Head

PKG QTY.
100

<i>SPAENAUR No.</i>	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.*

COATED IN ALUMINUM
STAINLESS 18-8
FUSED
HARDENED STEEL
SELF-DRILLING POINT

PKG QTY.
100

Hex Washer Head	
<i>SPAENAUR No.</i>	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	
<i>SPAENAUR No.</i>	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.

CATALOG 14

SPAENAUR

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

B91



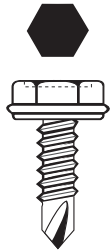
B

ASSORTIMENT 805-532

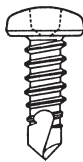
**TEKS®
SELF-DRILLING SCREWS**

**Carbon Steel Hardened
Plated**

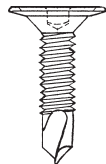
**26 SIZES
575 PIECES**



Hex Washer Hd.



Sq. Socket Pan Hd.
Phillips Pan Hd.



Sq. Socket Wafer Hd.

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

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

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"			
	#12-14	508-006	1"			
		508-007	3/4"			
		508-018	1"			
	1/4"-14	508-019	1-1/2"			15
		508-020	2"			
508-008		3/4"				
508-021		1"				
508-022		1-1/2"				
Square Socket Pan Head	#6-20	508-101	1/2"	50		
		ST-727T	1/2"			
	#8-18	508-102	5/8"	25		
		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			

Inch
Pouce



Self-Drilling Screws - Hex Head / Square Socket / Phillips Drive

Vis autoperceuses – tête hexagonale / prise carrée / prise cruciforme

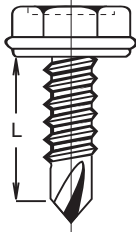
OF CARBON STEEL - HARDENED

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

PKG QTY. 100
All Items on this page.



HEX WASHER HEAD



POINT

CLIMASEAL®

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

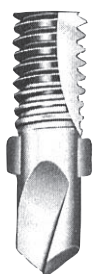
	SPAENAUR No.	Nom. Size Dia. x Pitch x L (length under hd.)	TEKS Point	Drill & Tap Capacity	Max. Material Attachment	Hex. Width
Zinc Plated	ST-668H	8-18 x 1/2"	2	.036-.100"	.205"	1/4"
	508-T22-1N	8-18 x 5/8"	2	.036-.100"	.330"	1/4"
	508-013	8-18 x 3/4"	2	.036-.100"	.455"	1/4"
	508-001	10-16 x 1/2"	3	.036-.175"	.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 1-1/2"	3	.036-.210"	.960"	3/8"	
508-023	1/4"-14 x 2"	3	.036-.210"	1.460"	3/8"	

◆ Reamer Tekes (see below)

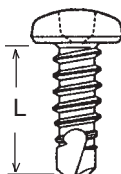
Use this style to fasten plywood to Low Carbon Steel or Aluminum. Wings break off when the point pierces the metal.

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

◆REAMER
TEKS
POINT



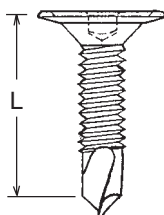
SQUARE SOCKET PAN HEAD Zinc Plated



Phillips



SQ. SOCKET WAFER HEAD Zinc Plated



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 Tekes® Screws)

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

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B

CATALOG 14

SPAENAUR



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

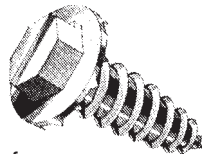
MASTER SEAL™ WASHERS



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

Shown on page D71.

More sealing washers, on same page.

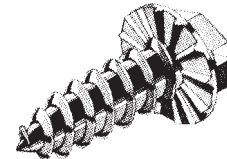


SELF TAPPING SCREWS

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

Used as tire studs for motorcycle ice racing.

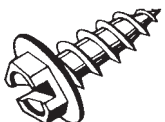
ASME B18.6.4

SELF-TAPPING SCREWS

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



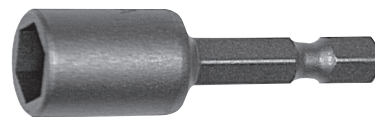
Needle-nose Point



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

Inch
Pouce



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

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

Case-Hardened

Zinc Plated

See page R12 for SELECTOR GUIDE

STEEL

Contact Sales Desk For
Package Quantities

VARIOUS TYPES & HEAD STYLES

SPAENAUR No.	Size	Drive and Head Style	Type	SPAENAUR No.	Size	Drive and Head Style	Type
ST-714P	2-56 x 1/4"	Phillips Flat	F	492-074	8-32 x 3/4"	Phillips Flat	1
492-C17-1C	2-56 x 1/4"	Phillips Pan	F	ST-619P	8-32 x 3/4"	Phillips Fillister	F
492-C08-1K	4-40 x 3/16"	Phillips Binding	F	492-C27-1P	8-32 x 3/4"	Phillips Pan	F
492-C12-1M	4-40 x 1/4"	Phillips Pan	F	ST-66P	8-32 x 7/8"	Phillips Round	1
492-C44-1N	4-40 x 1/4"	Socket Pan	F	492-C21-1T	8-32 x 1"	Socket Pan	F
ST-621	4-40 x 1/4"	Slot Pan	F	492-C29-1C	8-32 x 1-1/4"	Phillips Pan	1
ST-610	4-40 x 5/16"	Slot Pan	F	ST-618P	8-32 x 1-1/4"	Phillips Fillister	F
ST-676	#4 x 5/16"	Slot Pan	25	ST-675	10-24 x 5/16"	Slot Pan	F
492-079	4-40 x 3/8"	Socket/Slot Round	F	492-C43-1C	10-24 x 5/16"	Socket/Slot Pan (Black Phosph.)	F
492-070	4-40 x 5/8"	Phillips Pan	F	492-C24-1X	10-24 x 3/8"	Phillips Truss	1
492-071	#5 x 5/8"	Phillips Flat (Black Zinc)	25	ST-330	10-24 x 1/2"	Socket Pan	1
ST-477P	6-32 x 1/4"	Phillips Pan	1	ST-485	10-24 x 1/2"	Socket Pan	23
492-081	6-32 x 1/4"	Phillips Pan	F	492-C45-1T	10-24 x 1/2"	Phillips Truss	23
ST-308	6-32 x 1/4"	Socket Pan	F	492-C07-1T	10-24 x 1/2"	Socket Round	F
492-C03-1P	6-32 x 3/8"	Phillips Truss	1	ST-265	10-24 x 3/4"	Socket Round	F
ST-184P-BZ	6-32 x 3/8"	Phillips Truss (Black Zinc)	1	492-C18-1N	10-24 x 3/4"	Phillips Pan	F
ST-623	6-32 x 3/8"	Slot Pan	F	ST-596P	10-32 x 1/2"	Phillips Oval	1
ST-667	#6 x 3/8"	Slot Pan	25	ST-207P	10-32 x 1/2"	Phillips Truss	1
492-C25-1A	#6 x 3/8"	Socket Pan	25	492-083	10-32 x 1/2"	Phillips Truss	23
492-C15-2P	6-32 x 3/8"	Phillips Round	1	492-C16-1Y	10-32 x 1/2"	Socket Round	F
ST-678	6-32 x 3/8"	Socket Pan	1	492-C04-1Y	10-32 x 5/8"	Phillips Pan	1
492-C11-2W	6-32 x 3/8"	Socket Flat	F	492-C09-1W	10-32 x 5/8"	Socket Flat	23
ST-399P	6-32 x 1/2"	Phillips Pan	F	492-C06-1N	10-32 x 1"	Phillips Flat	F
ST-185P	6-32 x 1/2"	Phillips Truss	1	492-C20-1N	10-32 x 1"	Socket Pan	F
492-C38-1A	6-32 x 1/2"	Socket Fillister	1	492-C40-1A	10-32 x 1-1/2"	Phillips Flat	F
ST-562P	6-32 x 5/8"	Phillips Pan	1	492-C41-1P	12-24 x 1/2"	Phillips Flat (Undercut)	F
492-C31-1C	6-32 x 7/8"	Socket Binding	1	ST-681P	1/4"-20 x 5/8"	Phillips Flat	F
492-122	6-32 x 7/8"	Phillips Pan	F	492-C14-1A	1/4"-20 x 5/8"	Socket Round	1
492-C42-1Y	8-32 x 1/4"	Phillips Round	1	492-C32-1N	1/4"-20 x 3/4"	Phillips Round	1
492-121	8-32 x 5/16"	Phillips Truss	1	492-C02-1A	1/4"-20 x 1"	Phillips Truss	F
492-C13-1X	8-32 x 5/16"	Phillips Truss	F	492-C35-1W	1/4"-20 x 1"	Phillips Oval	F
ST-84P	#8 x 3/8"	Phillips Binding	25	ST-472P	1/4"-20 x 1-1/4"	Phillips Pan	F
492-C34-1K	8-32 x 3/8"	Phillips Pan	1	492-C33-1T	1/4"-20 x 1-1/2"	Socket Flat	F
ST-493P	8-32 x 3/8"	Phillips Truss	1	492-C30-1Y	1/4"-20 x 1-1/2"	Phillips Round	23
492-C10-1K	8-32 x 7/16"	Phillips Flat	F	492-123	1/4"-20 x 1-1/2"	Phillips Pan	23
ST-90P	8-32 x 7/16"	Phillips Flat	23	ST-221	1/4"-20 x 2"	Socket Flat	F
492-C39-1P	8-32 x 1/2"	Phillips Oval	1	ST-222	1/4"-20 x 2-1/4"	Socket Flat	F
492-C19-1T	8-32 x 1/2"	Phillips Pan	1	ST-223	1/4"-20 x 2-1/2"	Socket Flat	F
492-C26-2A	8-32 x 1/2"	Socket Pan	F	ST-224	1/4"-20 x 3"	Socket Flat	F
492-075	8-32 x 1/2"	Phillips Pan (Parkerize Finish)	1	ST-599	1/4"-28 x 1-1/4"	Slot Flat	F
				ST-674P	5/16"-18 x 3/4"	Phillips Truss	1

Continues on next column

See page B117 for more Thread-Cutting Screws

CATALOG 14

SPAENAUR

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B95



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

PKG QTY. 100

ASSORTMENT
ASSORTIMENT **805-540**

Type 1



Type F



Type 23



THREAD-CUTTING SCREWS

PHILLIPS DRIVE
CASE-HARDENED STEEL
Zinc Plated

24 SIZES - 1270 PIECES



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		
	ST-657P	#8-32 x 1/2"	Type 1		
	492-C27-1P	#8-32 x 3/4"	Type F		
	492-C18-1N	#10-24 x 3/4"	Type F		
Truss	492-C04-1Y	#10-32 x 5/8"	Type 1	60	B95
	492-C03-1P	#6-32 x 3/8"			
	ST-185P	#6-32 x 1/2"			
	492-C24-1X	#10-24 x 3/8"			
Flat	492-073	#10-24 x 1/2"	Type 23	50	B95
	ST-207P	#10-32 x 1/2"	Type 1		
	ST-714P	#2-56 x 1/4"	Type F		
492-C10-1K	#8-32 x 7/16"	40			
492-C40-1A	#10-32 x 1-1/2"				
Round	492-C41-1P		#12-24 x 1/2"	Type 1	50
	492-C42-1Y	#8-32 x 1/4"			
	ST-66P	#8-32 x 7/8"			
	492-C14-1A	1/4"-20 x 5/8"			
Oval	492-C32-1N	1/4"-20 x 3/4"	Type 1	60	B95
	ST-56P	#8-32 x 1/2"			
	ST-596P	#10-32 x 1/2"			
Fillister	492-C35-1W	1/4"-20 x 1"	Type F	50	B95
	ST-618P	#8-32 x 1-1/4"	Type F	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.)

Inch

Pouce



Thread Cutting Screws - Slot Drive

Vis à filets coupants – tête fendue

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-T™ INSERT
SERIES KNURLED THREADED INSERTS

C135-C136



A-K™ INSERT
SERIES KNURLED THREADED INSERTS

C130-C131



A-W® INSERT
SERIES KNURLED THREADED INSERTS

C137



A-L™ INSERT
SERIES KNURLED THREADED INSERTS

C132-C133



R-N® RIVET NUT
SERIES THREADED INSERTS

C138-C139



A-O™ INSERT
SERIES THREADED INSERTS

C134

Power and Hand Tools
for AVK Series Inserts.

C140-C149

AVK Technical
and Test Data.

C150-C156

CATALOG 14.10 SPAENAUR

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B97

Thread Cutting Screws - Hex Head / Hex Head Slot Drive

Vis à filets coupants – tête hexagonale/tête hexagonale fendue



Inch

Pouce

Case-Hardened

THREE INDENTED HEXAGON HEAD STYLES

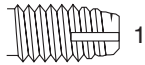
Slot, Hex Wshr. Hd.

STEEL

Four Thread Cutting Types

ZINC PLATED

ASME B18.6.3



1



F



23



25

Hex Head



Hex Wshr. Hd.



SPAENAUR No.	SIZE	HEAD STYLE	TYPE	Hex A/F	SPAENAUR No.	SIZE	HEAD STYLE	TYPE	Hex A/F
491-050	#4 x 5/16"	Hex. Washer	25	3/16"	ST-88H	1/4"-20 x 3/8"	Hex. Washer	1	3/8"
491-P07-1P	6-32 x 1/4"	Slot, Hex. Wshr.	F	1/4"	ST-647H	1/4"-20 x 1/2"	Hex. Washer	23	3/8"
ST-579H	6-32 x 3/8"	Hexagon	F	1/4"	491-P26-1K	1/4"-20 x 1/2"	Hexagon	1	3/8"
ST-726H	6-32 x 3/8"	Slot, Hex.	F	1/4"	491-P03-2W	1/4"-20 x 1/2"	Hex. Washer	1	3/8"
491-048	8-32 x 5/16"	Hex. Washer	F	1/4"	B-434A	1/4"-20 x 1/2"	Hex. Washer	1	7/16"
491-P24-1N	8-32 x 5/16"	Hexagon	F	1/4"	491-P12-1N	1/4"-20 x 5/8"	Hex. Washer	1	3/8"
491-121	8-18 x 1/2"	Slot, Hex.	F	1/4"	B-434-SL	1/4"-20 x 5/8"	Slot, Hex. Washer	1	3/8"
491-P25-1T	8-32 x 1/2"	Hex. Washer	25	1/4"	491-053	1/4"-20 x 3/4"	Hexagon	F	3/8"
ST-529H	8-32 x 3/4"	Hex. Washer	1	1/4"	491-P04-2M	1/4"-20 x 3/4"	Hex. Washer	F	3/8"
491-003	8-32 x 3/4"	Hex. Washer	F	1/4"	491-P14-1K	1/4"-20 x 3/4"	Hexagon	1	7/16"
491-P28-1M	#10 x 3/8"	Hexagon	25	5/16"	491-P16-1M	1/4"-20 x 1"	Hexagon	1	3/8"
491-052	10-24 x 5/8"	Slot, Hex. Washer	F	5/16"	491-P09-1C	1/4"-20 x 1"	Hex. Washer	1	3/8"
491-P23-1C	10-24 x 7/16"	Hex. Washer	1	5/16"	491-P29-1X	1/4"-20 x 1-1/4"	Hex. Washer	1	3/8"
ST-607H	10-24 x 1/2"	Hexagon	1	5/16"	ST-686H	5/16"-18 x 5/8"	Hex. Washer	F	1/2"
491-001	10-24 x 1/2"	Hex. Washer	F	5/16"	491-P06-1A	5/16"-18 x 5/8"	Hex. Washer	1	1/2"
ST-51H	10-24 x 9/16"	Hexagon	1	5/16"	491-P22-1Y	5/16"-18 x 1/2"	Hex. Washer	1	1/2"
491-P05-2X	10-24 x 5/8"	Hex. Washer	1	5/16"	491-P27-1W	5/16"-18 x 5/8"	Hexagon	1	1/2"
491-P21-1P	10-32 x 1/2"	Hexagon	23	5/16"	B-1636	5/16"-18 x 3/4"	Hex. Washer	F	1/2"
491-P17-1X	10-32 x 1/2"	Hexagon	F	5/16"	491-P31-1X	5/16"-18 x 1"	Hexagon	1	1/2"
491-120	10-32 x 1"	Slot, Hex. Washer	23	5/16"	491-P02-1K	5/16"-18 x 1"	Hex. Washer	1	1/2"
491-P13-1T	12-24 x 1/2"	Hex. Washer	1	5/16"	491-047	3/8"-16 x 5/8"	Hexagon	1	9/16"
491-P08-1Y	12-24 x 5/8"	Hex. Washer	1	5/16"	B-1063	3/8"-16 x 5/8"	Hex. Washer	1	1/2"
491-P32-1A	1/4"-20 x 3/4"	Hex. Washer	23	3/8"	491-P10-1Y	3/8"-16 x 1"	Hexagon	1	9/16"
ST-732H	1/4"-20 x 3/8"	Hex. Washer	F	3/8"	491-P01-1T	3/8"-16 x 1-3/4"	Hexagon	1	9/16"
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"					

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

SPAENAUR CATALOG 14.09

B98

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Inch

Pouce



Thread Rolling Screws - Phillips Drive / Hex Head

Vis autoformeuses – tête cruciforme / hexagonale

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

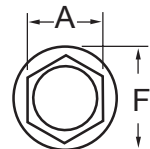


DIA.	4	6	8	10	1/4"
THREAD	40	32	32	32	20
LENGTH	ORDER BY SPAENAUR NUMBERS LISTED BELOW				
1/4"	492-C36-1M	492-C23-1W		492-111	
5/16"	492-101				
3/8"	492-102	492-C28-2Y	492-C05-1C	492-112	492-116
1/2"	492-103	492-106	492-108	492-113	492-117
5/8"			492-109	492-114	492-118
3/4"			492-110	492-115	492-119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

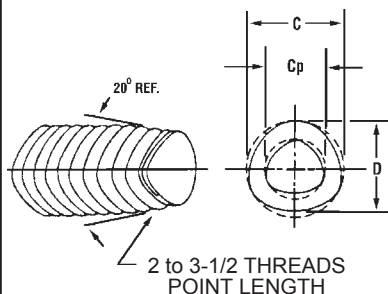
Indented Hex Washer Head



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		D Measurement Across Centre		CP Circumscribing Circle (Point)
			Max.	Min.	Max.	Min.	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		F Diameter of Washer	
	Max.	Min.	Max.	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.

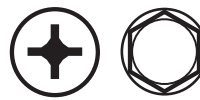
PKG QTY. 100 - All items on this page

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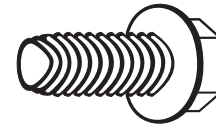
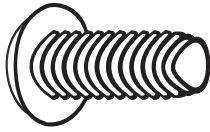
B99

B

CATALOG 14 SPAENAUR



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



B

SCREW SIZE	MATERIAL	MATERIAL THICKNESS														
		.020" - .078"			.063" - .140"			.125" - .266"			.250" - .328"			.313" - .500"		
		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	16	.177	65	15	.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 1140
«PLASTIKIT»

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"		B7
		785	#8-32	1/2"	10		
		1042		3/4"			
		B-1500		1"			
		380-F83-1C			1-1/2"	6	B8
		1484	#10-24	7/8"	8		
		1027	#10-32	1/2"			
		1028					
		801-A			1-1/2"	6	B8
		1032	#12-24	1/2"	2		
		1153		3/4"			
		380-F07-1C				7/8"	
		775	1/4"-20	1/2"	1		
		1467		3/4"			
		871		1"			
380-F08-1N			1-1/4"		B9		
155-P11-1K	#4-40		5				
155-P03-2A	#6-32		10	C2			
155-P04-1P	#8-32		18				
155-P08-1T	#10-24		8	B273 C2			
155-P02-1X	#10-32		10				
155-P22-1T	#12-24		6	C2			

CATALOG 14
SPAENAUR



STEEL TYPE "U" DRIVE SCREWS

ASME B18.6.4

ROUND HEAD
CASE-HARDENED STEEL
ZINC PLATED



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

DIAMETER		DRILL SIZE	LENGTH							
GA.	INCHES		1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
00	.058	55	ORDER BY SPAENAUR NUMBERS LISTED BELOW							
0	.073	51	B-1572 376-H05-1X	B-1570 376-H11-1C	B-1571 376-H07-2Y					
2	.098	44		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	B-1858 376-H14-1K	B-1125 B-1860			
7	.152	29					376-H06-1A	B-1861 B-1862		
8	.164	27					376-H09-1C	376-H08-1Y	B-1863 B-1866	
10	.179	20			376-H04-1M					
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 B18.6.4

18-8
STAINLESS
STEEL
ROUND HEAD

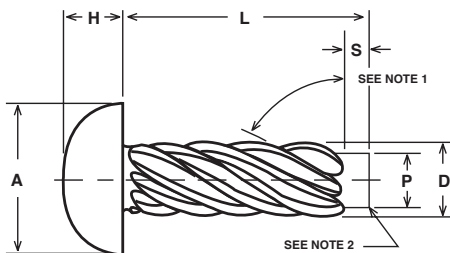


Hammer-driven for making permanent fastenings to ferrous and non-ferrous castings, heavy gauge steel, plastics, etc.

DIAMETER		DRILL SIZE	LENGTH					
GA.	INCHES		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



- The lead angle of the Type U Metallic Drive Screw thread shall be 45 to 65 degrees.
- 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		A Head Diameter		H Head Height		P Pilot Diameter		Recommended Hole Size	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Drill Size No.	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

	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



FLORTORX[®] SCREWS



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)	TORX T-40

PKG QTY. 50

CAMTAINER[®] FRP FASTENERS

PATENTED

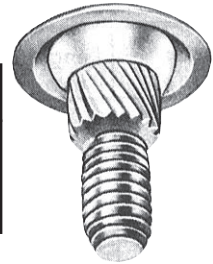
Specially designed for FRP trailers and containers. Camtainer fastens, seals, and secures.

Grade 5.1 Steel

Cadmium Plated & Clear Chromate Finish

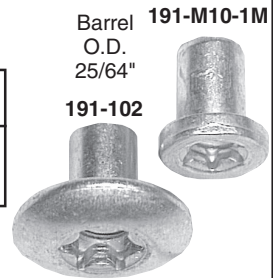
CAMTAINER STUD Dome Head

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)

FLOORBOARD SCREWS

Other Popular Styles

Case Hardened
STEEL
Zinc Plated
ASME B18.6.3

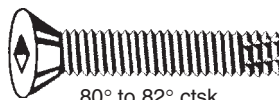
	SPAENAUR No.	Size	PKG QTY.
TYPE B 80° to 82° ctsk. PHILLIPS FLAT HEAD	ST-320P	14 x 1-1/4"	50
	530-B31-1W	14 x 1-1/2"	100
	ST-213P	14 x 1-3/4"	100
	ST-214P	14 x 2"	100
	ST-215P	14 x 2-1/4"	100
	ST-216P	14 x 2-1/2"	100
TYPE B 80° to 82° ctsk. SLOT FLAT HEAD	ST-217P	14 x 3"	100
	ST-156B	14 x 1-1/4"	50
	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



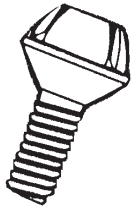
“TAMPRUF™” Fasteners

STEEL Zinc Plated



Tamper-Resistant MACHINE SCREWS

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.



Standard Head



Countersunk Head



PKG QTY. 100

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.



Standard Head



Countersunk Head



PKG QTY. 100

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.)



“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"	



For the complete assortment contents turn to A41

DRIVER HANDLE (Spinner) - use with “TAMPRUF” Bits.

1/4" Square Drive



Overall length 7"

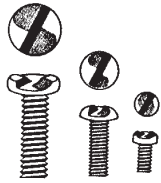
SPAENAUR No. **876-536**

PKG QTY. 1

See page C62 for “TAMPRUF” Nuts.



B



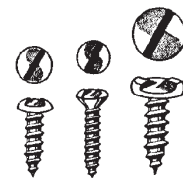
ONE-WAY SLOT DRIVE

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.	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Dia.	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

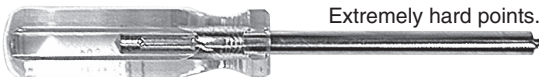


8A			516-915	516-916	516-917		
10A			516-918	516-919	516-920		

UN-DO-IT SCREW TOOL

Needed for removing "ONE-WAY SLOT" Machine Screws, Barrel Nuts and Shoulder Screws.

Extremely hard points.



Un-Do-It Screw Tool also shown on P23 with One-Way Slot Drive Screws. See page C66 for One-Way Slot Drive Barrel Nuts and Shoulder Screws.

Spaenaur Driver No.	For Machine Screw Sizes	For Tapping Screw Sizes
876-804	#6-32 #8-32	#6 #8
876-807	#10-32 1/4-20	#10 #12
876-810	5/16 and up	#14

Inch

Pouce



Machine Screws - Spanner Drive

Vis mécaniques – prise Spanner

Lgth.	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
Dia.	ORDER BY SPAENAUR NUMBERS LISTED BELOW									



(82° Ctsk. Hd.)

SPANNER OVAL HEAD MACHINE SCREWS, 18-8 STAINLESS STEEL

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	
1/4"-20					381-G09-2X					



(82° Ctsk. Hd.)

SPANNER FLAT HEAD MACHINE SCREWS, 18-8 STAINLESS STEEL

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		381-895	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
1/4"-20		381-949	381-950	381-951	381-952	381-953	381-M30-1N	381-955	381-956	QTY. 50



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



(82° Ctsk. Hd.)

SPANNER OVAL HEAD MACHINE SCREWS, BRASS Plain Finish

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	



(82° Ctsk. Hd.)

SPANNER FLAT HEAD MACHINE SCREWS, BRASS Plain Finish

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

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

B105

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CATALOG 14.09

SPAENAUR

B



(82° Ctsk. Hd.)

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

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



(82° Ctsk. Hd.)

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

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		



(82° Ctsk. Hd.)

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

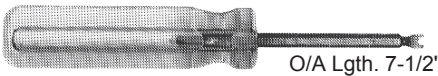
4A/AB	516-800	516-801	516-802		516-803				
6A/AB		516-804	516-805	516-806	516-807	516-808	516-809	516-810	516-811
8A/AB		516-812	516-813		516-814	516-815	516-816	516-817	516-818
10A/AB			516-819	516-820	516-821	516-822	516-823	516-824	516-825
12A/AB			516-C43-1N		516-827	516-828	516-829	516-830	516-831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

SPAENAUER 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)

SPAENAUER

Do NOT use Bit with Power Driver

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

SPANNER NUTS AND BITS



on page C62.

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



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

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



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

DIA	M3	381-300	381-301	381-302			
MET	M4	381-303	381-304	381-305	381-306	381-307	
R	M5		381-308	381-309	381-310	381-311	381-312
	M6					381-326	

All Screws this page
PKG QTY. 100

All Tools and Bits
PKG QTY 1

SPANNER BITS METRIC - Heat Treated

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

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

876-191
for M4 screws
(No.8)

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

Inch

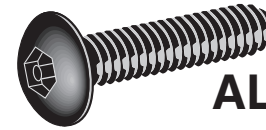
Pouce



Machine Screws - Security Hex Socket Drive

Vis mécaniques – prise hexagonale de sécurité

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 SPAENAUER 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

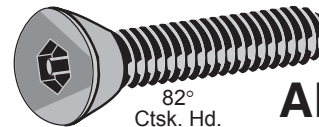
◆381-254ZP Zinc Plated

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		*381-199 Use with 1/8" A/F Security Driver.	381-384		381-385	381-386	381-387	381-388		381-389
3/8"-16			381-390		381-391	381-392		381-393		

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 SPAENAUER 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

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CATALOG 14

SPAENAUER

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



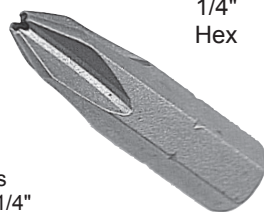
82°
Ctsk. Hd.

PKG QTY. 100

PHILLIPS SECURITY BIT

SPAENAUR No.
876-773

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



1/4"
Hex

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**



O/A Length 8"

Plastic Handle

SPAENAUR
No.
876-851

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

PKG QTY. 1

Inch

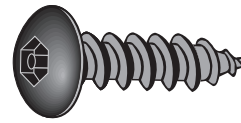
Pouce



Security Sheet Metal Screws / Bits / Hex Keys

Vis à tôle de sécurité / Embouts / Clés hexagonales

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



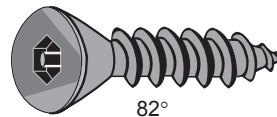
STEEL
Case-Hardened
Zinc Plated

LENGTH	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	TOOLS	
	ORDER BY SPAENAUR NUMBERS LISTED BELOW									BIT
DIA.										
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 (our option)
SHEET METAL SCREWS**



STEEL
Case-Hardened
Zinc Plated

82°
Ctsk. Hd.

LENGTH	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	TOOLS	
	ORDER BY SPAENAUR NUMBERS LISTED BELOW									BIT
DIA.										
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	516-089	516-090	876-770	130-T03-1C
10 (4.8 mm)		516-091	516-092	516-093	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

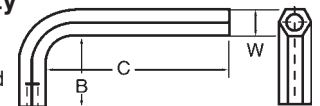
SPAENAUR No.	ACROSS FLATS	FITS BUTTON HEAD	FITS FLAT HEAD
876-835	3/32"	#4	#4
876-769	1/8"	#6	#6
876-770	5/32"	#8, #10, #14, and 1/4"	#8, #10, #14, and 1/4"
876-771	3/16"	5/16"	5/16"
876-772	7/32"	3/8"	3/8"



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.

CATALOG 14

SPAENAUR

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

Inch

Pouce



Machine Screws - Tamper-Resistant Torx® Drive

Vis mécaniques à prise Torx^{MD} inviolables

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



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.

CATALOG 14

SPAENAUR

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B111



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**



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.



TORX® TAMPER-RESISTANT SHEET METAL SCREWS

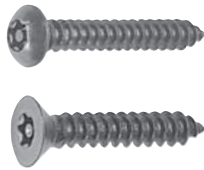
Alloy Steel

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 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 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 805-543

TORX® TAMPER-RESISTANT SCREWS

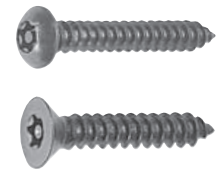
18-8 Stainless Steel

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		



B

**Torx® Tamper-Resistant
Button Head
Machine Screws**



A2 Stainless Steel

ISO 7380



	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**



A2 Stainless Steel



90°
Ctsk. Hd.

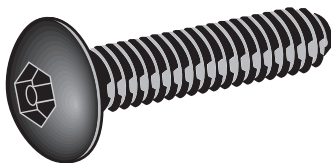
8	381-1085	381-1094	
10	381-1086	381-M40-1Y	381-1105
12	381-1087	381-1096	381-1106
16	381-1088	381-1097	381-1107
20	381-1089	381-1098	381-1108
25	381-1090	381-1099	381-1109
30	381-1091	381-1100	381-1110
40	381-1092	381-1101	381-1111
50	381-1093	381-1102	381-1113
60		381-1103	381-1112
70		381-1104	

**Security Hex Socket
Button Head
Machine Screws**



A2 Stainless Steel

ISO 7380

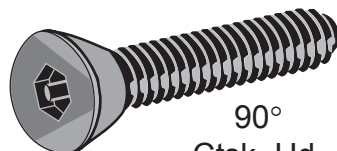


	M4	M5	M6	M8	M10
	Pitch 0.70	Pitch 0.80	Pitch 1.00	Pitch 1.25	Pitch 1.50
Bit/Tool Size	2.5 mm	3 mm	4 mm	5 mm	6 mm
Length mm	ORDER BY SPAENAUR NUMBERS LISTED BELOW				
8	381-G02-1Y				
10	381-1002	381-M37-1P	381-1015		
12	381-1003	381-1009	381-1016	381-1023	
16	381-1004	381-1010	381-M36-2A	381-1024	
20	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**



A2 Stainless Steel



90°
Ctsk. Hd.

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

Inch

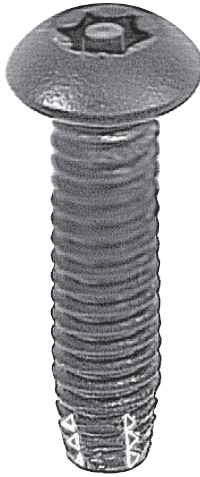
Pouce



Thread Cutting Torx® Tamper-Resistant Screws / Tools

Vis autotaraudeuses taillant le filet inviolables Torx^{MD} / Outils

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.

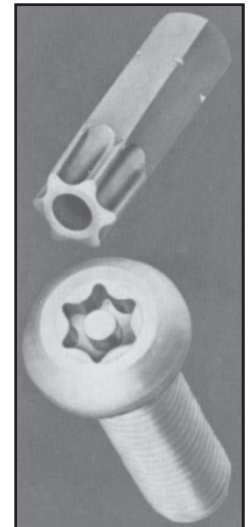
SPAENAUR No.	Type F Screw Size	Head Style	Torx Recess Size	PKG QTY.
381-201	8-32 x 3/4"	Button Head TORX Tamper-Resistant	TR15	100
381-202	8-32 x 1"			100
381-207	10-24 x 5/8"		TR25	100
381-G01-1P	10-24 x 1"			100
381-204	10-32 x 1/2"		TR27	100
381-205	10-32 x 3/4"			100
381-209	1/4"-20 x 3/4"		TR27	100
381-210	1/4"-20 x 1"			100
381-211	1/4"-20 x 1-1/2"			100

B

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.

Torx Recess Size	SPAENAUR NUMBERS LISTED BELOW		
	HAND DRIVER	*INSERT BIT	KEY WRENCH
Approx. O/A Lgth.	with integral Bit and plastic handle	1/4" Hex - 1" long ▲5/16" Hex - 1-1/4" long	Short Arm drilled both ends Alloy Steel
TR7	5-7/8" 876-1704	—	—
TR8	5-7/8" 876-1705	876-890	—
TR9	4-1/2" 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.

NOTE: SPANNER and TORX "Tamper Resistant" tools, are NOT guaranteed against overtorque, misuse, breakage or wear.

ALL BITS and TOOLS
PKG QTY.1



(Hollow handle for storing bits.)

(Bits not included.)

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.

CATALOG 14.03
2019/04/18

SPAENAUR



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	Insert Bits		Hex Keys	Hex Keys	
		SPAENAUR No.	Length and Hex Size		SPAENAUR No.	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

Inch
Pouce



Thread Cutting / Tapping Screws - Indented Hex / Phillips Drive
 Vis autotaraudeuses taillant le filet/autotaraudeuses – tête hexagonale dentelée/cruciforme

Hardened
STEEL

“SEMS” TYPE TAPPING SCREWS



**TYPES
A, B, 1, 23, 25**

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 SE-30 SE-31 SE-32	#8 x 5/8" #8 x 3/4" #8 x 1" #8 x 1-1/4"	Phillips Oval Head, Steel, Nickel Plated Type A - with Nickel Plated Finishing Washer. Screws have No. 6 Head. Auto Trim TAPPING Screws	100 100 100 100
	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

CATALOG 14

SPAENAUR

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

B117

Machine Screws / Shoulder Bolts / Tapping Screws

Vis mécaniques / Vis à épaulement / Vis autotaraudeuses



Inch

Pouce

B

STEEL Inch Sizes ASME B18.13	SLOT	“SEMS” TYPE MACHINE SCREWS		PHILLIPS
		PLATING: Zinc or Cadmium at our option.		
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

<h3>KNURLED HEAD MACHINE SCREWS</h3> <p>Steel - Nickel Plated</p> <p>PKG QTY. 100</p>		<p>386-C01-1K 1/4"-20 x 1"</p> <p>Pozi-Drive Flat Ctsk. Steel Mach. Screw Zinc Di-chromate ASME B18.6.3 PKG QTY. 100</p>
<p>MS-443 8-32 x 1/2" Nic. Pltd</p>	<p>Hardened Screw-in Stud. Stainless steel replaces weld on stud used for attaching moulding clips to body.</p> <p>599-015</p> <p>SIZE: #4B x 5/8"</p> <p>PKG QTY. 100</p>	

SPAENAUR CATALOG 14.05 2019/12/18

B118

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Inch

Pouce

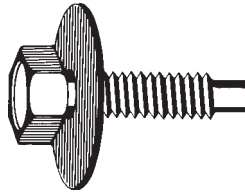


Automotive & Specialty Screws - Hex Drive

Vis spécialisées et pour automobile – prise hexagonale

STEEL

Hex Head



Dog Point

Ford Products '77/.

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

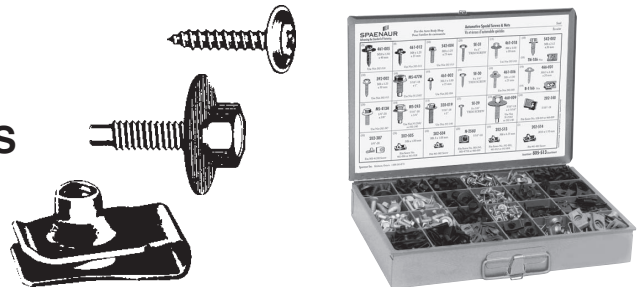
ASSORTMENT 805-513A

AUTOMOTIVE SPECIAL SCREWS & NUTS WITH TINNERMAN® FASTENERS

Panel Nuts & Automotive Screws

Steel

26 SIZES - 321 PIECES



For the complete assortment contents turn to A43

CATALOG 14

SPAENAUR

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Hex Flange Serrated Screws

Vis dentelées hexagonales à embase



Inch

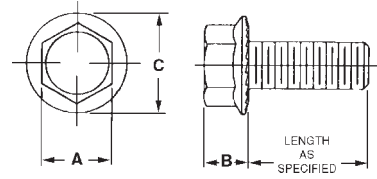
Pouce

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.	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	5/16"-18 UNC	328-042	1/2"	.491"	.274"	.686"	100
	328-049	3/8"				100		328-031	3/4"				100
	328-001	1/2"				100		328-F12-1Y	5/8"				100
	328-041	5/8"				100		328-F03-1T	3/4"				100
	328-002	3/4"				100		328-034	7/8"				100
	328-003	1"				100		328-F13-1C	1"				100
8-32 UNC	328-050	5/16"	.241"	.161"	.341"	100	3/8"-16 UNC	328-F15-1T	1-1/4"	.552"	.307"	.771"	100
	328-004	1/2"				100		328-035	1-1/2"				100
	328-025	5/8"				100		328-F05-1W	3/4"				50
	328-005	3/4"				100		328-F04-1K	1"				50
	328-006	1"				100		328-F06-1M	1-1/4"				50
10-24 UNC	328-F14-1N	1/2"	.305"	.185"	.425"	100	7/16"-14 UNC	328-038	1-1/4"	.612"	.365"	.856"	50
	328-008	3/4"				100							
	328-027	1-1/4"				100							
10-32 UNF	328-F07-1X	1/2"	.305"	.185"	.425"	100	1/2"-13 UNC	328-045	3/4"	.736"	.470	1.027"	25
	328-011	3/4"				100		328-039	1"				25
	328-012	1"				100		328-046	1-1/4"				25
	328-028	1-1/4"				100		328-040	1-1/2"				25
1/4"-20 UNC	328-013	1/2"	.367"	.216"	.513"	100	1/4"-20 UNC						
	328-029	5/8"				100							
	328-F02-1N	3/4"				100							
	328-030	7/8"				100							
	328-F01-1C	1"				100							
	328-F09-1P	1-1/2"				100							
	328-F11-1P	1-1/4"				100							
	328-F10-1A	2"				100							



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.

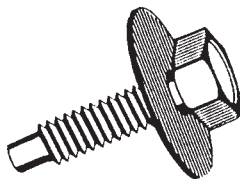
See page C23 for
FLANGE WHIZ-LOCK NUTS

SPAENAUR CATALOG 14.09

B120

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

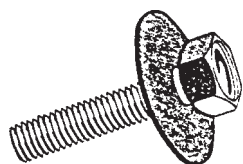
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Hex Head
Dog Point

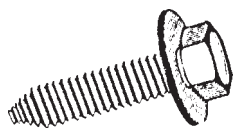
STEEL

Ford Products '79/.

SPAENAU 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



General Motors '77/'79

SPAENAU No.	Screw Size	Hex Width	Washer O.D.	Finish	PKG QTY.
▲ 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	17 mm	Zinc Plated	25
*461-005	M10 x 1.50 x 40 mm	15 mm	28.6 mm	Phosphate (Black)	25

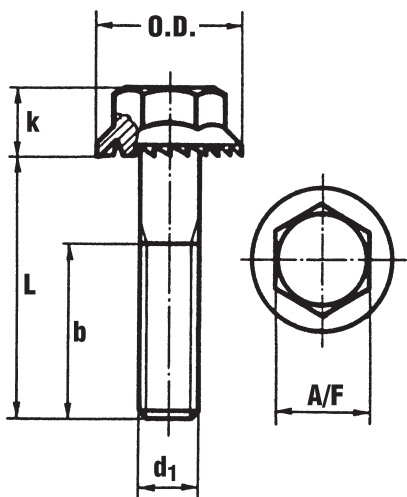
Substance & FINISH:
Usually to O.E.M. Specifications

466-001	M6.3 x 20 mm	10 mm	23.8 mm	Phosphate (Black)	25
---------	--------------	-------	---------	-------------------	----

Tensilok®

Hex Flange (serrated) Screws

Steel — Black Finish

One Piece
Construction

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 SPAENAU 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		328-232		
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						328-252
60						328-253
70						328-254

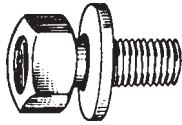
Tensile strength R_m : • for M5 - M10 dia. min. 900-1100 MPa
(approx. 130500-159500 psi)
• for M12 - M16 dia. min. 1000-1200 MPa
(approx. 145000-174000 psi)



B

STEEL

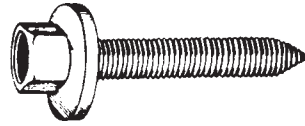
Substance and FINISH: Usually to O.E.M. Specifications



461-014

10 mm x 22 mm
(15 mm across flats)

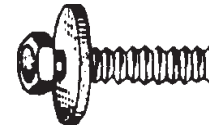
Blue
Prop. Class 9.8
Indented Hex Head Bolt with
20 mm Washer.
General Motors '77/.
PKG QTY. 50



461-016

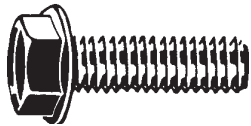
6.3 mm x 40 mm
(10 mm across flats)

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

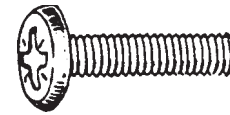
Indented
Hex-Washer Head
(13 mm across flats)

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



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)


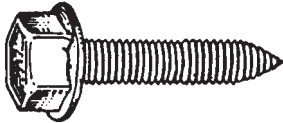
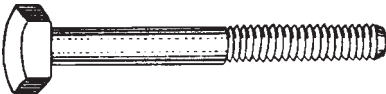





814-043

**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.





				Substance and FINISH: Usually to OEM specifications	
<p>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</p>		<p>Screw, Hex Washer Head General Motors '76/'79 392-004 Replaces 11503616 M6.3 x 25 mm 10 mm across flats PKG QTY. 50</p>		<p>392-002 (362029) M8 x 1.25 Pitch x 30 mm 13 mm across flats PKG QTY. 25</p>	
					
<p>392-006 Replaces 11500039 M6 x 45 mm 10 mm across flats Hex Head Bolt, Metric General Motors '79/. PKG QTY. 50</p>		<p>392-007 Replaces 11504023 M6 x 65 mm 10 mm across flats Hex Head Bolt, Metric General Motors '79/. PKG QTY. 50</p>		<p>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</p>	
<p>392-008 Replaces 11500001 M6 x 20 mm 10 mm across flats Hex Head Bolt, Metric General Motors '79/. PKG QTY. 50</p>				<p>392-009 Replaces 11503948 M6 x 25 mm 10 mm across flats Hex Head Bolt, Metric General Motors '79/. PKG QTY. 50</p>	
<p>392-001 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 17 mm washer hd. O.D. PKG QTY. 25</p>				<p>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</p>	
<p>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</p>					

ASSORTMENT
ASSORTIMENT **805-513A**

26 SIZES — 321 PIECES

AUTOMOTIVE SPECIAL SCREWS & NUTS WITH TINNERMAN® FASTENERS

Panel Nuts & Automotive Screws
Steel

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.)



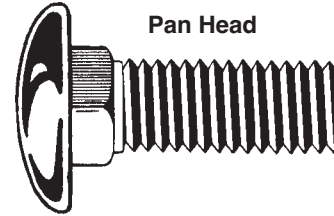
For the complete assortment contents turn to A43





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



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	3000	
593-K64-1Y					
593-K42-1N			600		
593-K43-1T			500		
593-K44-1K	#8	2"	400	1800	
593-K39-1C			500		
593-K65-1C					
593-K40-1Y			350		
593-K67-1T			2 -1/2"		1200
593-K45-1W					250
593-K46-1M	200				
593-K41-1C	#10	3"	250	1000	
593-K66-1N					
593-K47-1X			125		
593-K68-1K		3-1/2"	500		



NEW

For Paulin Deck Screws See Page B303



SPAENAU

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



SPAENAU

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 CEIL 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

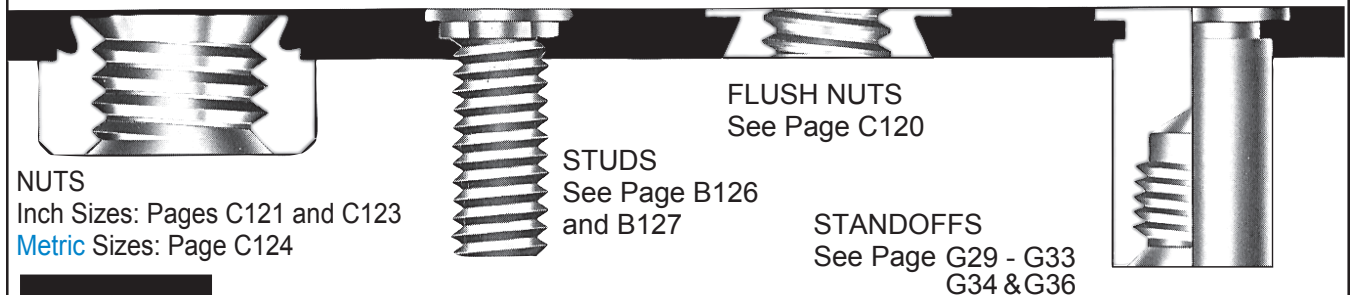
For the English version, see previous page

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

SELF-CLINCHING FASTENERS

B

Self-Clinching Fasteners
add strong threads in thin metal sections
- available in carbon steel, stainless steel, and aluminum



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.

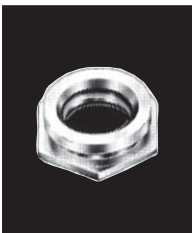
Simple, quick, low-cost installation

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.

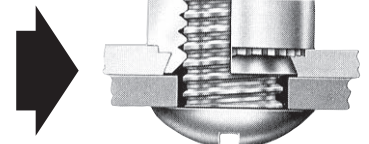


High torque-out and push-out resistance

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.

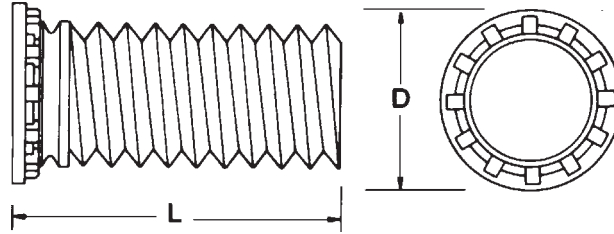


Note: The correct assembly of machine screws to Self-Clinching nuts (Page C120), is from the anvil side.



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	614-808	614-809	614-003	614-004	614-005						
				S.S.			614-810	614-811	614-812						
4-40	3/16	.111	.22	STEEL	614-006	614-007	614-008	614-009	614-010	614-011					
				S.S.	614-813	614-814	614-800	614-801	614-815	614-816					
6-32	13/64	.137	.25	STEEL	614-057	614-012	614-013	614-014	614-015	614-016	614-017	614-018	614-019		
				S.S.			614-817	614-802	614-803	614-818	614-819	614-820	614-821	614-822	614-823
8-32	15/64	.163	.28	STEEL			614-020	614-021	614-022	614-023	614-024	614-025	614-026	614-027	
				S.S.			614-822	614-804	614-805	614-823	614-824	614-825			
10-24	1/4	.189	.28	STEEL			614-028	614-029	614-030	614-031	614-032	614-033	614-034	614-C01-1T	
				S.S.			614-826	614-827	614-828	614-829	614-830	614-831	614-832	614-833	614-834
10-32	1/4	.189	.28	STEEL			614-036	614-037	614-038	614-039	614-040	614-041	614-042	614-043	
				S.S.			614-832	614-806	614-807	614-833		614-321			
1/4"-20	21/64	.249	.31	STEEL			614-044	614-045	614-046	614-047	614-048		614-050		
				S.S.			614-835	614-841	614-836	614-837	614-838	614-839			
5/16"-18	25/64	.311	.38	STEEL	THREAD Class 2A (MIL-S-7742)				614-051	614-052	614-053	614-054	614-055	614-056	
				S.S.				614-838	614-839	614-840					
				ALUM.											

STEEL

Carbon Steel, Heat Treated, Zinc or Cadmium Plated, QQ-P-416, Type 1, Class 3, Plus Clear Chromate Dip

MATERIAL AND FINISHES

STAINLESS STEEL (S.S.)
300 Series Stainless Steel
(Passivated, QQ-P-35, Type I)

ALUMINUM (ALUM.)

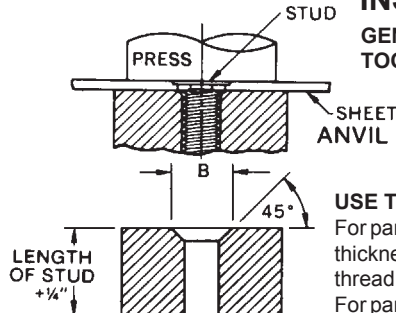
2024-T4 Aluminum

ANVIL DIMENSIONS

THREAD SIZE	ANVIL	
	B	T
2-56	.110	.087
	.114	.090
4-40	.136	.113
	.140	.116
6-32	.162	.139
	.166	.142
8-32	.188	.165
	.192	.168
10-24	.216	.191
	.220	.194
1/4-20	.295	.250
	.300	.253
5/16-18	.3125	.262
	.3155	.265

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

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.

CATALOG 14

SPAENAUR

Inch

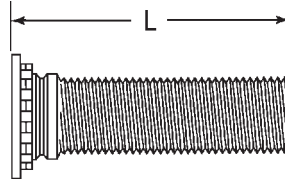
Pouce



Kwik-Thred Self-Clinching / Broaching Studs
Dispositif autobloqueur à filet Kwik / Goujons de brochage

NEW

Steel
Stainless Steel
Aluminum



THREAD
Class 2A (MIL-S-7742)
PKG QTY. 100

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			Kind of Metal	ORDER BY SPAENAUR NUMBERS LISTED BELOW													
	D. Head Dia.				(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								
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-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
 Carbon Steel, Heat Treated, Zinc Plated

STAINLESS STEEL (S.S.)
 300 Series Passivated

ALUMINUM (ALUM.)
 2024-T4 Aluminum

The above mentioned sku's are not stocked
 Minimum order quantities are required
 Contact sales desk for more information

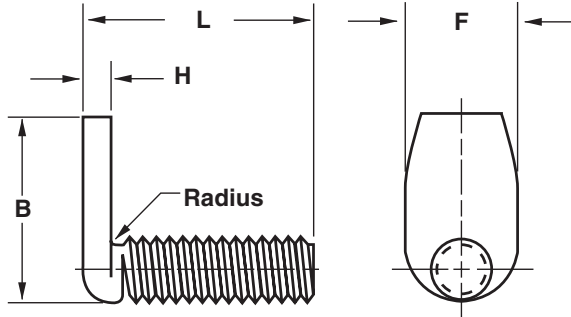
CATALOG 14.09 SPAENAUR

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

B127

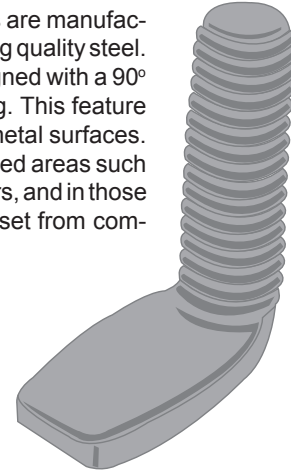
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B



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.

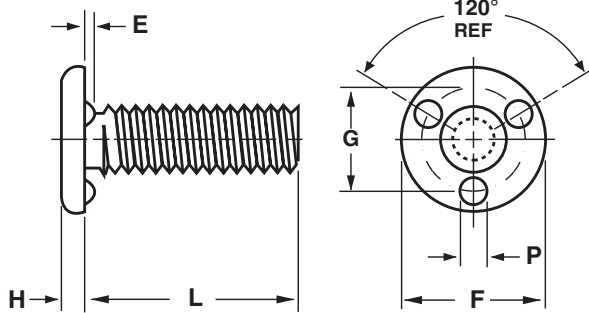
PKG QTY. 100

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.

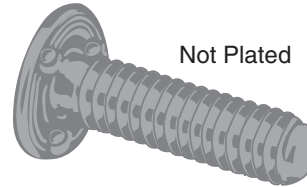
SIZE	WELD TIME IN CYCLES	WELD PRESSURE IN POUNDS	WELD CURRENT IN AMPS
#10	5 to 10	400 to 800	9,000 to 15,000
1/4"	6 to 12	500 to 900	12,000 to 18,000
5/16"	8 to 14	800 to 14,000	14,000 to 20,000
3/8"	10 to 25	1,000 to 2,000	15,000 to 24,000

For Spot Weld Pins see Page B133



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.



Not Plated

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

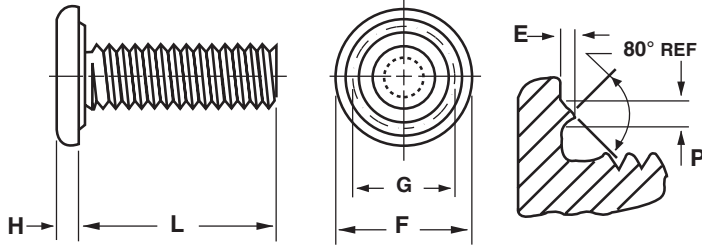
SPAENAUR No.	Nom. Size x Pitch x Length
573-300	M6 x 1 x 20 mm

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.

CATALOG 14

SPAENAUR

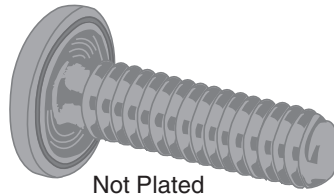
B



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



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 SPAENAU 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.

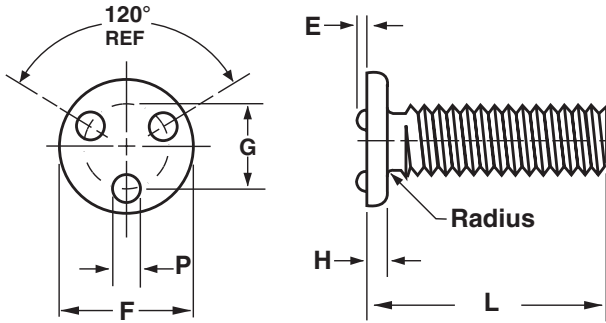
SIZE	WELD TIME IN CYCLES	WELD PRESSURE IN POUNDS	WELD CURRENT IN AMPS
#6	3 to 8	300 to 900	9,000 to 18,000
#8	4 to 9	400 to 1,000	10,000 to 19,000
#10	5 to 10	700 to 1,000	13,000 to 20,000
1/4"	5 to 14	900 to 1,500	18,000 to 24,000
5/16"	8 to 19	1,200 to 2,000	22,000 to 42,000
3/8"	10 to 24	1,500 to 2,500	28,000 to 50,000

Weld Cycle Time - Cycle = 1/60th of a second.

CATALOG 14

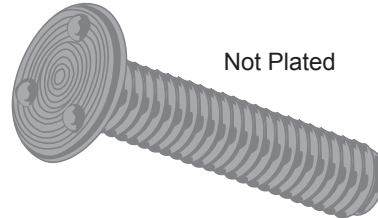
SPAENAU

Inch
Pouce



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.



Not Plated

PKG QTY. 100

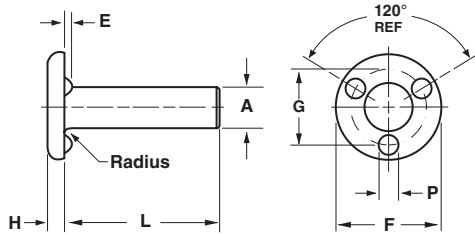
Size	#6	#8	#10	1/4"	5/16"	3/8"				
Head Diameter (F)	.250"	.312"	.375"	.500"	.625"	.750"				
Head Thickness (H)	.031"	.047"	.062"	.078"	.094"	.109"				
Projection Height (E)	.020"	.024"	.024"	.038"	.043"	.048"				
Projection Width (P)	.058"	.060"	.082"	.104"	.119"	.133"				
Locating Circle (G)	.152"	.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

CATALOG 14

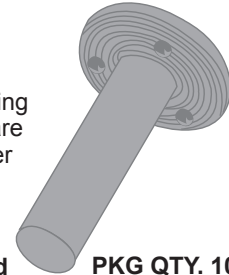
SPAENAUR

B



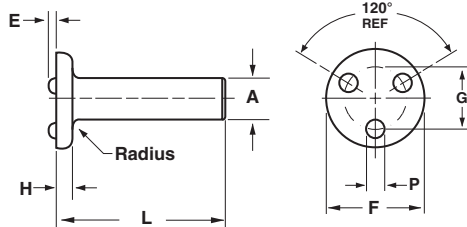
**PROJECTION WELD PINS
 "MP" SERIES**

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.



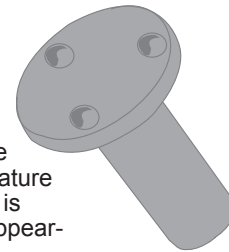
Not Plated PKG QTY. 100

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			



**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 projection welds 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.

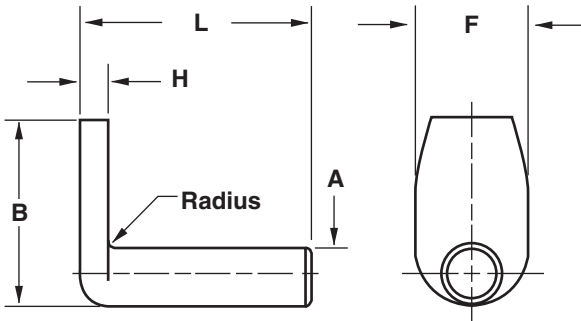


Can be manufactured to meet specific requirements in production run. Prices are available upon request.

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			

CATALOG 14
 SPAENAUR



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.



B

PKG QTY. 100

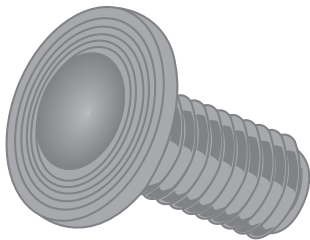
Not
Plated

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.

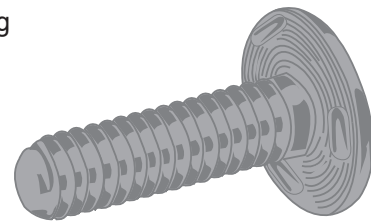
Contact Sales Desk For Package Quantities

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



B

C1020

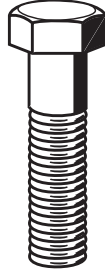
LOW CARBON
STEEL



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

**SAE
GRADE
2
ZINC PLATED**

The standard grade for all general
applications where extreme strength
is not required.

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 SPAENAUER 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

ASME B18.2.1

DIA.	5/8"	3/4"
THD.	11	10
LG. ▼	ORDER BY SPAENAUER NUMBERS LISTED BELOW	
1	325-174	
1-1/4	325-175	
2	325-190	325-170
2-1/2	325-150	
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
ASSORTMENT 805-001B

**HEX CAP SCREWS, NUTS,
SPLIT LOCK & FLAT WASHERS**

**2950 PIECES
40 SIZES**

ASME B18.21.1 ASME/ANSI B18.2.1 ASME/ANSI B18.2.2

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!

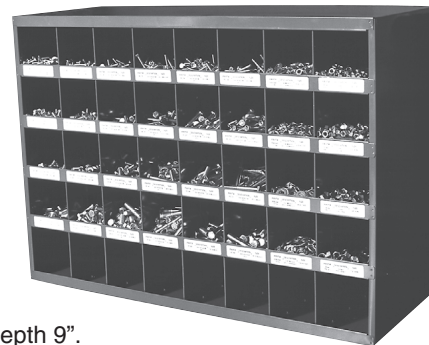
The grey baked enamel Durham bin is extremely sturdy. Produced from prime cold rolled steel - interlocked and welded construction, it will not warp, twist or sag. Each shelf has a fully hemmed 1-1/8" turn on the front providing space for labelling contents. It has 40 compartments for assortment contents. 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 SPAENAUER Number and we'll send you the unit package quantities to refill your bin.

SPAENAUER 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

Inch

Pouce



Hex Head Cap Screws

Vis à tête hexagonale

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

**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

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

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

CATALOG 14

SPAENAUR

SPAENAUR
Fasteners Right Now®

For Hex Nut & Nylon Insert Locknut
Assortment see Page A60

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B135



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 SPAENAUER NUMBERS LISTED BELOW				
1 1-1/4	B-3			B-22 B-23	B-28
1-1/2 1-3/4 2		B-10		B-25 B-26	B-30 B-31 B-32
2-1/4 2-1/2 3		B-12	B-20	B-27 S-18	S-46
3-1/4 3-1/2 4		S-15		S-19 S-42	S-47 S-21 S-22
4-1/2 5	CS-1				CS-12

Contact Sales Desk For Package Quantities

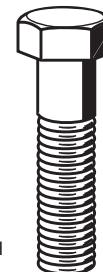
C1020
LOW CARBON
STEEL



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 SPAENAUER NUMBERS LISTED BELOW			
2 2-1/4	B-37 S-28	B-39		
3 3-1/2 4	S-29 S-31 CS-4	S-33 325-A22-1M	CS-7	
4-1/2 10 11		S-34 S-72 S-74		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.

Inch

Pouce



Hex Head Cap Screws

Vis à tête hexagonale

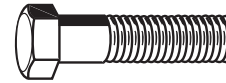
C1020 LOW CARBON
HEAT TREATED STRESS RELIEVED

STEEL

Material Spec. ASTM A 307

**SAE
GRADE 2**

HOT GALVANIZED



ASME B18.2.1

MINIMUM TENSILE STRENGTH (PSI)

The standard grade for all general applications where extreme strength is not required.

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

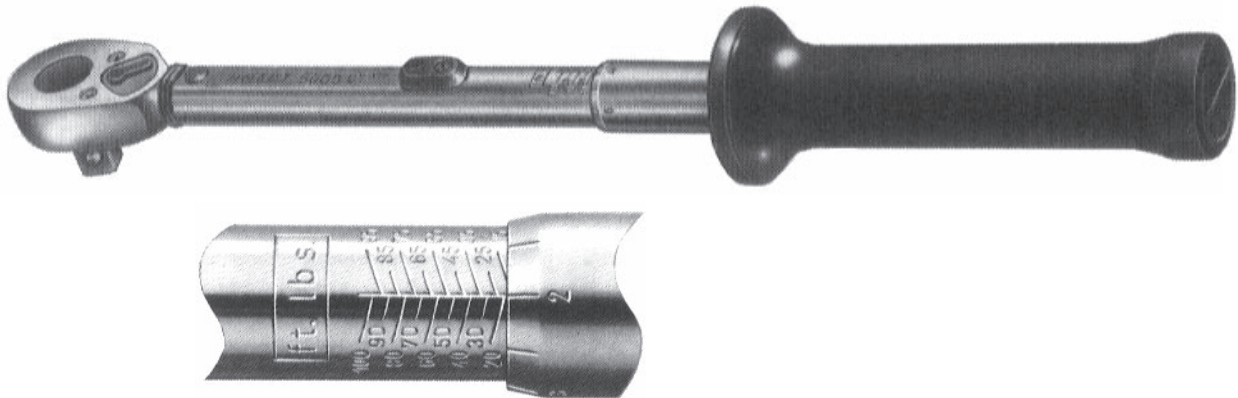
CLASS 2A FIT

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



CATALOG 14.11

SPAENAUR

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B137

Hex Head Cap Screws

Vis à tête hexagonale



Inch

Pouce

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

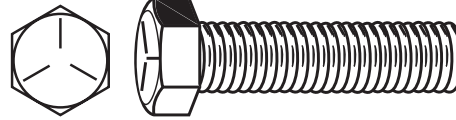
Note the SAE Grade 5 marking on head.
(3 radial lines 120° apart)

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		326-351	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.

CATALOG 14.04
2019/08/08

SPAENAUR

B138

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Inch

Pouce



Hex Head Cap Screws

Vis à tête hexagonale

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

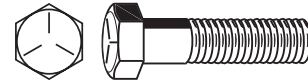
QUENCHED AND TEMPERED

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

CATALOG 14 SPAENAUR

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B139

Hex Head Cap Screws

Vis à tête hexagonale



Inch

Pouce

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

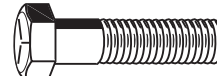
MINIMUM TENSILE STRENGTH (PSI)

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 SPAENAUER 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

CATALOG 14

SPAENAUER

B140

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Inch

Pouce



Hex Head Cap Screws

Vis à tête hexagonale

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

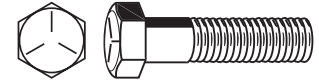
QUENCHED AND TEMPERED

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

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				326-006		
1	326-395				326-005	326-398	
1-1/4	326-383		326-399				
1-1/2		326-396		●HC-59B	326-384	*326-390	
1-3/4				HC-61B			326-400
2		326-397					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					326-473	HC-108B	326-403
3-3/4						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

CATALOG 14 SPAENAUR

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B141



ASSORTMENT
ASSORTIMENT **805-001B**

HEX CAP SCREWS, NUTS, SPLIT LOCK & FLAT WASHERS

2950 PIECES
41 SIZES

ASME B18.21.1 ASME/ANSI B18.2.1 ASME/ANSI B18.2.2

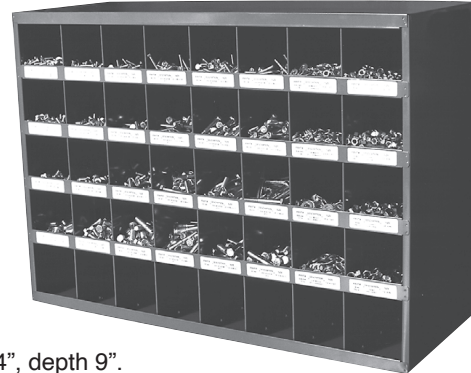
The perfect choice for easily accessible storage in parts departments, tool crib areas, maintenance and repair shops, garages, and for the handyman.

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	B139 L93	
		HC-14	1-1/2"					
		HC-15	1-3/4"				50	B139
		HC-16	2"					
	HC-18	2-1/2"	B138					
	HC-25	3/4"						
	5/16"-18	HC-27	1"			B139		
		HC-29	1-1/2"					
		HC-31	2"					
		HC-33	2-1/2"					
		HC-35	3"					
		3/8"-16	HC-41				3/4"	50
	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"			25	B138	
		HC-59	1-1/2"					
		HC-61	2"				B139	
		HC-63	2-1/2"					
		HC-65	3"					
HC-66		3-1/2"						
Name	Thread Size	Spaenaur No.				Qty.	Page	
Nut Steel Hex Finished Full SAE Grade 5 ASME/ANSI B18.2.2	5/16"-18	B-92				100	C3	
	3/8"-16	B-93						
	1/4"-20	B-91						
	7/16"-14	155-P39-1A						
Locknut Cap Screw Sizes Regular Hex Standard Height	1/4"-20	178-C03-1N					C26	
	5/16"-18	178-C26-1C					L93	
	3/8"-16	178-C05-2P					C26	
	7/16"-14	HN-181						

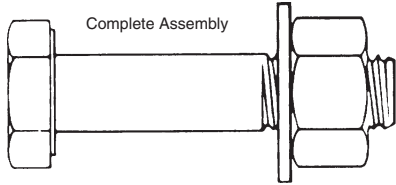
Inch

Pouce



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.

1/2" Diameter UNC			3/4" Diameter UNC			7/8" Diameter UNC			1" Diameter UNC		
Length Under Head Inches	A-325 TYPE-1 Plain	PKG QTY.	Length Under Head Inches	A-325 TYPE-1 Plain	PKG QTY.	Length Under Head Inches	A-325 TYPE-1 Plain	PKG QTY.	Length Under Head Inches	A-325 TYPE-1 Plain	PKG QTY.
1-1/4	333-001	25	1-1/2	333-024	10	1-3/4	333-046	10	2-1/4	333-068	1
1-1/2	333-002	25	1-3/4	333-025	10	2	333-047	10	2-1/2	333-069	1
1-3/4	333-003	25	2	333-026	10	2-1/4	333-048	10	2-3/4	333-070	1
2	333-004	25	2-1/4	333-027	10	2-1/2	333-049	10	3	333-071	1
2-1/4	333-005	25	2-1/2	333-028	10	2-3/4	333-050	10	3-1/4	333-072	1
2-1/2	333-006	25	2-3/4	333-029	10	3	333-051	10	3-1/2	333-073	1
2-3/4	333-007	25	3	333-030	10	3-1/4	333-052	10	3-3/4	333-074	1
3	333-008	25	3-1/4	333-031	10	3-1/2	333-053	10	4	333-075	1
3-1/4	333-009	25	3-1/2	333-032	10	3-3/4	333-054	10	4-1/4	333-076	1
3-1/2	333-010	25	3-3/4	333-033	10	4	333-055	10	4-1/2	333-077	1
5/8" Diameter UNC			4	333-034	10	4-1/4	333-056	10	4-3/4	333-078	1
			4-1/4	333-035	10	4-1/2	333-057	10	5	333-079	1
1-1/4	333-011	10	4-1/2	333-036	10	4-3/4	333-058	10	5-1/4	333-080	1
1-1/2	333-012	10	4-3/4	333-037	10	5	333-059	10	5-1/2	333-081	1
1-3/4	333-013	10	5	333-038	10	5-1/2	333-061	10	5-3/4	333-082	1
2	333-014	10	5-1/2	333-040	10	6	333-063	10	6	333-083	1
2-1/4	333-015	10	6	333-042	10	6-1/2	333-065	1	6-1/2	333-085	1
2-1/2	333-016	10	6-1/2	333-043	1	7	333-066	1	7	333-086	1
2-3/4	333-017	10	7	333-044	1				8	333-087	1
3	333-018	10	8	333-045	1						
3-1/4	333-019	10	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								
3-1/2	333-020	10									
3-3/4	333-021	10									
4	333-022	10									
4-1/2	333-023	10									
			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								

B

CATALOG 14

SPAENAUR

For L9 Fasteners See Pages B147-B150

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B143

Hex Head Cap Screws

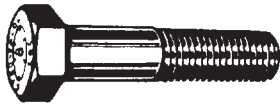
Vis à tête hexagonale



Inch

Pouce

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 SPAENAUER 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

CATALOG 14
SPAENAUER

B144

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Inch
Pouce



Hex Head Cap Screws Assortments

Vis à tête hexagonale assortiments

ASSORTMENT **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 **805-657B**

HEX CAP SCREWS, NUTS, SPLIT LOCK & FLAT WASHERS

SAE GRADE 5 STEEL - For Extra Strength
Bright Zinc Chromate Plated

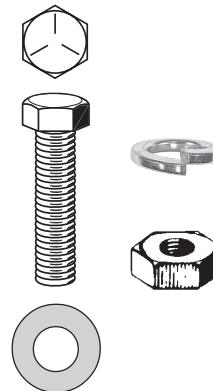
COARSE THREAD (UNC)

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: **15.9 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 **805-660**

COARSE (UNC) THREAD

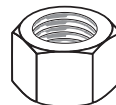
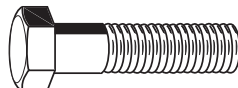
Shipping Weight: **20.86 kg** (46 lbs.)

ASSORTMENT **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
enamelled 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

CATALOG 14.09

SPAENAUR

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B145

Hex Head Cap Screws

Vis à tête hexagonale



Inch

Pouce

B

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 SPAENAUER 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

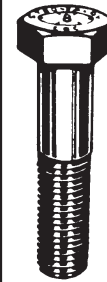
DIA.	5/8	3/4	7/8	1
THD.	18	16	14	14
LG▼				
1	SA-154			
1-1/4	327-D13-1N			
1-1/2	■ SA-158	SA-184		
1-3/4	SA-160	SA-186		
2	SA-162	SA-188	SA-212	SA-238
2-1/4	SA-164	SA-190	SA-214	
2-1/2	SA-166	SA-192	SA-216	SA-240
2-3/4	SA-168	SA-194	SA-218	
3	SA-170	SA-196	SA-220	SA-242
3-1/4		SA-198	SA-222	
3-1/2	SA-172	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

SPAENAUER CATALOG 14

B146

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Inch

Pouce



L•9® Hexagon Bolts

Vis à tête hexagonale L•9^{MD}

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		HEAD HEIGHT	
	MAX	MIN	MAX	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

CATALOG 14

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B147

L•9® Hexagon Bolts

Vis à tête hexagonale L•9^{MD}



Inch

Pouce

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 SPAENAU ^R 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.

SPAENAU^R CATALOG 14

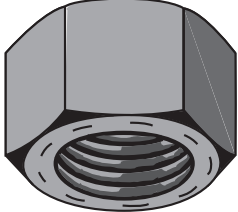
B148

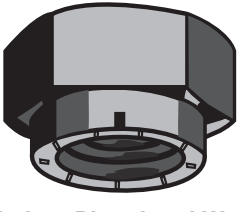
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Recommended for use with L⁹® Hex Bolts

STEEL Alloy L⁹ HEX NUT	NOMINAL SIZE	COARSE THREAD (U.N.C.)		FINE THREAD (U.N.F.)		WIDTH ACROSS FLAT MAX./MIN.	THICKNESS MAX./MIN.	PKG QTY.
		SPAENAUR No.	THD.	SPAENAUR No.	THD.			
 Cadmium Plated and Waxed Yellow Dichromate Finish Rockwell Hardness 1/4"-5/8" Dia. C28-34 3/4"-1 " Dia. C32-38	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 L⁹ STOVER® LOCKNUT	NOMINAL SIZE	COARSE THREAD (U.N.C.)		FINE THREAD (U.N.F.)		WIDTH ACROSS FLAT MAX./MIN.	THICKNESS MAX./MIN.	PKG QTY.
		SPAENAUR No.	THD.	SPAENAUR No.	THD.			
 Cadmium Plated and Waxed Yellow Dichromate Finish Rockwell Hardness 1/4"-5/8" Dia. C28-34 3/4"-1 " Dia. C32-38	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-R02-1N	16	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 L⁹ WASHERS Quenched and Tempered	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	.266/.234	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	



L⁹® Fastening System

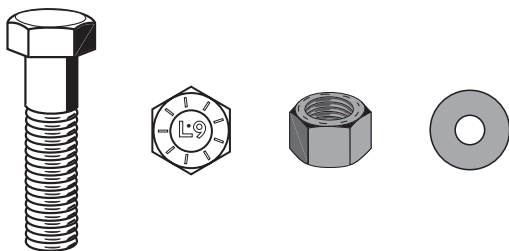
Zinc Plated
Yellow Dichromate Finish

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 805-648

Coarse (UNC) Thread

ASSORTMENT 805-649

Fine (UNF) 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	3/8"-16	2"	25	
	329-024		1"		
	329-026		1-1/2"		
	329-028		2"		
	329-030	1/2"-13	2-1/2"	15	
	329-050		1"		
	329-052		1-1/2"		
329-054	2"				
329-056	2-1/2"	15			
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

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	3/8"-24	2"	25	
	329-188		1"		
	329-190		1-1/2"		
	329-192		2"		
	329-194	1/2"-20	2-1/2"	15	
	329-207		1"		
	329-209		1-1/2"		
329-211	2"				
329-213	2-1/2"	15			
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

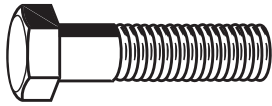
Inch

Pouce



Hex Head Cap Screws

Vis à tête hexagonale



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	346-071			
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									346-067
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

CATALOG 14.11 SPAENAUR

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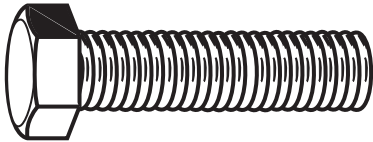
Hex Head Cap Screws

Vis à tête hexagonale

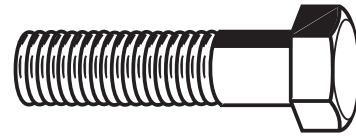


Inch

Pouce



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-A06-1N	349-A07-1T 349-A10-1K 349-A01-1X	349-008 349-A09-1W 349-009	349-A02-1A 349-A03-1P 349-022	349-A08-1K	349-016
1						
1-1/4 1-1/2						
1-3/4	349-010 349-012	349-A11-1W 349-020	CS-3002 CS-3000 349-011	349-026 349-017 ◆349-024	349-A05-1C	
2						
2-1/2	◆349-013		349-A12-1M			
3						
4					349-029	
4-1/2						
	PKG QTY. 50			PKG QTY. 5		◆Partially Threaded

BRASS HEXAGON Cap Screws

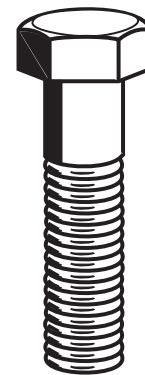
INCH
SIZES

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	334-033 334-034	334-040			
5/8						
3/4	334-A05-1Y 334-A09-1K	334-035 334-A07-1N	334-041 334-042	334-007	334-A04-1P 334-A03-1A	
1						
1-1/4	334-021 334-A02-1X	334-036 334-024	334-A01-1M 334-025		334-A06-1C 334-026	334-011 (Non-Stock)
1-1/2						
1-3/4	334-030	334-037	334-004		334-009	334-012
2						
2-1/4	334-019 334-A11-1K	334-038	334-005 334-A10-1T		334-A08-1T 334-049	
2-1/2						
3	334-001	334-039	334-045 334-015		334-010	
3-1/2						
	PKG QTY. 100	PKG QTY. 50			PKG QTY. 25	



CATALOG 14

SPAENAUR

B152

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Inch

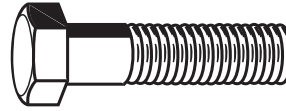
Pouce



Hex Head Cap Screws

Vis à tête hexagonale

SILICON BRONZE



FOR SILICON BRONZE HEX NUTS,
SEE PAGE C6.

FOR SILICON BRONZE FLAT
WASHERS, SEE PAGE D9.

FOR SILICON BRONZE LOCK-
WASHERS, SEE PAGE D23.

Head & Body Dimensions
to ANSI/ASME B 18.2.1

Coarse and Fine Thread
Fully Threaded Unless Otherwise Noted

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

▲ Partially 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

▲ Partially Threaded

Contact Sales Desk For Package Quantities

CATALOG 14.09

SPAENAUR

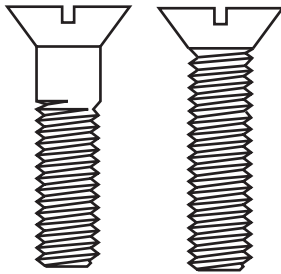
P: 1-800-265-8772 F: 1-888-252-6380 service@spaenaur.com

B153



STEEL FLAT HEAD CAP SCREWS

Slotted



Coarse Thread (UNC)
LOW CARBON STEEL
BRIGHT ZINC PLATED

Orders will be supplied Full or Partial Thread at our option.

(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

B

ASSORTMENT **805-549**
ASSORTIMENT

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 **805-608**
ASSORTIMENT

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.)



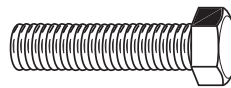
For the complete assortment contents turn to A48

ASSORTMENT **805-494**
ASSORTIMENT

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

CATALOG 14

SPAENAUR

Inch

Pouce

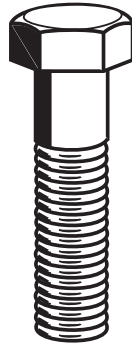


Hex Head Cap Screws

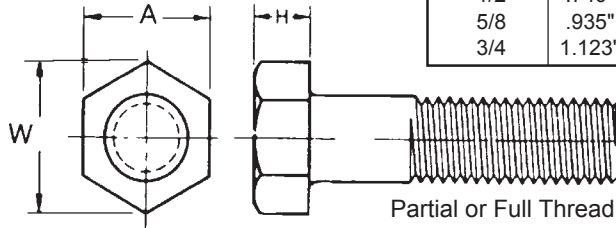
Vis à tête hexagonale

NYLON HEXAGON Cap Screws

Stocked in
Nylon Zytel 101 UL 94V2



Inch Sizes



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"

Partial or Full Thread at our option.

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	*352-037 5/16-24 UNF x 1/2"
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-A07-1T	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				

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.

CATALOG 14.05
2019/12/18

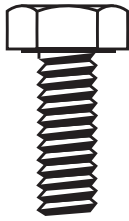
SPAENAUR

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

B155



B



DIN 933

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

Fully Threaded

Property Class 8.8 – Plain Finish

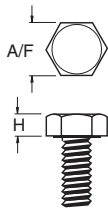
Regular COARSE Metric Thread

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

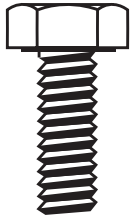
DIMENSIONS IN MILLIMETRES

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

CATALOG 14
SPAENAUR



...Continued from previous page.



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.)

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	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									330-487 M42 x 4.50 x 100 mm
20	330-160									
25	330-161		330-426							
30	330-162	330-419	330-427							
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**

DIN 933

METRIC
**HEXAGON CAP SCREWS,
NUTS AND WASHERS**
Property Class 8.8, Zinc Plated
REGULAR COARSE METRIC THREAD

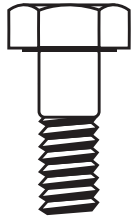
32 SIZES - 1840 PIECES

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



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.)

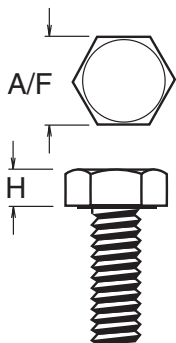
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

B

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

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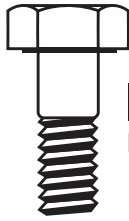
Contact Sales Desk For Package Quantities



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

**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.)

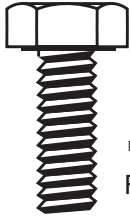
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DIA. in mm	M16	M18	M20	M22	M24	M27	M30	M33	M36	Larger Diameters
Pitch	2.00	2.50	2.50	2.50	3.00	3.00	3.50	3.50	4.00	
Lgth. mm	ORDER BY SPAENAUER NUMBERS LISTED BELOW									
55	330-658									
60	330-659									
65	330-169	330-344	330-H29-1P							
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



**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 SPAENAUER 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 SPAENAUER 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

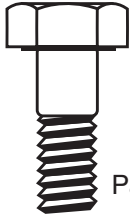
(Comparable to SAE Grade 2)

PKG QTY. 100

DIA. in mm	M3.5
Pitch	0.60
Lgth. mm	ORDER BY SPAENAUER NUMBERS LISTED BELOW
12	330-790ZP

CATALOG 14

SPAENAUER



DIN 931

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

Property Class 8.8 – Zinc Plated Regular COARSE Metric Thread

to ISO 965-1

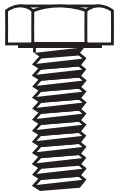
Carbon Steel, Quenched & Tempered

Partially Threaded 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	330-025ZP							
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



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.)

B

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 SPAENAUER 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

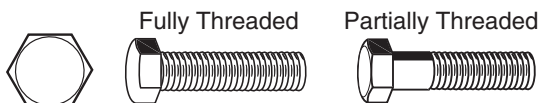
DIN 931 / DIN 933

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

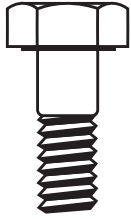
Shipping Weight: **5.49 kg** (12.1 lbs.)



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			
	M6 x 1.00	330-046ZP	16mm			40
		330-050ZP	25mm			35
		330-053ZP	35mm			20
		330-055ZP	45mm			25
		330-H09-1T	25mm			20
	M8 x 1.25	330-075ZP	35mm			20
		330-081ZP	50mm			15
		330-081ZP	50mm			12
M10 x 1.50	330-H33-1C	20mm	10			
	330-098ZP	30mm	8			
	330-099ZP	35mm	10			
	330-102ZP	50mm	6			
M12 x 1.75	330-122ZP	30mm	10			
	330-128ZP	60mm	10			
Partially Threaded	M4 x 0.70	330-025ZP	25mm	40	B161	
		330-026ZP	30mm			
	330-027ZP	35mm				
	M8 x 1.25	330-083ZP	60mm			

B162

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



Property Class 8.8 – Yellow Zinc Plated

DIN 931

Regular **COARSE Metric** Thread

to ISO 965-1

Partially Threaded

Carbon Steel, Quenched & Tempered

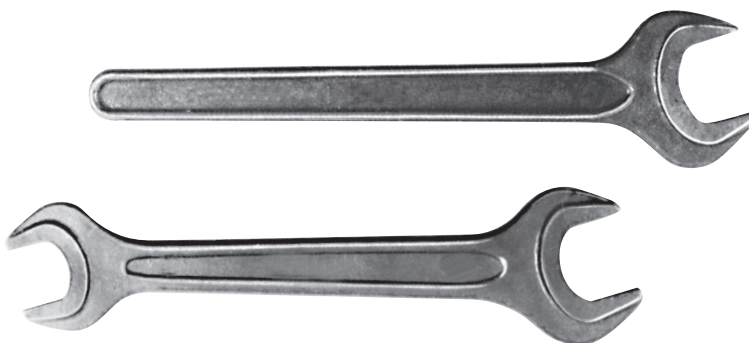
Dia. **M3 - M16** Tensile Strength **800 N/mm²** min. (Approx. 116,000 PSI - For Reference Only.)

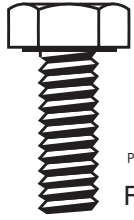
Above **M16** Tensile Strength **830 N/mm²** min. (Approx. 120,000 PSI - For Reference Only.)

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



**DIN 961**

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

Fully Threaded

Property Class 8.8 – Plain Finish

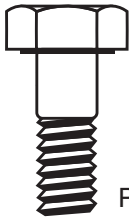
Metric FINE Thread

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

**DIN 960**

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

Partially Threaded

Property Class 8.8 – Plain Finish

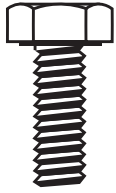
Metric FINE Thread

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



DIN 961

Fully 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	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 805-537A

DIN 960 / DIN 961

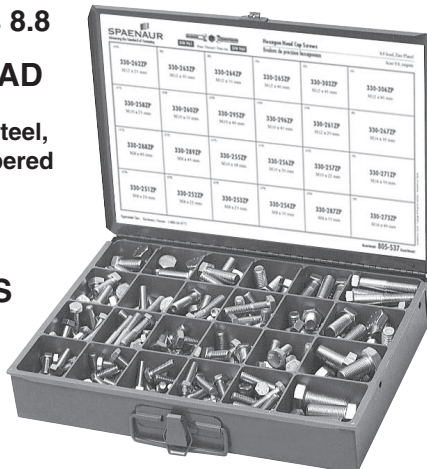
HEXAGON HEAD CAP SCREWS

Metric
Property Class 8.8

FINE THREAD

Medium Carbon Steel,
Quenched & Tempered
Zinc Plated

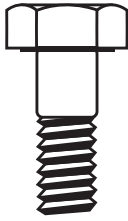
24 SIZES
294 PIECES



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		
		330-303ZP	60mm	6	
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		
		330-261ZP	20mm		
	330-262ZP	25mm			
	330-263ZP	30mm			
	330-264ZP	35mm			
	M12 x 1.25	330-265ZP	40mm	6	
		330-267ZP	30mm	8	
		330-271ZP	40mm	6	
	M14 x 1.50	330-273ZP	40mm	6	

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.)

CATALOG 14
SPAENAUR

**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.)

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	



SPAENAUR
Fasteners Right Now®

For Metric Flat Washers see Page D12



Property Class 10.9 – Plain Finish

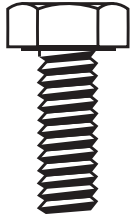
Regular COARSE Metric Thread

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



DIN 933

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

Fully Threaded

B

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
ASSORTIMENT **805-472**

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)

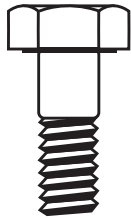
24 SIZES – 550 PIECES

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



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.)

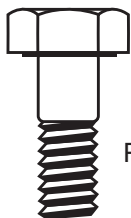
Medium Carbon Steel, Quenched & Tempered

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	Additional sizes available of DIN 931					332-262	332-268	332-280	332-289	
260							332-318	332-281		
280	332-296 M36 x 4.00 x 110 mm						332-319			
300	332-297 M36 x 4.00 x 200 mm						332-315	332-B10-1Y		
320	332-298 M42 x 4.50 x 160 mm									332-293

Contact Sales Desk For Package Quantities



DIN 931

Partially Threaded

Property Class 10.9 – Zinc Plated
Regular COARSE Metric Thread

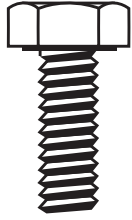
to DIN 13 (ISO Metric Spec.)

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			



DIN 933

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

Fully 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

B

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

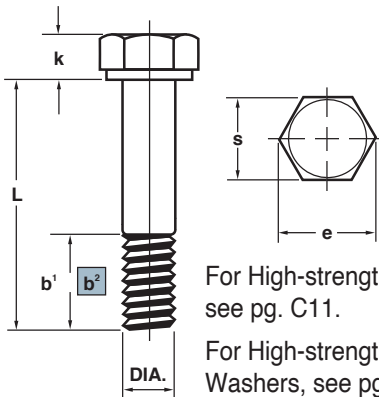
with large width across flats for structural steel bolting

Property Class **10.9**

Plain Finish

Regular COARSE Metric Thread

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

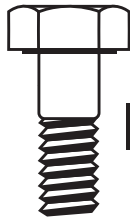


For High-strength Nuts, see pg. C11.

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

**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 SPAENAUER 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

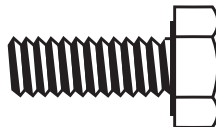
Metric FINE Thread

Medium Carbon Steel, Quenched & Tempered

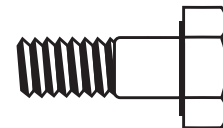
Rockwell Hardness Min. C32 Max. C39

DIN 961

Fully Threaded

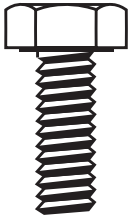
**DIN 960**

Partially Threaded



SPAENAUER 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

SPAENAUER 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



DIN 933

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

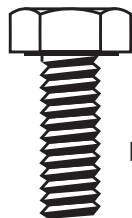
Fully Threaded

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

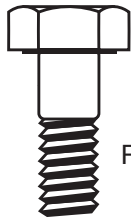
A4 Stainless Steel

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

**DIN 931**

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

Partially Threaded

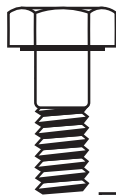
A2 Stainless Steel

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

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

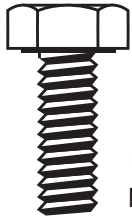
ASSORTMENT
ASSORTIMENT **805-434**

DIN 933

Metric HEXAGON
HEAD CAP SCREWS

A2 STAINLESS STEEL
Regular COARSE Metric Thread
24 SIZES — 180 PIECES

Furnished in Regular Size grey enameled steel drawer.
Shipping Wt: **4.31 kg** (9-1/2 lbs.)

**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.)

B

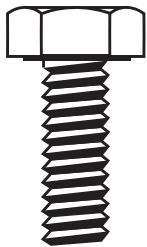
DIA. in mm	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20
Pitch	0.50	0.70	0.80	1.00	1.25	1.50	1.75	2.00	2.00	2.50
Lgth. mm	ORDER BY SPAENAUR NUMBERS LISTED BELOW									
5	335-085									
6	335-086	335-094								
8	335-087	335-095	335-105							
10	335-088	335-096	335-001	335-009	335-044					
12	335-089	335-097	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.)



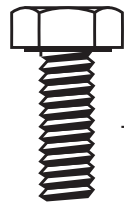
Fully Threaded

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

DIN 933

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

Contact Sales Desk For Package Quantities



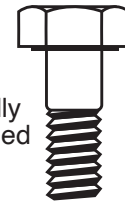
Fully Threaded

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

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



Steel Alloy, Plain Black Thermal Oxide Full & Partial Thread

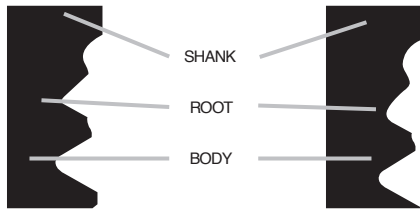
PROFILE OF EXTRA STRENGTH

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 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 - 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-W63-1N	119937	M6	1x25	50
366-W64-1T	103516	M6	1x30	50

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-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

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

COUNTERSUNK UNC - FULL THREAD

SPAENAUR No.	MFG No.	THREAD SIZE	LENGTH	PKG QTY.
363-A34-1N	106645	8-32	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

COUNTERSUNK UNF - FULL THREAD

SPAENAUR No.	MFG No.	THREAD SIZE	LENGTH	PKG QTY.
363-A37-1W	102058	10-32	1/2	100
363-A43-1P	111889	10-32	1/2	100
363-A67-1P	104322	1/4-28	3/4	100

BUTTON HEAD UNF - FULL THREAD

SPAENAUR No.	MFG No.	THREAD SIZE	LENGTH	PKG QTY.
363-A39-1X	102042	10-32	3/8	100



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.



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.

DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.		
#2 - 56	3/16"	HK358-001	100	#8 - 32	1/4"	HK358-029	100	5/16"-18	5/8"	HK358-068	100		
	1/4"	HK358-002	100		5/16"	HK358-641	100		1/4" Key	3/4"	HK358-069	100	
	3/8"	HK358-003	100		3/8"	HK358-030	100			7/8"	HK358-070	100	
	5/64" Key	1/2"	HK358-004		100	1/2"	HK358-031			100	1-3/4"	HK358-074	100
#3 - 48		3/16"	HK358-005		100	5/8"	HK358-032			100	2"	HK358-075	100
		1/4"	HK358-006		100	3/4"	HK358-033			100	2-1/4"	HK358-076	100
		3/8"	HK358-007		100	7/8"	HK358-034			100	2-1/2"	HK358-077	100
	5/64" Key	1/2"	HK358-008		100	1"	HK358-035			100	2-3/4"	HK358-078	100
#4 - 40		3/16"	HK358-632		100	1-1/4"	HK358-036			100	3"	HK358-079	100
		1/4"	HK358-009		100	1-1/2"	HK358-037			100	3-1/4"	HK358-080	50
		5/16"	HK358-633		100	1-3/4"	HK358-642			100	3-1/2"	HK358-081	50
	3/32" Key	3/8"	HK358-010		100	2"	HK358-643			100	3-3/4"	HK358-652	50
1/2"		HK358-011	100	2-1/2"	HK358-644	100	4"	HK358-082		50			
5/8"		HK358-012	100	#10 - 24	1/4"	HK358-645	100	3/8"- 16	5/8"	HK358-084	100		
3/4"		HK358-013	100		1/2"	HK358-039	100		5/16" Key	3/4"	HK358-085	100	
7/8"		HK358-634	100		5/8"	HK358-040	100			7/8"	HK358-086	100	
1"		HK358-014	100		3/4"	HK358-041	100			1-1/4"	HK358-088	100	
#5 - 40		1-1/4"	HK358-635		100	7/8"	HK358-042			100	1-1/2"	HK358-089	100
		1/4"	HK358-015		100	1"	HK358-043			100	1-3/4"	HK358-090	50
	5/16"	HK358-636	100		1-1/4"	HK358-044	100			2"	HK358-091	50	
	3/8"	HK358-016	100		1-1/2"	HK358-045	100			2-1/4"	HK358-092	50	
3/32" Key	1/2"	HK358-017	100	1-3/4"	HK358-046	100	2-3/4"	HK358-094		50			
	3/4"	HK358-019	100	2-1/4"	HK358-048	100	3"	HK358-095	50				
	#6 - 32	5/16"	HK358-638	100	2-1/2"	HK358-049	100	3-1/4"	HK358-096	50			
		3/8"	HK358-021	100	2-3/4"	HK358-646	100	4"	HK358-098	50			
1/2"		HK358-022	100	3"	HK358-647	100	4-1/2"	HK358-099	50				
5/8"		HK358-023	100	1/4"- 20	1/4"	HK358-648	100	3/8"- 16	5"	HK358-100	50		
3/4"	HK358-024	100	3/8"		HK358-050	100	5-1/2"		HK358-654	50			
7/8"	HK358-025	100	1/2"		HK358-051	100	6"		HK358-101	50			
1"	HK358-026	100	5/8"		HK358-052	100	Continues on Next Page						
1-1/4"	HK358-027	100	3/4"		HK358-053	100							
1-1/2"	HK358-028	100	1"		HK358-055	100							
1-3/4"	HK358-639	100	1-1/4"		HK358-056	100							
2"	HK358-640	100	1-1/2"		HK358-057	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								

Inch

Pouce



Socket Head Cap Screws

Vis à tête à six pans creux

Continued from Previous Page											
HOLO-KROME, UNRC COARSE THREAD, 1960 SERIES ASME B18.3											
DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.
7/16" - 14 3/8" Key	3/4"	HK358-104	100	5/8" - 11 1/2" Key	1"	HK358-141	25	1" - 8 3/4" Key	1-3/4"	HK358-662	10
	7/8"	HK358-105	100		1-1/4"	HK358-142	25		2"	HK358-193	10
	1"	HK358-106	100		1-3/4"	HK358-144	25		2-1/4"	HK358-194	10
	1-1/4"	HK358-107	50		2-1/4"	HK358-146	25		2-1/2"	HK358-195	10
	1-3/4"	HK358-109	50		2-1/2"	HK358-147	25		2-3/4"	HK358-196	10
	2"	HK358-110	50		2-3/4"	HK358-148	25		3"	HK358-197	10
	2-1/4"	HK358-111	50		3"	HK358-149	25		3-3/4"	HK358-663	10
	2-1/2"	HK358-112	50		3-1/4"	HK358-150	25		4"	HK358-200	10
	2-3/4"	HK358-113	25		3-1/2"	HK358-151	25		4-1/2"	HK358-201	10
	3"	HK358-114	25		4-1/2"	HK358-153	20		5-1/2"	HK358-203	10
	3-1/2"	HK358-116	25		5"	HK358-154	20		6"	HK358-204	10
	4"	HK358-117	25		5-1/2"	HK358-155	10		6-1/2"	HK358-205	10
	4-1/2"	HK358-655	25		6"	HK358-156	10		7"	HK358-206	10
	5"	HK358-656	25		6-1/2"	HK358-157	10		7-1/2"	HK358-664	10
					7"	HK358-158	10		8"	HK358-207	10
					8"	HK358-159	10				
1/2" - 13 3/8" Key	1/2"	HK358-118	50	3/4" - 10 5/8" Key	1-1/4"	HK358-160	25	1-1/4" - 7 Class 2A Threads 7/8" Key	3"	HK358-209	1
	5/8"	HK358-119	50		1-1/2"	HK358-161	25		3-1/2"	HK358-210	1
	3/4"	HK358-120	50		2-1/4"	HK358-164	25		4"	HK358-211	1
	7/8"	HK358-121	50		2-1/2"	HK358-165	25		4-1/2"	HK358-212	1
	1"	HK358-122	50		3"	HK358-167	25		5"	HK358-213	1
	1-1/4"	HK358-123	50		3-1/4"	HK358-168	25		5-1/2"	HK358-214	1
	1-1/2"	HK358-124	50		3-3/4"	HK358-660	25		6"	HK358-215	1
	1-3/4"	HK358-125	50		4"	HK358-170	25		6-1/2"	HK358-216	1
	2-1/4"	HK358-127	25		4-1/2"	HK358-171	20		7"	HK358-217	1
	2-1/2"	HK358-128	25		5"	HK358-172	20		8"	HK358-218	1
	2-3/4"	HK358-129	25		5-1/2"	HK358-173	10		9"	HK358-219	1
	3"	HK358-130	25		6"	HK358-174	10		10"	HK358-220	1
	3-1/4"	HK358-131	25		6-1/2"	HK358-175	10		11"	HK358-665	1
	3-1/2"	HK358-132	25		7"	HK358-176	10				
	3-3/4"	HK358-657	25		7-1/2"	HK358-661	10				
	4"	HK358-133	25		8"	HK358-177	10				
4-1/2"	HK358-134	25	7/8" - 9 3/4" Key	2"	HK358-178	10	1-1/2" - 6 Class 2A Threads 1" Key	3-1/2"	HK358-223	1	
5"	HK358-135	25		2-1/4"	HK358-179	10		4"	HK358-224	1	
5-1/2"	HK358-136	25		2-1/2"	HK358-180	10		4-1/2"	HK358-225	1	
6"	HK358-137	25		2-3/4"	HK358-181	10		5"	HK358-226	1	
6-1/2"	HK358-138	10		3"	HK358-182	10		5-1/2"	HK358-227	1	
7"	HK358-139	10		3-1/4"	HK358-183	10		6"	HK358-228	1	
7-1/2"	HK358-658	10		3-1/2"	HK358-184	10		6-1/2"	HK358-229	1	
8"	HK358-140	10		4"	HK358-185	10		7"	HK358-230	1	
			4-1/2"	HK358-186	10	8"	HK358-231	1			
			5"	HK358-187	10						
			5-1/2"	HK358-188	10						
			6"	HK358-189	10						
			7"	HK358-191	10						
			8"	HK358-192	10						

B

CATALOG 14 SPAENAUR

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

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Socket Head Cap Screws

Vis à tête à six pans creux



Inch

Pouce



Socket Head Cap Screws

UNRF FINE THREAD SERIES • 1960 SERIES

HEAT TREATED ALLOY STEEL • UNIFIED 3A THREAD FIT
MEETS ASME B18.3 AND ASTM A574

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

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.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	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"-28	2-1/2"	HK358-670	100	1/2"- 20 3/8" Key	1-3/4"	HK358-305	50																				
	1/4"	HK358-237	100		3"	HK358-671	100		2"	HK358-306	50																				
	3/8"	HK358-238	100		4"	HK358-672	100		2-1/4"	HK358-307	25																				
#1 - 72 1/16" Key	1/4"	HK358-241	100	5/16"- 24 1/4" Key	1/2"	HK358-275	100	5/8"- 18 1/2" Key	2-1/2"	HK358-308	25																				
	3/8"	HK358-242	100		3/4"	HK358-276	100		2-3/4"	HK358-687	25																				
#6 - 40 7/64" Key	1/4"	HK358-243	100	1/4" Key	7/8"	HK358-277	100		5/8"- 18 1/2" Key	3"	HK358-309	25																			
	3/8"	HK358-244	100		1-3/4"	HK358-278	100			3-1/2"	HK358-688	25																			
	1/2"	HK358-245	100		2"	HK358-283	100			4"	HK358-689	25																			
#8 - 36 9/64" Key	5/8"	HK358-246	100	1/4" Key	2-1/4"	HK358-284	100			5/8"- 18 1/2" Key	4-1/2"	HK358-690	25																		
	3/8"	HK358-248	100		2-1/2"	HK358-285	100				5"	HK358-691	25																		
	1/2"	HK358-249	100		3"	HK358-285	100				5-1/2"	HK358-692	25																		
#10 - 32 5/32" Key	3/4"	HK358-250	100	3/8"- 24 5/16" Key	3-1/2"	HK358-674	50				3/4"- 16 5/8" Key	6"	HK358-693	25																	
	1/4"	HK358-666	100		3/8"- 24 5/16" Key	4"	HK358-675					50	3/4"- 16 5/8" Key	1"	HK358-310	25															
	3/8"	HK358-251	100			3/8"- 24 5/16" Key	1/2"	HK358-286				100		3/4"- 16 5/8" Key	1-1/4"	HK358-311	25														
	5/16"	HK358-667	100				3/8"- 24 5/16" Key	3/4"				HK358-288			100	3/4"- 16 5/8" Key	1-1/2"	HK358-312	25												
	5/8"	HK358-253	100					3/8"- 24 5/16" Key	7/8"			HK358-289			100		3/4"- 16 5/8" Key	1-3/4"	HK358-313	25											
	3/4"	HK358-254	100						3/8"- 24 5/16" Key			1-1/4"			HK358-291			100	3/4"- 16 5/8" Key	2"	HK358-314	25									
	7/8"	HK358-255	100									3/8"- 24 5/16" Key			1-1/2"			HK358-292		100	3/4"- 16 5/8" Key	2-1/4"	HK358-694	25							
	1"	HK358-256	100							3/8"- 24 5/16" Key					1-3/4"			HK358-293		50		3/4"- 16 5/8" Key	2-1/2"	HK358-315	25						
	1-1/4"	HK358-257	100												3/8"- 24 5/16" Key			2-1/4"		HK358-295			50	3/4"- 16 5/8" Key	2-3/4"	HK358-695	25				
	1-1/2"	HK358-258	100															3/8"- 24 5/16" Key		2-1/2"			HK358-296		50	3/4"- 16 5/8" Key	3"	HK358-696	25		
	2"	HK358-260	100																	3/8"- 24 5/16" Key			2-3/4"		HK358-676		50	3/4"- 16 5/8" Key	3-1/2"	HK358-697	25
	2-1/4"	HK358-261	100																				3/8"- 24 5/16" Key		3"		HK358-297		50	3/4"- 16 5/8" Key	4"
2-1/2"	HK358-262	100	3/8"- 24 5/16" Key	3-1/2"							HK358-677														50		3/4"- 16 5/8" Key		4-1/2"		HK358-699
2-3/4"	HK358-668	100		3/8"- 24 5/16" Key	4"						HK358-678		50												3/4"- 16 5/8" Key				5"		HK358-784
3"	HK358-263	100			3/8"- 24 5/16" Key	4-1/2"					HK358-679		50	3/4"- 16 5/8" Key															1-1/4"		HK358-785
1/4"- 28 3/16" Key	1/4"	HK358-669				100	7/16"- 20 3/8" Key				5-1/2"		HK358-681			50													3/4"- 16 5/8" Key		1-1/2"
	3/8"	HK358-264				100		7/16"- 20 3/8" Key			6"		HK358-682			50	3/4"- 16 5/8" Key														1-3/4"
	5/8"	HK358-266				100			7/16"- 20 3/8" Key		1"		HK358-298			100			3/4"- 16 5/8" Key												2"
	3/4"	HK358-267				100					7/16"- 20 3/8" Key	1-1/4"	HK358-299			50					3/4"- 16 5/8" Key										2-1/4"
	7/8"	HK358-268				100				7/16"- 20 3/8" Key		1-1/2"	HK358-300			50						3/4"- 16 5/8" Key									2-1/2"
	1"	HK358-269				100						7/16"- 20 3/8" Key	2"		HK358-301	50								3/4"- 16 5/8" Key							2-3/4"
1-1/4"	HK358-270	100				7/16"- 20 3/8" Key	2-1/2"						HK358-683		50	3/4"- 16 5/8" Key		3"								HK358-792					25
1-1/2"	HK358-271	100					7/16"- 20 3/8" Key	3"					HK358-684		25			3/4"- 16 5/8" Key		3-1/2"						HK358-793		25			
1-3/4"	HK358-272	100						7/16"- 20 3/8" Key	3-1/2"				HK358-685		25					3/4"- 16 5/8" Key			3-3/4"			HK358-1633		25			
2"	HK358-273	100	7/16"- 20 3/8" Key						1/2"- 20		3/4"		HK358-686		50								3/4"- 16 5/8" Key			4"	HK358-794	25			
2-1/4"	HK358-274	100		7/16"- 20 3/8" Key					1"	HK358-302	50		3/4"- 16 5/8" Key		4-1/2"										HK358-795	25					
...Continued					...Continued				1/2"- 20 3/8" Key	1/2"- 20 3/8" Key	1/2"- 20 3/8" Key	5"		HK358-796	25																
...Continued					...Continued							1/2"- 20 3/8" Key		1/2"- 20 3/8" Key	1/2"- 20 3/8" Key										5-1/2"	HK358-797	10				
...Continued					...Continued												1/2"- 20 3/8" Key								1/2"- 20 3/8" Key	1/2"- 20 3/8" Key	6"	HK358-798	10		
...Continued					...Continued			1/2"- 20 3/8" Key											1/2"- 20 3/8" Key								1/2"- 20 3/8" Key	7"	HK358-799	10	
...Continued			...Continued			1/2"- 20 3/8" Key	1/2"- 20 3/8" Key														1/2"- 20 3/8" Key							8"	HK358-800	10	
...Continued			...Continued																			1/2"- 20 3/8" Key						1/2"- 20 3/8" Key	1/2"- 20 3/8" Key		

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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.)		
		UNRC	UNRF	UNRC	UNRF	UNRC	UNRF	BODY SECTION	THREAD 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.



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.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	
#4 - 40 3/32" Key	1/4"	HK358-700	100	5/16" - 18 1/4" Key	1/2"	HK358-760	100	
	3/8"	HK358-701	100		5/8"	HK358-761	100	
	1/2"	HK358-702	100		3/4"	HK358-762	100	
	5/8"	HK358-703	100		7/8"	HK358-808	100	
	3/4"	HK358-704	100		1"	HK358-763	100	
#6 - 32 7/64" Key	1/4"	HK358-710	100		1-1/4"	HK358-764	100	
	3/8"	HK358-711	100		1-1/2"	HK358-765	100	
	1/2"	HK358-712	100		1-3/4"	HK358-766	100	
	5/8"	HK358-713	100		2"	HK358-767	100	
	3/4"	HK358-714	100		2-1/4"	HK358-768	100	
#8 - 32 9/64" Key	7/8"	HK358-715	100		2-1/2"	HK358-769	100	
	1"	HK358-801	100		3"	HK358-770	100	
	1/4"	HK358-716	100		3-1/2"	HK358-771	50	
	3/8"	HK358-717	100		3/8" - 16 5/16" Key	1/2"	HK358-772	100
	1/2"	HK358-718	100			3/4"	HK358-774	100
5/8"	HK358-719	100	7/8"	HK358-811		100		
1"	HK358-722	100	1-1/4"	HK358-776		100		
1-1/4"	HK358-802	100	1-1/2"	HK358-777		100		
1-1/2"	HK358-803	100	2"	HK358-779		50		
#10 - 24 5/32" Key	3/8"	HK358-723	100	2-1/4"		HK358-780	50	
	1/2"	HK358-724	100	2-1/2"		HK358-781	50	
	5/8"	HK358-725	100	3"		HK358-782	50	
	3/4"	HK358-726	100	4"		HK358-814	50	
	1"	HK358-728	100	1/2" - 13 3/8" Key	1"	HK358-836	50	
1-1/4"	HK358-729	100	1-1/4"		HK358-837	50		
1-1/2"	HK358-730	100	1-1/2"		HK358-838	50		
1/4" - 20 3/16" Key	1/4"	HK358-804	100		2"	HK358-840	50	
	3/8"	HK358-746	100		2-1/2"	HK358-842	25	
	1/2"	HK358-747	100		3"	HK358-844	25	
	5/8"	HK358-748	100		4"	HK358-847	25	
	3/4"	HK358-749	100		4-1/2"	HK358-848	25	
	7/8"	HK358-750	100		5/8" - 11 1/2" Key	1-1/4"	HK358-856	25
	1"	HK358-751	100			1-1/2"	HK358-857	25
	1-1/4"	HK358-752	100	2"		HK358-859	25	
	1-1/2"	HK358-753	100	2-1/2"		HK358-861	25	
	1-3/4"	HK358-754	100	4"		HK358-866	25	
	2"	HK358-755	100					
	2-1/4"	HK358-756	100					
	2-1/2"	HK358-757	100					
	3"	HK358-758	100					
	4"	HK358-807	100					

For Hex Keys see pages P2-P12.

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers.

Inch

Pouce



Socket Head Cap Screws

Vis à tête à six pans creux



**Flat Head
Cap Screws**
**UNRC
COARSE THREAD**

Thread Length Chart

Screw Dia.	Thread Lengths		Screw Dia.	Thread Lengths	
	Min.	Max.		Min.	Max.
#2	0.62	0.80	7/16"	1.38	2.17
#3	0.62	0.83	1/2"	1.50	2.38
#4	0.75	0.99	5/8"	1.75	2.82
#5	0.75	1.00	3/4"	2.00	3.25
#6	0.75	1.05	7/8"	2.25	3.69
#8	0.88	1.19	1"	2.50	4.12
#10	0.88	1.27	1-1/8"	2.82	4.65
1/4"	1.00	1.50	1-1/4"	3.12	5.09
5/16"	1.12	1.71	1-3/8"	3.44	5.65
3/8"	1.25	1.94	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.	DIA., Threads per Inch and Key Size	Overall LENGTH	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	Overall LENGTH	SPAENAUR No.	PKG QTY.	
#4 - 40 1/16" Key	1/4"	HK358-348	100	1/4" - 20 5/32" Key	3/8"	HK358-375	100	7/16" - 14 1/4" Key	3/4"	HK358-405	100	
	3/8"	HK358-349	100		5/8"	HK358-377	100		1"	HK358-406	100	
	1/2"	HK358-350	100		3/4"	HK358-378	100		1-1/4"	HK358-407	50	
	5/8"	HK358-351	100		1-1/4"	HK358-380	100		1-1/2"	HK358-408	50	
	3/4"	HK358-352	100		1-3/4"	HK358-382	100		1/2" - 13 5/16" Key	3/4"	HK358-409	50
#5 - 40 5/64" Key	1/4"	HK358-353	100	5/16" - 18 3/16" Key	1/2"	HK358-384	100	1"		HK358-410	50	
	3/8"	HK358-354	100		5/8"	HK358-385	100	1-1/4"		HK358-411	50	
	1/2"	HK358-355	100		3/4"	HK358-386	100	1-1/2"		HK358-412	50	
	5/8"	HK358-356	100		1"	HK358-387	100	1-3/4"		HK358-413	50	
	3/4"	HK358-357	100		1-1/2"	HK358-389	100	2"	HK358-414	50		
#6 - 32 5/64" Key	1/4"	HK358-358	100	1-3/4"	1-3/4"	HK358-390	100	2-1/4"	2-1/4"	HK358-415	25	
	3/8"	HK358-359	100		2"	HK358-391	100		5/8" - 11 3/8" Key	1-1/4"	HK358-418	25
	1/2"	HK358-360	100		2-1/4"	HK358-392	100			1-1/2"	HK358-419	25
	5/8"	HK358-361	100		2-1/2"	HK358-393	100			1-3/4"	HK358-420	25
	3/4"	HK358-362	100		3/8" - 16 7/32" Key	5/8"	HK358-395			100	2"	HK358-421
#8 - 32 3/32" Key	3/8"	HK358-363	100	3/4"		HK358-396	100	3/4" - 10 1/2" Key		2"	HK358-422	25
	5/8"	HK358-365	100	1-1/4"		HK358-398	100		1-1/2"	HK358-426	25	
	3/4"	HK358-366	100	1-1/2"		HK358-399	100		1-3/4"	HK358-427	25	
	1"	HK358-367	100	1-3/4"		HK358-400	50		2"	HK358-428	25	
	#10 - 24 1/8" Key	3/8"	HK358-368	100	2"	HK358-401	50		2-1/2"	2-1/2"	HK358-430	25
1/2"		HK358-369	100	2-1/4"	HK358-402	50	3"	HK358-431		25		
5/8"		HK358-370	100	2-1/2"	HK358-403	50	1/2" Key	3"		HK358-431	25	
3/4"		HK358-371	100	3"	HK358-404	50						
1"		HK358-372	100									
1-1/4"	HK358-373	100										
1-1/2"	HK358-374	100										

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

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SPAENAUR

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

B183



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 5/32" Key	3/8"	HK358-733	100
	1/2"	HK358-734	100
	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.

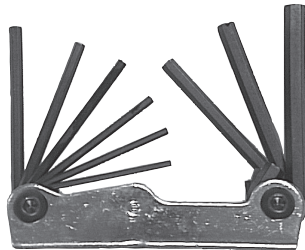
For Drive Bits and Hex Keys See Pages P2-P12

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"



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.	DIA., Threads per Inch and Key Size	Over-all LGTH.	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	Over-all LGTH.	SPAENAUR No.	PKG QTY.
#10 - 32 1/8" Key	3/8"	HK358-432	100	5/16" - 24 3/16" Key	1/2"	HK358-446	100	1/2" - 20 5/16" Key	3/4"	HK358-456	50
	1/2"	HK358-433	100		5/8"	HK358-447	100		1"	HK358-457	50
	5/8"	HK358-434	100		3/4"	HK358-448	100		1-1/4"	HK358-458	50
	3/4"	HK358-435	100		1"	HK358-449	100		1-1/2"	HK358-459	50
	1"	HK358-436	100		1-1/4"	HK358-450	100		1-3/4"	HK358-460	50
	1-1/4"	HK358-437	100						2"	HK358-461	50
1/4" - 28 5/32" Key	3/8"	HK358-439	100	3/8" - 24 7/32" Key	5/8"	HK358-451	100	See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers			
	1/2"	HK358-440	100		3/4"	HK358-452	100				
	5/8"	HK358-441	100		1"	HK358-453	100				
	3/4"	HK358-442	100		1-1/2"	HK358-455	100				
	1"	HK358-443	100								
	1-1/4"	HK358-444	100								
1-1/2"	HK358-445	100									



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.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.
1/2" - 13 5/16" Key	1"	HK358-499	25	5/8" - 11 3/8" Key	1"	HK358-503	25	UNRF FINE THREADS			
	1-1/4"	HK358-500	25		1-1/4"	HK358-504	25				
	1-1/2"	HK358-501	25		1-1/2"	HK358-505	25				
5/8" - 11 3/8" Key	2"	HK358-502	25	UNRF FINE THREADS							
	1"	HK358-503	25								
	1-1/4"	HK358-504	25								
#10 - 32 1/8" Key	1/4"	HK358-507	100	5/16" - 24 3/16" Key	1/2"	HK358-488	100	1/4" - 28 5/32" Key	3/8"	HK358-514	100
	3/8"	HK358-508	100		5/8"	HK358-489	100		1/2"	HK358-515	100
	5/8"	HK358-510	100		3/4"	HK358-490	100		5/8"	HK358-516	100
	3/4"	HK358-511	100		7/8"	HK358-491	50		3/4"	HK358-517	100
	7/8"	HK358-512	50		1"	HK358-492	50		1"	HK358-518	50
	1"	HK358-513	50								
#10 - 24 1/8" Key	1/4"	HK358-474	100	3/8" - 16 7/32" Key	1/2"	HK358-493	50	5/16" - 24 3/16" Key	3/8"	HK358-519	100
	3/8"	HK358-475	100		5/8"	HK358-494	50		1/2"	HK358-520	100
	1/2"	HK358-476	100		3/4"	HK358-495	50		5/8"	HK358-521	100
	5/8"	HK358-477	100		7/8"	HK358-496	50		1"	HK358-523	50
	3/4"	HK358-478	100		1"	HK358-497	50				
	7/8"	HK358-479	50		1-1/4"	HK358-498	50				
1"	HK358-480	50									

CATALOG 14

SPAENAUR



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

UNRF FINE THREAD

DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.
#8 - 32	3/8"	HK358-316	100	5/16" - 18 5/32" Key	3/4"	HK358-332	100	#10 - 32	3/8"	HK358-344	100
	1/2"	HK358-317	100		1"	HK358-333	100		1/2"	HK358-345	100
	3/4"	HK358-319	100						5/8"	HK358-346	100
	5/64" Key	1"	HK358-320		100				3/32" Key	3/4"	HK358-347
#10 - 24	1/2"	HK358-322	100	3/8" - 16 3/16" Key	1/2"	HK358-336	100	See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers			
	3/4"	HK358-324	100		3/4"	HK358-337	100				
					1"	HK358-338	100				
					1-1/2"	HK358-340	100				
1/4" - 20	1/2"	HK358-327	100	1/2" - 13 1/4" Key	1"	HK358-341	50				
	5/8"	HK358-328	100		1-1/4"	HK358-342	50				
	3/4"	HK358-329	100		1-1/2"	HK358-343	50				
	1/8" Key	1"	HK358-330		100						

Technical Information chart for Hex Socket Shoulder Screw

Nom. Size or Basic Shoulder Dia.	D Shoulder Diameter		A Head Diameter		H Head Height		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.		
	Max	Min	Max.	Min.	Max.	Min.								
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



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.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	
#2 - 56 5/64" Key	1/4"	HK358-965	100	#10 - 24	3/8"	HK358-980	100	Cont'd... 5/16"-18	1-1/4"	HK358-999	100	
	3/8"	HK358-966	100		1/2"	HK358-981	100		1-1/2"	HK358-1600	100	
#4 - 40 3/32" Key	1/4"	HK358-967	100	5/32" Key	5/8"	HK358-982	100	3/8"- 16	2"	HK358-1601	100	
	3/8"	HK358-968	100		3/4"	HK358-983	100		5/16" Key	1/2"	HK358-1602	100
	1/2"	HK358-969	100		7/8"	HK358-984	100			5/8"	HK358-1603	100
#6 - 32 7/64" Key	1/4"	HK358-970	100	1/4"- 20	3/8"	HK358-985	100	1-1/4"	3/4"	HK358-1604	100	
	3/8"	HK358-971	100		1/2"	HK358-986	100		1"	HK358-1605	100	
	1/2"	HK358-972	100		5/8"	HK358-987	100		1-1/4"	HK358-1606	100	
	5/8"	HK358-973	100		3/4"	HK358-988	100		1-1/2"	HK358-1607	100	
	3/4"	HK358-974	100		7/8"	HK358-989	100		1-3/4"	HK358-1608	50	
#8 - 32 9/64" Key	3/8"	HK358-975	100	3/16" Key	1"	HK358-990	100	1/2"- 13	2"	HK358-1609	50	
	1/2"	HK358-976	100		1-1/4"	HK358-991	100		3/8" Key	1"	HK358-1611	50
	5/8"	HK358-977	100		1-1/2"	HK358-992	100			1-1/4"	HK358-1612	50
	3/4"	HK358-978	100		1-3/4"	HK358-993	100			1-1/2"	HK358-1613	50
	1"	HK358-979	100		2"	HK358-994	100			1-3/4"	HK358-1614	50
	5/16"- 18	1/2"	HK358-995		100	1/4" Key	1/2"			HK358-995	100	2"
3/4"		HK358-996	100	3/4"	HK358-996		100					
7/8"		HK358-997	100	7/8"	HK358-997		100					

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.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	
#10 - 32 5/32" Key	3/8"	HK358-1616	100	1/4"- 28	5/8"	HK358-1623	100	
	1/2"	HK358-1617	100		3/4"	HK358-1624	100	
	5/8"	HK358-1618	100		3/16" Key	1"	HK358-1625	100
	3/4"	HK358-1619	100					
	1"	HK358-1620	100					
	1-1/4"	HK358-1621	100					
	1-1/2"	HK358-1622	100					



See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

Hex Socket Shoulder Screws

UNRC COARSE THREADS

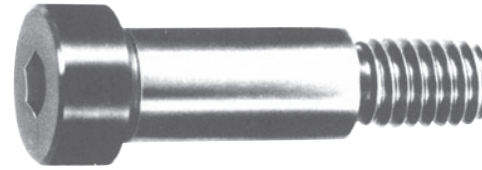
HEAT TREATED ALLOY STEEL

UNIFIED 3A THREAD FIT

MEETS ASME B18.3

Sold in full packages only.

For Technical Information chart see page B186.



B

Shoulder Dia.	Shoulder Length	UNRC Thread	SPAENAUR No.	PKG QTY.	Shoulder Dia.	Shoulder Length	UNRC Thread	SPAENAUR No.	PKG QTY.		
1/4"	1/2"	10-24	HK358-526	25	...Cont'd. 1/2"	3-1/4"	3/8"-16	HK358-595	25		
	5/8"		HK358-552	25		3-1/2"		HK358-596	25		
	3/4"		HK358-553	25		3-3/4"		HK358-597	25		
	1"		HK358-554	25		4"		HK358-598	25		
	1-1/4"		HK358-555	25		4-1/4"		HK358-1627	25		
1-1/2"	HK358-556	25	4-1/2"	HK358-599	10						
5/16"	3/8"	1/4"-20	HK358-557	25	4-3/4"	HK358-1628	10	HK358-600	10		
	1/2"		HK358-558	25	5"	HK358-601	25				
	5/8"		HK358-559	25	5/8"	1-1/4"	HK358-602	25			
	3/4"		HK358-560	25		1-1/2"	HK358-603	25			
	1"		HK358-561	25		1-3/4"	HK358-604	25			
1-1/4"	HK358-562	25	2"	HK358-605		25					
1-1/2"	HK358-563	25	2-1/4"	HK358-606		25					
2"	HK358-565	25	2-1/2"	HK358-607	25						
3/8"	3/8"	5/16"-18	HK358-566	25	2-3/4"	HK358-608	25	1/2"-13	3"	HK358-609	25
	1/2"		HK358-567	25	3-1/4"	HK358-610	25				
	5/8"		HK358-568	25	3-1/2"	HK358-611	25				
	1"		HK358-570	25	3-3/4"	HK358-612	10				
	1-1/4"		HK358-571	25	4"	HK358-613	10				
	1-1/2"		HK358-572	25	4-1/2"	HK358-1630	10				
	1-3/4"		HK358-573	25	4-3/4"	HK358-614	10				
	2"		HK358-574	25	5"	HK358-615	10				
	2-1/4"		HK358-575	25	5-1/2"	HK358-616	10				
	2-1/2"		HK358-576	25	6"						
3"	HK358-578	25	3/4"	1-1/2"	HK358-617	10					
3-1/4"	HK358-579	25		1-3/4"	HK358-618	10					
3-1/2"	HK358-580	25		2"	HK358-619	10					
4"	HK358-582	25		2-1/4"	HK358-620	10					
				2-1/2"	HK358-621	10					
1/2"	5/8"	3/8"-16	HK358-584	25	2-3/4"	HK358-622	10	5/8"-11	3"	HK358-623	10
	3/4"		HK358-585	25	3"	HK358-624	10				
	1"		HK358-586	25	3-1/4"	HK358-625	10				
	1-1/4"		HK358-587	25	3-1/2"	HK358-626	10				
	1-1/2"		HK358-588	25	3-3/4"	HK358-1631	10				
	1-3/4"		HK358-589	25	4-1/4"	HK358-628	10				
	2"		HK358-590	25	4-1/2"	HK358-1632	10				
	2-1/4"		HK358-591	25	4-3/4"	HK358-629	10				
	2-1/2"		HK358-592	25	5"	HK358-630	10				
	2-3/4"		HK358-593	25	5-1/2"	HK358-631	10				
3"	HK358-594	25	6"								

SPAENAUR CATALOG 14



Metric Socket Head Cap Screws

HEAT TREATED ALLOY STEEL TO Property Class 12.9

ISO METRIC THREADS TO ASME B1.13M

Sold in full packages only.

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

B

DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	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	M5 Pitch 0.80 4 mm Key	6	HK358-2037	100	Cont'd... M6	70	HK358-2075	100
	5	HK358-2001	100		8	HK358-2038	100		75	HK358-2076	100
	6	HK358-2002	100		10	HK358-2039	100		80	HK358-2077	100
	8	HK358-2003	100		12	HK358-2040	100		90	HK358-2078	100
	10	HK358-2004	100		*14	HK358-2041	100		100	HK358-2079	100
	12	HK358-2005	100		*15	HK358-2042	100	110	HK358-2080	100	
M2.5 Pitch .45 2.0 mm Key	5	HK358-2006	100		16	HK358-2043	100	M8 Pitch 1.25 6 mm Key	10	HK358-2081	100
	6	HK358-2007	100		*18	HK358-2044	100		12	HK358-2082	100
	8	HK358-2008	100		20	HK358-2045	100		*14	HK358-2083	100
	10	HK358-2009	100		*22	HK358-2046	100		*15	HK358-2084	100
	12	HK358-2010	100	25	HK358-2047	100	16		HK358-2085	100	
M3 Pitch .50 2.5 mm Key	5	HK358-2011	100	30	HK358-2048	100	*18		HK358-2086	100	
	8	HK358-2013	100	40	HK358-2050	100	20		HK358-2087	100	
	10	HK358-2014	100	45	HK358-2051	100	*22		HK358-2088	100	
	12	HK358-2015	100	50	HK358-2052	100	25		HK358-2089	100	
	*15	HK358-2016	100	55	HK358-2053	100	30		HK358-2090	100	
	16	HK358-2017	100	60	HK358-2054	100	35		HK358-2091	100	
	20	HK358-2018	100	65	HK358-2055	100	40		HK358-2092	100	
	25	HK358-2019	100	70	HK358-2056	100	45		HK358-2093	100	
	30	HK358-2020	100	M6 Pitch 1.00 5 mm Key	8	HK358-2057	100		50	HK358-2094	100
	35	HK358-2021	100		10	HK358-2058	100		55	HK358-2095	100
M4 Pitch 0.70 3 mm Key	5	HK358-2022	100		12	HK358-2059	100	70	HK358-2098	100	
	6	HK358-2023	100		*14	HK358-2060	100	75	HK358-2099	100	
	8	HK358-2024	100		16	HK358-2062	100	80	HK358-2100	100	
	10	HK358-2025	100		*18	HK358-2063	100	90	HK358-2101	100	
	12	HK358-2026	100		20	HK358-2064	100	100	HK358-2102	100	
	*14	HK358-2027	100		*22	HK358-2065	100	110	HK358-2103	100	
	*15	HK358-2028	100		35	HK358-2068	100	120	HK358-2104	100	
	16	HK358-2029	100		40	HK358-2069	100	130	HK358-2105	100	
	20	HK358-2030	100	45	HK358-2070	100	140	HK358-2106	100		
	25	HK358-2031	100	50	HK358-2071	100	150	HK358-2107	100		
	30	HK358-2032	100	55	HK358-2072	100	M10 Pitch 1.50 8 mm Key	10	HK358-2108	100	
	35	HK358-2033	100	60	HK358-2073	100		12	HK358-2109	100	
	40	HK358-2034	100	65	HK358-2074	100		*15	HK358-2110	100	
	45	HK358-2035	100				16	HK358-2111	100		
	50	HK358-2036	100								

*Denotes Non-ASME Standard

Continues on Next Page

Socket Head Cap Screws

Vis à tête à six pans creux



Metric

Métrique

B

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.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	
Cont'd... M10	*18	HK358-2112	100	Cont'd... M16	65	HK358-2162	25	Cont'd... M24	160	HK358-2210	5	
	20	HK358-2113	100		70	HK358-2163	25		180	HK358-2211	5	
	*22	HK358-2114	100		75	HK358-2164	25		200	HK358-2212	5	
	25	HK358-2115	100		80	HK358-2165	25		220	HK358-2213	5	
	30	HK358-2116	100		90	HK358-2166	25		240	HK358-2214	1	
	35	HK358-2117	100		100	HK358-2167	10		260	HK358-2215	1	
	40	HK358-2118	100		120	HK358-2169	10		M30 Pitch 3.5 22 mm Key	80	HK358-2216	10
	45	HK358-2119	100		130	HK358-2170	10			90	HK358-2217	10
	55	HK358-2121	100		140	HK358-2171	10			100	HK358-2218	10
	60	HK358-2122	50		150	HK358-2172	10			110	HK358-2219	5
	65	HK358-2123	50	160	HK358-2173	10	120	HK358-2220		5		
	70	HK358-2124	50	180	HK358-2174	10	130	HK358-2221		5		
	75	HK358-2125	50	M20 Pitch 2.50 17 mm Key	30	HK358-2175	50	140		HK358-2222	5	
	80	HK358-2126	50		35	HK358-2176	10	150		HK358-2223	1	
	90	HK358-2127	50		40	HK358-2177	10	160		HK358-2224	1	
	110	HK358-2129	50		45	HK358-2178	10	180		HK358-2225	1	
	130	HK358-2130	50		50	HK358-2179	10	200	HK358-2226	1		
	150	HK358-2131	50		55	HK358-2180	10	220	HK358-2227	1		
	M12 Pitch 1.75 10 mm Key	12	HK358-2132		100	60	HK358-2181	10	240	HK358-2228	1	
		*15	HK358-2133		100	65	HK358-2182	10	300	HK358-2229	1	
16		HK358-2134	100		70	HK358-2183	10	M36 Pitch 4 27 mm Key	80	HK358-2230	5	
20		HK358-2135	100		75	HK358-2184	10		90	HK358-2231	1	
25		HK358-2136	100	80	HK358-2185	10	100		HK358-2232	1		
30		HK358-2137	100	90	HK358-2186	10	110		HK358-2233	1		
35		HK358-2138	100	100	HK358-2187	10	120		HK358-2234	1		
40		HK358-2139	50	110	HK358-2188	10	130		HK358-2235	1		
45		HK358-2140	50	120	HK358-2189	10	140		HK358-2236	1		
50		HK358-2141	50	130	HK358-2190	10	150		HK358-2237	1		
55		HK358-2142	50	140	HK358-2191	10	160		HK358-2238	1		
60		HK358-2143	50	150	HK358-2192	10	170		HK358-2239	1		
65		HK358-2144	50	160	HK358-2193	10	180	HK358-2240	1			
70		HK358-2145	50	180	HK358-2194	10	200	HK358-2241	1			
75		HK358-2146	50	200	HK358-2195	10	240	HK358-2242	1			
80	HK358-2147	25	M24 Pitch 3.00 19 mm Key	40	HK358-2196	25	260	HK358-2243	1			
90	HK358-2148	25		50	HK358-2197	10	See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers					
100	HK358-2149	25		55	HK358-2198	10						
110	HK358-2150	25		60	HK358-2199	10						
120	HK358-2151	25		65	HK358-2200	10						
130	HK358-2152	25		70	HK358-2201	10						
150	HK358-2153	10		80	HK358-2202	10						
M16 Pitch 2.00 14 mm Key	25	HK358-2154		25	90	HK358-2203		10				
	30	HK358-2155		25	100	HK358-2204		10				
	35	HK358-2156		25	110	HK358-2205		10				
	45	HK358-2158	25	120	HK358-2206	10						
	50	HK358-2159	25	130	HK358-2207	10						
	55	HK358-2160	25	140	HK358-2208	10						
	60	HK358-2161	25	150	HK358-2209	5						

Cont'd...

*Denotes Non-ASME Standard

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CATALOG 14
SPAENAUR



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.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	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	M6 Pitch 1.00 4 mm Key	10	HK358-2378	100	M12 Pitch 1.75 8 mm Key	20	HK358-2409	100
	8	HK358-2353	100		12	HK358-2379	100		25	HK358-2410	100
	16	HK358-2356	100		16	HK358-2380	100		30	HK358-2411	100
	20	HK358-2357	100		25	HK358-2382	100		40	HK358-2413	100
	25	HK358-2358	100		30	HK358-2383	100		45	HK358-2414	50
M4 Pitch 0.70 2.5 mm Key	8	HK358-2359	100	M8 Pitch 1.25 5 mm Key	35	HK358-2384	100	M16 Pitch 2.00 10 mm Key	50	HK358-2415	50
	10	HK358-2360	100		40	HK358-2385	100		55	HK358-2416	50
	12	HK358-2361	100		50	HK358-2387	100		60	HK358-2417	50
	16	HK358-2362	100		16	HK358-2389	100		30	HK358-2418	50
	20	HK358-2363	100		20	HK358-2390	100		35	HK358-2419	50
	25	HK358-2364	100	25	HK358-2391	100	40	HK358-2420	25		
	30	HK358-2365	100	30	HK358-2392	100	45	HK358-2421	25		
M5 Pitch 0.80 3 mm Key	35	HK358-2366	100	35	HK358-2393	100	50	HK358-2422	25		
	40	HK358-2367	100	40	HK358-2394	100	60	HK358-2423	25		
	M10 Pitch 1.50 6 mm Key	8	HK358-2368	100	50	HK358-2395	100	70	HK358-2424	25	
		10	HK358-2369	100	60	HK358-2396	100				
		12	HK358-2370	100	70	HK358-2397	100				
		16	HK358-2371	100	16	HK358-2399	100				
		20	HK358-2372	100	20	HK358-2400	100				
		25	HK358-2373	100	25	HK358-2401	100				
		30	HK358-2374	100	30	HK358-2402	100				
		35	HK358-2375	100	35	HK358-2403	100				
40		HK358-2376	100	40	HK358-2404	100					
50		HK358-2377	100	45	HK358-2405	100					
			50	HK358-2406	100						
			60	HK358-2407	100						
			70	HK358-2408	50						

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.

Wrenches open from the top and bottom, for easy access and use.

Rotates 270° to firm stop for better torquing and safety.



Rounded edges never cut hands or catch clothing.

Handle is specially contoured for better feel and control

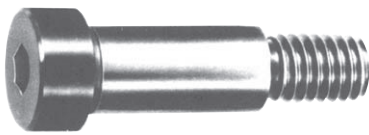


Metric Button Head Socket Cap Screws

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.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.	DIA., Threads per Inch and Key Size	LGTH. Under Head	SPAENAUR No.	PKG QTY.
M3 Pitch .50 2 mm Key	8	HK358-2425	100	M6 Pitch 1.00 4 mm Key	12	HK358-2440	100	M10 Pitch 1.50 6 mm Key	16	HK358-2453	100
	10	HK358-2426	100		16	HK358-2441	100		20	HK358-2454	100
	12	HK358-2427	100		20	HK358-2442	100		25	HK358-2455	100
	16	HK358-2428	100		25	HK358-2443	100		30	HK358-2456	100
					30	HK358-2444	100		40	HK358-2457	100
M4 Pitch 0.70 2.5 mm Key	10	HK358-2430	100	M8 Pitch 1.25 5 mm Key	10	HK358-2445	100	M12 Pitch 1.75 8 mm Key	20	HK358-2458	100
	12	HK358-2431	100		12	HK358-2446	100		25	HK358-2459	100
	16	HK358-2432	100		16	HK358-2447	100				
M5 Pitch 0.80 3 mm Key	10	HK358-2433	100		20	HK358-2448	100				
	12	HK358-2434	100		25	HK358-2449	100				
	16	HK358-2435	100		30	HK358-2450	100				
	20	HK358-2436	100		35	HK358-2451	100				
	25	HK358-2437	100		40	HK358-2452	100				
30	HK358-2438	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.	Shoulder Dia., Thrd./Pitch and Key Size	Shldr. Lgth. Under Head	SPAENAUR No.	PKG QTY.	Shoulder Dia., Thrd./Pitch and Key Size	Shldr. Lgth. Under Head	SPAENAUR No.	PKG QTY.
6 mm (5.987-5.951) M5 x 0.8 p 3 mm Key	10	HK358-2460	25	10 mm (9.987-9.951) M8 x 1.25 p 5 mm Key	20	HK358-2471	25	12 mm (11.984-11.941) M10 x 1.5 p 6 mm Key	16	HK358-2479	25
	12	HK358-2461	25		25	HK358-2472	25		20	HK358-2480	25
	16	HK358-2462	25		30	HK358-2473	25		30	HK358-2482	25
	20	HK358-2463	25		40	HK358-2474	25		40	HK358-2483	25
8 mm (7.987-7.951) M6 x 1.0 p 4 mm Key	20	HK358-2466	25		50	HK358-2475	25		50	HK358-2484	25
	25	HK358-2467	25		60	HK358-2476	25		60	HK358-2485	25
	30	HK358-2468	25		70	HK358-2477	25		70	HK358-2486	25
	40	HK358-2469	25		80	HK358-2478	25		16 mm (15.984-15.941) M12 x 1.75 p 8 mm Key	30	HK358-2487
							50	HK358-2488		25	
						70	HK358-2489	25			
								90	HK358-2490	10	

NEW



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

See Page B4



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.		PKG QTY.
		UNC	UNF	
#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	-	
#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	-	
#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.		PKG QTY.
		UNC	UNF	
#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	
5/16" (.312") 18 UNC 24 UNF 5/32" Key	1-1/2"	HK358-1064	-	50
	1-3/4"	HK358-1065	-	
	2"	HK358-1066	-	
	1/4"	HK358-1067	HK358-1172	
	5/16"	HK358-1068	HK358-1174	
3/8" (.375") 16 UNC 24 UNF 3/16" Key	3/8"	HK358-1069	HK358-1174	100
	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	-	
	1-3/4"	HK358-1078	-	
	2"	HK358-1079	-	
5/8" (.625") 12 UNC 16 UNF 3/8" 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	
3/4" (.750") 12 UNC 16 UNF 3/8" Key	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...

B



B

ASME B18.3

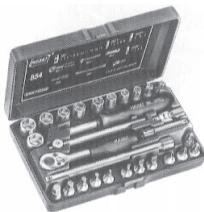
Hex Socket Set Screws - Cup Point (Continued from previous page.)

DIA., Threads per Inch and Key Size	Over- all Lgth.	SPAENAUR No.		PKG QTY.
		UNC	UNF	
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	-	
	1"	HK358-1100	-	
	1-1/4"	HK358-1101	-	
1/2" (.500") 13 UNC 20 UNF 1/4" Key	1-1/2"	HK358-1102	-	50
	3/8"	HK358-1104	-	
	1/2"	HK358-1105	HK358-1190	
	5/8"	HK358-1106	-	
	3/4"	HK358-1107	HK358-1191	
	7/8"	HK358-1108	-	
	1"	HK358-1109	HK358-1192	
	1-1/4"	HK358-1110	-	
	1-1/2"	HK358-1111	-	
	1-3/4"	HK358-1112	-	
2"	HK358-1113	-	25	
	2-1/2"	HK358-1114		-
	3"	HK358-1115		-

DIA., Threads per Inch and Key Size	Over- all Lgth.	SPAENAUR No.		PKG QTY.
		UNC	UNF	
5/8" (.625") 11 UNC 18 UNF 5/16" Key	1/2"	HK358-1116	-	100
	5/8"	HK358-1117	HK358-1193	
	3/4"	HK358-1118	-	
	1"	HK358-1119	HK358-1194	
	1-1/4"	HK358-1120	-	
	1-1/2"	HK358-1121	-	
	2"	HK358-1123	-	
	2-1/2"	HK358-1124	-	
	3"	HK358-1125	-	
	3/4" (.750") 10 UNC 3/8" Key	5/8"	HK358-1126	
3/4"		HK358-1127	-	
1"		HK358-1128	-	
1-1/4"		HK358-1129	-	
1-1/2"		HK358-1130	-	
1-3/4"		HK358-1131	-	
2"		HK358-1132	-	
2-1/2"		HK358-1133	-	
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 Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

See a Wide Variety of Top of the Line Hazet Tools on Pages N2-N47



SPAENAUR No. 991-229
(HAZET No. 854)

1/4
inch

-with Screwdriver Bits-

30 parts

187 x 125 x 39 mm

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

CATALOG 14

SPAENAUR

B194

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

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Hex Socket Set Screws - HOLO-KNURL® Point

COARSE AND FINE THREAD SERIES

HEAT TREATED ALLOY STEEL • UNIFIED 3A THREAD FIT

MEETS ASME B18.3

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

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.		PKG QTY.
		UNC	UNF	
#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.		PKG QTY.
		UNC	UNF	
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	
5/16" (.312") 18 UNC 24 UNF 5/32" Key	3/4"	HK358-1411	-	100
	1/4"	HK358-1412	-	
	5/16"	HK358-1413	HK358-1437	
	3/8"	HK358-1414	HK358-1438	
	1/2"	HK358-1415	-	
3/8" (.375") 16 UNC 24 UNF 3/16" Key	3/4"	HK358-1417	-	100
	1	HK358-1418	-	
	3/8"	HK358-1419	HK358-1440	
1/2" (.500") 13 UNC 20 UNF 1/4" Key	1/2"	HK358-1420	HK358-1441	100
	3/4"	HK358-1421	-	
	5/8"	HK358-1423	-	
	1"	HK358-1426	-	
1"	5/8"	HK358-1424	-	50
	3/4"	HK358-1425	-	

For more Hex Socket Set Screws see Pages B34-B243, B248-B252



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 SPAENAUER 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.



Page
A52

ASSORTMENT **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.)



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.)

B

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
Contact Sales Desk For Package Quantities		

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.**

CATALOG 14.07 SPAENAUR



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		Screw Dia.	Thread Lengths	
	Min.	Max.		Min.	Max.
#2	0.62	0.80	7/16"	1.38	2.17
#3	0.62	0.83	1/2"	1.50	2.38
#4	0.75	0.99	5/8"	1.75	2.82
#5	0.75	1.00	3/4"	2.00	3.25
#6	0.75	1.05	7/8"	2.25	3.69
#8	0.88	1.19	1"	2.50	4.12
#10	0.88	1.27	1-1/8"	2.82	4.65
1/4"	1.00	1.50	1-1/4"	3.12	5.09
5/16"	1.12	1.71	1-3/8"	3.44	5.65
3/8"	1.25	1.94	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 SPAENAUER 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-A90-1M	
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	

• Thermal Black Oxide Finish

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.

Inch

Pouce



Socket Head Cap Screws

Vis à tête à six pans creux



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.)

B

FINE THREAD (U.N.F.) (S.A.E.)

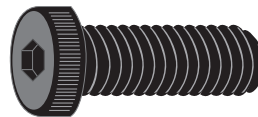
Continued from previous page.

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	HX-281	363-297							
1-1/2	HX-282	363-357							
1-3/4		HX-325		363-402	363-475				
2	HX-283	HX-336	363-426		363-455				
2-1/2	363-413	HX-316							
2-3/4		363-450							
3	363-411	HX-326		363-384	363-451				
3-1/4		363-495							
3-1/2							363-453		
4				363-425		363-483			363-A09-1T
4-1/2							363-525		
5					363-476			363-514	
6					363-477				
6-1/2					363-A18-1Y				
7					363-479				363-443
7-1/2					363-480				
8					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-A23-1T	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

CATALOG 14.07 SPAENAUR

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B

ALLOY STEEL

Not Plated FLAT HEAD

82° Head Angle.



**FOR HIGH-STRENGTH,
FLUSH-SURFACE
FASTENING
WITH MAXIMUM
HEAD CONTACT.**

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 SPAENAUER NUMBERS LISTED BELOW								
3/16	363-358	363-422							
1/4	363-362	HX-200	HX-338	HX-203	363-313	363-315	363-314		
5/16		363-324							
3/8	363-382	HX-201	HX-343	363-A06-1Y	HX-337		HX-215	HX-220	
1/2	363-370	HX-202	363-309	HX-205	HX-208	HX-211	HX-216	HX-221	363-344
5/8			HX-339	HX-206	HX-209		HX-217	HX-222	HX-319
3/4		HX-341	363-310	HX-207	HX-210	HX-212	HX-218	HX-223	
1		363-445	363-311	363-312	HX-313	HX-213	363-A13-1W	HX-224	HX-320
1-1/4					363-414	HX-214	363-351	HX-225	
1-1/2							363-392	363-397	HX-226
1-3/4							363-470		HX-227
2									HX-228
2-1/2								363-463	363-523
3									363-524

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

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	363-A17-1P									
1/2	HX-229	HX-290	363-320							
5/8	HX-230									
3/4	HX-231	HX-291	HX-235	363-380	363-299		363-394			
1	HX-232	HX-292	HX-236	HX-327		HX-241	HX-342	363-506		
1-1/4	HX-233	HX-293	HX-237		363-381	HX-242	363-296	363-352		363-354
1-1/2	HX-234		HX-238	HX-284		HX-243	363-440	HX-322		363-360
1-3/4			HX-239			363-416		363-361		
2	363-391		HX-240		363-298	HX-244	HX-335	363-353	363-319	363-375
2-1/4	363-341					363-355		363-371		
2-1/2	363-415		363-348		363-343	HX-245	363-504	363-372		363-456
2-3/4	363-528							363-316		
3			363-516			HX-246		363-A11-1T		363-405
3-1/4						363-536				
3-1/2			363-474			363-491				
4			363-510			363-490				363-467
5			363-517							
5-1/2								363-447		
6						363-318				
6-1/2								363-448		363-468
7										363-496
8										363-530

Larger Diameters — 363-513 1"-8 UNC x 3" Long PKG QTY. 10

SPAENAUER CATALOG 14.07

Inch

Pouce



Socket Head Cap Screws

Vis à tête à six pans creux

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		

**ALLOY
STEEL**

Not Plated

BUTTON HEAD



B

**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**

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

Thread Class 2A or 3A Fit - Our Option.

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

CATALOG 14
SPAENAUR

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

B201



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											
3/16	370-C07-1Y		370-082		370-C29-1A						
1/4	370-443	370-444	370-C36-1T	370-003	370-C73-1N						
					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							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							
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									370-094	370-447
5									370-100 (PKG QTY. 10)	

■ 316 Stainless Steel (PKG QTY. 10) *370-449 316 Stainless Steel

Inch

Pouce



Socket Head Cap Screws

Vis à tête à six pans creux

**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 <i>SPAENAU</i> 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 <i>SPAENAU</i> 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

CATALOG 14

SPAENAU

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

B203



**ALLOY
STEEL**

Not Plated

MATERIAL: Alloy Steel Heat Treated HRC 39-45.

Screw Spec. to ASME B18.3 / ASTM A574

Class 3A Thread Fit Standard

with
PELLETIZED

**NYLON
LOCKING
INSERT**

For pellet location (N) - See data below.

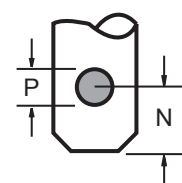
SELF-LOCKING threaded parts with nylon pellet or strip are self-locking; nylon is resilient, reusable; causes positive locking action (plus metal-to-metal engagement of the mating threads). Nylon inserts act as a wedge, creating a counter-thrust when deformed. Plastic memory strives to regain original 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.



Locking Insert



The Pellet Material is:

TYPE 6/6 NYLON

(N) Pellet Location:

Tolerance: ±1/2 of Thread Pitch

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

Inch

Pouce



Socket Head Cap Screws

Vis à tête à six pans creux

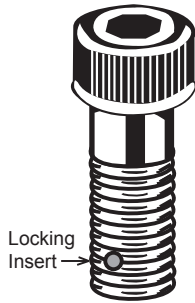
ALLOY STEEL

Not Plated

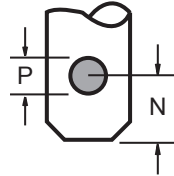
MATERIAL: Alloy Steel Heat Treated HRC 39-45.

Screw spec. to ASME B18.3 / ASTM A574

Class 3A Thread Fit Standard

Locking
Insert

with
**PELLETIZED
NYLON
LOCKING
INSERT**



The Pellet Material is:
TYPE 6/6 NYLON

For pellet location (N) and
additional data see preceding
page B204.

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

Locking
Insert

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

CATALOG 14.07

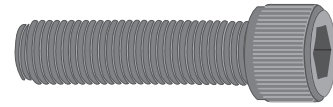
SPAENAUR

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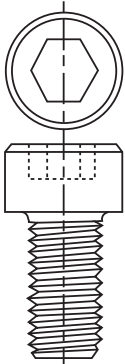
B205



MOULDED 6/6 NYLON
(Natural Colour) **HEX SOCKET CAP SCREW**



B



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 SPAENAUER 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	
2"						374-015			PKG QTY. 25
	PKG QTY. 100					PKG QTY. 50			

PELLETIZED BUTTON HEAD HEX SOCKET
Boulons de précision à tête creuse «pelletized»

ALLOY STEEL
(Not Plated)

with *PELLETIZED*

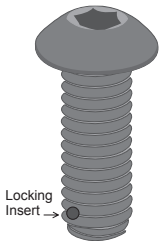
NYLON LOCKING INSERT

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.

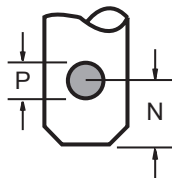
The Pellet Material is:
TYPE 6/6 NYLON

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



Hex-Socket BUTTON HEAD



Inch Sizes	COARSE THREAD					FINE THREAD			
	4-40	6-32	8-32	10-24	1/4"-20	5/16"-18	3/8"-16	1/2"-13	10-32
Length									
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



ALLOY STEEL

NOT PLATED

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**



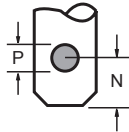
WITH PELLETIZED NYLON LOCKING INSERT

For pellet location (N) and general information see data below and chart on 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.

Socket
FLAT HEAD



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

Socket Head Shoulder Bolts

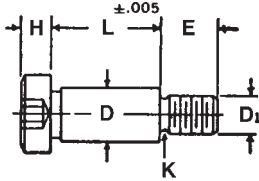
Vis à épaulement à tête creuse



Inch

Pouce

B



“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.		Shoulder Dia.	Shoulder Length	U.N.C. Thread	SPAENAUR Nos.	
			STEEL	STAINLESS				STEEL	STAINLESS
1/4" 1/8" Key	1/4"	10-24	364-074	—	1/2" 1/4" Key	1/2"	3/8-16	364-021	364-826
	3/8"	10-24	364-022	364-A06-1P		5/8"	3/8-16	364-019	364-827
	1/2"	10-24	HX-289SB	364-A01-1K		3/4"	3/8-16	364-017	364-A12-1T
	5/8"	10-24	HX-312SB	364-802		1"	3/8-16	364-038	364-829
	3/4"	10-24	HX-330SB	364-A13-1K		1-1/4"	3/8-16	364-039	364-A11-1N
	1"	10-24	364-A02-1W	364-804		1-1/2"	3/8-16	364-020	364-831
	1-1/4"	10-24	364-014	364-805		1-3/4"	3/8-16	364-040	364-832
	1-1/2"	10-24	364-015	364-A15-1M		2"	3/8-16	364-016	364-833
	1-3/4"	10-24	364-086	—		2-1/4"	3/8-16	364-041	—
	2"	10-24	364-084	—		2-1/2"	3/8-16	364-042	—
5/16" 5/32" Key	2-1/2"	10-24	364-090	—	2-3/4"	3/8-16	364-043	—	
	5/16"	1/4-20	364-093	—	3"	3/8-16	364-044	—	
	3/8"	1/4-20	364-023	364-807	3-1/4"	3/8-16	364-045	—	
	1/2"	1/4-20	HX-297SB	364-808	3-1/2"	3/8-16	364-046	—	
	5/8"	1/4-20	HX-331SB	364-809	4"	3/8-16	364-047	—	
	3/4"	1/4-20	HX-298SB	364-A14-1W	4-1/2"	3/8-16	364-048	—	
	7/8"	1/4-20	—	364-811	5"	3/8-16	364-049	—	
	1"	1/4-20	HX-286SB	364-A03-1M	5/8" 5/16" Key	3/4"	1/2-13	364-076	—
	1-1/4"	1/4-20	HX-332SB	364-A04-1X		1"	1/2-13	364-077	—
	1-1/2"	1/4-20	364-024	364-814		1-1/4"	1/2-13	364-050	—
1-3/4"	1/4-20	364-025	364-A05-1A	1-1/2"		1/2-13	364-051	—	
2"	1/4-20	364-026	364-816	1-3/4"		1/2-13	364-052	—	
1/4"	5/16-18	364-092	—	2"		1/2-13	364-053	—	
3/8"	5/16-18	364-018	364-817	2-1/4"		1/2-13	364-054	—	
1/2"	5/16-18	364-012	364-818	2-1/2"		1/2-13	364-055	—	
5/8"	5/16-18	HX-311SB	364-A10-1C	2-3/4"		1/2-13	364-056	—	
3/4"	5/16-18	HX-333SB	364-A07-1Y	3"		1/2-13	364-057	—	
1"	5/16-18	HX-334SB	364-A08-1C	3-1/4"	1/2-13	364-058	—		
1-1/4"	5/16-18	364-027	364-822	3-1/2"	1/2-13	364-059	—		
1-1/2"	5/16-18	364-028	364-823	4"	1/2-13	364-060	—		
1-3/4"	5/16-18	364-029	364-A09-1N	4-1/2"	1/2-13	364-061	—		
2"	5/16-18	364-030	364-825	5"	1/2-13	364-062	—		
2-1/4"	5/16-18	364-031	—	Continues on Next Page					
2-1/2"	5/16-18	364-032	—	See B209 for larger shoulder diameters and technical information on Inch Hex Socket Shoulder Screws.					
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	—						

CATALOG 14.03
2019/04/18

SPAENAUR

B208

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Contact Sales Desk For Package Quantities

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Inch

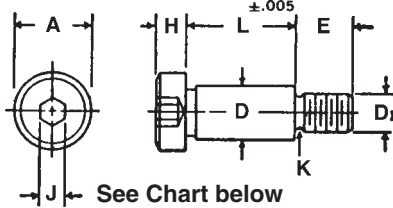
Pouce



Socket Head Shoulder Bolts

Vis à épaulement à tête creuse

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.

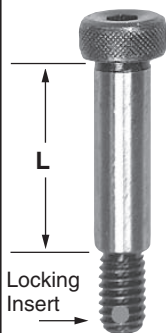
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“STRIPPER BOLTS”

Shoulder Dia.	Shoulder Length	U.N.C. Thread	SPAENAUR Nos. STEEL	Shoulder Dia.	Shoulder Length	U.N.C. Thread	SPAENAUR Nos. STEEL
3/4" ^{3/8"} Key	3/4"	5/8-11	364-079	Cont'd.... 3/4" ^{3/8"} Key	4"	5/8-11	364-071
	1"	5/8-11	364-088		4-1/2"	5/8-11	364-072
	1-1/4"	5/8-11	364-080		5"	5/8-11	364-073
	1-1/2"	5/8-11	364-063	1" ^{1/2"} Key	1-1/2"	3/4-10	364-082
	1-3/4"	5/8-11	364-064		2"	3/4-10	364-085
	2"	5/8-11	364-065		2-1/2"	3/4-10	364-075
	2-1/4"	5/8-11	364-066		3"	3/4-10	364-087
	2-1/2"	5/8-11	364-067		3-1/2"	3/4-10	364-083
	2-3/4"	5/8-11	364-068		4"	3/4-10	364-078
	3"	5/8-11	364-069		1 1/4" ^{5/8"} Key	2-1/4"	7/8-9
3-1/2"	5/8-11	364-070	3"	7/8-9		364-081	

Hex Socket Shoulder Screw Technical Information

Nom. Size or Basic Shoulder Dia.	D Shoulder Diameter		A Head Diameter		H Head Height		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.		
	Max	Min	Max.	Min.	Max.	Min.								
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
Shoulder Length	ORDER BY SPAENAUR NUMBER			
	L			
	3/8	359-200		359-207
	1/2		359-204	359-208
	5/8	359-201	359-205	359-209
3/4	359-202	359-206	359-210	
1	359-203			359-212

For Pellet Location and additional info. see page B204.

Contact Sales Desk For Package Quantities

CATALOG 14

SPAENAUR

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B209

12 Point Flanged Head Cap Screws

Vis d'assemblage à embase à 12 pointes

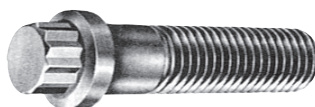


Inch

Pouce

ALLOY STEEL

IFI - 115
1986



12 point Flanged Head COUNTR-BOR SCREWS

- Wrenches Tighter!
- Wrenches Faster!
- Smooth Appearance!
- And Saves You Money on Assembly Time!

DOUBLE HEAT TREATED
BLACK SATIN FINISH

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.

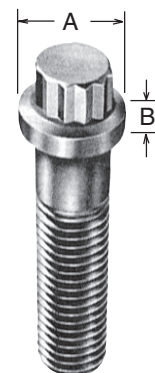
COARSE THREAD UNRC-3A

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 SPAENAUER 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				

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 affect these ratings.



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 SPAENAUER 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

Dia. of Thread	"A" Flange Dia.		"B" Flange Thickness	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"

Contact Sales Desk For Package Quantities

B210

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SPAENAUER CATALOG 14



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	1-1/2"	25		
	CS-170		2"			
	CS-172		1"			
	CS-182	3/8"-16	1-1/4"	20		
	CS-183		1-1/2"			
	CS-184		1-1/4"			
	CS-200	7/16"-14	1-1/4"	15		
	CS-203		2"			
	CS-205		2-1/2"			
	CS-212	1/2"-13	3/4"	10		
	CS-215		1-1/4"			
	CS-216		1-1/2"			
	CS-218		2"			
	Fine	CS-304	1/4"-28	2"		30
		CS-309	7/8"			
CS-311		5/16"-24	1-1/4"	25		
CS-312			1-1/2"			
CS-321		3/8"-24	1"	20		
CS-329		7/16"-20	1-1/4"			
CS-334		1/2"-20	1-1/2"	10		
CS-338			2-1/2"			

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	25	
	367-034	M5 x 8mm		
	367-B05-1Y	M5 x 12mm		
	367-038	M5 x 20mm	20	
	367-039	M5 x 25mm		
	367-055	M6 x 10mm		
	367-B07-1N	M6 x 16mm	15	
	367-059	M6 x 25mm		
	367-075	M8 x 12mm		
	367-077	M8 x 20mm	10	
	367-079	M8 x 30mm		
	367-100	M10 x 16mm		
	367-102	M10 x 25mm	30	
	367-132	M12 x 30mm		
	367-134	M12 x 40mm		
Partially Threaded Hex Socket Cap Screws	367-014	M3 x 25mm	25	B214
	367-023	M4 x 30mm		
	367-025	M4 x 40mm		
	367-040	M5 x 30mm		
	367-061	M6 x 35mm		
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.)



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 SPAENAUER 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.

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)

Continues on Next Page

For Holo-Krome Socket Head Cap Screws
see Page B190

**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.	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 SPAENAUER 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

NEW

Vibra-TITE®

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

See Page B4



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 SPAENAUER 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



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.)

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

NEW



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

See Page B4



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.)

B



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 SPAENAUER 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										367-198ZP

* Yellow Zinc Plated

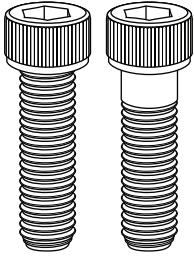


Partially Threaded Zinc Plated (unless noted with a symbol)

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 SPAENAUER 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						

* Yellow Zinc Plated

Contact Sales Desk For Package Quantities

**DIN 7984**

Thread length will vary with diameter and length of screw.

Orders will be supplied Full or Partial Thread at our option

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.)

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 SPAENAUER 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
ASSORTIMENT**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**



DIN 6912

Thread length will vary with diameter and length of screw.

Orders will be supplied Full or Partial Thread at our option

Property Class 8.8 Plain Finish

ISO Regular COARSE Metric Thread

LOW HEAD STYLE with

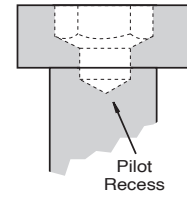
pilot recess for wrench key

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.)

B

DIAM.	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 SPAENAUER NUMBERS LISTED BELOW											
6	366-1165											
8	366-1162	366-1176	366-1189					*366-1191YZ ▲366-1178YZ				
10	366-1167	366-1177	366-1190	366-1206				■366-1162YZ ◆366-1181YZ				
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



Property Class 10.9 Plain Finish

DIN 912

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

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

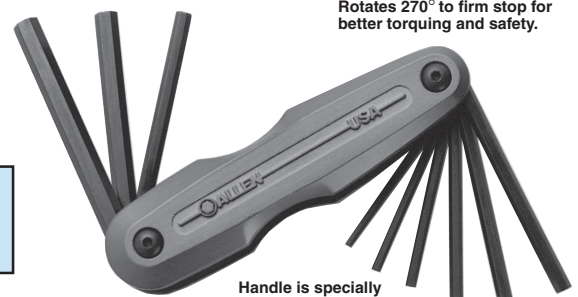
Contains 9 bits in inch sizes:
5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4.

AW56349

Contains 7 bits in metric sizes: 1.5, 2, 2.5, 3, 4, 5, 6 mm.

Wrenches open from the top and bottom, for easy access and use.

Rotates 270° to firm stop for better torquing and safety.



Rounded edges never cut hands or catch clothing.

Handle is specially contoured for better feel and control



DIN 912

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

Orders will be supplied Full or Partial Thread at our option

Property Class 10.9
Plain Finish

See Tools Section P for Inch and Metric Hex Keys, Bits and Drivers

ISO Regular
COARSE Metric Thread

Alloy Steel, Heat-treated

Tensile Strength **1040 N/mm²** min. (Approx. 150,000 PSI - For Reference Only.)

B



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 SPAENAUER 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 SPAENAUER 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



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

**24 Sizes
500 Pieces**

METRIC

**Hex Socket Cap Screws
Property Class 12.9**

Alloy Steel Not Plated

Contains Full and Partial
Metric Regular Coarse Threads

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



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

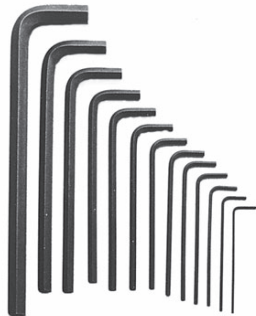
Alloy Steel, Heat-treated

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 SPAENAU R 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



B222

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

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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



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 SPAENAUER 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	SPAENAUER No.	
160		366-1321
240	366-1314	

Contact Sales Desk For Package Quantities



Property Class 12.9 Zinc and Yellow Zinc Plated

DIN 912
This Standard has been replaced. Please see Catalog Page R21 for more information.

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

Contact Sales Desk For Package Quantities



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.)

Orders will be supplied Full or Partial Thread at our option



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						366-1298	

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	366-477	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**
ASSORTIMENT

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.)



DIN 912		This Standard has been replaced. Please see Catalog Page R21 for more information.				A2 Stainless Steel					ISO Regular COARSE	
Fully Threaded		Metric Thread										
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	373-108											
4	373-109	373-B25-1M	373-122				PKG QTY. 20		PKG QTY. 10		PKG QTY. 1	
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									373-072	373-081	373-087	373-102
55	PKG QTY. 50									373-188	373-198	373-103
60										373-106	373-199	

DIN 912		This Standard has been replaced. Please see Catalog Page R21 for more information.				A2 Stainless Steel					ISO Regular COARSE	
Partially Threaded		Metric Thread										
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			373-093									
30			373-126	373-011	373-020		PKG QTY. 20		PKG QTY. 10		PKG QTY. 1	
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			
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	



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 SPAENAUER 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



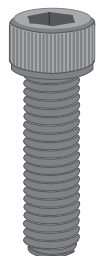
DIA.	M5	M6	M8	M10	M12	M16	M20
Pitch	0.80	1.00	1.25	1.50	1.75	2.00	2.50
Key	4 mm	5 mm	6 mm	8 mm	10 mm	14 mm	17 mm
Length	ORDER BY SPAENAUER NUMBERS LISTED BELOW						
40		373-429					
45				373-B28-1P			
50							
55			373-407		373-470		
60							
80					373-424		
90			373-408	373-415			

Contact Sales Desk
For Package Quantities

Nylon 6/6 Natural Finish

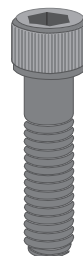
ISO Regular COARSE Metric Thread

Fully Threaded



DIA.	M8	M10	M12
Pitch	1.25	1.50	1.75
Key	6 mm	8 mm	10 mm
Length	ORDER BY SPAENAUER 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 SPAENAUER NUMBERS LISTED BELOW		
50	375-004	375-010	
60	375-005	375-011	375-017
80	375-006	375-012	375-018

Contact Sales Desk For Package Quantities



ISO 7380

Property Class 10.9 – Plain Finish BUTTON HEAD

ISO Regular COARSE Metric Thread

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							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
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	

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
ASSORTIMENT 805-477

ISO 7380
Not Plated

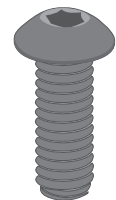
24 Sizes - 720 Pieces
Regular Coarse Thread

METRIC BUTTON HEAD
Hex Socket Cap Screws

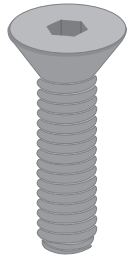
Property Class 10.9 Steel

REGULAR SIZE grey enamelled steel drawer
will fit Slide Racks shown page A2.

Shipping weight: 6.8 kg (15 lbs.)



For the complete assortment contents turn to A54



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	
ORDER BY SPAENAUER NUMBERS LISTED BELOW														
Length	366-394													
4														
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	

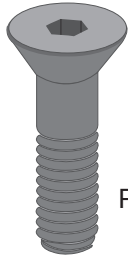
~ An approximate DIN

See following page for longer lengths, partially threaded

Additional Property Class and Finishes of DIN 7991 – Fully Threaded

Spaenaur No.	Diameter	Pitch	Key	Finish	PKG QTY.
366-464YZ	M3	0.50	6 mm	Yellow Zinc Plated	50
366-W05-1M	M4	0.70	12 mm	Yellow Zinc Plated	50
366-575YZ	M4	0.70	16 mm	Yellow Zinc Plated	50
366-523YZ	M8	1.25	30 mm	Yellow Zinc Plated	50
367-390	M20	2.50	50 mm	Property Class 8.8 Plain	10
366-501ZP	M5	0.80	12 mm	Zinc Plated	50
366-507ZP	M5	0.80	30 mm	Zinc Plated	50
366-512ZP	M6	1.00	16 mm	Zinc Plated	50
366-514ZP	M6	1.00	20 mm	Zinc Plated	50
366-526ZP	M10	1.50	16 mm	Zinc Plated	50
366-531ZP	M10	1.50	40 mm	Zinc Plated	50
366-539ZP	M12	1.75	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.



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	

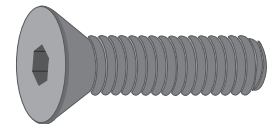
Although 10.9 Material is the same as Socket Head Cap Screws, Button and Flat Heads are not as strong.

Contact Sales Desk For Package Quantities

ASSORTMENT
ASSORTIMENT **805-538**

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

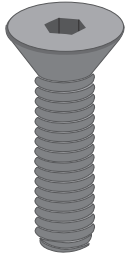
Not Plated

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.



Spaeaur No.	Thread Size	Bolt Length	Qty.	Page
366-566	M3 x 0.50	10mm	50	B230
366-568		16mm		
366-571		25mm		
366-574	M4 x 0.70	12mm	25	
366-577		20mm		
366-579		30mm		
366-581	M5 x 0.80	40mm	20	
366-583		8mm		
366-501		12mm		
366-505	M5 x 0.80	20mm	25	
366-506		25mm		
366-507		30mm		
366-509	M6 x 1.00	10mm	25	
366-512		16mm		
366-515		25mm		
366-517	M8 x 1.25	35mm	20	
366-519		16mm		
366-520		18mm		
366-521	M8 x 1.25	20mm	20	
366-523		30mm		
366-526		16mm		
366-529	M10 x 1.50	25mm	15	



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 SPAENAUER 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



ALLOY STEEL

Plain Finish

Heat treated

Metric SHOULDER SCREWS

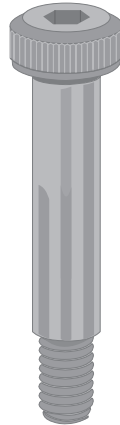
Made to **ISO 7379**

Metric Regular (Coarse) Thread

Property Class 12.9

Note: Plain or Knurled Head furnished at our option, as available.

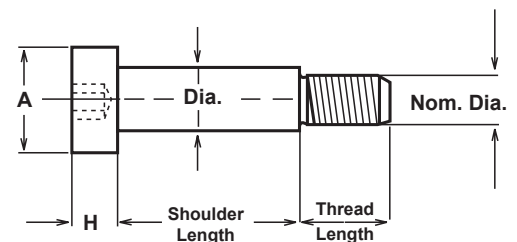
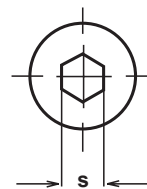
(Shown in millimetres)			
SHOULDER DIAMETER	SHOULDER LENGTH	Thread Length	SPAENAUR No.
*6 (3 mm Key) Thread M5 x .8 mm	10	9.5	365-001
	12		365-002
	16		365-003
	20		365-004
	25		365-005
	30		365-006
	40		365-007
	50		365-008
8 (4 mm Key) Thread M6 x 1.0 mm	12	11	365-009
	16		365-010
	20		365-011
	25		365-012
	30		365-013
	35		365-064
	40		365-014
	45		365-065
	50		365-015
	55		365-066
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
*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		


PKG QTY.
10

ALL SIZES EXCEPT 24 mm SHOULDER DIA. PKG QTY. 1

(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
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
	H	mm	4.5	5.5	7	8	9	10	14
NOMINAL THREAD DIA.		mm	M5	M6	M8	M10	M10	M12	M16
PITCH		mm	.8	1	1.25	1.5	1.5	1.75	2
THREAD LENGTH		mm	9.5	11	13	16	16.40	18	22
S (Hex Key Size)		mm	3	4	5	6	6	8	10

Screws and more **Metric** Hex Socket Shoulder Screws Property Class 8.8; see B214 - B218.

Hex Socket Set Screws

Vis de pression à tête creuse hexagonale



Inch

Pouce

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

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 SPAENAUER 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 SPAENAUER NUMBERS LISTED BELOW												
3/16	SS-43	SS-47			SS-188	SS-117							
1/4	SS-44	SS-48		478-039	478-E19-1W	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

SPAENAUER
CATALOG 14.05
2019/12/18

B234

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

For STAINLESS STEEL See page B238

Inch

Pouce

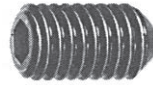


Hex Socket Set Screws / Assortment

Vis de pression à tête creuse hexagonale

**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"	60	
	SS-40	#8-32	3/8"	75	
	SS-42		3/8"	75	
	SS-43	#10-24	3/16"	100	
	SS-45		5/16"	100	
	SS-48	#10-32	1/4"	50	
	478-E19-1W	1/4"-20	3/8"	50	
	SS-51		3/8"	35	
	SS-53	5/16"-18	5/16"	40	
	SS-54		3/8"	35	
	SS-56	3/8"-16	3/8"	30	
	478-E10-1M		1/2"	25	
SS-58	1/2"-13	1/2"	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"	4	P7	
	SS-66K	5/32"			
	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.)**

CATALOG 14.05
2019/12/18
SPAENAUR

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

B235

Hex Socket Set Screws

Vis de pression à tête creuse hexagonale



Inch

Pouce

ALLOY STEEL



**KNURLED POINT
UNC & UNF**

ASME B18.3

Heat Treated
Not Plated

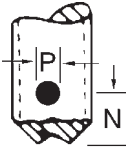
Threads Class 3A, UNC & UNF as shown, in accordance with ASME B1.1

B

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/Oval/Flat

Cup Point
shown

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

**OV
AL
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 plastic
container with hinged lid.
Size: 1" x 2-3/4" x 4-1/2"



For the complete assortment contents turn to A56

B236

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

For STAINLESS STEEL See page B238

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CATALOG 14

SPAENAUR



STEEL

Not Plated



CUP POINT

ASME B18.3

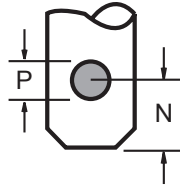
Threads Class 2A or 3A (our option),
UNC & UNF as shown

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: $\pm 1/2$ 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

Hex Socket Set Screws

Vis de pression à tête creuse hexagonale



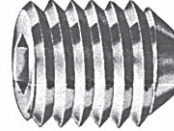
Inch

Pouce

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	479-D09-1C		SS-2022		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.)



CATALOG 14.03
2019/04/18

SPAENAUR

B238

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Inch

Pouce



Hex Socket Set Screws

Vis de pression à tête creuse hexagonale

BRASS Hex Socket Set Screws

(Not Plated)

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.



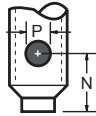
DIA.	6	8	10	1/4"	5/16"	3/8"	1/2"
THD.	32 UNC	32 UNC	24 UNC	20 UNC	18 UNC	16 UNC	13 UNC
LGTH.	ORDER BY SPAENAUR NUMBERS LISTED BELOW						
1/4	480-001	480-007	480-002	480-012			
5/16				480-003	480-004		
3/8						480-005	
1/2			480-013	480-A01-1T	480-008	480-006	480-009
3/4						480-A02-1K	
1				480-011			

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



Hex Socket Set Screws



Knurled Point

Spaenaur No.	Mfr. No.	Thread Size	Length	Material	Finish	PKG QTY
478-E11-1X	107235	#4-40	3/16"	Alloy Steel	Plain Black Thermal Oxide	50
478-E12-1A	114173	#8-32	1/4"	Alloy Steel	Plain Black Thermal Oxide	50
478-E13-1A	119453	#8-32	1/4"	Alloy Steel	Plain Black Thermal Oxide	50
478-E14-1Y	120550	#10-32	3/16"	Alloy Steel	Plain Black Thermal Oxide	50

CATALOG 14.11 SPAENAUR

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

B239

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Hex Socket Set Screws

Vis de pression à tête creuse hexagonale



Inch

Pouce

BRASS TIP - BOUT DE LAITON

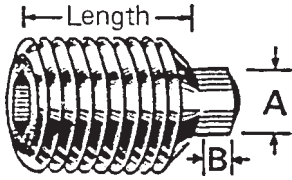
SET SCREW - Alloy Steel

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.



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"	488-001	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



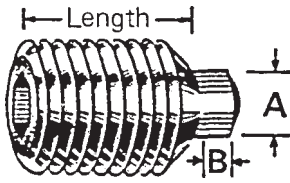
SPAENAUR
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 2019/12/18

B240

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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.

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 SPAENAUER 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 SPAENAUER 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

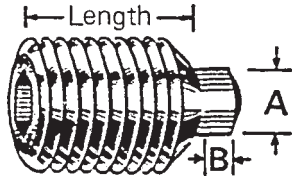
Hex Socket Set Screws

Vis de pression à tête creuse hexagonale



Inch

Pouce



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.

B

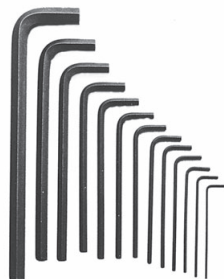
DIA.	2	4	6	8	10	10	1/4"	1/4"	5/16"
THD.	56 UNC	40 UNC	32 UNC	32 UNC	24 UNC	32 UNF	20 UNC	28 UNF	18 UNC
A	1/32"	1/16"	1/16"	3/32"	3/32"	3/32"	1/8"	1/8"	3/16"
B	1/32"	1/32"	1/32"	3/64"	3/64"	3/64"	1/16"	1/16"	3/32"
Lgth.	ORDER BY SPAENAUR NUMBERS LISTED BELOW								
1/8"			488-852						
3/16"	488-805								
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



CATALOG 14

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B242

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Inch

Pouce



Hex Socket Set Screws

Vis de pression à tête creuse hexagonale

ALLOY STEEL

Heat-Treated Not Plated

Inch Sizes

HEX SOCKET SET SCREWS

UNC & UNF

ASME B18.3

with "Half-Dog" Point



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 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 enameled 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

For Inch Hex Keys See Section 'P'

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B243

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CATALOG 14

SPAENAUR



SQUARE HEAD SET SCREWS

STEEL CASE HARDENED - Not Plated

CUP POINT / UNC



ASME B18.6.2

UNC

UNIFIED STANDARD
THREAD - CLASS 2A FIT

B

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 **B-582**
ASSORTIMENT

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
3/8"-16	SS-11	1-1/2"	20
	SS-12	1/2"	30
	SS-13	3/4"	25
	SS-14	1"	30
7/16"-14	SS-16	1-1/2"	20
	SS-18	3/4"	25
	SS-19	1"	20
1/2"-13	SS-21	1-1/2"	10
	SS-23	3/4"	15
	SS-24	1"	15
	SS-27	2"	6

CATALOG 14

SPAENAUR

Inch

Pouce



Slotted Set Screws

Vis de pression à tête fendue

NYLON

(Natural Colour)

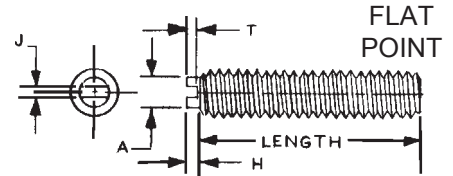
Type 6/6
UL94V2

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



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"

SPAENAUR No.	Thread	Length
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"

SPAENAUR No.	Thread	Length
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
CONE POINT 	1/2"		470-001	SS-77					50
	5/8"			SS-267					50
	3/16"				SS-102				50
	5/16"			SS-99					50
	3/8"						725		50
FLAT POINT 	1/2"				SS-272				50
	5/8"					1073	790		50
	7/8"					1074			50
OVAL POINT 	5/8"				1179				50
	7/8"				SS-80				50
OVAL POINT 	5/16"								50
								470-003 470-004 (Zinc Plated)	50

CATALOG 14

SPAENAUR

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

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B

NYLON HEX SOCKET SET SCREWS
Moulded NYLON Components

NYLON
(Natural Colour)

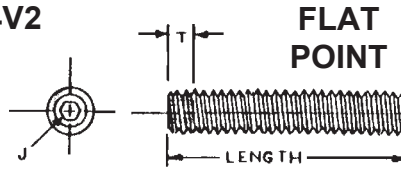
Inch Sizes



Type 6/6
UL 94V2

Tough, Corrosion/Vibration Resistant

Dielectric Strength: 600 V/mil 10¹⁴ OHM-CM



FLAT POINT

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

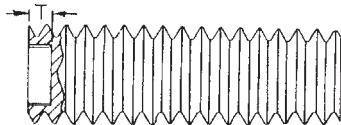
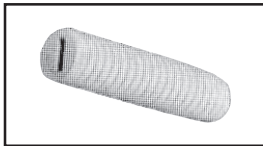
SPAENAUR No.	Thread Size x Lgth.	PKG QTY.
477-222	8-32 x 7/16"	100
477-223	8-32 x 1/2"	100
477-224	8-32 x 5/8"	100
477-225	8-32 x 3/4"	100
477-226	10-24 x 1/8"	100
477-227	10-24 x 3/16"	100
477-228	10-24 x 1/4"	100
477-229	10-24 x 5/16"	100
477-230	10-24 x 3/8"	100
477-231	10-24 x 1/2"	100
477-232	10-24 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

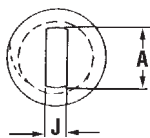
SLOTTED NYLON GRUB SCREWS

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"

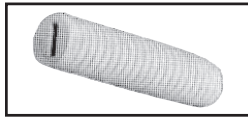
PKG QTY. 100

CATALOG 14

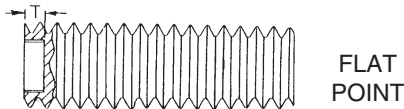
SPAENAUR



METRIC
SLOTTED
GRUB SCREWS



NYLON
UL 94V2
(Natural Colour)



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 <small>Zinc Plated</small>	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.

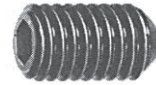
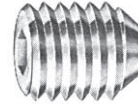


Heat-Treated Alloy

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****B**

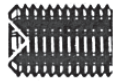
DIAMETER in mm	M1.4	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	
PITCH in mm	0.30	0.40	0.45	0.50	0.70	0.80	1.00	1.25	1.50	1.75	
KEY SIZE in mm	0.71	0.89	1.3	1.5	2	2.5	3	4	5	6	
LENGTH in mm	ORDER BY SPAENAUER NUMBERS LISTED BELOW										
	3	481-002	481-006 481-C01-1W		481-011 481-012	481-019					*481-900 with pelletized Nylon Insert
4											
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 SPAENAUER 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.



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****DIN 916**

METRIC
Hex Socket Set
Screws with Keys
15 Sizes - 150 Pieces

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**



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 SPAENAUER NUMBERS LISTED BELOW								
		481-241							
3		481-242	481-C10-1P						
4									
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

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

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 SPAENAUER 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		

* 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	SPAENAUER 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

SPAENAUER CATALOG 14


**FLAT
POINT**

45H STEEL

 Heat-Treated Alloy
Not Plated

DIN 913

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

METRIC "REGULAR" (COARSE) THREAD

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	481-345 481-346	481-357	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			481-368	481-369	481-380	481-392	481-405	481-418
5		481-337			481-347	481-358	481-370	481-381	481-393	481-406
6		481-338	481-347	481-358	481-368	481-380	481-392	481-405		
8		481-339	481-348	481-C11-1Y	481-369	481-380		481-406		481-418
10		481-340	481-349	481-360	481-370	481-381	481-392	481-407		481-419
12		481-341	481-350	481-361	481-371	481-382	481-393	481-405		481-418
16		481-342	481-351	481-362	481-372	481-383	481-394	481-406		481-419
20		481-343	481-352	481-363	481-C03-1K	481-384	481-395	481-407		481-420
25		481-344	481-353	481-364	481-374	481-385	481-396	481-408		481-421
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						481-391	481-402	481-415		481-427
70		A2 Stainless Steel 482-112 M8 x 30 mm					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	488-412	488-428
10 mm	488-403	488-419	488-406	488-422	488-409	488-425	488-413	488-429
12 mm			488-407	488-423	488-410	488-426	488-414	488-430
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

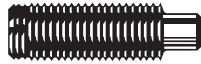
**PKG QTY.
50**



B

Heat-Treated Not Plated

ALLOY STEEL



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 Grade 45H

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



STEEL

Not Plated

METRIC



**SQUARE HEAD
SET SCREWS**

with Short Dog Point

Property
Class **8.8**

DIN 479

Regular (COARSE) Metric Thread

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 SPAENAUER 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 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





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.

B

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	—
5/16"	3"	371-101	—
	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
3/8"	2-1/2"	371-171	—
	3"	371-174	371-147
	3/4"	—	371-148
	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
7/16"	2-1/2"	371-117	—
	3"	371-118	371-154
	1"	371-119	371-155
	1-1/2"	371-120	371-157
1/2"	2"	371-121	371-158
	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	—
9/16"	3"	371-126	371-164
	1"	371-127	371-165
	1-1/2"	371-133	—
	2"	371-191	—
5/8"	3"	371-128	—
	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
5/16"	1-3/4"	—	371-179	—
	2"	—	371-007	371-403
	3/4"	—	371-001	—
	1"	—	371-008	371-026
	1-1/2"	—	371-009	371-027
3/8"	2"	—	371-010	371-028
	2-1/2"	—	—	371-029
	1"	—	371-011	371-030
	1-1/4"	—	371-181	—
	1-1/2"	—	371-012	371-031
	1-3/4"	—	371-183	—
1/2"	2"	—	371-002	371-032
	2-1/2"	—	371-190	371-033
	3"	—	371-003	—
	1"	—	371-184	371-034
	1-1/2"	—	371-182	371-035
	1-3/4"	—	371-013	—
5/8"	2"	—	371-014	371-036
	2-1/2"	—	371-015	371-037
	3"	—	371-016	371-038
	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

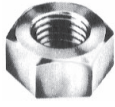
CATALOG 14.03
2019/04/18

SPAENAUR

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	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

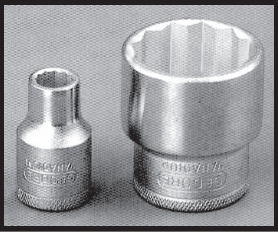
1/4" DRIVE 6 POINT SOCKETS
 Chrome Plated
 Vanadium Steel

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 


Note: Taps No. 1, No. 2 & No. 3 are commonly referred to as TAPER, PLUG AND BOTTOMING TAPS

TAPS - HAND OR MACHINE

CLASS 2

SPIRAL FLUTE TAP 

See pages P50 to P73 for more Taps & Dies.



SPLIT ROUND DIES

ORDER BY SPAENAUR NUMBERS LISTED BELOW

NOMINAL DIAMETER	THREADS		#1 STARTING TAP	#2 MIDDLE TAP	#3 FINISHING TAP	SPIRAL TAP	SQUARE A/F	LENGTH OF THREAD	OVERALL LENGTH	DIES	DIE O.D.
	BSW	BSF									
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	1-1/2"
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"

CATALOG 14.09 SPAENAUR

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



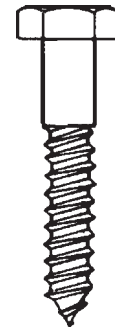
SPAENAUR No.	WHITWORTH SIZE	LENGTH (mm)
876-1049	1/8"	138
876-1050	3/16"	158
876-1051	1/4"	185
876-1052	5/16"	210
876-1053	3/8"	245
876-1054	7/16"	280

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 LAG SCREWS
(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

SPAENAUR CATALOG 14.10

Inch

Pouce



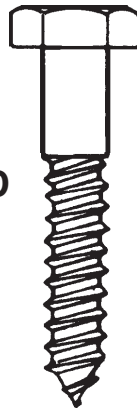
Hex Head Lag Screws

Tire-fonds à tête hexagonale

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

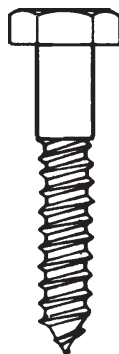
1-1/2"	038-148					
2"			038-147	038-151		
2-1/2"			038-002			
3"	038-149			038-150		
3-1/2"			038-154			
4"	038-145	038-161			038-H04-1C	
4-1/2"			038-156			
5"	038-146		038-159			
5-1/2"			038-158			
6"			038-160	038-152		

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

CATALOG 14.09

SPAENAUR

See page B73 for RSS Lags screws
See page C118 for Lag Screw Expansion Shields

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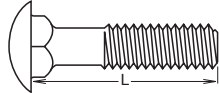
B257

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STEEL

LOW CARBON
NOT PLATED



Partially Threaded

ROUND HEAD SQUARE NECK CARRIAGE BOLTS

MINIMUM THREAD LENGTH
Up to 6" long: Twice dia. plus 1/4"
Over 6" long: Twice dia. plus 1/2"

Orders will be supplied Full or Partial Thread at our option

ASTM A307

ASME B18.5

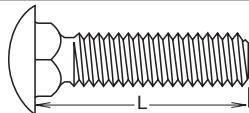
THREAD CLASS 2A FIT
LENGTH IS MEASURED UNDER HEAD TO END

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 SPAENAUER 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	◆014-004			
4-1/2					◆014-K44-1Y			
5		◆014-015	◆014-028	◆014-039	◆CB-46	◆014-K65-1X		
6		◆014-016	◆014-030	CB-27	◆CB-47	014-K31-1P		
6-1/2		◆014-066				◆014-K59-1T		
7				CB-28		014-K50-1K		
8				◆CB-29				
9						CB-38	◆014-K19-1C	
10						014-K41-1X		
11				◆014-083		CB-39		
12						014-K47-1T		
						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 SPAENAUER 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	014-K74-1K		
2		014-K17-1P	014-020					
2-1/4			014-183	014-K08-1C				
2-1/2		014-K67-1P	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

* Partially Threaded

Inch

Pouce



Carriage Bolts

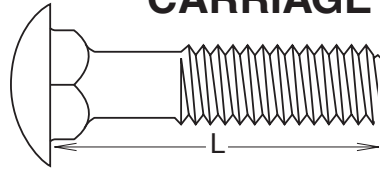
Boulons de carrosserie

STEEL GRADE 5

NOT PLATED

BOLT LENGTH IS MEASURED UNDER HEAD TO END.

ROUND HEAD SQUARE NECK CARRIAGE BOLTS



Partially
Threaded

ASTM A307

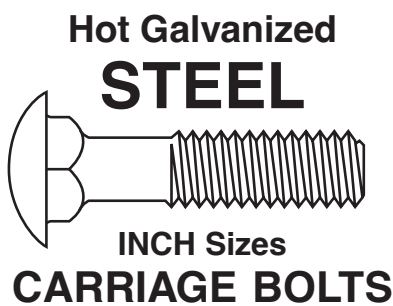
ASME B18.5

THREAD CLASS 2A FIT

Minimum Thread Length
Up to 6" long: Twice dia. plus 1/4"
Over 6" long: Twice dia. plus 1/2"

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		◆014-247	◆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-K70-1Y	◆014-K63-1W	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-K66-1A	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 (Fully Threaded) ◆ Fully Threaded



Hot Galvanized STEEL INCH Sizes CARRIAGE BOLTS

Partially Threaded

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.)

DIAM.	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-K61-1T	◆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

CATALOG 14.09

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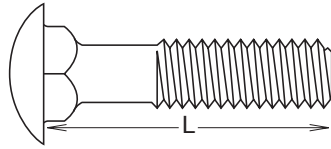
B259



STAINLESS STEEL 18-8

Head & Body Dimensions to ANSI/ASME B18.5
Rockwell Hardness Min. B70

ROUND HEAD SQUARE NECK CARRIAGE BOLTS



Partially Threaded

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.

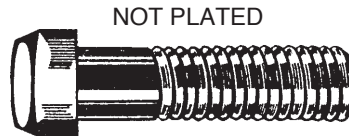
DIA.	1/4"	5/16"	3/8"	1/2"	5/8"
THD.	20	18	16	13	11
LGTH.	ORDER BY SPAENAUER NUMBERS LISTED BELOW				
1/2	◆014-800				
3/4	◆014-801	◆014-K29-1P	◆014-821		
1	014-K21-1C	◆014-K28-1A	◆014-K33-1C	◆014-833	
1-1/4	◆014-K27-1X	◆014-813	◆014-K34-1N		
1-1/2	◆014-804	◆014-814	◆014-824	◆014-K10-1P	
1-3/4	◆014-805	◆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	◆014-K03-1X
4	◆014-K24-1K		◆014-K22-1N	◆014-839	014-K43-1P
4-1/2			◆014-K23-1T	◆014-840	
5					
6			◆014-832	◆014-K35-1T	
Contact Sales Desk For Package Quantities					

For Nuts See Pages C2 to C15

◆ Fully Threaded

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.



Partially Threaded

ASTM A307

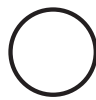
MINIMUM THREAD LENGTH:
Up to 6" long: Twice dia. plus 1/4"
Over 6" long: Twice dia. plus 1/2"

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 SPAENAUER 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	042-H09-1A	◆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		

Contact Sales Desk For Package Quantities

◆ Fully Threaded

For Nuts See Pages C2 to C15

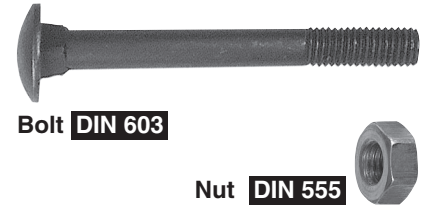


DIN 603-Mu
**ROUND HEAD
SQUARE NECK
Carriage Bolt**
with Hex Nut

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**

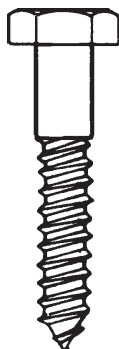
Nut **DIN 555**

B

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



B

METRIC

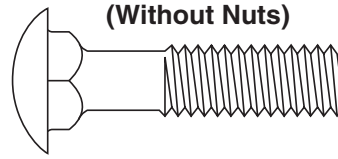
Carriage Bolts

DIN 603

Regular (Coarse)
METRIC THREAD

18-8 STAINLESS STEEL

ROUND HEAD SQUARE NECK

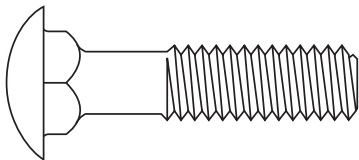


(Without Nuts)
For Metric Hex Nuts, see pages C9 to C15.

Di. 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
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

BRASS



DIN 15237

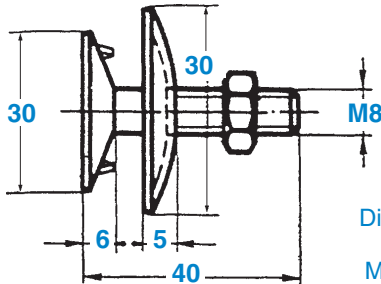
SPAENAUR No. 018-100

Metric

Elevator Bolt with Domed Washer and Hex Nut

Property Class 4.6 Steel, Zinc Plated

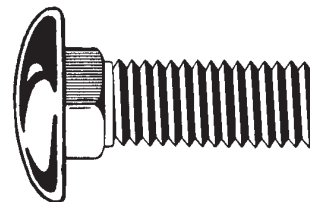
Regular (COARSE) Metric Thread M8 x 1.25 mm Pitch



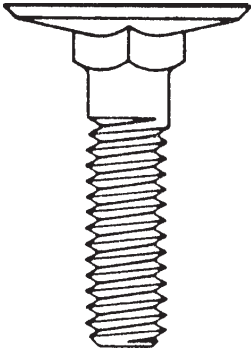
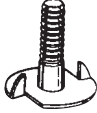
All Dimensions in Millimetres

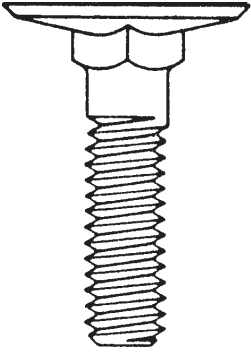
PKG QTY. 50

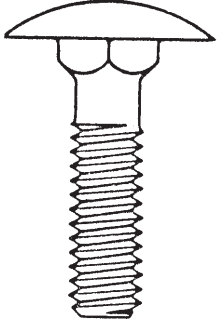
See Page B124 for Carriage Bolts



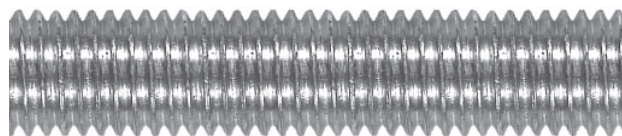
SPAENAUR CATALOG 14

Steel ELEVATOR BOLTS Not Plated		INCH SIZES			
		DIA.	1/4"	5/16"	3/8"
	THD.	20 UNC	18 UNC	16 UNC	
	Minimum Head Dia.	0.969"	1.188"	1.312"	
LARGE HEAD COARSE THREAD (UNC)—2A ASME B18.5 ◆018-007 Zinc Plated		ORDER BY SPAENAU No.'s BELOW			
 ▲018-101 Fanged Black Finish		LGTH.			
		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					
		DIA.	1/4"	5/16"	3/8"
	THD.	20 UNC	18 UNC	16 UNC	
	Minimum Head Dia.	0.813"	1.000"		
LARGE HEAD COARSE THREAD (UNC)—2A ASME B18.5 Head & Body Dimensions to ANSI/ASME B18.5		ORDER BY SPAENAU No.'s BELOW			
		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

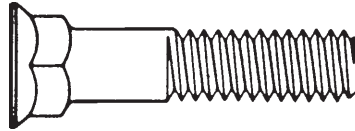
Steel STEP BOLTS Not Plated					
		DIA.	1/4"	5/16"	3/8"
	THD.	20 UNC	18 UNC	16 UNC	
	Minimum Head Dia.	0.813"	1.000"		
COARSE THREAD (UNC)—2A ASME B18.5		ORDER BY SPAENAU No.'s BELOW			
		1-1/4"		018-P03-1A	50
		1-1/2"	761	B-499	50
		2"		B-700	50
		3-1/2"		B-701	50

See Page B286 for Fully Threaded Rods



STEEL Plow Bolts

No. 3 REGULAR HEAD



ASME B18.9
U.N.C. COARSE THREAD

NOT PLATED

80-deg. Round, Countersunk, Square Neck

B

S.A.E. GRADE 5					S.A.E. GRADE 8
C1035-1041 MEDIUM CARBON STEEL					ALLOY STEEL HEAT TREATED
DIA.	3/8"	7/16"	1/2"	5/8"	5/8"
THD.	16	14	13	11	11
LENGTH	ORDER BY SPAENAUER 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

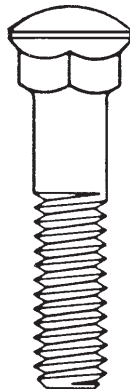
SCRAPER (BLADE) BOLTS

No. 3D DOME HEAD

Tensile strength
160,000 lbs. per sq. in.

U.N.C. COARSE THREAD

NOT PLATED



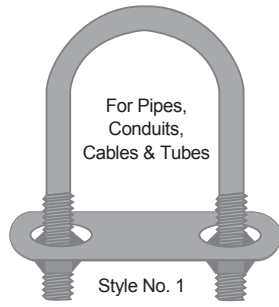
DIA.	5/8"	3/4"	7/8"	1"
THD.	11	10	9	8
LENGTH	ORDER BY SPAENAUER NUMBERS LISTED BELOW			
2"	PB-100	PB-110		
2-1/4"	PB-101	PB-111	PB-121	
2-1/2"	PB-102	PB-112	PB-122	
2-3/4"		PB-113	PB-123	PB-131
3"	PB-104	PB-114	PB-124	PB-132
3-1/4"		PB-115	PB-125	PB-133
3-1/2"	PB-106	PB-116	PB-126	PB-134
3-3/4"		PB-117	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



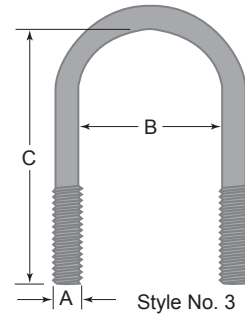
CATALOG 14

SPAENAUER



U-BOLTS
WITH HEX NUTS
& STRAP PLATES

Low Carbon STEEL
BRIGHT ZINC PLATED

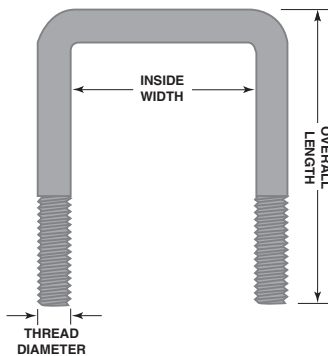


A Thread Size	B Width Inside	C Length Inside	Width Centre to Centre	For Nominal Pipe Size	ORDER BY SPAENAUR NUMBERS LISTED BELOW			
					Style No. 1 With Plate & Hex. Nuts	Style No. 3 Bolt Only	Strap Plate Only	Hex. Nut Only ASME B18.2.2
1/4"-20	3/4"	2-1/4"	1"	3/8"	030-003	030-001	030-002	B-91
1/4"-20	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

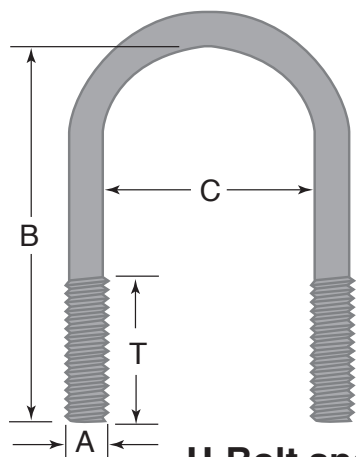


SPAENAUR No.	Thread Dia.	Inside Width	O/A Lgth.
030-050	3/8"-16	2"	3"
030-051	3/8"-16	2"	5"
030-052	3/8"-16	2"	7"
030-053	3/8"-16	4"	3"
030-054	3/8"-16	4"	5"
030-055	3/8"-16	4"	7"
030-056	3/8"-16	6"	5"
030-057	3/8"-16	6"	7"
030-058	3/8"-16	6"	9"

—For Reference Only—
Dimensions of Welded and Seamless Steel Pipe

Nominal Pipe Size	Outside Diameter	Nominal Pipe Size	Outside Diameter
1/4"	.540"	1-1/2"	1.90"
3/8"	.675"	2"	2.375"
1/2"	.840"	2-1/2"	2.875"
3/4"	1.05"	3"	3.500"
1"	1.315"	3-1/2"	4.000"
1-1/4"	1.66"	4"	4.500"

B



**U-BOLTS
&
STRAP PLATES
18-8
STAINLESS STEEL**



U-Bolt and Strap Plate must be ordered separately.

PKG QTY.10
*PKG QTY. 1

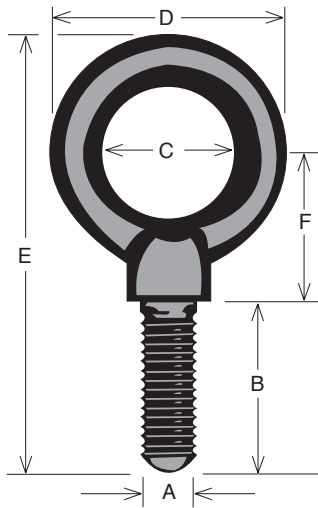
U-BOLTS						STRAP PLATES
Bolt Only SPAENAUR No.	A Thread Size	C Width Inside	B Length Inside	T Approx. Thread Lgth.	For Nominal Pipe Size	Strap Only SPAENAUR No.
—	1/4-20	9/16"	1-1/4"	3/4"	1/4"	030-850
030-800	1/4-20	3/4"	1-1/4"	5/8"	3/8"	030-851
030-801	1/4-20	3/4"	2-1/4"	1-1/2"	3/8"	030-851
030-802	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.

SHOULDER TYPE EYE BOLTS

FORGED / 1030 STEEL / HEAT TREATED Self-Coloured



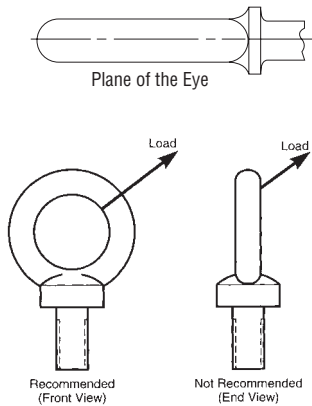
ASME B18.15

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.



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

▲ No. 024-044 Hot Galvanized Finish. 1" Thread Length.

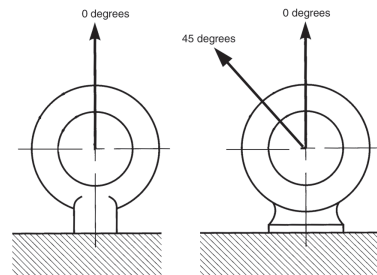
Self-coloured finish except:

● 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"	500
5/16"	900
3/8"	1,400
7/16"	2,000
1/2"	2,600
9/16"	3,200
5/8"	4,000
3/4"	6,000
7/8"	7,000
1"	9,000
1-1/8"	12,000
1-1/4"	15,000
1-1/2"	21,000
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)

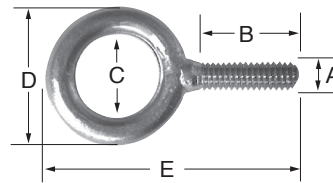
Nominal Size	Rated Cap. in lbs. 0 Degrees	Rated Cap. in lbs. 45 Degrees
1/4"	500	125
5/16"	900	225
3/8"	1,400	350
7/16"	2,000	500
1/2"	2,600	650
9/16"	3,200	800
5/8"	4,000	1,000
3/4"	6,000	1,500
7/8"	7,000	1,750
1"	9,000	2,250
1-1/8"	12,000	3,000
1-1/4"	15,000	3,750
1-1/2"	21,000	5,250
1-3/4"	24,700	8,250
2"	32,500	101,910

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.

B

304 STAINLESS STEEL EYE BOLTS, Forged Shoulder Type

Plain Type

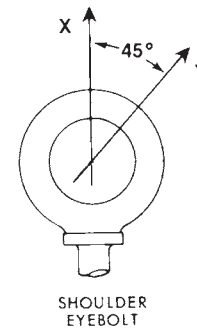


SPAENAUR No. PLAIN TYPE	A Thread Size UNC-2A	B Length of Shank	C		D	E Overall Length	Approx. Lbs. per 100 Pcs.	Rated Capacity Lbs.	PKG QTY.
			I.D.	O.D.					
024-894	1/2"-13	1-1/2"	1-3/16"	2-1/8"	4"	42.0	2150	1	

(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		Overall Length Min./Max.	Max. Safe Working Load Lbs.	PKG QTY.
			I.D.	O.D.			
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.

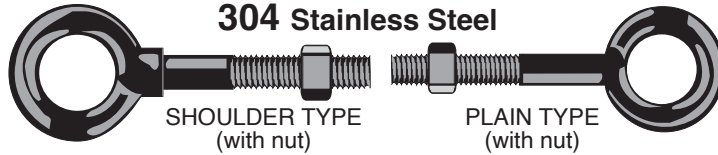
CATALOG 14.05
2019/12/18

SPAENAUR

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
- Marine
- Chemical
- Sewage Disposal
- Pulp & Paper
- Petroleum
- Nuclear
- Aircraft

Supplied with standard UNC-2A threads and heavy hex nuts.

SPAENAUR No.		Diameter & Length of Shank	Eye I.D.	Eye O.D.	Min. Thread Length	Approx. Lbs. per 100 Pcs.	Rated Capacity Lbs.
PLAIN TYPE (with nut)	SHOULDER TYPE (with nut)						
024-800	024-810	3/8" x 4-1/2"	3/4"	1-1/2"	1-1/2"	25	1160
—	*024-811	1/2" x 3-1/4"	1"	2"	1-1/2"	41	2150
024-T02-1X	—	1/2"-13 x 4-1/2"	1"	2"	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

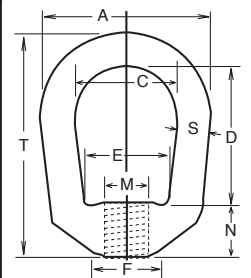
PKG QTY. 1

*316 Stainless Steel

Drop-forged Eye Nuts

1035 Steel Self-coloured Finish and 316 Stainless Steel Plain Finish

SPAENAUR No's.	TAP SIZES	SPECIFICATION IN INCHES									MAX. LOAD TONS
		1035 Steel	Stainless Steel 316	STD. M	N	A	C	D	E	F	
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

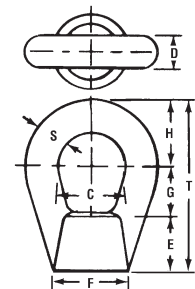
C1035 Steel

Self-coloured Finish

PKG QTY. 1

*Non Threaded

SPAENAUR No.	SPECIFICATIONS IN INCHES									MAX. LOAD TONS
	C	S	D	F	E	G	H	T		
*024-011	1-1/2"	3/4"	3/4"	1-3/4"	1-1/4"	1-1/8"	1-1/2"	3-7/8"	5.3	
*024-010	1-3/4"	1"	1"	2-1/4"	1-5/8"	1-1/4"	1-7/8"	4-3/4"	9.4	
024-056	1-3/4"	1"	1"	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"	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"	3-1/8"	2-1/8"	1-3/4"	2-5/8"	6-1/2"	17.8	



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.

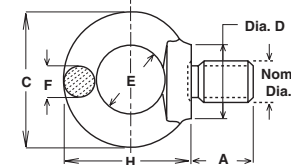


Regular
(COARSE) Metric
Thread

Drop Forged Eye Bolts

CONFORMING TO **DIN 580**

C15 Carbon Steel - Heat Treated
Plain Finish



▲Not to DIN *Calculated Pull Capacity

B

SPAENAUR No.	NOMINAL DIAMETER mm	PITCH mm	*Max. Pull capacity in kg		DATA IN mm						PKG QTY.
			for 1 Bolt	total for 2 Bolts	A	C	D	E	F	H	
* 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

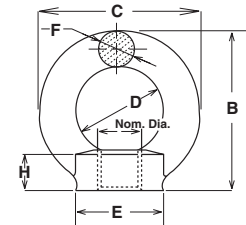


Regular
(COARSE) Metric
Thread

Drop Forged Eye Nuts

CONFORMING TO **DIN 582**

C15 Carbon Steel - Heat Treated
Plain Finish



* Calculated Pull Capacity

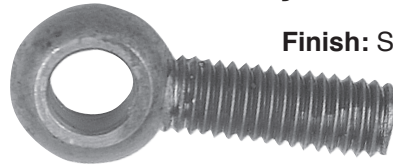
SPAENAUR No.	NOMINAL DIAMETER mm	PITCH mm	*Max. Pull Capacity in kg		DATA IN mm						PKG QTY.
			for 1 Nut	total for 2 Nuts	B	C	D	E	F	H	
* 026-028	M6	1.00	70	50	18	36	20	20	8	8.5	10
026-011	M8	1.25	140	95	36	36	20	20	8	8.5	10
026-011ZP (Zinc Pltd.)	M8	1.25	140	95	36	36	20	20	8	8.5	10
026-012	M10	1.50	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/mm².

ROD END EYEBOLTS

Threaded and drilled
or
Furnished in 'Blanks'

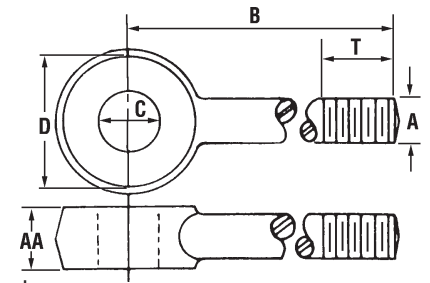
Sizes to meet your needs!



Finish: Self-colour

SUGGESTED APPLICATIONS

- Space adjustment in machinery
- Tie-downs
- Swing bolts for heavy covers
- Linkage adjustment



C1030-C1035 Steel Forged							C1030-C1035 Steel Forged-Blanks						
SPAENAUR No.	A	B	T	C	D	AA	SPAENAUR No.	A	D	AA	App. Wgt. in lbs. per 100.		PKG QTY.
	U.N.C. Thread Size	Ctr. of Eye to End	Approx. Thread Length	Hole Size	Head Dia.	Head Thick		Shank Dia.	Head Dia.	Head Thick.	Blanks Only	Fully Mach.	
With Threaded Shank and Drilled Head							BLANKS: Shanks Not Threaded, Heads Not Drilled						
024-401	1/4"-20	1-1/4	1"	1/4"	.535"	9/32"	024-452	1/4"	11/16"	5/16"	2.7	10	
024-402		1-3/4"	1-1/4"		.535"	9/32"					3.7	10	
024-403		2-1/2"	2-1/4"		.535"	9/32"					4.2	10	
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"	024-452	5/16"	11/16"	5/16"	7	6.7	10
024-T46-1T		4"	3-5/8"	5/8"	5/16"	5/16"	024-405	5/8"	5/16"	11	10.7	5	
024-411	3/8"-16	1-1/2"	1-1/8"	3/8"	.750"	7/16"	024-408	3/8"	11/16"	7/16"	8	7.7	5
024-412		3"	2-1/2"		.750"	7/16"	13				12.7	5	
024-413		4-1/2"	4-1/8"		.750"	7/16"	16				15.7	5	
024-419	1/2"-13	1-5/16"	7/8"	1/2"	15/16"	9/16"	024-414	1/2"	15/16"	9/16"	17.6	5	
024-420		1-3/4"	1-5/16"		15/16"	9/16"					19	18.6	5
024-421		3-1/8"	2-9/16"		15/16"	9/16"					28	27.6	1
024-422		6"	3"		15/16"	9/16"					40	39.4	1
024-423		12"	6"		15/16"	9/16"					80	79.5	1
024-424		3-3/4"	3"		1-1/8"	1/2"					25.5	1	
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"	024-426	5/8"	1-3/16"	11/16"	40	38.5	1
024-430		6"	3"		11/16"	76	75.4				1		
024-431		12"	6"		11/16"	127	125				1		
024-436	3/4"-10	2"	1-5/16"	3/4"	1-7/16"	13/16"	024-433	3/4"	1-7/16"	13/16"	100	98.5	1
024-437		4-3/4"	4"		13/16"	110					108.5	1	
024-438		6"	3"		13/16"	109.5					1		
024-453		8"	6-1/2"		13/16"	187					185.5	1	
024-T54-1P		12"	6"		13/16"								
024-443	7/8"-9	2"	1-3/16"	7/8"	1-11/16"	15/16"	024-440	7/8"	1-11/16"	15/16"	120	118	1
024-444		6"	3"		15/16"	156	154				1		
024-445		12"	6"		15/16"	256	253				1		
024-449	1"-8	3"	2"	1"	2"	1"	024-446	1"	2"	1"	300	297	1
024-450		6"	3"		1"	352	349				1		
024-451		12"	6"		1"	424	421				1		

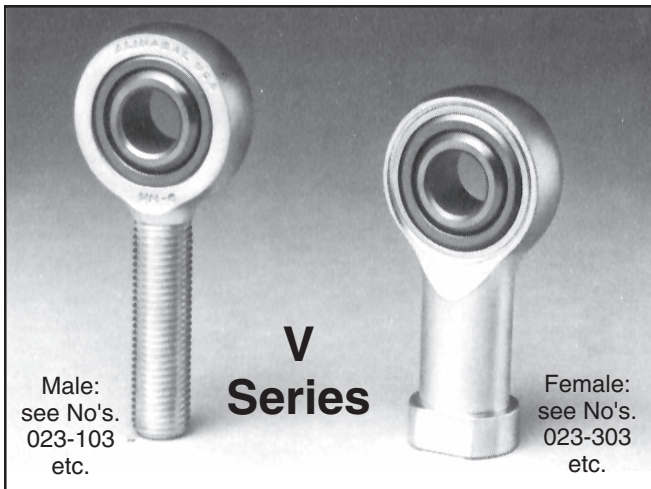
Standard Forging Tolerances.

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.

B

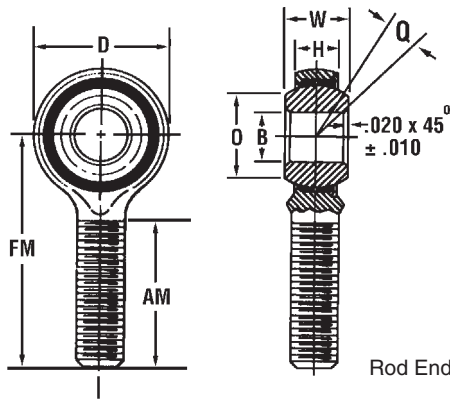
B



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.

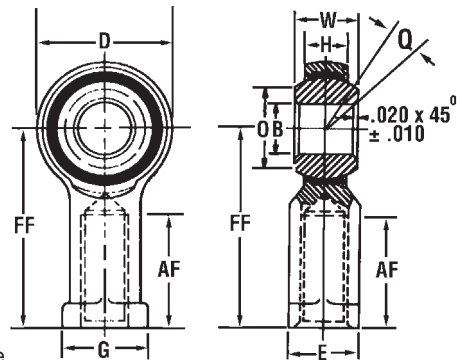
V Series rod ends have been found to fulfill the widest range of applications and are an excellent general purpose rod end.



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 Class UNF-2	B +0.025 -0.005	W ±0.005	H (Ref)	AM ±0.060	FM ±0.030	AF ±0.060	FF ±0.030	D ±0.010	G (Ref)	E (Ref)	O (Ref)	Ball Dia. (Ref)	Q (Ref)	Approx. Wt. (lbs.)	Ultimate (Radial) Static Load Rating (lbs.)	
Male	Female	Male	Female																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.

Inch

Eye Bolt Assemblies / Lag Screw Eyes / Screw Eye Bolts

Pouce

Ensembles de boulons à œil / Cèllets de tire-fond / Boulons à œil de vis



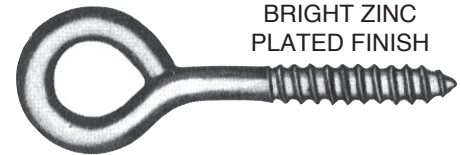
STEEL Bent Eye Bolts

ZINC PLATED
(Clear Chromate Finish)

Available as — Eye Bolts with Nuts,
Eye Bolts only and Nuts only.

EYE BOLTS with NUTS		EYE BOLTS ONLY		EYE BOLT DIMENSIONAL DATA					NUTS ONLY	
SPAENAUR No. (Bolt with Nut)	PKG QTY.	SPAENAUR No. (Bolt Only)	PKG QTY.	Thread	Dimensions are approximate.				SPAENAUR No. (Nut Only) ASME B18.2.2	PKG QTY.
					Shank Length	Thread Length	Overall Length	I.D. Eye		
EYB-1	10	024-063	50	10-24	2"	1-7/8"	2-3/4"	3/8"	155-P08-1T	100
EYB-23	10	024-023	50		2"	2"	2-3/4"	3/8"		
EYB-43	10	024-043	50		1-1/4"	1-1/8"	2"	3/8"		
024-046-A	10	024-045	50	1/4"-20	2-1/4"	2"	3"	3/8"	155-P06-1C	100
EYB-24B	10	024-060	50		1-1/2"	1-3/8"	2-1/2"	9/16"		
024-T55-1Y	10				1-7/8"	1-1/2"	2-5/8"	3/8"		
EYB-25A	10	024-T40-2X 024-T41-2A	50 50		2"	1-1/4"	3"	1/2"		
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"		
EYB-28	10	024-028 024-T45-1N	25 25		3-7/8"	3"	5"	1/2"		
EYB-29	10	024-029	25	3/8"-16	2-1/8"	2"	3-1/4"	1/2"	B-93	100
EYB-30	10	024-030	20		2-1/4"	2"	4"	1"		
EYB-31	10	024-031	20		3-1/4"	2-7/8"	5"	13/16"		
EYB-32	10	024-032	10		4-1/4"	2-3/4"	6"	1"		
					6-1/4"	3"	8"	1"		

STEEL Lag Screw Eyes



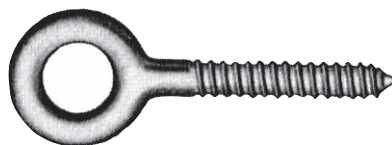
BRIGHT ZINC
PLATED FINISH

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



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"

SCREW EYE BOLTS

PKG QTY. 10

CATALOG 14.09 SPAENAUR

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

B273

STAINLESS STEEL WROUGHT EYE BOLTS

(without nuts)

304

Stainless Steel

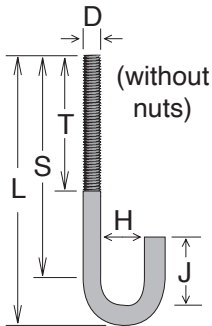


Not Recommended For Lifting

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

Material: STEEL, Bright Zinc Plated



(without nuts)

SPAENAUR No.	Thd. Dia. (D)	Thd. Lg. (T)	Hook Opp. (H)	O.A. Lg. (L)	Ins. Dpth. (J)	PKG QTY.	SPAENAUR No.	Thd. Dia. (D)	Thd. Lg. (T)	Hook Opp. (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	030-028	5/16"-18	2-1/2"	5/8"	5"	5/8"	10
030-021	12-24	1-1/4"	3/8"	2-1/8"	3/8"	50	030-029	5/16"-18	2-1/2"	5/8"	6"	5/8"	10
030-022	1/4"-20	1-1/2"	7/16"	2-5/16"	7/16"	25	030-030	5/16"-18	3-7/8"	5/8"	7"	7/8"	10
030-023	1/4"-20	2"	1/2"	4"	1/2"	25	030-031	3/8"-16	2-1/4"	5/8"	3-3/4"	5/8"	10
030-024	1/4"-20	2-1/2"	1/2"	5"	1/2"	25	030-032	3/8"-16	2-1/4"	5/8"	5"	7/8"	10
030-025	1/4"-20	2-1/2"	5/8"	6"	7/8"	25	030-033	3/8"-16	2-1/4"	5/8"	7"	7/8"	10
030-026	5/16"-18	2"	1/2"	3"	1/2"	10	030-034	1/2"-13	3"	1"	6"	1-1/2"	10
030-027	5/16"-18	2"	5/8"	4"	5/8"	10							



Hook Bolts

(without nuts)

Material: STEEL, Zinc Plated

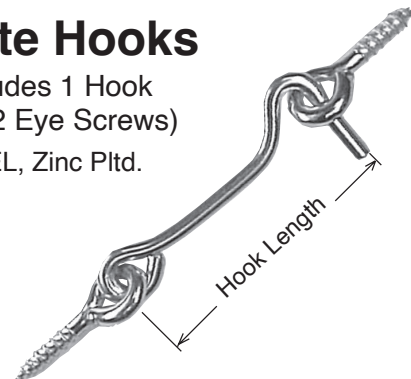
SPAENAUR No.	Thread Dia.	Thread Length	Hook Opening	Overall Length	Shank Length	PKG QTY.
024-003	8-32	7/8"	13/32"	1-5/8"	1-1/8"	50
024-T42-1P	10-24	1-1/8"	13/32"	2-1/4"	1-5/16"	50
024-005	12-24	1-3/8"	1/2"	2-3/16"	1-1/2"	50
024-006	1/4"-20	1-1/2"	1/2"	2-5/8"	1-7/8"	25
024-007	5/16"-18	2"	9/16"	3-1/2"	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

Spaenaur No.	Screw Gauge	Hook Length	Wire Dia.	PKG QTY.
024-069	#8	1-1/2"	0.135	100
024-061	#9	2"	0.177	50
024-064	#10	2-1/2"	0.162	25
024-T06-1C	#10	3"	0.177	25
024-070	#14	4"	0.192	10

Gate Hooks

(Includes 1 Hook and 2 Eye Screws)

STEEL, Zinc Pltd.



Inch

Screw Hooks & Eyes / Turnbuckles / Cup Hooks

Pouce

Crochets et œillets à vis / Tendeurs / Crochets à tasse

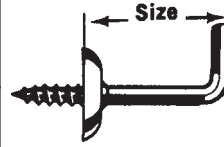
STEEL

BRASS



**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



**Solid Brass
SHOULDER HOOKS**

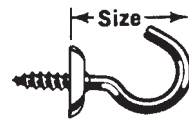
Base Firmly Attached

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



**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



**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.	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	
024-558	024-540	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	
			024-552	1/4-20	5-1/4	7-3/8	3	3/8	10	
024-559	024-541	024-547		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
024-560	024-542	024-548	024-554	5/16-18	6-1/4	8-7/8	3-5/8	1/2	10	
					3/8-16	7-1/2	10-5/8	4-3/8	3/4	10
					3/8-16	7-1/2	10-5/8	4-3/8	5/8	10
				3/8-16	7-1/2	10-5/8	4-3/8	3/4	10	

Above Nos. Include Turnbuckle Body.

CATALOG 14.11 SPAENAUR

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

B275

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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"

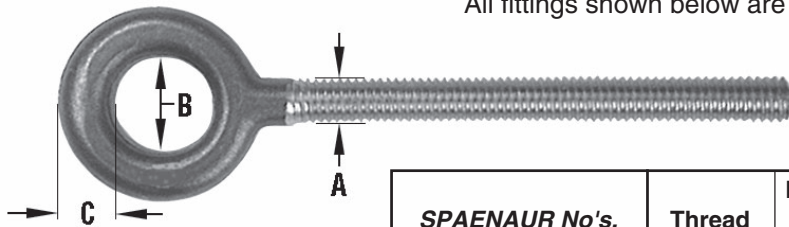
TURNBUCKLE BODY

with 1 right hand (RH) thread
and 1 left hand (LH) thread.

*316 Stainless Steel

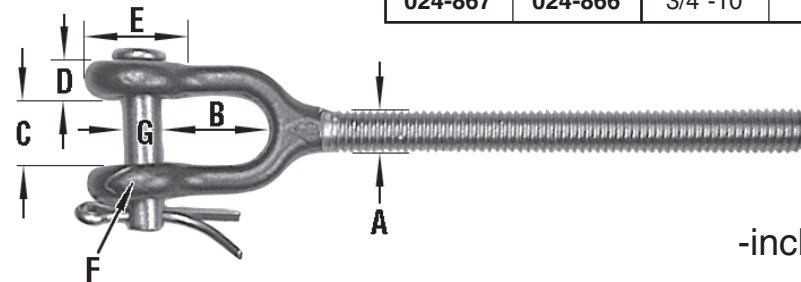
N.B. Be sure to order both Right and Left fittings to go with each Turnbuckle ordered.

All fittings shown below are for 6" take-up length turnbuckle body.



ROUND EYE

SPAENAUR No's.		Thread Dia. A	Minimum Shank Length	B	C	Rated Capacity
L.H. Thread	R.H. Thread					
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.
024-867	024-864	5/8"-11	5"	1-3/8"	9/16"	3200 lbs.
	024-866	3/4"-10	5"	1-1/2"	21/32"	5000 lbs.

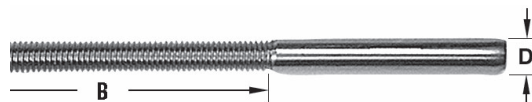


JAW

-includes Clevis and Cotter Pin.

SPAENAUR No's.		Thread Dia. A	Min. Shank Length	B	C	D	E	O/A Dia. F	Pin Dia. G	Rated Capacity
L.H. Thread	R.H. Thread									
*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.		Thread Dia. A	Minimum Thread Length B	Diameter D	Overall Length	Rated Capacity
L.H. Thread	R.H. Thread					
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

B

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

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)		Approx. Weight per 100 pieces		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.
					Rated Capacity kg	Rated Capacity lbs.	kg	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"		7-1/2"	998	2,200	30.0	66	
024-205		9"	3/4"	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"		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"		8-5/8"	3,266	7,200	88.9	196	
024-216		12"	1-5/16"	14-5/8"			140.6	310	
024-217		18"	20-5/8"	264.9			584		
024-218	1"-8	6"		9"	4,536	9,800	126.2	279	
024-219		12"	1-1/2"	15"			173.7	383	
024-220		18"	21"	265.7			566		

Note: All Turnbuckle 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	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)		Approx. Weight per 100 pieces	
							Rated Capacity kg	Rated Capacity lbs.	kg	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	

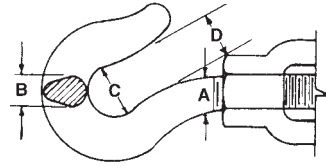
▲ Take-up length of turnbuckle fittings are referenced to total inside length of turnbuckle bodies when assembled.

CATALOG 14.09 SPAENAUR

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.

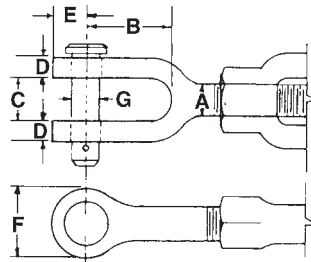
PKG QTY. 1

SPAENAUR No. Threaded		A Thread Size	▲ Take-up	B	C Nominal Size	D Throat Size	*Rated Capacity		Approx. Weight per 100 pieces	
LEFT Hand	RIGHT Hand						kg	lbs.	kg	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		A Thread Size	▲ Take-up	B	C Jaw Space	D	E	F Overall	G Pin Dia.	*Rated Capacity		Approx. Weight per 100 pieces	
LEFT Hand	RIGHT Hand									kg	lbs.	kg	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

THUMBSCREWS

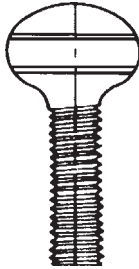
COLD FORGED

See page B281
for WING SCREWS

LOW CARBON STEEL

PKG QTY. 100

ZINC PLATED

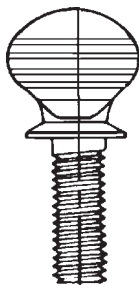


Without
Shoulder

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.

CATALOG 14

SPAENAUR



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

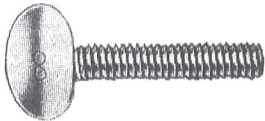
18-8 STAINLESS STEEL THUMBSCREWS



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 SPAENAUER 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

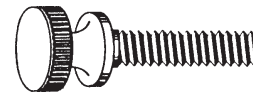
Without Shoulder



COARSE
THREAD

DIA.	1/4"-20	5/16"-18	3/8"-16
Thread Length	ORDER BY SPAENAUER 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 SPAENAUER 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

STEEL COLD FORGED WING SCREWS

YELLOW ZINC CHROMATE PLATED

Contact Sales Desk For Package Quantities



with **SHOULDER**

Riveted-on Head

Other Styles on page B279

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

• No Shoulder *1-13/32" Wing Spread

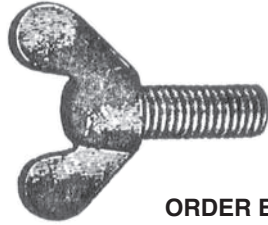
18-8 STAINLESS STEEL

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

MALLEABLE IRON

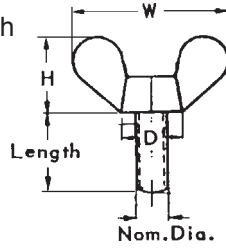
CAST BRASS

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

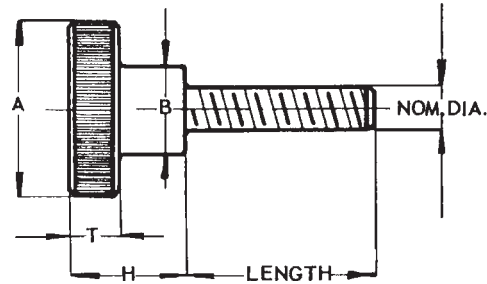
Knurled Thumbscrews Vis à tête moletée

ISO
 Regular (coarse)
 Thread

ISO METRIC

RAISED KNURLED HEAD SCREWS

CONFORMING TO **DIN 464** REGULAR PITCH



DATA IN mm

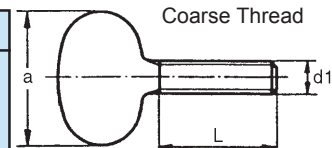
SIZE	NOMINAL DIAMETER				
	M3	M4	M5	M6	M8
A	12	16	20	24	30
B	6	8	10	12	16
T	2.5	3.5	4	5	6
H	7.5	9.5	11.5	15	18

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		

METRIC THUMBSCREWS

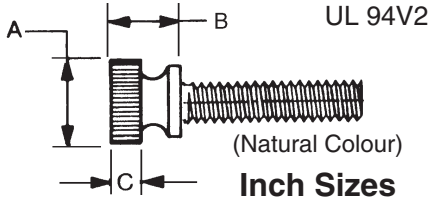
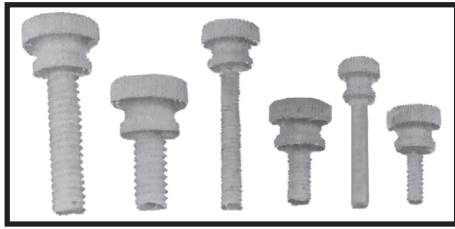
Malleable Casting
 Zinc Plated
 PKG QTY. 50

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





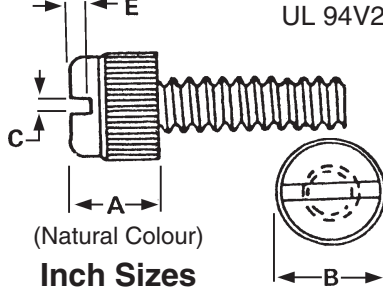
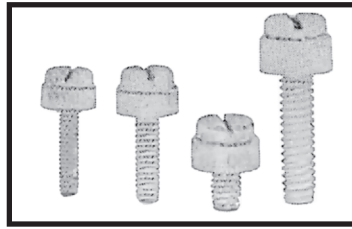
**MOLDED NYLON 6/6
Thumbscrews**



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

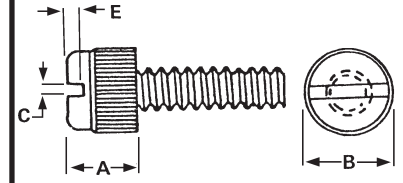
**CORROSION-RESISTANT
NYLON 6/6 Thumbscrews**



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
Slotted Thumbscrews**



UL 94V2
(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

CATALOG 14.02
2018/12/05

SPAENAUR

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.

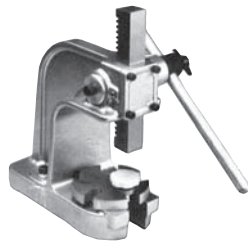
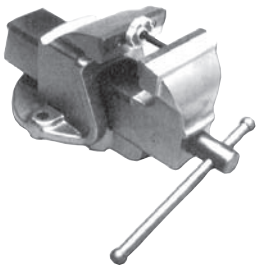
1 Select a standard hex
socket head cap screw



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

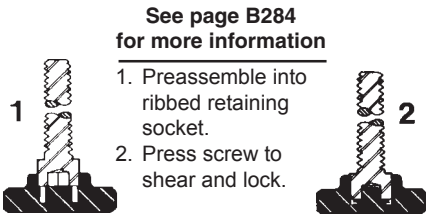
ASSORTMENT
ASSORTIMENT **805-445**

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.)

THUMB SCREW KNOBS



See page B284 for more information

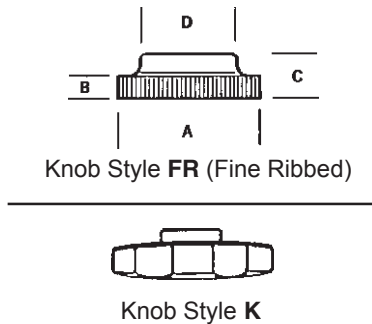
1. Preassemble into ribbed retaining socket.
2. Press screw to shear and lock.

Shear-Loc Knobs are made of DuPont "Delrin 500." They are tough, and will endure all normal thumbscrew applications.

INCH SIZES

SPAENAUR NUMBERS			KNOB STYLE	USE WITH SCREW	Measurements in inches				PKG QTY.
BLACK	GRAY	RED			A	B	C	D	
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

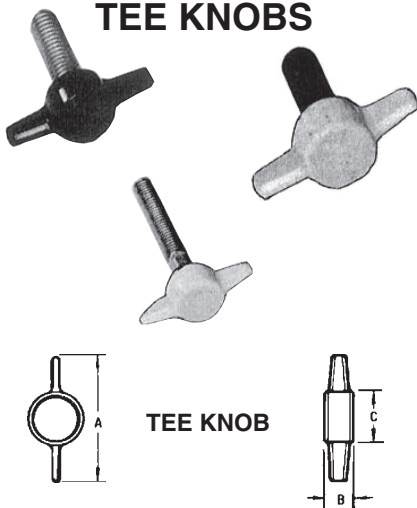
THUMBSCREW KNOBS



METRIC SIZES

SPAENAUR NUMBERS			KNOB STYLE	USE WITH SCREW	Measurements in mm				PKG QTY.
BLACK	GRAY	RED			A	B	C	D	
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

TEE KNOBS



INCH SIZES

USE ON 1960 SERIES HEX SOCKET HEAD CAP SCREWS

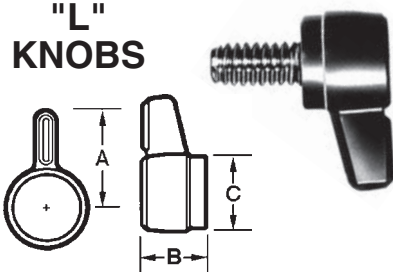
SPAENAUR NUMBERS			KNOB STYLE	FITS SCREW	Measurements in inches			PKG QTY.
BLACK	GRAY	RED			A	B	C	
134-099	134-100	134-107	TEE	#10	1"	1/4"	7/16"	100
134-101	134-102	134-108		1/4"	1-1/4"	5/16"	33/64"	100
134-103	134-104	134-109		5/16"	1-1/2"	13/32"	5/8"	50
134-105	134-106	134-110		3/8"	1-3/4"	15/32"	23/32"	50

METRIC SIZES

USE ON DIN 912 - JAPAN J.I.S. - BRITISH METRIC SERIES

SPAENAUR NUMBERS			KNOB STYLE	FITS SCREW	Measurements in mm			PKG QTY.
BLACK	GRAY	RED			A	B	C	
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			KNOB STYLE	FITS SCREW	Measurements in inches			PKG QTY.
BLACK	GRAY	RED			A	B	C	
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.

Fully Threaded Rods

Inch

Tiges entièrement filetées

Pouce

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.

THREAD SIZE	ORDER BY SPAENAUER NUMBERS LISTED BELOW									
	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	866-012ZP						
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.

B286

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

For Non-ferrous Threaded Rods see page B290
For Acme Threaded Rods see page B288

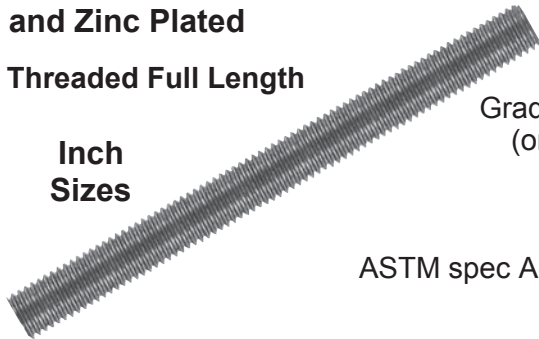
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STEEL Threaded Rods

Self-Colour - Plain Finish
and Zinc Plated

Threaded Full Length

Inch
Sizes



Grade: C1010
(or better)

ASTM spec A-307

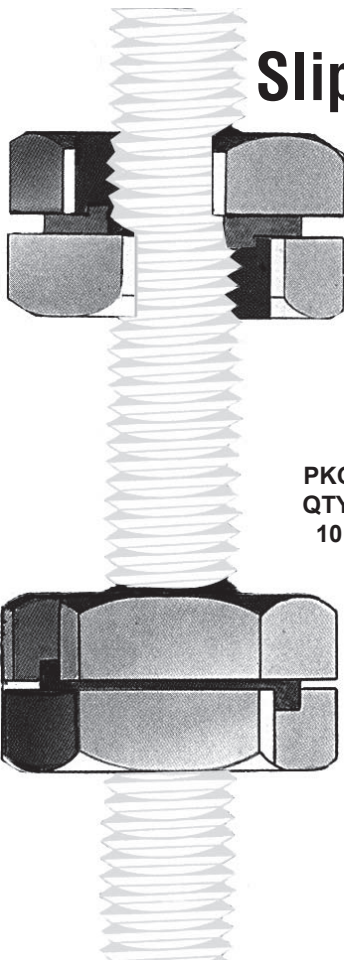
Minimum tensile strength
50,000 to 60,000 psi

See Page C5 for STEEL Hex. Nuts with LEFT-HAND Threads
See page B291 for STEEL Coupling Nuts with LEFT-HAND Threads

Continuous LEFT-HAND Threads

Thread Size	36" Length SPAENAUR No.		PKG QTY.
	Plain	Zinc Pltd.	
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

B



Slip-on® Lock Nut Position at any desired location without threading A nut that does not have to be "threaded on."

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.

C1018 Cold Rolled
Steel, Bright Zinc Pltd.

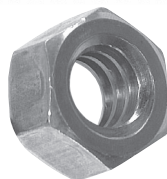
B

Threaded Full Length



"ACME" Threaded Rods

C1018 STEEL, Plain Finish
29° ACME THREAD
Fully Threaded in 36" Lengths



"ACME" Hexagon Nuts

C1018 STEEL, Plain Finish
ACME THREADS-Right Hand

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

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

*870-010 304 Stainless Steel

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.	Length	Spaenaur No.	PKG QTY.	Length	Spaenaur No.	PKG QTY.	Length	Spaenaur No.	PKG QTY.	Length	Spaenaur No.	PKG QTY.
1/2"-13 Dia.			5/8"-11 cont'd.			7/8"-9 Dia.			1"-8 Dia.			1-1/4"-8 Dia.		
1-3/4"	616-130	25	4-1/2"	616-144	20	3"	616-158	10	4"	616-167	10	6"	616-177	1
2"	616-131	25	5"	616-145	20	4"	616-159	10	4-1/2"	616-168	10	8"	616-178	1
2-1/2"	616-132	25	6"	616-146	20	4-1/2"	616-160	10	5"	616-169	10	10"	616-179	1
3"	616-133	25	8"	616-147	1	5"	616-161	10	6"	616-170	10	1-3/8"-8 Dia.		
3-1/2"	616-134	25	3/4"-10 Dia.			6"	616-162	10	7"	616-171	1	10"	616-180	1
4"	616-135	25	2"	616-148	20	7"	616-163	1	8"	616-172	1	1-1/2"-8 Dia.		
4-1/2"	616-136	25	3"	616-149	20	8"	616-164	1	10"	616-173	1	9"	616-181	1
5"	616-137	25	3-1/2"	616-150	20	9"	616-165	1	1-1/8"-8 Dia.			10"	616-182	1
6"	616-138	25	4"	616-151	20	10"	616-166	1	5"	616-174	1			
5/8"-11 Dia.			4-1/2"	616-152	20				6"	616-175	1			
2"	616-139	20	5"	616-153	20				8"	616-176	1			
2-1/2"	616-140	20	6"	616-154	20									
3"	616-A01-1C	20	7"	616-155	1									
3-1/2"	616-142	20	8"	616-156	1									
4"	616-143	20	10"	616-157	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.

B7 ALLOY STEEL

High Strength - High Temperature

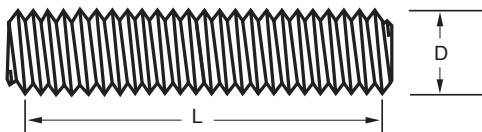
Heat Treated

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: 1-1/2 in. incl. Brinell 248 to 327, over 1-1/2 in. Brinell 212 to 327.

See page D3 for ASTM F436 STRUCTURAL WASHERS.

See page B289 for B7 Threaded Rod.

SPAENAUR No.	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.

THREADED RODS



Right-Hand Threads
Threaded Full Length

Self-Colour **BRASS** Plain Finish

18-8 and 316 STAINLESS STEEL

Thread Size	SPAENAUR No.		PKG QTY.	Thread Size	18-8 STAINLESS STEEL				316 S.S. 36" Lgth.	PKG QTY.
	24" Lgth.	36" Lgth.			12" Lgth.	24" Lgth.	36" Lgth.	72" Lgth.		
4-40	TR-500	868-525	25	0000-160						1
5-40	TR-501	868-526	25	000-120	870-002					1
6-32	TR-502	868-518	25	00-96	870-003					1
8-32	TR-503	868-527	25	00-90	870-004					1
10-24	868-A10-1N	868-528	25	0-80	870-005					1
10-32	TR-505	868-A04-1A	25	2-56		870-009				1
12-24		868-529	25	4-40		TR-2000	870-824			25
1/4"-20	868-A07-1C	868-A09-1T	10	6-32		TR-2001	870-825		870-902	25
1/4"-28	TR-508	868-524	10	8-32		870-G12-1A	870-826		870-903	25
5/16"-18	TR-509	868-531	10	10-24		870-G09-1X	870-827		870-G07-1W	1
3/8"-16	868-A03-1X	868-532	10	10-32		TR-2004	870-G06-1K		870-905	1
3/8"-24		868-A05-1P	1	1/4"-20		870-G14-1Y	870-829		870-906	1
7/16"-14		868-539	1	1/4"-28		870-G01-2P	870-830			1
1/2"-13	868-A06-1Y	868-533	1	5/16"-18		TR-2007	870-G11-1X		870-901	1
5/8"-11	TR-512	868-A01-1W	1	5/16"-24		870-G02-1Y	870-G03-1C			1
3/4"-10	868-A08-1N	868-A02-1M	1	3/8"-16		870-G08-1M	870-G05-1T	TR-2016	870-900	1
7/8"-9	TR-514	868-536	1	3/8"-24		870-G10-1M	870-834	870-G13-1P		1
1"-8	TR-515	868-537	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.		PKG QTY.
	36" Lgth.	72" Lgth.	
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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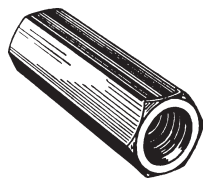
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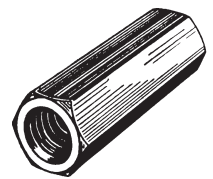


COUPLING NUTS

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.

INCH SIZES

Zinc Plated Steel - RIGHT-HAND Threads

<i>SPAENAUR</i> 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

<i>SPAENAUR</i> 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

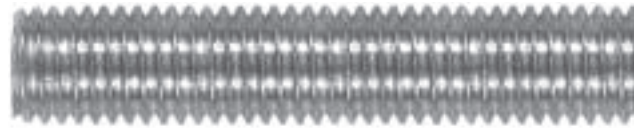
<i>SPAENAUR</i> No.	Size & Threads Per Inch	Width Across Flats	Length	PKG QTY.
155-351	3/8"-16 UNC	5/8"	1-3/4"	25
155-352	1/2"-13 UNC	11/16"	1-3/4"	25
155-353	5/8"-11 UNC	13/16"	2-1/8"	15
155-354	3/4"-10 UNC	1"	2-1/4"	15

**Inch Size Coupling Nuts
are used with Threaded Rods
on pages B286, B287 and B290.**

**Metric Coupling Nuts
are found on page B293**

DIN 975

Standard Coarse Thread
Right Hand Threads - Full Length



**Property Class 4.6 and 8.8 Steel
Plain and Zinc Plated**

B

Size Dia. x Pitch mm	CLASS 4.6 PLAIN			CLASS 4.6 ZINC PLATED		CLASS 8.8 1 Metre Lengths	
	1 Metre Lengths	2 Metre Lengths	3 Metre Lengths	1 Metre Lengths	2 Metre Lengths	Plain	Zinc Plated
M2 x 0.40 M2.5 x 0.45 M2.6 x 0.45	867-001 867-026 867-003			867-001ZP 867-026ZP 867-003ZP			
M3 x 0.50 M3.5 x 0.60 M4 x 0.70 M5 x 0.80	867-004 867-028 867-005 867-006	867-033	867-042 867-043 867-044	867-004ZP 867-028ZP 867-005ZP 867-006ZP		867-102 867-103	867-102ZP 867-103ZP
M6 x 1.00 M7 x 1.00 M8 x 1.25 M10 x 1.50	867-007 867-027 867-008 867-009	867-035 867-036 867-037	867-045 867-046 867-047	867-007ZP 867-027ZP 867-008ZP 867-009ZP	867-035ZP 867-036ZP 867-037ZP	867-A01-1M 867-105 867-106	867-104ZP 867-105ZP 867-106ZP
M12 x 1.75 M14 x 2.00 M16 x 2.00 M18 x 2.50	867-010 867-011 867-012 867-013	867-038 867-068 867-039	867-048 867-049 867-050 867-051	867-010ZP 867-011ZP 867-012ZP 867-013ZP	867-038ZP 867-039ZP	867-107 867-101 867-109 867-100	867-107ZP 867-101ZP 867-109ZP 867-100ZP
M20 x 2.50 M22 x 2.50 M24 x 3.00 M27 x 3.00	867-014 867-015 867-016 867-017	867-040 867-041	867-052 867-053 867-054	867-014ZP 867-015ZP 867-016ZP 867-017ZP	867-040ZP	867-111 867-112 867-113 867-114	867-111ZP 867-112ZP 867-113ZP 867-114ZP
M30 x 3.50 M33 x 3.50 M36 x 4.00 M39 x 4.00	867-018 867-019 867-020 867-021			867-018ZP 867-019ZP 867-020ZP 867-021ZP		867-115 867-116 867-117	867-115ZP 867-117ZP
M42 x 4.50 M45 x 4.50 M48 x 5.00 M52 x 5.00	867-022 867-023 867-024 867-025			867-022ZP 867-024ZP			

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		

CATALOG 14

SPAENAUR

DIN 975Metric Standard Coarse Thread
Right-Hand - Full LengthBrass, A2 & A4 Stainless Steel,
Aluminum and Nylon

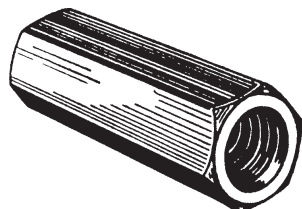
Contact Sales Desk For Package Quantities

Size Dia. x Pitch mm	BRASS	A2 STAINLESS STEEL			A4 STAINLESS STEEL		ALUMINUM	6/6 NYLON
	1 Metre Lengths	1 Metre Lengths	2 Metre Lengths	3 Metre Lengths	1 Metre Lengths	3 Metre Lengths	1 Metre Lengths	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			871-025	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

COUPLING NUTS **DIN 6334**
Regular (Coarse) Thread
STEEL, PLAIN and ZINC PLATED

SPAENAUR No.	Dimensions in Millimeters				PKG QTY.	SPAENAUR No.		Dimensions in Millimeters				PKG QTY.
	Thread Size Diameter	Pitch	Width A/F	Length		Plain	Zinc Plated	Thread Size Diameter	Pitch	Width A/F	Length	
156-202	M8	1.25	15	44	50		156-344ZP	M6	1.00	10	18	50
156-F01-1W	M10	1.50	15	44	25	156-345	156-345ZP	M8	1.25	13	24	50
156-211	M27	3.00	41	76	10	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



B

TURNBUCKLES

Made with ZINC ALLOY TURNBUCKLE BODY
STEEL HOOKS and EYES - zinc chromate plated



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
024-558	024-540	024-545	024-552	#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
				1/4-20	5-1/4	7-3/8	3	3/8	10
024-559	024-541	024-547	024-553	1/4-20	5-1/2	7-5/8	3	5/16	10
				5/16-18	6-1/4	8-7/8	2-5/8	5/16	10
				5/16-18	6-1/4	8-7/8	3-5/8	5/16	10
024-560	024-542	024-548	024-554	3/8-16	7-1/2	10-5/8	3-1/8	3/4	10
				3/8-16	7-1/2	10-5/8	4-3/8	3/4	10
				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

CATALOG 14

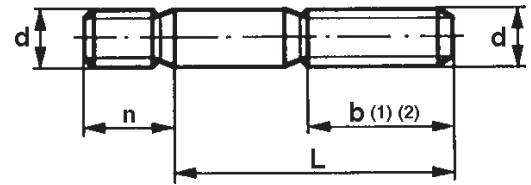
SPAENAUR

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



Heat-treated Alloy

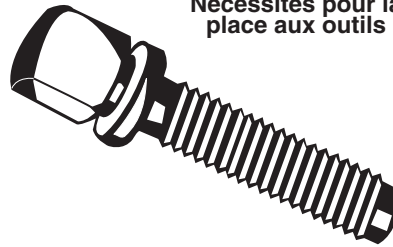
STEEL

NOT PLATED

Half-dog Point

Polished Square Head

Tool Room Necessities
Nécessités pour la
place aux outils



**TOOL POST
SCREWS**

B

Diameter and Thread	Length under Collar	SPAENAUR No.	PKG QTY.	Diameter and Thread	Length under Collar	SPAENAUR No.	PKG QTY.
1/4" (.250) 20 UNC	3/4"	486-200	5	9/16" (.5625) 12 UNC	1-1/2"	486-232	5
	1"	486-201	5		2-1/2"	486-234	5
	1-1/4"	486-202	5		3"	486-235	5
	5/16" (.3125) 18 UNC	1-1/2"	486-203	5	5/8" (.625) 11 UNC	1-1/2"	486-236
3/4"		486-204	5	1-3/4"		486-237	5
1"		486-205	5	2"		486-238	5
1-1/4"		486-206	5	2-1/4"		486-239	5
1-1/2"		486-207	5	2-1/2"		486-240	5
1-3/4"		486-208	5	2-3/4"		486-241	5
2"	486-209	5	3"	486-242		5	
3/8" (.375) 16 UNC	3/4"	486-210	5	3-1/2"	486-244	5	
	1"	486-211	5	4"	486-245	5	
	1-1/4"	486-212	5	3/4" (.750) 10 UNC	1-1/2"	486-246	5
	1-1/2"	486-213	5		1-3/4"	486-247	5
	1-3/4"	486-214	5		2"	486-248	5
	2"	486-215	5		2-1/4"	486-249	5
	2-1/4"	486-216	5		2-1/2"	486-250	5
2-1/2"	486-217	5	2-3/4"		486-251	5	
7/16" (.4375) 14 UNC	1"	486-218	5		3"	486-252	5
	1-1/4"	486-219	5	3-1/4"	486-253	5	
	1-1/2"	486-220	5	3-1/2"	486-254	5	
	1-3/4"	486-221	5	4"	486-255	5	
	2"	486-222	5	<p align="center">See also...</p> <p align="center">Inch Square Head Set Screws, Cup Point, UNC - see page B244.</p> <p align="center">12 Point, "Countr-Bor" Screws, with Shoulder, UNC - see page B210.</p>			
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					

CATALOG 14

SPAENAUR

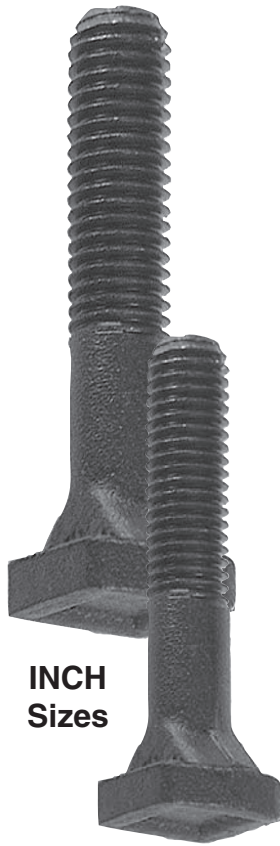
Inch

Pouce



T-Slot Bolts / Self-Positioning Hold-Down Clamps

Boulons en T / Système de retenue à autopositionnement



**INCH
Sizes**

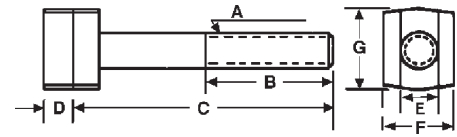
T-Slot Bolts

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



B

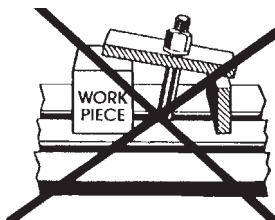
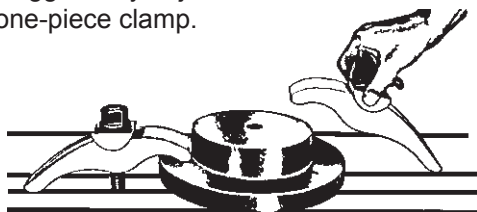
SPAENAUR No.	Thread	All Dimensions Stated in Inches						PKG QTY.
		A	B	C	D	E	F	
070-001	3/8-16	5/8	1	13/64	3/8	5/8	3/4	1
070-002	3/8-16	1	1-1/2	13/64	3/8	5/8	3/4	1
070-003	3/8-16	1-1/4	2	13/64	3/8	5/8	3/4	1
070-004	1/2-13	1	1-1/2	1/4	1/2	13/16	1	1
070-005	1/2-13	1-1/4	2	1/4	1/2	13/16	1	1
070-006	1/2-13	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.

CATALOG 14

SPAENAUR

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

B297

T-Slot Nuts / Flange Nuts

Inch

Écrous rectangulaires en T / Écrous à embase

Pouce

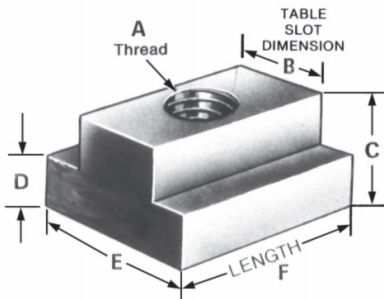
Tool Room Necessities

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.

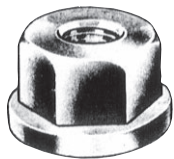
PKG QTY. 1

T-SLOT NUTS and RITE HITE Clamps
Use them with
T SLOT BOLTS
see page B297.

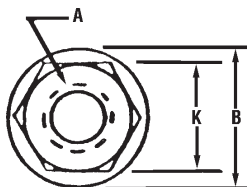
SPAENAUR No.	A THREAD	B SLOT	C	D	E	F LENGTH
226-319	1/4-20	5/16	1/4	3/16	9/16	9/16
226-320	1/4-20	3/8	3/8	15/64	9/16	9/16
226-009	5/16-18	3/8	1/2	3/16	5/8	7/8
226-321	5/16-18	3/8	3/8	1/4	5/8	7/8
226-310	3/8-16	7/16	1/2	7/32	11/16	7/8
226-311	3/8-16	1/2	1/2	9/32	7/8	7/8
226-322	3/8-16	9/16	5/8	11/32	7/8	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

Inch Sizes



Hardened Steel
Black Oxide
Finish



PKG QTY. 6

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.

B298

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

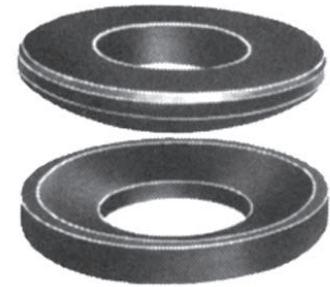
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CATALOG 14
SPAENAUR

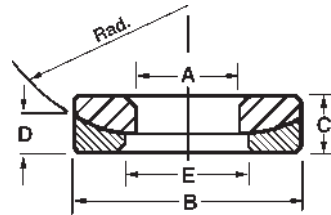
Self-Aligning Washers (Spherical)

Heat Treated Steel.
 Black Oxide Finish.
 Tops and bottoms available separately.
 Bottom half works with Spherical Flanged Nuts (see below).

Tool Room Necessities
 Nécessités pour la place aux outils



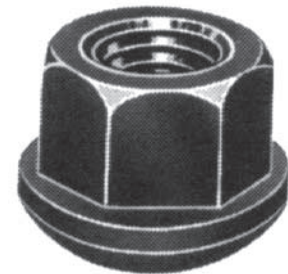
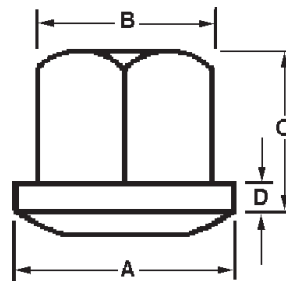
Spherical Washers for bolts larger than 2" available.
 Ask for price and delivery.



SPAENAUR No.		Bolt Size	A	B	C	D	E	R	PKG QTY.
Top	Bottom								
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



**METRIC
AMF**

T-Slot Bolts

Used for setting up work on planers, shapers, milling machines or similar 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)

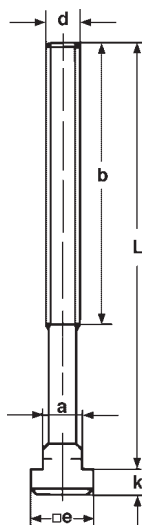
Black Oxide Finish

Tool Room Necessities
Nécessités pour la place aux outils

B



DIN 787



SPAENAUR No.	All Dimensions Stated in Millimetres					PKG QTY.
	Thread Dia. x a (nom.) x L	b	a	e	k	
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

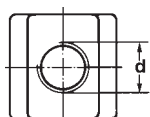
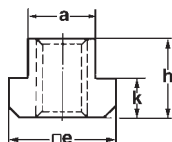
*Sizes not included in DIN Standard



**METRIC
AMF T-Slot Nuts**

Tempered to tensile strength class 10.
The max. load capacity is allowed with the total thread reach of the nut.

DIN 508



SPAENAUR No.	All Dimensions Stated in Millimetres					PKG QTY.
	Thread Dia. x a (nom.)	a	e	h	k	
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

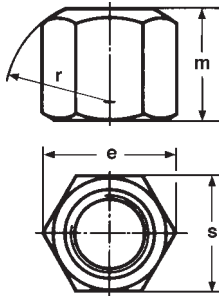
SPAENAUR
CATALOG 14.04
2019/08/08

METRIC
AMF Fixture Nut

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.

Tool Room Necessities
Nécessités pour la
place aux outils

DIN 6330-B

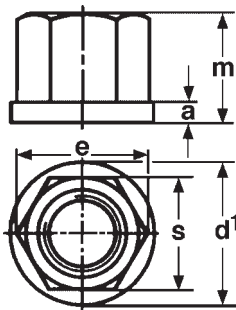


SPAENAUR No.	All Dimensions Stated in Millimetres					PKG QTY.
	Thread	s	e	m (1.5d)	r	
156-383	M6	10	11.5	9	9	25
156-384	M8	13	15.0	12	11	25
156-F08-1N	M10	16	18.2	15	15	25
156-386	M12	18	20.4	18	17	25
156-387	M14	21	23.8	21	20	25
156-388	M16	24	27.7	24	22	25
156-389	M18	27	31.2	27	24	25
156-353	M20	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
AMF Collar Nut

GRADE A STEEL (may contain some lead)
Turned and milled.
Tensile strength class 8 or 10.

DIN 6331



SPAENAUR No.	All Dimensions Stated in Millimetres						PKG QTY.
	Thread	s	e	m (1.5d)	a	d ¹	
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

METRIC
AMF Spherical
Seat Washer

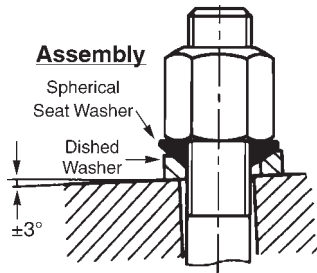
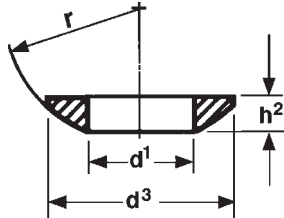
DIN
6319C



Tool Room Necessities
Nécessités pour la
place aux outils

Case Hardened
Steel - Black

B



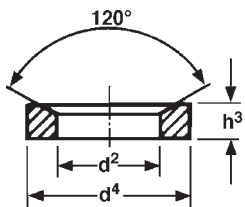
SPAENAUR No.	Nominal Size	All Dimensions in Millimetres				PKG QTY.
		d ¹	d ³	h ²	r	
657-320	M6	6.4	12	2.3	9	50
657-321	M8	8.4	17	3.2	12	50
657-322	M10	10.5	21	4.0	15	50
657-323	M12	13.0	24	4.6	17	25
657-324	M14	15.0	28	5.0	22	25
657-325	M16	17.0	30	5.3	22	25
657-326	M20	21.0	36	6.3	27	10
657-327	M24	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

METRIC
AMF Dished
Washer

DIN
6319D



Case Hardened
Steel - Black



SPAENAUR No.	Nominal Size	All Dimensions in Millimetres			PKG QTY.
		d ²	d ⁴	h ³	
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.

Inch

Pouce



Paulin® Deck & Fence Screws - Square Drive

Vis pour patios et clôtures Paulin^{MD} – prise carrée

NEW



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

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"	600	
593-K32-1K		1-3/4"	500	
593-K33-1W		2"	400	
593-K34-1M			500	
593-K27-1C				1000
593-K60-1M		2-1/2"	250	
593-K35-1X			350	
593-K30-1N				1200
593-K61-1X		3"	200	
593-K36-1A	250			
593-K31-1T			800	
593-K62-1A	#10	3-1/2"	125	
593-K37-1P				500
593-K63-1P				

CATALOG 14

SPAENAUR

Paulin® is a registered trademark of H.Paulin & Co. Limited

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

B303

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B

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 treated 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		2-1/2"		1800
593-K56-1K			250	
593-K50-1A			350	
593-K70-1K		3"		1200
593-K57-1W			200	
593-K51-1P	250			
593-K71-1W	#10	3-1/2"		1000
593-K58-1M			125	
593-K73-1X			500	

NEW



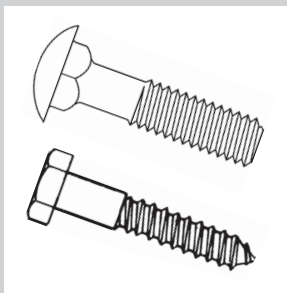
RED SQUARE SOCKET DRIVER BIT
S2 STEEL, ZINC PLATED



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**

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

U-Bolt with Nuts SPAENAU No.	Thread Size	Inside Length	I.D.	For Nominal Pipe Size	U-Bolt Plate SPAENAU 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

NEW

**BENT EYE BOLT WITH NUT**

LOW CARBON COLD DRAWN STEEL WIRE BLACK OXIDE

DIMENSIONS IN INCHES (IN)

SPAENAU #	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

Product	Inch	Metric	Product	Inch	Metric
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A					
Automotive Fasteners	B117-120	B121-123	Hex Head Cap Screws Continued		
B					
Binder Posts & Screws	B62		Bronze	B153	
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Bolts			Nylon	B155	B175
Countr-Bor	B210		Stainless Steel	B151	B172-173
Eye	B306		Steel	B134-148	B156-171
Hanger	B60	B60	Hex Head Flange Screw	B120	B121
Hex Head	B134-148, B151-155	B156-175	Hex Nuts		
Hex Socket Cap	B176-188, B196-209	B176, B189-192, B212-232	2 H	B289	
Square Head	B260		Coupling	B291	B293
Structural	B143		L•9®	B149	
British Thread Fasteners	B254-255		Slip-On®	B287	
British Thread Tools	B255-256	B256	Hex Socket Screws		
C					
Camtainer® Assemblies	B102		Cap Screws	B176-188, B196-207	B176, B189-192, B212-232
Cap Screws			Cap Screws, Pelletized	B204-207	
Hex Head	B134-142, B144-148, B151-155	B156-175	Set Screws	B193-195, B234-246, B296	B247-253
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Carriage Bolts	B258-260	B261-262	Holo-Krome®		
Clamps, Rite-Hite Tool	B297		Socket Head Cap Screws	B178-188	B189-192
Construction Screws®	B304		Socket Head Set Screws	B193-195	
Countr-Bor Screws	B210		Socket Head Shoulder Screws	B188	B192
Coupling Nuts	B291	B293	Hook Bolts	B274	
Cup Hooks	B275		J		
D					
Deck Screws	B303-304		J Bolts	B274	
Door Frame Adjusting Screws	B63		Joint Connector Screws & Nuts	B62	
Dowel Screws	B60		K		
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Drive Screws	B101		Kwik-Thred® Self Clinching Studs	B127	
Drivers, Nut	B94		L		
E					
Elevator Bolts	B263	B262	L•9® Fastening System	B147-150	
Eye Bolts	B267-269, B271-274, B306	B270	Lag Screws	B256-257, B273	
Eye Nuts	B269	B270	Locknuts, Slip-On®	B287	
F					
Flange Nuts	B298-299		M		
Floorboard Screws	B102		Machine Screws		
G					
Galvanized			Combination Drive	B34-36	
Cap Screw	B137		Phillips, Brass	B30	B58
Lag Screws	B257		Phillips, Nylon		B59
Turnbuckles	B277-278		Phillips, Stainless Steel	B31-32	B58
Gate Hooks	B274		Phillips, Steel	B26-28	B56-57
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H					
Hanger Bolts	B60	B60	Slot, Brass	B13-17	B49-52
Hex Head Cap Screws			Slot, Nylon	B23-25	B53-54
Aluminum	B152	B174	Slot, Stainless Steel	B18-21	B45-48
Brass	B152	B174	Slot, Steel	B5-10, B154	B37-44
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			Square Socket, Steel	B33-34	
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			Master Seal Washers	B94	
			N		
			Nuts		
			2 H	B289	
			Acme Thread	B288	
			Coupling	B291	B293
			Flange	B298-299	

Section Index

Product	Inch	Metric	Product	Inch	Metric
English Index Continued					
Nuts Continued					
L ⁹ ®	B149		Self-Aligning Washers	B299	
Left Hand	B291		Self-Clinching Studs	B126-127	
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