

# Socket Head Shoulder Bolts

Vis à épaulement à tête creuse

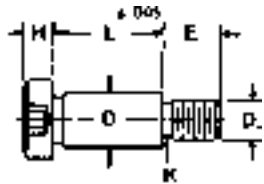


Inch

Pouce

B

**NOTE:**  
Plain or knurled head furnished at our option as available.



## “ALLOY” STEEL

Heat treated  
Not Plated

Rockwell “C” hardness of 32-43 at the surface.

### Threads:

Unified standard, Class 3A, UNC Series, to American National Standard, ANSI, B1.1.



## 18-8 STAINLESS STEEL

Threads:  
Class 3A or 2A our option.

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

## “STRIPPER BOLTS”

Shoulder Dia.	Shoulder Length	U.N.C. Thread	SPAENAUR Nos.		Shoulder Dia.	Shoulder Length	U.N.C. Thread	SPAENAUR Nos.	
			STEEL	STAINLESS				STEEL	STAINLESS
<b>1/4"</b> 1/8" Key	1/4"	10-24	364-074	—	<b>1/2"</b> 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	—
2-1/2"	10-24	364-090	—	2-3/4"	3/8-16	364-043	—		
<b>5/16"</b> 5/32" Key	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	<b>5/8"</b> 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	—	
<b>3/8"</b> 3/16" Key	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	—	<b>See B209 for larger shoulder diameters and technical information on Inch Hex Socket Shoulder Screws.</b>					
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	—						

**B208**

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Contact Sales Desk For Package Quantities

CATALOG 14

SPAENAUR

Inch

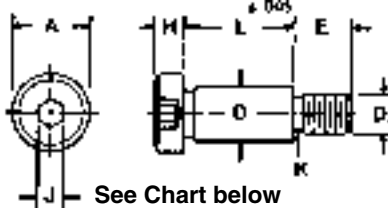
Pouce



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.

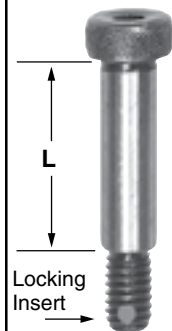
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**"STRIPPER BOLTS"**

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

**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



Locking Insert

Shoulder DIA.	1/4"	5/16"	3/8"	1/2"	
	U.N.C. Thread	10-24	1/4"-20	5/16"-18	3/8"-16
<b>Shoulder Length</b>	L	<b>ORDER BY SPAENAUR NUMBER</b>			
	3/8	<b>359-200</b>		<b>359-207</b>	
	1/2		<b>359-204</b>	<b>359-208</b>	
	5/8	<b>359-201</b>	<b>359-205</b>	<b>359-209</b>	<b>359-211</b>
	3/4	<b>359-202</b>	<b>359-206</b>	<b>359-210</b>	
1	<b>359-203</b>			<b>359-212</b>	

For Pellet Location and additional info. see page B204.

Contact Sales Desk For Package Quantities

CATALOG 14

SPAENAUR

**B**

Metric

Métrique



Hex Socket Shoulder Screws

Vis à épaulement à tête creuse hexagonale

# ALLOY STEEL Plain Finish

Heat treated

Property Class **12.9**

Made to **ISO 7379**

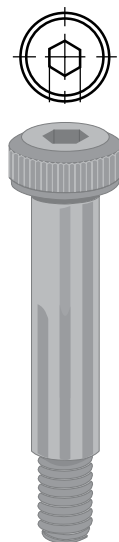
Metric Regular (Coarse) Thread

# Metric SHOULDER SCREWS

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

(Shown in millimetres)

SHOULDER DIAMETER	SHOULDER LENGTH	Thread Length	SPAENAUR No.
<b>*6</b> (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
<b>8</b> (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
<b>10</b> (5 mm Key) Thread M8 x 1.25 mm	12	13	365-017
	16		365-018
	20		365-019
	25		365-020
	30		365-021
	40		365-022
	50		365-P04-1C
	60		365-024
<b>*12</b> (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		

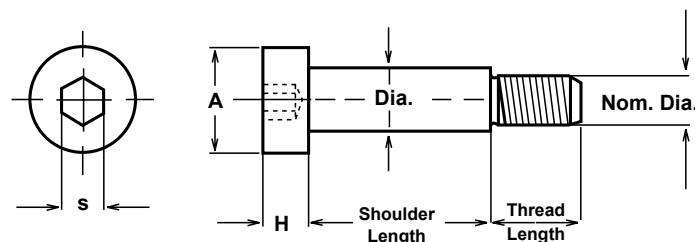


PKG QTY. 10  
ALL SIZES EXCEPT 24 mm SHOULDER DIA. PKG QTY. 1

(Shown in millimetres)

SHOULDER DIAMETER	SHOULDER LENGTH	Thread Length	SPAENAUR No.
<b>16</b> (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
<b>20</b> (10 mm Key) Thread M16 x 2.0 mm	90	22	365-043
	100		365-044
	120		365-045
	40		365-046
	50		365-047
	60		365-048
<b>*24</b> (12 mm Key) Thread M20 x 2.5 mm	70	27	365-049
	80		365-050
	90		365-051
	100		365-052
	120		365-053
	50		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	<b>M5</b>	<b>M6</b>	<b>M8</b>	<b>M10</b>	<b>M10</b>	<b>M12</b>	<b>M16</b>
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.

CATALOG 14 SPAENAUR