

# Hex Socket Head Cap Screws

Full Thread / High Strength Stainless Steel / Configurable Length

# EN 1.4404 Equiv. Hex Socket Head Cap Screws / Hex Screws / Nuts / Washers

**Hex Socket Head Cap Screws Full Thread**

Type	Material	Surface Treatment	Hardness	Strength Class
ACB	EN 1.7220 Equiv.	Black Oxide Coating	32~44HRC	12.9(M3-M20)/10.9(M24)
ASCB	EN 1.4301 Equiv.	-	-	A2-70

RoHS10

**Hex Socket Head Cap Screws High Strength Stainless Steel**

Type	Material	Surface Treatment	Hardness	Strength Class
SCBF	EN 1.4404 Equiv.	-	-	A4-100 (10.9 Equiv.)

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Part Number	ACB		Part Number	ACB	
	Unit Price	Volume Discount Rate		Unit Price	Volume Discount Rate
Type	M-L	1 ~ 99 pcs.	Type	M-L	1 ~ 99 pcs.
3-25			12-50		
30			55		
35			60		
40			65		
45			70		
50			75		
4-30			80		
35			85		
40			90		
45			100		
50			110		
55			120		
60			16-60		
65			65		
70			70		
75			75		
80			80		
85			85		
90			90		
100			100		
110			110		
120			120		
5-30			20-70		
35			75		
40			80		
45			85		
50			90		
55			100		
60			110		
65			120		
70			24-100		
75			110		
80			110		
85			120		
90					
100					
110					
120					
6-35					
40					
45					
50					
55					
60					
65					
70					
75					
80					
85					
90					
100					
110					
120					
8-40					
45					
50					
55					
60					
65					
70					
75					
80					
85					
90					
100					
110					
120					

Part Number	Unit Price			Part Number	Unit Price		
	M-L	1 ~ 4 pc(s).	5 ~ 49 pcs.		M-L	1 ~ 99 pcs.	100 ~ 500 pcs.
Type	M-L	1 ~ 4 pc(s).	5 ~ 49 pcs.	Type	M-L	1 ~ 99 pcs.	100 ~ 500 pcs.
3-5				12-50			
6				55			
8				60			
10				65			
12				70			
15				75			
20				80			
4-6				85			
8				90			
10				100			
12				110			
15				120			
20				16-60			
5-8				65			
10				70			
12				75			
15				80			
20				85			
6-10				90			
8				100			
10				110			
12				120			
15				20-70			
20				75			
25				80			
30				85			

**Mechanical Properties (Reference)**

Type	Material	Strength Class	Tensile Strength (N/mm <sup>2</sup> )	0.2% Proof Stress (N/mm <sup>2</sup> )	Corrosion Resistance	Nonmagnetic
SCB	EN 1.4567 Equiv.	A2-70	700	450	○	○
SSCB	EN 1.4404 Equiv.	A4-70	700	450	○	○
SCBF	EN 1.4404 Equiv.	A4-100 (10.9 Equiv.)	1000	900	○	○

⊕ SCB P.174 SSCB P.180 ⊙: Excellent / ○: Good

MxP	A	E	B
3x0.5	5.5	3	2.5
4x0.7	7	4	3
5x0.8	8.5	5	4
6x1.0	10	6	5
8x1.25	13	8	6
10x1.5	16	10	8
12x1.75	18	12	10
16x2.0	24	16	14
20x2.5	30	20	17
24x3.0	36	24	19

**Hex Socket Head Cap Screws Configurable Length**

Type	Material	Surface Treatment	Hardness	Strength Class
FBAB	EN 1.7220 Equiv.	Black Oxide	38~43HRC	12.9
FBAM	EN 1.7220 Equiv.	Electroless Nickel Plating	-	-
FBAS	EN 1.4301 Equiv.	-	-	A2-70

RoHS10

Part Number	Type	M (Coarse)	L 1mm Increment	l 1mm Increment	Unit Price					
					FBAB	FBAM	FBAS	FBAS		
					Min. L - 100	L101~	Min. L - 100	L101~	Min. L - 100	L101~
FBAB		4	30~100	10~40 l ≤ L	-	-	-	-	-	-
FBAM		5	30~100		-	-	-	-	-	-
FBAM		6	35~150		-	-	-	-	-	-
FBAS		8	40~150		-	-	-	-	-	-
FBAS		10	45~210		-	-	-	-	-	-

⊕ For l=L, there will be incomplete threads (2 pitches Max.) below the screw head

RoHS10

Material: EN 1.4404 Equiv. Strength Class: SSCB A4-70 RSSCB A4-50 Equiv.

**SUS316L Hex Socket Head Cap Screws**

Part Number	Type	M-L	MxP	A	E	B	Unit Price	Volume Discount Rate
SSCB	3-6	6	3x0.5	5.5	3	2.5	1 ~ 49 pc(s)	50 ~ 200 pcs.
SSCB	4-8	8	4x0.7	7	4	3		
SSCB	5-8	8	5x0.8	8.5	5	4		
SSCB	6-10	10	6x1.0	10	6	5		
SSCB	8-15	15	8x1.25	13	8	6		
SSCB	10-20	20	10x1.5	16	10	8		
SSCB	12-20	20	12x1.75	18	12	10		

**SUS316L Nuts**

Part Number	Type	M	B	(e)	T	Unit Price	Volume Discount Rate
SSLBNR	3	3	5.5	6.4	2.4	1 ~ 49 pc(s)	50 ~ 200 pcs.
SSLBNR	4	4	7	8.1	3.2		
SSLBNR	5	5	8	9.2	4		
SSLBNR	6	6	10	11.5	5		
SSLBNR	8	8	13	15	6.5		
SSLBNR	10	10	17	19.6	8		
SSLBNR	12	12	19	21.9	10		

**SUS316L Spring Washers**

Part Number	Type	No.	d	D	t	Unit Price	Volume Discount Rate
SSSLW	3	3	3.1	5.9	0.7	1 ~ 49 pc(s)	50 ~ 200 pcs.
SSSLW	4	4	4.1	7.6	1.0		
SSSLW	5	5	5.1	9.2	1.3		
SSSLW	6	6	6.1	12.2	1.5		
SSSLW	8	8	8.2	15.4	2.0		
SSSLW	10	10	10.2	18.4	2.5		
SSSLW	12	12	12.2	21.5	3.0		

**SUS316L Washers**

Part Number	Type	No.	D	d	t	Unit Price	Volume Discount Rate
SSPW	3	3	7	3.2	0.5	1 ~ 49 pc(s)	50 ~ 200 pcs.
SSPW	4	4	9	4.3	0.8		
SSPW	5	5	10	5.3	1.0		
SSPW	6	6	12.5	6.4	1.5		
SSPW	8	8	17	8.4	1.5		
SSPW	10	10	21	10.5	2.0		
SSPW	12	12	24	13.0	2.5		

Ordering Example: **Part Number SSCB5-12 SSSLW8**

**SUS316L Hex Screws**

Part Number	Type	M-L	MxP	A	E	Unit Price	Volume Discount Rate
RSSCB	4-10	10	4x0.7	7	2.8	1 ~ 49 pc(s)	50 ~ 200 pcs.
RSSCB	5-10	10	5x0.8	8	3.5		
RSSCB	6-10	10	6x1.0	10	4.0		
RSSCB	8-15	15	8x1.25	13	5.5		
RSSCB	10-20	20	10x1.5	17	7.0		

**Properties of EN 1.4404 Equiv.**

EN 1.4404 Equiv. is composed of EN 1.4301 Equiv. with Molybdenum added, having high corrosion resistance.

**<Reference: Corrosion Resistance of Stainless Steel>**

Testing Method: Confirms to the cycle test method in JIS H 8502 for a complex corrosion test.

Test Conditions:

- ① (1) Salt Water Spray Test (5%NaCl, 35°C) 2hr
- ② Dry (60°C) 4hr
- ③ Wet (95%RH, 35°C) 2hr

One cycle takes 8 hrs.

Appearance of test piece 48 hrs, 168 hrs before test