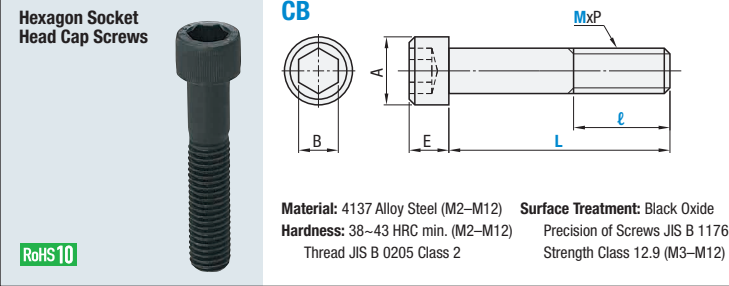


Hexagon Socket Head Cap Screws

When you need large quantities, Box packing is more economical. P.2362



Material: 4137 Alloy Steel (M2-M12) **Surface Treatment:** Black Oxide
Hardness: 38-43 HRC min. (M2-M12) Precision of Screws JIS B 1176
 Thread JIS B 0205 Class 2 Strength Class 12.9 (M3-M12)

M x P	A	E	B
2 x 0.4	3.8	2	1.5
2.5 x 0.45	4.5	2.5	2
2.6 x 0.45	4.5	2.6	2
3 x 0.5	5.5	3	2.5
4 x 0.7	7	4	3
5 x 0.8	8.5	5	4
6 x 1.0	10	6	5
8 x 1.25	13	8	6
10 x 1.5	16	10	8
12 x 1.75	18	12	10

*The strength class signifies the screw's tensile strength.
 (Ex.) 12.9 This indicates that the minimum value for yielding point or proof stress is 90% of tensile strength.
 This indicates that the minimum value of tensile strength is 1,220 N/mm².
 (Ex.) 10.9 This indicates that the minimum value for yielding point or proof stress is 90% of tensile strength.
 This indicates that the minimum value of tensile strength is 1,040 N/mm².
Reference: Dimensions of Counterbore and Cap Screw Hole for Hexagon Socket Head Cap Screws. P.4013

Type	Part Number		ℓ
	M - L		
CB	2 - 4	Fully Threaded Screws	ℓ
	5		
	8		
	10		
	12		
	15		
	2.5 - 4	Fully Threaded Screws	
	5		
	6		
	8		
	10		
	2.6 - 4	Fully Threaded Screws	
	5		
	6		
	8		
10			
3 - 5	Fully Threaded Screws		
6			
8			
10			
12			
14			
15			
16			
18			
20			
4 - 5	Fully Threaded Screws		
6			
8			
10			
12			
14			
15			
16			
18			
20			
5 - 5	Fully Threaded Screws		
6			
8			
10			
12			
14			
15			
16			
18			
20			
6 - 6	Fully Threaded Screws		
8			
10			
12			
14			
15			
16			
18			
20			
22			
8 - 8	Fully Threaded Screws		
10			
12			
14			
15			
16			
18			
20			
22			
25			
10 - 10	Fully Threaded Screws		
12			
15			
20			
25			
30			
35			
40			
45			
50			
12 - 15	Fully Threaded Screws		
20			
25			
30			
35			
40			
45			
*50			
55			
60			
15 - 15	Fully Threaded Screws		
20			
25			
30			
35			
40			
45			
50			
55			
60			
18 - 18	Fully Threaded Screws		
20			
22			
25			
30			
35			
40			
45			
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20 - 20	Fully Threaded Screws		
22			
25			
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35			
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55			
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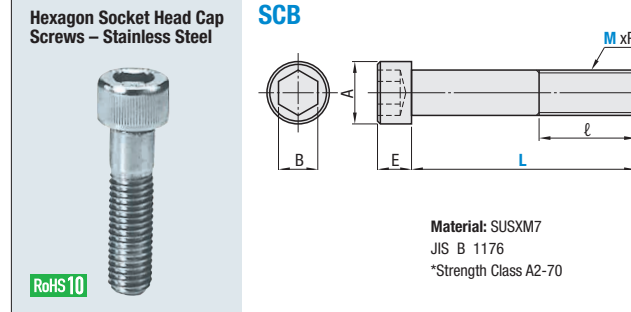
Type	Part Number		ℓ
	M - L		
CB	5 - 5	Fully Threaded Screws	ℓ
	6		
	8		
	10		
	12		
	14		
	15	Fully Threaded Screws	
	16		
	18		
	20		
	22		
	2.5 - 4	Fully Threaded Screws	
	5		
	6		
	8		
10			
2.6 - 4	Fully Threaded Screws		
5			
6			
8			
10			
3 - 5	Fully Threaded Screws		
6			
8			
10			
12			
14			
15			
16			
18			
20			
4 - 5	Fully Threaded Screws		
6			
8			
10			
12			
14			
15			
16			
18			
20			
5 - 5	Fully Threaded Screws		
6			
8			
10			
12			
14			
15			
16			
18			
20			
6 - 6	Fully Threaded Screws		
8			
10			
12			
14			
15			
16			
18			
20			
22			
8 - 8	Fully Threaded Screws		
10			
12			
14			
15			
16			
18			
20			
22			
25			
10 - 10	Fully Threaded Screws		
12			
15			
20			
25			
30			
35			
40			
45			
50			
12 - 15	Fully Threaded Screws		
20			
25			
30			
35			
40			
45			
*50			
55			
60			
15 - 15	Fully Threaded Screws		
20			
25			
30			
35			
40			
45			
50			
55			
60			
18 - 18	Fully Threaded Screws		
20			
22			
25			
30			
35			
40			
45			
50			
55			
20 - 20	Fully Threaded Screws		
22			
25			
30			
35			
40			
45			
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55			
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*ℓ part is based on JIS B 1176 (2000).
 Ⓢ Screws larger and longer than M12 are listed in the catalog of Standard Components for Press Molds.

Part Number Example **Part Number**
 CB8-40

Hexagon Socket Head Cap Screws Stainless Steel

When you need large quantities, Box packing is more economical. P.2363



Material: SUSXM7
 JIS B 1176
 *Strength Class A2-70

M x P	A	E	B
2 x 0.4	3.8	2	1.5
2.5 x 0.45	4.5	2.5	2
2.6 x 0.45	4.5	2.5	2
3 x 0.5	5.5	3	2.5
4 x 0.7	7	4	3
5 x 0.8	8.5	5	4
6 x 1.0	10	6	5
8 x 1.25	13	8	6
10 x 1.5	16	10	8
12 x 1.75	18	12	10

*The strength class signifies the screw's tensile strength.
 (Ex.) A2-70 This indicates that the minimum value of tensile strength is 700 N/mm².
 The steel class is A2 (Austenitic Stainless Steel).

Reference: Dimensions of Counterbore and Cap Screw Hole for Hexagon Socket Head Cap Screws. P.4013

Type	Part Number		ℓ
	M - L		
SCB	2 - 3	Fully Threaded Screws	ℓ
	4		
	5		
	6		
	8		
	2.5 - 4	Fully Threaded Screws	
	5		
	6		
	8		
	10		
	2.6 - 4	Fully Threaded Screws	
	5		
	6		
	8		
	10		
3 - 4	Fully Threaded Screws		
5			
6			
8			
10			
12			
15			
16			
18			
20			
4 - 5	Fully Threaded Screws		
6			
8			
10			
12			
15			
16			
18			
20			
22			
5 - 5	Fully Threaded Screws		
6			
8			
10			
12			
14			
15			
16			
18			
20			
6 - 6	Fully Threaded Screws		
8			
10			
12			
14			
15			
16			
18			
20			
22			
8 - 8	Fully Threaded Screws		
10			
12			
14			
15			
16			
18			
20			
22			
25			
10 - 10	Fully Threaded Screws		
12			
15			
20			
25			
30			
35			
40			
45			
50			
12 - 15	Fully Threaded Screws		
20			
25			
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45			
*50			
55			
60			
15 - 15	Fully Threaded Screws		
20			
25			
30			
35			
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45			
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55			
60			
18 - 18	Fully Threaded Screws		
20			
22			
25			
30			
35			
40			
45			
50			
55			
20 - 20	Fully Threaded Screws		
22			
25			
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Type	Part Number		ℓ
	M - L		
SCB	4 - 30	Fully Threaded Screws	ℓ
	35		
	40		
	45		
	50		
	5 - 6	Fully Threaded Screws	
	8		
	10		
	12		
	14		
	2.5 - 4	Fully Threaded Screws	
	5		
	6		
	8		
	10		
2.6 - 4	Fully Threaded Screws		
5			
6			
8			
10			
3 - 4	Fully Threaded Screws		
5			
6			
8			
10			
12			
15			
16			
18			
20			
4 - 5	Fully Threaded Screws		
6			
8			
10			
12			
15			
16			
18			
20			
22			
5 - 5	Fully Threaded Screws		
6			
8			
10			
12			
14			
15			
16			
18			
20			
6 - 6	Fully Threaded Screws		
8			
10			
12			
14			
15			
16			
18			
20			
22			
8 - 8	Fully Threaded Screws		
10			
12			
14			
15			
16			
18			
20			
22			
25			
10 - 10	Fully Threaded Screws		
12			
15			
20			
25			
30			
35			
40			
45			
50			
12 - 15	Fully Threaded Screws		
20			
25			
30			
35			
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55			
60			
15 - 15	Fully Threaded Screws		
20			
25			
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35			
40			
45			
50			
55			
60			
18 - 18	Fully Threaded Screws		
20			
22			
25			
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55			
20 - 20	Fully Threaded Screws		
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Type	Part Number		ℓ
	M - L		
SCB	8 - 18	Fully Threaded Screws	ℓ
	20		
	22		
	25		
	30		
	5 - 6	Fully Threaded Screws	
	8		
	10		
	12		
	14		
	2.5 - 4	Fully Threaded Screws	
	5		
	6		
	8		
	10		
2.6 - 4	Fully Threaded Screws		
5			
6			
8			
10			
3 - 4	Fully Threaded Screws		
5			
6			
8			
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12			
15			
16			
18			
20			
4 - 5	Fully Threaded Screws		
6			
8			
10			
12			
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16			
18			
20			
22			
5 - 5	Fully Threaded Screws		
6			
8			
10			
12			
14			
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16			
18			
20			
6 - 6	Fully Threaded Screws		
8			
10			
12			
14			
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16			
18			
20			
22			
8 - 8	Fully Threaded Screws		
10			
12			
14			
15			
16			
18			
20			
22			
25			
10 - 10	Fully Threaded Screws		
12			
15			
20			
25			
30			
35			
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45			
50			
12 - 15	Fully Threaded Screws		
20			
25			
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35			
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60			
15 - 15	Fully Threaded Screws		
20			
25			
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35			
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45			
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55			
60			
18 - 18	Fully Threaded Screws		
20			
22			
25			
30			
35			
40			
45			
50			
55			
20 - 20	Fully Threaded Screws		
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Part Number Example **Part Number**
 SCB3-5