

LOW HEAD CAP SCREWS / EXTRA LOW HEAD CAP SCREWS

SOCKET HEAD CAP SCREWS / SPRING WASHERS

— THROUGH HOLE TYPE —

Ⓜ Non JIS material definition is listed on P.1351 - 1352

RoHS **CBS** (Low head cap screw)

M S45C (M3 8 · M12)
M SCM435 (M10)
H 22~32HRC
S Black Oxide (Fe3O4) (strength rank 10.9)

RoHS **CBSS** (Extra low head cap screw)

M SCM435
H 32~39HRC
S Black Oxide (Fe3O4)

M×P (Coarse thread)	A	E	B	t max.	l	Part Number Type	M-L	U/Price
M3 × 0.5	5.5	2	2	1.5	Full Thread	CBS	3-6	1~99
						8		
						10		
						12		
						16		
M4 × 0.7	7	2.8	2.5	2.3	Full Thread	CBS	4-6	1~99
						8		
						10		
						12		
						16		
M5 × 0.8	8.5	3.5	3	2.7	Full Thread	CBS	5-8	1~99
						10		
						12		
						16		
						20		
M6 × 1.0	10	4	4	3	Full Thread	CBS	6-8	1~99
						10		
						12		
						16		
						20		
M8 × 1.25	13	5	5	3.8	Full Thread	CBS	8-10	1~99
						12		
						16		
						20		
						25		
M10 × 1.5	16	6	6	4.5	Full Thread	CBS	10-16	1~99
						20		
						25		
						30		
						35		
M12 × 1.75	18	7	8	5	Full Thread	CBS	12-20	1~99
						25		
						30		
						35		
						40		

M×P (Coarse thread)	A	E	B	t max.	l1 max.	Part Number Type	M-L	U/Price
M3 × 0.5	6	1.3	1.5	2	1.6	CBSS	3-6	1~99
						8		
						10		
M4 × 0.7	8	1.5	2	2.5	1.6	CBSS	4-6	1~99
						8		
						10		
M5 × 0.8	9	1.5	3	3	1.6	CBSS	5-8	1~99
						10		
						12		
M6 × 1.0	10	1.5	3	4	2.0	CBSS	6-8	1~99
						10		
						12		
M8 × 1.25	13	1.5	4	5	2.5	CBSS	8-8	1~99
						10		
						12		
M10 × 1.5	16	1.5	5	5	3.0	CBSS	10-10	1~99
						12		
						16		

※ "Strength rank" signifies tensile strength of bolts.
 (Example) 10.9
 9 Indicates that the yield point or the minimum proof strength is 90% of the tensile strength.
 98 Indicates that the minimum tensile strength is 980N/mm²(100kgf/mm²)

Order **Part Number** CBS 4-10 CBSS5-12
 Days to Ship **Quotation**
 Price **Quotation**

- Features**
- **LOW HEAD CAP SCREWS**
 - It can be used in the places where conventional hex socket cap screws head makes an obstruction.
 - **EXTRA LOW HEAD CAP SCREWS**
 - Developed to minimize the space required for the screw head size.
 - Requires no countersinking unlike flat-head screws.

RoHS **CBA**

M SCM435 Bolt precision JIS B 1176
S 38~43HRC
S Black Oxide (Fe3O4)

*M 6~8 L ≥ 40 → l1=30
 M10~16 L ≥ 60 → l1=50

M×P (Coarse thread)	A	E	B	l New JIS	Part Number Type	M-L-d	U/Price	Slide Unit Price
M5 × 0.8	8.5	5	4	Full Thread	CBA	5-10-2	1~49	50~200
					20-2			
					30-2			
M6 × 1.0	10	6	5	Full Thread	CBA	6-10-3	1~49	50~200
					20-3			
					30-3			
M8 × 1.25	13	8	6	Full Thread	CBA	8-20-4	1~49	50~200
					30-4			
					40-4			
M10 × 1.5	16	10	8	Full Thread	CBA	10-20-5	1~49	50~200
					30-5			
					40-5			

Ⓜ To be quoted on price & lead time above Max. Q'ty.

M×P (Coarse thread)	A	E	B	l New JIS	Part Number Type	M-L-d	U/Price	Slide Unit Price	
M12 × 1.75	18	12	10	36	Full Thread	CBA	12-30-6	1~49	50~200
						30-7			
						40-6			
						50-6			
						60-6			
M16 × 2.0	24	16	14	44	Full Thread	CBA	16-50-9	1~49	50~200
						60-9			
						70-9			
						80-9			
						100-9			

Ⓜ To be quoted on price & lead time above Max. Q'ty.

Order **Part Number** CBA5-10-2
 Days to Ship **Quotation**

ex The through hole size matches the diameter of the corresponding ejector pins.

Straight type
 Sprue Lock Bushings P.789
 Socket Head Cap Screws (Through hole type CBA)
 Ejector pins

RoHS **CBW** (Spring washers)

M SWRH
H 42~50HRC

d (D)	(h)	t	Part Number Type	No.	U/Price	Slide Unit Price
3.1	5.6	2.0	CBW	3	1~199	200~499
4.1	7	2.4		4		
5.1	8.8	3.2		5		
6.1	9.9	3.2		6		
8.1	12.7	4		8		
10.2	16	5		10		
12.2	18	5		12		
16.2	24.4	7		16		
20.2	30.6	9		20		
24.5	35.9	10		24		

Ⓜ To be quoted on price & lead time above Max. Q'ty.

Order **Part Number** CBW10
 Days to Ship **Quotation**

ex Example

Can be used without enlarging the bolt head counterbore.

Reference : Counterbore and bolt hole sizes for socket head cap screws P.1345

Bolts
Screws
Washers