

Hexagon Socket Cap Screws

Button Head / Button Head Stainless Steel

Hexagon Socket Cap Screws – Button Head

BCB

RoHS10

* e (Incomplete Threaded Portion) = Max. 2 Pitch JIS B 1174

Type	Material	Hardness	Surface Treatment	Strength Class
BCB	4137 Alloy Steel	34~44 HRC min.	Black Oxide	10.9

Hexagon Socket Cap Screws – Button Head Stainless Steel

SBCB (Stainless Steel)

RoHS10

JIS B 1174

Type	Material	Hardness	Surface Treatment	Strength Class
SBCB	304 Stainless Steel or Equivalent	—	—	A2-50

Type	Part Number	Type	Part Number
Type	M - L	Type	M - L
BCB	2 - 3	BCB	5 - 12
	4		15
	5		20
	6		25
	8		30
	10		6 - 8
	2.5 - 4		10
	5		12
	6		15
	8		20
	10		25
	12		30
	15		35
	20		8 - 10
	25		12
	30		15
	35		20
	40		25
	45		30
	50		35
	10 - 15		20
	20		25
	25		30
	30		35
	35		40
40	45		
45	50		
5 - 6	8		
8	10		

Type	Part Number	Type	Part Number
Type	M - L	Type	M - L
SBCB	2 - 3	SBCB	5 - 6
	4		8
	5		10
	6		12
	8		15
	10		20
	12		25
	15		30
	20		35
	25		6 - 8
	30		10
	35		12
	40		15
	45		20
	50		25
	3 - 4		5
	5		6
	6		8
	8		10
	10		12
	12		15
	15		20
	20		25
	25		30
	30		35
35	40		
40	45		
45	50		
50	8 - 10		
12	15		
15	20		
20	25		
25	30		
30	35		
35	40		
40	45		
45	50		

M x P (Coarse)	A	E	B	C (Min.)	d	(e)
2 x 0.4	3.5	1.3	1.3	0.6	2.4	0.6
2.5 x 0.45	4.5	1.5	1.5	0.8	3	0.8
3 x 0.5	5.7	1.65	2	1.04	3.6	1
4 x 0.7	7.6	2.2	2.5	1.3	4.7	1.4
5 x 0.8	9.5	2.75	3	1.56	5.7	1.6
6 x 1.0	10.5	3.3	4	2.08	6.8	2
8 x 1.25	14.0	4.4	5	2.6	9.2	2.5

* The strength class signifies the screw's tensile strength.
 (Ex.) A2 - 50
 This indicates that the minimum value of tensile strength is 500 N/mm².
 The steel class is A2 (Austenitic Stainless Steel)

Part Number Example

BCB4-10
SBCB5-10

* The strength class signifies the screw's tensile strength.
 (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.

Hexagon Socket Cap Screws

Flanged Button Head / Flat Head

Hexagon Socket Cap Screws – Flanged Button Head

Type	Material	Hardness	Surface Treatment	Strength Class
BCBFB	4137 Alloy Steel	32~39 HRC min.	Black Oxide	10.9 Equivalent
BCBFS	304 Stainless Steel	—	—	A2-50 Equivalent

* e (Incomplete Threaded Portion) = Max. 2 Pitch

M x P (Coarse)	A	A ₁	E	h (Min.)	B
3 x 0.5	7	5.2	1.65	0.6	2
4 x 0.7	9.2	6.8	2.2	0.7	2.5
5 x 0.8	11.4	8.5	2.75	0.9	3
6 x 1.0	13.6	10.1	3.3	1	4
8 x 1.25	17	12.6	4.4	1.4	5

Type	Part Number
Type	M - L
BCBFB	3 - 5
	6
	8
	4 - 6
	8
	10
	12
	5 - 8
	10
	12
	15
	6 - 8
	10
	12
	15
BCBFS	8 - 10
	12
	15
	20
	25

Ⓢ BCBFB is not available on L5 with M3.
 Ⓢ BCBFS is not available on L10 with M8.

* The strength class signifies the screw's tensile strength.
 (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 1040 N/mm².

Part Number Example

BCBFB6-15
FB4-10

Hexagon Socket Cap Screws – Flat Head

Type	Material	Hardness	Surface Treatment	Strength Class
FB	4137 Alloy Steel	32~39 HRC min.	Black Oxide	10.9 Equivalent

M x P (Coarse)	A	E	B
4 x 0.7	8	2.3	2.5
5 x 0.8	10	2.8	3.0
6 x 1.0	12	3.3	4.0
8 x 1.25	16	4.4	5.0
10 x 1.5	20	5.5	6.0

FB Black Oxide

Type	Part Number	ℓ	
Type	M - L		
BCBFB	4 - 10	Fully Threaded Screws	
	15		
	20		
	25		
	30		
	35	14	
	FB	5 - 10	Fully Threaded Screws
		12	
		15	
		16	
20			
25		16	
30			
35			
40			
45		18	
FB	6 - 10	Fully Threaded Screws	
	12		
	15		
	16		
	20		
	25	18	
	30		
	35		
	40		
	45	22	
10 - 20	Fully Threaded Screws		