

Clamping Screws

Ball, Angle

Clamping Screws / Hex Head Clamping Screws

Non-Reverse, Serrated

Tip / Head Clamp



RoHS10

Screw grade is judged whether or not it can be used with a commercially available nut which is JIS6H equivalent.

Type		Main Body		Ball	
Ball	Angle	Material	Surface Treatment	Material	Hardness
HRSM	HFSM	EN 1.7220 Equiv.	Black Oxide	EN 1.3505 Equiv.	55~60HRC
HRSU	HFSU	EN 1.4301 Equiv.	-	EN 1.4125 Equiv.	55~60HRC

Ball Type

Angle Type

(Maximum Slope)

Notes on Clamping Screws

This product is used not to rotate face balls but to clamp workpieces. (The face balls do not necessarily rotate depending on each caulking conditions of face balls.)
For Angle Type, a sphere of its hemisphere appears on the face, instead of a flat plane by its rotation. In such a case, return its position using adhesive tape and magnet. Otherwise use Non-reverse Type to avoid rotations. P.1736

Ball Type, Angle Type

Part Number	Type	M	Nominal	L	L1	A	E	B	C	d1	(d2)	S	S1	Allowable Load (kN)	Unit Price			
															HRSM	HRSU	HFSM	HFSU
(Ball) HRSM HRSU	4		10	10.5	2.1	7	4	3	2	2.5	2	0.8	0.3	1.3				
			12	12.5														
			16	16.5														
			20	20.5														
			25	25.5														
(Angle) HFSM HFSU	5		12	12.6	2.4	8.5	5	4	2.5	3	2.5	1	0.4	1.4				
			16	16.6														
			20	20.6														
			25	25.6														
			30	30.6														
(Ball) HRSM HRSU	6		16	16.8	3	10	6	5	3	4	3.2	1.3	0.5	3.3				
			20	20.8														
			25	25.8														
			30	30.8														
			40	40.8														
(Angle) HFSM HFSU	8		20	21.2	3.5	13	8	6	4	5.5	4.5	1.8	0.6	3.9				
			30	31.2														
			35	36.2														
			40	41.2														
			50	51.2														
(Ball) HRSM HRSU	10		25	26.7	4.5	16	10	8	5	7	6	2.3	0.6	3.4				
			30	31.7														
			40	41.7														
			50	51.7														
			60	61.7														
(Angle) HFSM HFSU	12		30	32	5	18	12	10	6	8.5	7.2	2.8	0.8	4.8				
			50	52														
			80	82														
			40	43.3														
			60	63.3														
(Ball) HRSM HRSU	16		80	83.3	6	24	16	14	8	12	10.7	4.3	1.0	9.6				
			80	83.3														

kgf=Nx0.101972



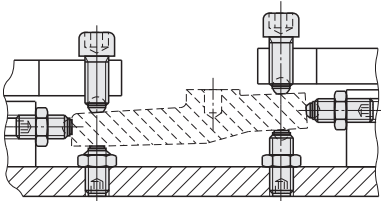
Example



Ordering Example

Part Number

HRSM6-16



Clamping Screws - Non-Reverse, Serrated Type

RoHS10

Type		Main Body		Ball	
Non-Reverse	Non-Reverse Serrated	Material	Surface Treatment	Material	Hardness
HFMB	HFMG	EN 1.7220 Equiv.	Black Oxide	EN 1.3505 Equiv.	55~60HRC
HFUB	-	EN 1.4301 Equiv.	-	EN 1.4125 Equiv.	55~60HRC

Non-Reverse Type

Non-Reverse Serrated Type

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Part Number

Type

M

L Selection

L1

A

E

B

C

d2

S2

Withstand Load (kN)

Unit Price

HFMB

HFUB

HFMG

(Non-Reverse)

HFMB

HFUB

(Non-Reverse Serrated)

HFMG

kgf=Nx0.101972

Ordering Example

Part Number

-

L

HFMB10

-

30

Hex Head Clamping Screws - Tip Clamp Type

RoHS10

Type		Main Body			Ball	
Ball	Angle	Material	Hardness	Surface Treatment	Material	Hardness
BRASM	BFASM	EN 1.7220 Equiv.	32~40HRC	Black Oxide	EN 1.3505 Equiv.	62HRC~

Ball Type

Angle Type

(Maximum Slope)

Notes on Clamping Screws

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For Angle Type, a sphere of its hemisphere appears on the face, instead of a flat plane by its rotation. In such a case, return its position using adhesive tape and magnet.

Part Number

Type

M

L Selection

L1

A

B

E1

d1

d3

d4

(S2)

(S3)

Unit Price

BRASM

BFASM

BRASM

BFASM

Ordering Example

Part Number

-

L

BFASM6

-

20

Ordering Example

Part Number

-

L

BFASM6

-

20

Hex Head Clamping Screws - Head Clamp Type

RoHS10

Type		Main Body			Ball	
Ball	Angle	Material	Hardness	Surface Treatment	Material	Hardness
BRSM	BFSM	EN 1.7220 Equiv.	32~40HRC	Black Oxide	EN 1.3505 Equiv.	62HRC~
BRSMS	-	EN 1.4301 Equiv.	-	-	EN 1.4125 Equiv.	55HRC~

Ball Type

Angle Type

(Maximum Slope)

Notes on Clamping Screws

This product is used not to rotate face balls but to clamp workpieces. (The face balls do not necessarily rotate depending on each caulking conditions of face balls.)
For Angle Type, a sphere of its hemisphere appears on the face, instead of a flat plane by its rotation. In such a case, return its position using adhesive tape and magnet.

Part Number

Type

M

L Selection

L1

B

E

d1

d2

(S)

(S1)

Unit Price

BRSM

BRSMS

BFSM

BRSM

BRSMS

BFSM

Ordering Example

Part Number

-

L

BFSM12

-

50

Ordering Example

Part Number

-

L

BFSM12

-

50