

Clamping Screws

-Ball / Angle-

RoHS 10

Type		Main Body		Ball	
Ball Type	Angle Type	Material	Surface Treatment	Material	Hardness
HRSM	HFSM	SCM435	Blackening	SUJ2	55~60HRC
HRSU	HFSU	SUSXM7	-	SUS440C	55~60HRC
HRSUC	-			Alumina	1100HV

M	L1	A	E	B	C	d1	d2	S	S1	Withstand Load (kgf)
4	2.1	7	4	3	2	2.5	2	0.8	0.3	1.3
5	2.4	8.5	5	4	2.5	3	2.5	1	0.4	1.4
6	3	10	6	5	3	4	3.2	1.3	0.6	3.3
8	3.5	13	8	6	4	5.5	4.5	1.8	0.8	3.9
10	4.5	16	10	8	5	7	6	2.3	0.8	3.4
12	5	18	12	10	6	8.5	7.2	2.8	1	4.8
16	6	24	16	14	8	12	10.7	4.3	1.3	9.6

kgf=Nx0.101972

⚠ Screws grade is judged whether or not it can be used with commercially available nut which is JIS6g Equivalent.

Ball Type / Angle Type (Steel Ball / Stainless Ball)

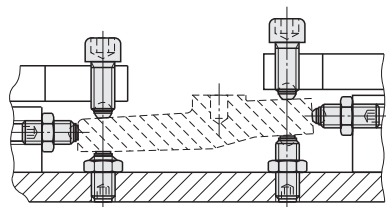
Part Number	L	
	M	Nominal
(Ball) HRSM HRSU	4	10
	5	12
	6	16
	8	20
(Angle) HFSM HFSU	4	10.5
	5	12.5
	6	16.5
	8	20.5
6	10	10
	12	12
	16	16
	20	20
8	12	12
	16	16
	20	20
	25	25
10	16	16
	20	20
	25	25
	30	30
12	20	20
	30	30
	40	40
	50	50
16	25	25
	30	30
	40	40
	50	50
20	30	30
	40	40
	50	50
	60	60
30	40	40
	50	50
	60	60
	80	80
40	50	50
	60	60
	80	80
	100	100

Ball Type (Alumina Ball)

Part Number	L	
	M	Nominal
4	10	10.5
	16	16.5
	25	25.5
5	20	20.6
	30	30.6
	40	40.8
6	16	16.8
	25	25.8
	40	40.8
8	20	21.2
	35	36.2
	50	51.2
10	25	26.7
	40	41.7

Order Example **Part Number**
HRSM6-16

ex Example



Notes on Clamping Screws

This product is used not to rotate face balls but to clamp works. (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.

Clamping Bolts / Hexagon Head Clamping Bolts

-Non-Reverse / Serrations- -Tip / Head Clamp Type-

Clamping Screws RoHS 10

Type		Main Body		Ball	
Non-Reverse	Non-Reverse Serration	Material	Surface Treatment	Material	Hardness
HFMB	HFMG	SCM435	Blackening	SUJ2	55~60HRC
HFUB	-	SUSXM7	-	SUS440C	55~60HRC

⚠ Screws grade is judged whether or not it can be used with commercially available nut which is JIS6g Equivalent.

Part Number	Type	L Selection							L1	A	E	B	C	d2	S2	Withstand Load (kgf)
		M	6	8	10	12	16									
(Non-Reverse) HFMB HFUB	(Non-Reverse Serration) HFMG	6	16	20	25	30	40	3	10	6	5	3	3.2	0.45	3.3	
		8	20	30	35	40	50	3.5	13	8	6	4	4.5	0.5	3.9	
		10	25	30	40	50	60	4.5	16	10	8	5	6	0.6	3.4	
		12	30	50	80	5	18	12	10	6	7.2	0.75	4.8			
16	40	60	80	6	24	16	14	8	10.7	1	9.6					

Order Example **Part Number** - L
HFMB10 - 30

⚠ Short L Dimension Type is added for space-savings.

Hexagon Head Clamping Screws Tip Clamp Type

RoHS 10

Type		Main Body			Ball	
Ball Type	Angle Type	Material	Hardness	Surface Treatment	Material	Hardness
BRASM	BFASM	SCM435	32~40HRC	Blackening	SUJ2	62HRC~

Part Number	Type	L Selection							L1	A	B	E1	d1	d3	d4	(S2)	(S3)
		M	6	8	10	12	16										
BRASM BFASM	Tip Clamp Type	6	20	30	40	2	11.5	10	4	5.6	4	3.2	1.3	0.6			
		8	20	30	40	2.5	15	13	5.5	8	5.5	4.5	1.8	0.8			
		10	40	50	3	19.6	17	7	9.5	7.1	6	2.3	0.9				
		12	50	60	3.5	21.9	19	8	12.7	8.7	7.2	2.8	1				
		16	50	60	4	27.7	24	10	15.9	11.9	10.7	4.3	1.3				

Order Example **Part Number** - L
BFASM6 - 20

Hexagon Head Clamping Screws Head Clamp Type

RoHS 10

Type		Main Body			Ball	
Ball Type	Angle Type	Material	Hardness	Surface Treatment	Material	Hardness
BRSM	BFSM	SCM435	32~40HRC	Blackening	SUJ2	62HRC~
BRSMS	-	SUS304	-	-	SUS440C	55HRC~

Part Number	Type	L Selection							L1	B	E	d1	d2	(S)	(S1)
		M	6	8	10	12	16								
BRSM BRSMS BFSM	Head Clamp Type	6	30	40	2	10	6	5.6	4.5	2	0.8				
		8	30	40	2.5	13	8	6.7	2.8	1					
		10	40	50	3	17	10	9.5	7.9	3.2	1.2				
		12	50	60	3.5	19	12	12.7	10.8	4.7	1.8				
		16	50	60	4	24	16	15.9	13.3	5.7	2.1				

Order Example **Part Number** - L
BFSM12 - 50