


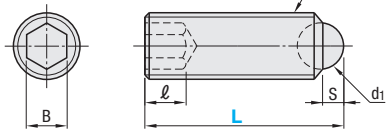
Clamping Screws

Ball, Angle

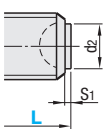


Type		Main Body			Ball	
Ball	Angle	Material	Hardness	Surface Treatment	Material	Hardness
RSM	FSM	SCM435 Equivalent	38~43HRC	Black Oxide	SUJ2 Equivalent	55~60HRC
RSU	FSU	SUS304 Equivalent	-	-	SUS440C Equivalent	55HRC~

Ball Type



Angle Type



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

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.1734**

RoHS10

Ball Type

Part Number Type	M	L Selection	d1	B	ℓ	S	Withstand Load (kN)	Mass (g)	Unit Price	
									RSM	RSU
RSM RSU	3	5.2 10.2	1.5	1.5	1.2	0.5	0.5	0.2~0.4		
	4	6.5 10.5 16.5	2.5	2	2	0.8	1.3	0.4~1		
	5	8.6 12.6 20.6	3	2.5		1	1.4	0.8~2.3		
	6	10.8 16.8 20.8 25.8	4	3	3.5	1.3	3.3	1.5~4		
	8	*11.2 13.2 21.2 26.2 31.2	5.6	4	5(2.5)	1.8	3.9	2.5~9		
	10	*13.7 17.7 21.7 26.7 36.7	7.1	5	6(3.5)	2.3	3.4	5~16		
FSM FSU	12	*18 22 32 42	8.7	6	8(3)	2.8	4.8	10~28		
	16	*23.3 38.3 53.3	11.9	8	10(3)	4.3	8.9	22~48		

⚠ ℓ dimension for * marked L dimension is in ().

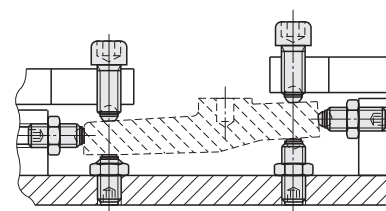
Angle Type

Part Number Type	M	L Selection	(d2)	B	ℓ	S1	Withstand Load (kN)	Mass (g)	Unit Price	
									FSM	FSU
FSM FSU	4	6 10 16	2	2	2	0.3	1.3	0.4~1		
	5	8 12 20	2.5	2.5		0.4	1.4	0.8~2.3		
	6	10 16 20 25	3.2	3	3.5	0.5	3.3	1.5~4		
	8	*10 12 20 25 30	4.5	4	5(2.5)	0.6	3.9	2.5~9		
	10	*12 16 20 25 35	6	5	6(3.5)	0.6	3.4	5~16		
	12	*16 20 30 40	7.2	6	8(3)	0.8	4.8	10~28		
FSM	16	*20 25 35 50	10.7	8	10(3)	1.0	8.9	22~48		

⚠ ℓ dimension for * marked L dimension is in ().

Ordering Example: Part Number - L
 RSM4 - 10.5

EX Example



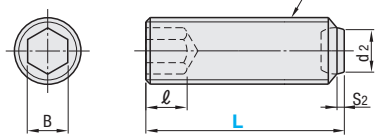
Clamping Screws / High Locked Screws

Non-Reverse, Serrated

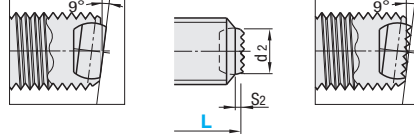
Clamping Screws

Type		Main Body			Ball	
Non-Reverse	Non-Reverse Serrated	Material	Surface Treatment	Material	Hardness	
FSMB	FSMG	SCM435 Equivalent	Black Oxide	SUJ2 Equivalent	55~60HRC	
FSUB	FSUG	SUS304 Equivalent	-	SUS440C Equivalent	55~60HRC	

Non-Reverse Type



Serrated Type



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

Non-Reverse Serrated Type

Part Number Type	M	L Selection	(d2)	B	ℓ	S2	Withstand Load (kN)	Mass (g)	Unit Price			
									FSMB	FSUB	FSMG	FSUG
FSMB FSUB FSMG FSUG	6	10 16 20 25	3.2	3	3.5	0.45	3.3	1.5~4				
	8	*10 12 20 25 30	4.5	4	5(2.5)	0.5	3.9	2.5~9				
	10	*12 16 20 25 35	6	5	6(3.5)	0.6	3.4	5~16				
	12	*16 20 30 40	7.2	6	8(3)	0.75	4.8	10~28				
16	*20 25 35 50	10.7	8	10(3)	1	8.9	22.5~48					

⚠ ℓ dimension for * marked L dimension is in ().

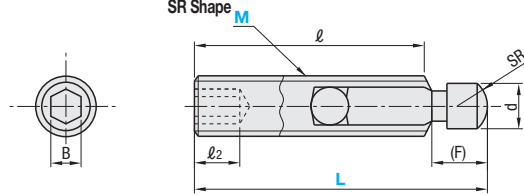
Ordering Example: Part Number - L
 FSMB6 - 16

kgf=Nx0.101972

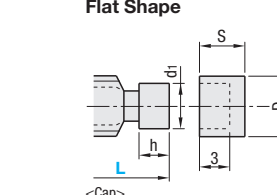
High Locked Screws

Type	Tip Shape	Main Body		Ball		Head		Cap
		Material	Surface Treatment	Material	Hardness	Material	Hardness	
BALTAR	SR	S45C	Black Oxide	SUS440C	58~63HRC	SUS440C	55~60HRC	Polyacetal (White)
SALTAR		SUS304 Equivalent	-					
BALTAN	Flat							

SR Shape



Flat Shape



⚠ ℓ dimension for * marked L dimension is in ().

Ordering Example: Part Number - L
 BALTAR6 - 30

kgf=Nx0.101972

Part Number Type	M	L	B	d	SR	d1	(F)	h	ℓ	ℓ2	Cap (tpc.)		Unit Price		
											D	S	BALTAR	SALTAR	BALTAN
BALTAR SALTAR BALTAN	6	20	3	4	4	-	4	-	12.8	2.5	-	-	-	-	-
		30							22.8	3.5	4.7	6	-	-	-
		50							42.8	3.5	4.7	6	-	-	-
BALTAR SALTAR BALTAN	8	25	4	5.5	5.5	-	5	-	16.5	3.5	-	-	-	-	-
		40							31.5	5	6.5	8	-	-	-
		60							51.5	5	6.5	8	-	-	-
BALTAR SALTAR BALTAN	10	30	5	7	7	-	6	-	20.4	4.5	-	-	-	-	-
		50							40.4	6	8	10	-	-	-
		70							60.4	6	8	10	-	-	-

Ordering Example: Part Number - L
 BALTAR6 - 30

EX Example



Features: Although the screw rotates, the screw head contacting the workpiece does not rotate, thus the head will not damage the workpiece.

Features: Screws are less likely to loosen due to intervention of a ball absorbing the workpiece vibration.