

Clamping Screws

Ball, Angle

Clamping Screws / High Locked Screws

Non-Reverse, Serrated



RoHS10

Type		Main Body			Ball	
Ball	Angle	Material	Hardness	Surface Treatment	Material	Hardness
RSM	FSM	EN 1.7220 Equiv.	38~43HRC	Black Oxide	EN 1.3505 Equiv.	55~60HRC
RSU	FSU	EN 1.4301 Equiv.	-	-	EN 1.4125 Equiv.	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

Part Number		L Selection							Unit Price	
Type	M								RSM	RSU
RSM RSU	3	5.2	10.2							
	4	6.5	10.5	16.5						
	5	8.6	12.6	20.6						
	6	10.8	16.8	20.8	25.8					
	8	*11.2	13.2	21.2	26.2	31.2				
	10	*13.7	17.7	21.7	26.7	36.7				
	12	*18	22	32	42					
	16	*23.3	38.3	53.3						

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

Part Number		L Selection							Unit Price	
Type	M								FSM	FSU
FSM FSU	4	6	10	16						
	5	8	12	20						
	6	10	16	20	25					
	8	*10	12	20	25	30				
	10	*12	16	20	25	35				
	12	*16	20	30	40					
FSM	16	*20	25	35	50					

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

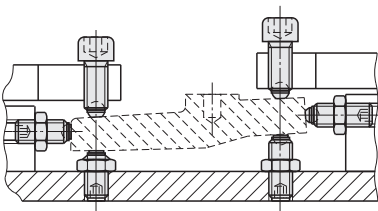
Ordering Example

Part Number - L

RSM4 - 10.5

ex

Example



Clamping Screws

RoHS10

Type		Main Body			Ball	
Non-Reverse	Non-Reverse Serrated	Material	Surface Treatment	Material	Hardness	
FSMB	FSMG	EN 1.7220 Equiv.	Black Oxide	EN 1.3505 Equiv.	55~60HRC	
FSUB	FSUG	EN 1.4301 Equiv.	-	EN 1.4125 Equiv.	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.

Part Number		L Selection							Withstand Load (kN)	Mass (g)	Unit Price			
Type	M										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

RoHS10

Type	Tip Shape	Main Body		Ball		Head		Cap
		Material	Surface Treatment	Material	Hardness	Material	Hardness	
BALTAR	SR	EN 1.1191 Equiv.	Black Oxide	EN 1.4125 Equiv.	58~63HRC	EN 1.4125 Equiv.	55~60HRC	-
SALTAR	Flat	EN 1.4301 Equiv.	-					Polyacetal (White)
BALTAN								

SR Shape

Flat Shape

<Cap>
* Included in BALTAN only.

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

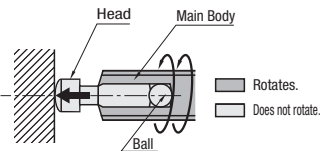
Ordering Example

Part Number - L

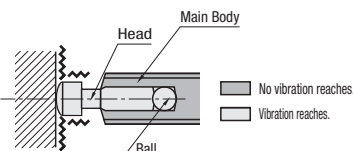
BALTAR6 - 30

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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.