

Clamping Screws

-Ball / Angle-

STOCK ITEM RoHS 10
PRINTED IN NAVY

Type		Main Body			Ball	
Ball Type	Angle Type	Material	Hardness	Surface Treatment	Material	Hardness
RSM	FSM	SCM435	38~43HRC	Blackening	SUJ2	55~60HRC
RSU	FSU	SUSXM7	-	-	SUS440C	55HRC~
RSUC	-	-	-	-	Alumina	1100HV

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

Ball Type

Part Number	Type	L					d1	B	ℓ	S	Withstand Load (kN)	Mass (g)
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		0.8	1.3	0.4~1
	5	8.6	12.6	20.6			3	2.5	2	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
	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	

Ⓢ dimension for * marked L dimension is in ().

Angle Type

Part Number	Type	L					d1	B	ℓ	S	Withstand Load (kN)	Mass (g)
RSUC	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	2	1	1.4	0.8~2.3
	6	10.8	16.8	25.8			4	3	3.5	1.3	3.3	1.5~4
	8	13.2	21.2	31.2			5.5	4	5	1.8	3.9	2.5~9
	10	17.7	26.7				7	5	6	2.3	3.4	5~16
	12	22	42				8.5	6	8	2.8	4.8	10~28

Angle Type

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

Ⓢ dimension for * marked L dimension is in ().

Order Example: Part Number - L
RSM4 - 10.5

EX Example

kgf~Nx0.101972

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 Screws / High Locked Screws

-Non-Reverse / Serrations-

Clamping Screws RoHS 10

Type		Main Body			Ball	
Non-Reverse Type	Serration Type	Material	Surface Treatment	Material	Hardness	Hardness
FSMB	FSMG	SCM435	Blackening	SUJ2	55~60HRC	
FSUB	FSUG	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	M	L					d2	B	ℓ	S2	Withstand Load (kN)	Mass (g)	
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

Ⓢ dimension for * marked L dimension is in ().

Order Example: Part Number - L
FSMB6 - 16

High-Lock Screws RoHS 10

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

Ⓢ Cap
*Included with BALTAN only.

Part Number

Type	M	L	B	d	SR	d1	(F)	h	ℓ	ℓ2	Cap (1pc)	
											D	S
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	3.5	-	-	
	8	25	4	5.5	5.5	-	5	-	16.5	3.5	-	-
		40		-	5.5	-	4	31.5	5	6.5	8	
		60		-	-	-	-	51.5	5	-	-	
10	30	5	7	7	-	6	-	20.4	4.5	-	-	
	50		-	7	-	5	40.4	6	8	10		
	70		-	-	-	-	60.4	6	-	-		

Order Example: Part Number - L
BALTAR6 - 30

EX Example

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

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