

Shaft Collars

Threaded Bore / Set Screw / Slit Type

Shaft Collars – Threaded Bore / Set Screw Type

RoHS10

Type		Material	Surface Treatment	Accessories
Fine Thread	Coarse Thread			
SCCNS	SCCNN	1045 Carbon Steel or Equivalent	Black Oxide Coating	Set Screw 2 pcs. (4137 Alloy Steel or Equivalent) / Crush Pads 2 pcs. (Copper Alloy)
PSCCNS	PSCCNN			
SSCCNS	SSCCNN	304 Stainless Steel or Equivalent	Electroless Nickel Plating	Set Screw 2pcs. (304 Stainless Steel or Equivalent) / Crush Pads 2pcs. (Copper Alloy)

Type	No.	B		m x Pitch		D ₁	d ₁	C	Set Screw M x Length			
		Fine	Coarse	Fine	Coarse							
Fine Thread Type	*3	6	6	M3 x 0.35	—	7	4.5	0.2	M3 x 3			
	4			M4 x 0.5	M4 x 0.7	8	5.5					
	5			M5 x 0.5	M5 x 0.8	11	10					
	6			M6 x 0.75	M6 x 1.0	12	11					
	8			M8 x 0.75	M8 x 1.25	14	12					
Coarse Thread Type	*10A	10	10	M10 x 0.75	M10 x 1.5	16	13	0.5	M4 x 3			
	12			M12 x 1.0	—	20	15					
	*15			M15 x 1.0	—	24	20					
	16			M16 x 1.0	M16 x 2.0	26	22					
	PSCCNS			M20 x 1.0	M20 x 2.5	32	27					
	20			M25 x 1.5	—	38	31					
	*25			M30 x 1.5	M30 x 3.5	46	38					
	30			—	—	—	—					
	15			15	15	—	—			—	—	—

* marked sizes are not available for Coarse Thread Type.

Shaft Collars – Threaded Bore / Slit Type

RoHS10

Type		Material	Surface Treatment	Accessories
Fine Thread	Coarse Thread			
SCSN	SCSNN	1045 Carbon Steel or Equivalent	Black Oxide Coating	Hex Socket Head Cap Screw 1 pc. (4137 Alloy Steel or Equivalent)
PSCSN	PSCSNN			
SSCSN	SSCSNN	304 Stainless Steel or Equivalent	Electroless Nickel Plating	Hex Socket Head Cap Screw 1 pc. (304 Stainless Steel or Equivalent)

Type	No.	B	m x Pitch		D ₁	M (Coarse)	d	R	W	X			Y			Z			Available Types						
			(Fine)	(Coarse)						(Fine)	(Coarse)	(Fine)	(Coarse)	(Fine)	(Coarse)	(Fine)	(Coarse)	(Fine)	(Coarse)	(Fine)	(Coarse)	(Fine)	(Coarse)	(Fine)	(Coarse)
Fine Thread Type	3	8	M3 x 0.35	M3 x 0.5	16	M3	3.4	3	1.0	4.5	4.5	2.2	3-5	•	•	•	•	•	•	•	•				
	4		M4 x 0.5	M4 x 0.7	18					5	5	3	3.5-6	•	•	•	•	•	•	•	•	•	•		
	5		M5 x 0.5	M5 x 0.8	20					5.5	5.5	4	5-6.5	•	•	•	•	•	•	•	•	•	•	•	
	6		M6 x 0.75	M6 x 1.0	20					6	6	4	6-6.5	•	•	•	•	•	•	•	•	•	•	•	
	8		M8 x 0.75	M8 x 1.25	25					8	8	—	8-9	•	•	•	•	•	•	•	•	•	•	•	•
	*8A		M8 x 1.0	—	25					8	8	—	8-9	•	•	•	•	•	•	•	•	•	•	•	•
	10		M10 x 0.75	M10 x 1.5	30					9	9	—	9-10	•	•	•	•	•	•	•	•	•	•	•	•
	*10A		M10 x 1.0	—	30					9	9	—	9-10	•	•	•	•	•	•	•	•	•	•	•	•
	12		M12 x 1.0	M12 x 1.75	30					10	10	—	10-11	•	•	•	•	•	•	•	•	•	•	•	•
	*12A		M12 x 1.25	—	34					10	10	—	10-11	•	•	•	•	•	•	•	•	•	•	•	•
Coarse Thread Type	*14	12	M14 x 1.5	—	34	M5	5.5	4.5	1.5	11.5	—	—	10-11	•	•	•	•	•	•	•					
	16		M16 x 1.0	M16 x 2.0	35					12	12.5	6	11-12	•	•	•	•	•	•	•	•	•	•		
	*16A		M16 x 1.5	—	35					12	12.5	6	11-12	•	•	•	•	•	•	•	•	•	•	•	
	18		M18 x 1.5	—	40					12.5	—	—	12-13	•	•	•	•	•	•	•	•	•	•	•	
	20		M20 x 1.0	M20 x 2.5	40					14	14	—	13	•	•	•	•	•	•	•	•	•	•	•	
	*20A		M20 x 1.5	—	40					14	14	—	13	•	•	•	•	•	•	•	•	•	•	•	
	*22		M22 x 1.5	—	45					17	—	—	14-15	•	•	•	•	•	•	•	•	•	•	•	
	*24		—	M24 x 3.0	45					17	17	—	16	•	•	•	•	•	•	•	•	•	•	•	
	*25		M25 x 1.5	—	55					20	—	—	17-20	•	•	•	•	•	•	•	•	•	•	•	
	*27		M27 x 1.5	—	55					20	—	—	17-20	•	•	•	•	•	•	•	•	•	•	•	
30	M30 x 1.5	M30 x 3.5	55	20	20	—	18-20	•	•	•	•	•	•	•	•	•	•	•							

* marked sizes are not available for Coarse Thread Type.

** marked sizes are not available for Fine Thread Type.

W dimension of Coarse Thread Type No.5 is 1.5.

Part Number Example: SCCNS20

Application Example: Shaft with SCCNS collar, bearings, and bearing housing.

Shaft Collars

Hinged / One-Touch Standard & Mount Hole Type

Features: Compared with conventional shaft collars, hinged structure enables easy fitting and removal in limited work space. Washer fitted onto hex socket head cap screw reduces the chances of the screw falling out when the collar is removed from the shaft.

Shaft Collars – Hinged Type

RoHS10

Type	Main Body		Hinge Material	Spring Pins		Hexagon Socket Head Cap Screw Material	Washer Material
	Material	Surface Treatment		Material	Hardness		
SCSH	1045 Carbon Steel or Equivalent	Black Oxide Coating	304 Stainless Steel or Equivalent	420 Stainless Steel or Equivalent	HRC 42-48	4137 Alloy Steel or Equivalent	Nylon Washer (1 Pc.)
PSCSH		Electroless Nickel Plating					
SSCSH	304 Stainless Steel or Equivalent	—	304 Stainless Steel or Equivalent	—	—	304 Stainless Steel or Equivalent	—

Type	D	B	D ₁	M (Coarse Thread)	d	R	W	X	Y	Hex Socket Head Cap Screw M x Length	Application Example
PSCSH	12	12	35	M5	6	4.5	1.5	10	6	M5 x 10	
SSCSH	15	15	40	M6	7	6	1.5	12	7	M6 x 12	
	20	20	50	M6	7	6	1.5	14	7	M6 x 16	
	25	25	55	M6	7	6	1.5	18	10	M6 x 16	
	30	30	55	M6	7	6	1.5	20	10	M6 x 16	

Shaft Collars – One Touch Type

RoHS10

Type	Material	Surface Treatment	Accessories
WSC	2000 Series Aluminum Alloy	Clear Anodize	Hex Socket Head Cap Screw 1 pc. (304 Stainless Steel or Equivalent)
WSCB		Black Anodize	
WSCM		—	

Lever Material: 1045 Carbon Steel or Equivalent / Surface Treatment 45 HRC~ Tuftride®
Spring Material: Spring Steel (ASTM A228)
Tapped holes are not anodized.

Standard Type

Mount Hole Type

Lever Operating Direction

Type	d	D	H	P	M1 x Depth	Available Types			Features
						WSC	WSCB	WSCM	
Standard	10	50	40	25	M4 x 8	•	•	•	<ul style="list-style-type: none"> The lever pressed by the spring gives consistent pressure on the shaft. Shaft collar can be easily removed by moving the lever down with a finger. Shafts do not require any flat alterations to secure the collar as in the case with Set Screws and can be clamped without damage. Working time can be reduced for frequent collar mounting and/or removal. Suitable for use in holding spools of material such as paper, film, metal foil, etc., and for uses in applications where there is no load on the collars.
	12	52	42	27		•	•	•	
	15	55	45	30		•	•	•	
	16	56	46	31		•	•	•	
	20	60	50	35		•	•	•	
Mount Hole	22	62	52	37	M5 x 10	•	•	•	
	25	65	55	40		•	•	•	
	25.4	65.4	55.4	40.4		•	•	•	
	30	70	60	45		•	•	•	
	30	70	60	45		•	•	•	

Application Example: WSC / WSCB / WSCM

(1) Vertical Use

(2) Horizontal Use

(3) Never use this collar in directions where loads apply.

Part Number Example: WSC10, WSCB16