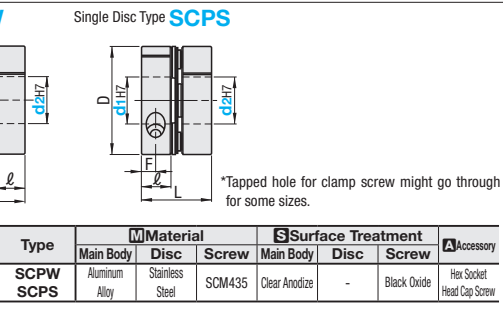
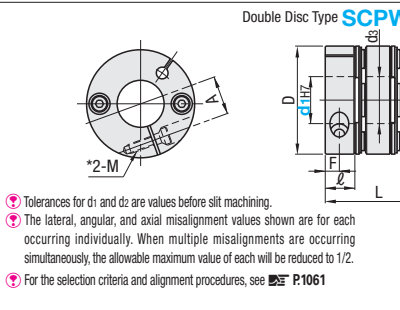


Disc Couplings "Servo-Fine"

High Rigidity Clamping / High Positioning Accuracy Clamping / Keywayed Bore

For Servo Motors

⚠ The stainless discs of this product have sharp edges that may cause injuries. Use of thick protective gloves is recommended.



Part Number	Type	No.	d1, d2 Selection (d1≤d2)										D	d3	L		F	A	Clamp Screw		Unit Price								
			*3	4	5	6	8	9	10	11	12	14			15	17			19	20	22	24	25	M	Tightening Torque (N·m)	SCPW	SCPS		
Double Disc SCPW	16	3	4	5	6									16.6	6.5	23	16.6	7.2	3	5.3	M2.6	1.0							
	21		4	5	6	8	9							21	9.5	24.5	16.7	7	3.5	7	M2.6	1.2							
	28			5	6	8	9	10						28	12	32.2	21.5	9	4	9.5	M3	1.5							
	34				6	8	9	10	11	12	14			34	15	35	23.3	9.8	5	12	M3	1.5							
Single Disc SCPS	46				8	9	10	11	12	14	15	17	19	46	22	44	29.8	12.6	6	16.5	M4	3.5							
	55									12	14	15	17	19	20	22	24	25	54.5	26	55	37.2	16	7	20.5	M5	6.0		

When d1, d2 is "3", use with the load torque 60% or less than shown in the table to prevent slipping.

Double Disc Type (High Rigidity)

Part Number	Type	No.	Allowable Torque (N·m)	Angular Misalign (°)	Lateral Misalign (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m ²)	Allowable Axial Misalign (mm)	Compensator Factor coefficient	Mass (g)
SCPW	16	1.0	1.0	0.10	500	10000	4.22x10 ⁻⁷	±0.20	1.5	11	
	21	1.2	1.0	0.10	800	10000	1.11x10 ⁻⁶	±0.20	1.5	17	
	28	1.6	1.2	0.15	3000	10000	4.68x10 ⁻⁶	±0.20	1.5	42	
	34	4.0	1.5	0.20	4800	10000	1.10x10 ⁻⁵	±0.30	1.5	65	
	46	10.0	1.5	0.25	11500	10000	4.70x10 ⁻⁵	±0.30	1.5	151	
	55	25.0	1.5	0.25	19000	10000	1.19x10 ⁻⁴	±0.30	1.5	260	

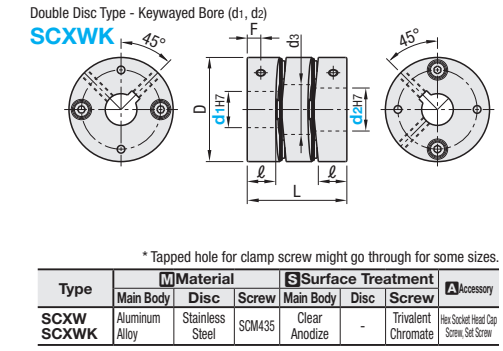
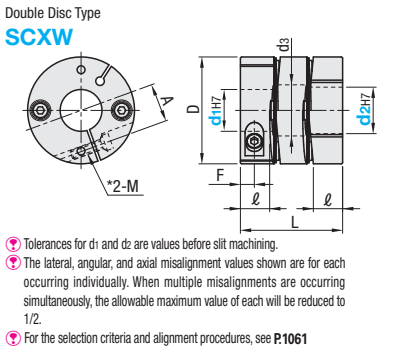
Single Disc Type (High Rigidity)

Part Number	Type	No.	Allowable Torque (N·m)	Angular Misalign (°)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m ²)	Allowable Axial Misalign (mm)	Compensator Factor coefficient	Mass (g)
SCPS	16	1.0	1.0	1000	10000	3.16x10 ⁻⁷	±0.10	1.5	8	
	21	1.2	1.0	1700	10000	7.90x10 ⁻⁷	±0.10	1.5	12	
	28	1.6	1.2	6000	10000	3.24x10 ⁻⁶	±0.10	1.5	30	
	34	4.0	1.5	8000	10000	7.60x10 ⁻⁶	±0.15	1.5	45	
	46	10.0	1.5	20000	10000	3.23x10 ⁻⁵	±0.15	1.5	105	
	55	25.0	1.5	33000	10000	8.19x10 ⁻⁵	±0.15	1.5	180	

Static torsional spring constant, inertia moment, and mass values are for cases of maximum shaft diameter.

Single Disc Type cannot tolerate lateral misalignment.

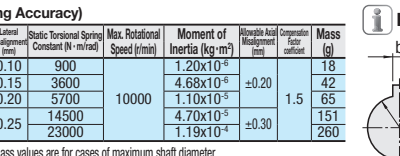
Features: Torsional rigidity is improved over the conventional type (SCPW) (by approx. up to 26%). Suitable for applications requiring high accuracy positioning at high speeds. All the screws are Trivalent Chromate treated and reliable to use in clean environments.



Part Number	Type	No.	d1, d2 Selection (d1≤d2)										D	d3	L	l	F		A	Clamp Screw		Unit Price							
			Only the dimensions in () are selectable for Keywayed Bore Type.														SCXW	SCXWK		M	Tightening Torque (N·m)	SCXW	SCXWK						
Double Disc Type SCXW	21	4	5	6	(8)									21	9.5	24.5	7	3.5	3	7	M2.6	1.2							
	28		5	6	(8)	(10)								28	12	32	9	4	4	9.5	M3	1.5							
Double Disc Type - Keywayed Bore SCXWK	34			6	(8)	(10)	(12)	(14)						34	17	35	9.8	5	4.5	12	M3	1.5							
	46				8	(10)	(12)	(14)	15	17	19			46	22	44	12.6	6	6	16.5	M4	3.5							
	55										12	14	15	17	19	20	22	24	25	54.5	26	55	16	7	-	20.5	M5	7	

Double Disc Type (High Positioning Accuracy)

Part Number	Type	No.	Allowable Torque (N·m)	Angular Misalign (°)	Lateral Misalign (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m ²)	Allowable Axial Misalign (mm)	Compensator Factor coefficient	Mass (g)
SCXW	21	1.2	1.0	0.10	900	10000	1.20x10 ⁻⁶	±0.20	1.5	18	
	28	1.6	1.2	0.15	3600	10000	4.68x10 ⁻⁶	±0.20	1.5	42	
	34	4.0	1.5	0.20	5700	10000	1.10x10 ⁻⁵	±0.30	1.5	65	
	46	10.0	1.5	0.25	14500	10000	4.70x10 ⁻⁵	±0.30	1.5	151	
	55	25.0	1.5	0.25	23000	10000	1.19x10 ⁻⁴	±0.30	1.5	260	



Shaft Bore Dia. d1, d2	b		t	Key Nom. Dim. b x h	Set Screw	
	Reference Dia.	Tolerance			Size	Tightening Torque (N·m)
8, 10	3	±0.0125	1.4	3x3	M2	0.3
12	4	±0.0150	1.8	4x4	M3	0.7
14	5	±0.0150	2.3	5x5	M4	1.7

Static torsional spring constant, inertia moment, and mass values are for cases of maximum shaft diameter.

Ordering Example

Part Number	Shaft Bore Dia. d1	Shaft Bore Dia. d2
SCXW46	10	14
SCXWK46	12	14
SCPW34	8	12

