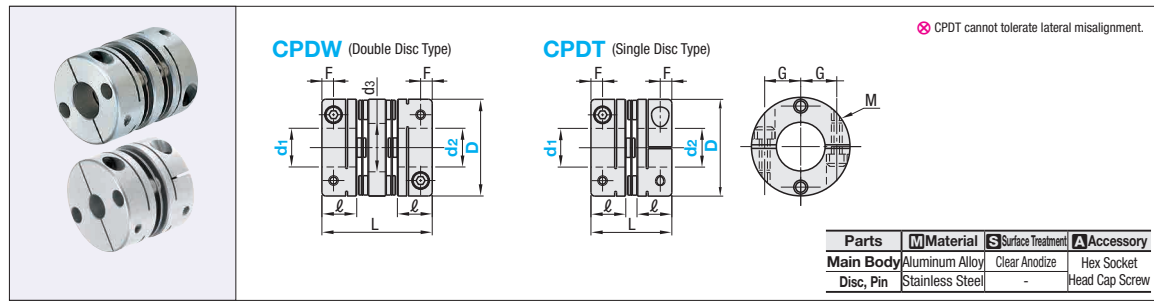


Disc Couplings

Clamping

For Servo Motors



Parts	Material	Surface Treatment	Accessory
Main Body	Aluminum Alloy	Clear Anodize	Hex Socket
Disc, Pin	Stainless Steel	-	Head Cap Screw

Part Number Type	D	d1, d2 Selection (d1≤d2)								L			Clamp Screw M	Unit Price CPDW CPDT	
		4	5	6	7	8	CPDW	CPDT	l	d3	F	G			
Double Disc CPDW	19						27	20	8	8.5	2.5	6.5	M2	0.5	
	25		6	6.35			31	24	10	12.5	3.5	9	M2.5	1	
Single Disc CPDT	32						40	29	12	16	4	11	M3	1.5	
	40						44	33	14	21	5	15	M4	2.5	
	50						57	42	18	26	6	18	M5	7	

Characteristic Values

Part Number Type	D	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Compensation Factor coefficient	Mass (g)
CPDW	19	0.7	1.5	0.12	200	33000	8.7x10 ⁻⁷	±0.5	1	18
	25	1			450	25000	2.7x10 ⁻⁶			25
	32	2.5	1100	19000	9.6x10 ⁻⁶	60				
	40	3.5	1400	15000	1.9x10 ⁻⁵	100				
	50	9	2200	12000	8.1x10 ⁻⁵	210				

Part Number Type	D	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Compensation Factor coefficient	Mass (g)
CPDT	19	0.7	0.7	0.15	280	33000	6.3x10 ⁻⁷	±0.2	1	9
	25	1			630	25000	2.1x10 ⁻⁶			19
	32	2.5			1600	19000	7.2x10 ⁻⁶			41
	40	3.5			2600	15000	1.3x10 ⁻⁵			68
	50	9			3100	12000	6.1x10 ⁻⁵			140

⚠ Single Disc Type cannot tolerate lateral misalignment.
 ⚠ The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
 ⚠ For the selection criteria and alignment procedures, see P.1061

Part Number	Shaft Bore Dia. d1	Shaft Bore Dia. d2
CPDW40	12	14
CPDT50	16	18

Alterations	Part Number	Shaft Bore Dia. d1	Shaft Bore Dia. d2	(LK, RK)
	CPDW40	LDC8	14	RK5

Alterations	Shaft Bore Dia.		Keyway
	LDC (Left Shaft)	RDC (Right Shaft)	
Spec.	0.1mm Increment Ordering Code		Ordering Code Shaft Dia. d1, d2 LK, RK
	LDC 15.2 RDC 21.7 CPDW, CPDT		
Code	D	LDC, RDC	Keyway machining is available for 08-32. Cannot be combined with shaft bore change (LDC, RDC) alterations. For keyway dimensions, refer to the right table.
	19	4-6	
	25	6-12	
	32	8-15	
	40	8-20	
	50	14-25	

Shaft Bore Dia. d1, d2	LK, RK	b		t		Key Nominal Dim. b _h
		Reference Dia.	Tolerance	Reference Dia.	Tolerance	
8, 10	3	±0.0125	1.4			3x3
11, 12	4		1.8	+0.1	0	4x4
14-17	5	±0.0150	2.3			5x5
18-22	6		2.8			6x6
24, 25	8	±0.0180	3.3	+0.2	0	8x7

Disc Couplings "Servo-Fine"

High Rigidity Clamping / High Positioning Accuracy Clamping / Keywayed Bore

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

For Servo Motors

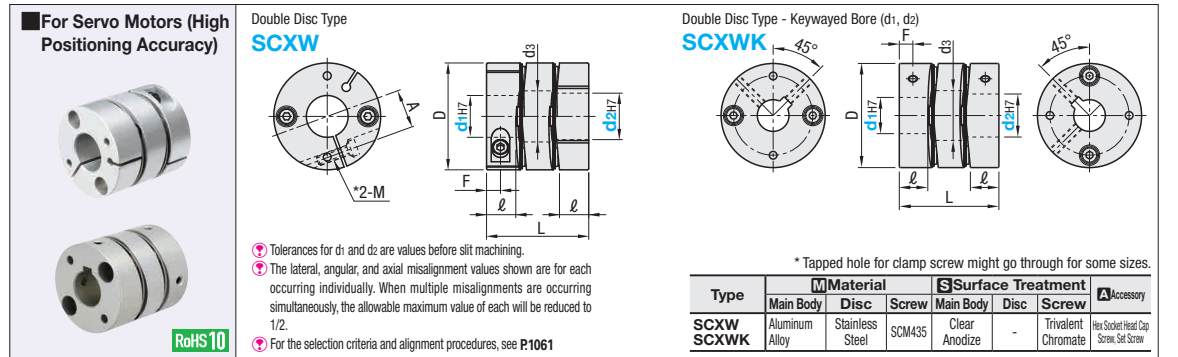


Part Number Type	No.	d1, d2 Selection (d1≤d2)								L			Clamp Screw M	Unit Price SCPW SCPS				
		4	5	6	7	8	9	10	11	12	14	15			17	19		
Double Disc SCPW	16	*3	4	5	6					16.6	6.5	23	16.6	7.2	3	5.3	M2.6	1.0
	21		4	5	6	8	9			21	9.5	24.5	16.7	7	3.5	7	M2.6	1.2
	28		5	6	8	9	10			28	12	32.2	21.5	9	4	9.5	M3	1.5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

Double Disc Type (High Rigidity)											Single Disc Type (High Rigidity)										
Part Number Type	No.	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Compensation Factor coefficient	Mass (g)	Part Number Type	No.	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Compensation Factor coefficient	Mass (g)
SCPW	16	1.0	1.0	0.10	500	10000	4.22x10 ⁻⁷	±0.20	1.5	11	SCPS	16	1.0	1.0	1000	10000	3.16x10 ⁻⁷	±0.10	1.5	8	
	21	1.2	1.2	0.15	800	1700	1.11x10 ⁻⁶			17											
	28	1.6	1.2	0.20	3000	42	4.68x10 ⁻⁶			30											
	34	4.0	1.5	0.25	4800	65	1.10x10 ⁻⁵			45											
	46	10.0	1.5	0.25	11500	151	4.70x10 ⁻⁵			105											
55	25.0	1.5	0.25	19000	260	1.19x10 ⁻⁴	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)								L			Clamp Screw M	Unit Price SCXW SCXWK					
		4	5	6	8	9	10	11	12	14	15	17			19				
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	
	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	
Double Disc Type - Keywayed Bore SCXWK	55	12	14	15	17	19	20	22	24	25	54.5	26	55	16	7	-	20.5	M5	7

Part Number Type	No.	Keyway Dimension				Key Nominal Dim. b _h	Set Screw
		Reference Dia.	Tolerance	Reference Dia.	Tolerance		
SCXW SCXWK	21	1.2	1.0	0.10	900	1.20x10 ⁻⁵	18
	28	1.6	1.2	0.15	3600	4.68x10 ⁻⁶	42
	34	4.0	1.5	0.20	5700	1.10x10 ⁻⁵	65
	46	10.0	1.5	0.25	14500	4.70x10 ⁻⁵	151
55	25.0	1.5	0.25	23000	1.19x10 ⁻⁴	260	

⚠ Static torsional spring constant, inertia moment, and mass values are for cases of maximum shaft diameter.
 ⚠ Keyway machining is available for 08-32. Cannot be combined with shaft bore change (LDC, RDC) alterations.
 ⚠ For keyway dimensions, refer to the right table.

