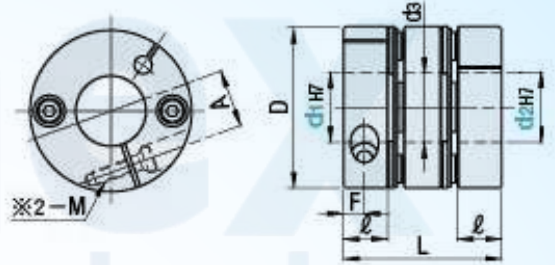


Disc Couplings High Rigidity Double Disc, Clamping Type

The rigidity is comparable to the high rigidity DSCPW of previous products, and the cost is greatly reduced. The surface has not been oxidized, which may be rough.



Parts	Material	Surface Treatment	Accessoris
Body	Aluminum	—	Hex Socket Bolt (Clamping Bolt)
Disc	Stainless Steel	—	
Fastening Bolt	SCM435	Black Oxide Film	



- d1, d2 tolerances are tolerances before slitting.
※Threaded hole for clamp bolt may penetrate because of size.
- No clear anodizing is applied to the main body of this product.

- Specification Overview
- Specification Table

Please order after selecting part number and parameters according to the selection steps ① to ④

Part Number (①Type.②No)	—	③d ₁	—	④d ₂
DC - SCPW34	—	10	—	14

Part Number		③d ₁ ,④,d2, selection (But d1≤d2)	D	d3	L	l	F	A	Fastening Bolt	
①Type	②No								M	Tightening Torque (N·m)
DC-SCPW	16	4 5 6	16.6	6.5	23	7.2	3	5.3	M2.6	1
	21	4 5 6 8	21	9.5	24.5	7	3.5	7	M2.6	1.2
	28	6 6.35 8 10	28	12	32.2	9	4	9.5	M3	1.7
	34	6 6.35 8 10 11 12 14	34	15	35	9.8	5	12	M3	1.7
	46	8 10 11 12 14 15 16 17 19	46	22	44	12.6	6	16.5	M4	4.1
	55	12 14 15 16 17 19 20 22 24 25	54.5	26	55	16	7	20.5	M5	8.2

Characteristic Value

Part Number		Allowable Torque (N·m)	Allowable Angular Misalignment (°)	Allowable Angular Misalignment (mm)	Static Torsional Stiffness (N·m/rad)	Maximum Rotational Speed (r/min)	Moment Of Inertia (kg·m ²)	Allowable Axial Amplitude (mm)	Compensation coefficient	Weight (g)
①Type	②No									
DC-SCPW	16	0.5	1	0.1	500	10000	4.22×10 ⁻⁷	±0.20	1.5	11
	21	1			800		1.11×10 ⁻⁶			17
	28	1.5	3000	4.68×10 ⁻⁶	42					
	34	4	4800	1.10×10 ⁻⁵	65					
	46	10	11500	4.70×10 ⁻⁵	151					
	55	25	19000	1.19×10 ⁻⁴	±0.30		260			

- Static torsional stiffness, moment of inertia and weight are the values at the maximum shaft dia.
- Lateral misalignment, angular misalignment and axial amplitude are all single allowable values.
If there are multiple deviations at the same time, the allowable value of each deviation will be reduced to 1/2 of the original value.

- Shaft slip torque (N·m)
When the shaft slip torque is less than the allowable torque, please use it below the shaft slip torque.

No.	d ₁ d ₂																
	4	5	6	6.35	8	10	11	12	14	15	16	17	19	20	22	24	25
16	0.5	0.5	0.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	1	1	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
28	—	—	1.5	1.5	1.5	1.5	—	—	—	—	—	—	—	—	—	—	—
34	—	—	2.5	2.5	4	4	4	4	4	—	—	—	—	—	—	—	—
46	—	—	—	—	6	6	8	8	8	8	10	10	10	—	—	—	—
55	—	—	—	—	—	—	—	16	16	19	25	25	25	25	25	25	25

Product Features

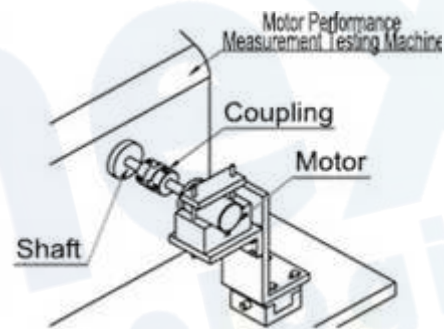
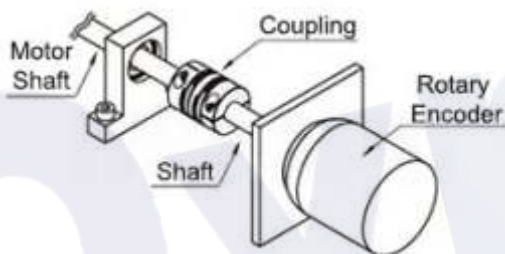
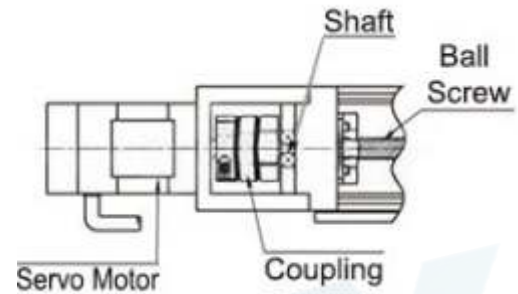
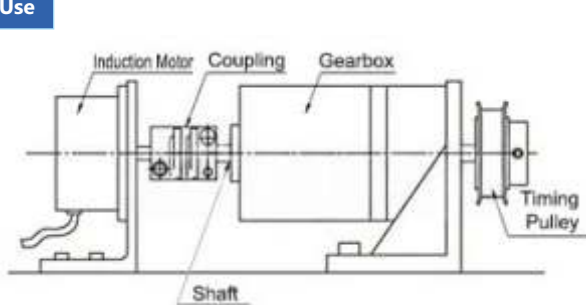
- Main characteristics of disc coupling
 - Strong ability to compensate for misalignment between two axes. Compared with tooth coupling, angular displacement can be doubled. In case of radial displacement, reaction force is small, flexibility is large, and certain axial, radial and angular displacements are allowed.
 - It has obvious shock absorption, no noise and no wear.
 - Can operate safely under conditions of impact and vibration.
 - High transmission efficiency, up to 99.86%. Especially suitable for medium, high speed and high power transmission.
 - Simple structure, light weight, small in size and convenient assembly and disassembly.
- It can be assembled and disassembled without moving the machine (models with intermediate shaft), and requiring no lubrication.
- It can accurately transmit the rotational speed without slip, and can be used for transmission of precision machinery



Disc Couplings High Rigidity Double Disc, Clamping Type



Example of Use



Basic Specifications

- **Series Name** - Disc
- **O.D. (Ø)** - O.D. (Ø)
- **Allowable Torque Range (N·m)** - 3.01~5.00
- **Max. Rotational Speed Range (r/min)** - 4001~10000
- **Allowable Angular Misalignment (deg)** - 1.5
- **Allowable Lateral Misalignment Range (mm)** - 0.02~0.2
- **Allowable Axial Misalignment (mm)** - 0.2
- **Shaft Bore Shape** - Standard Bore
- **Shaft Bore Dia. 1 d1 (or d) (Ø)** - 14
- **Application** - For Servo Motors / Stepping Motor
- **Allowable Torque (N·m)** - 4
- **Product Category** - Product Category
- **Single/Double** - Double
- **Overall Length (mm)** - 35
- **O.D. (Ø)** - O.D. (Ø)
- **Features**- High Torsional Rigidity / High Torque Type / Zero Backlash
- **Body Material** - Aluminum Alloy
- **Allowable Lateral Misalignment (mm)** - 0.2
- **Max. Rotational Speed (r/min)** - 10000
- **Moment of Inertia (kg · m²)** - 1.1×10^{-5}
- **Shaft Tightening Method** - Fastening Bolt
- **Shaft Bore Dia. 2 d2 (or d) (Ø)** - 14
- **Shaft Bore Dia. 2 d2 (or d) (Ø)** - 14
- **Allowable Misalignment** - Angular Misalignment / Eccentricity / Axial Misalignment
- **Disc Material** - Stainless Steel

