

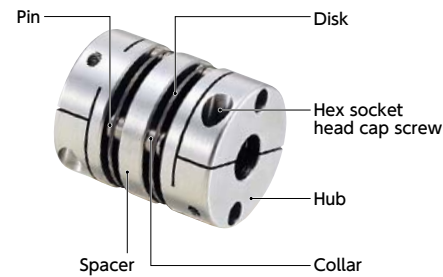
MDW-C Flexible Couplings - Disk Type

Zero Backlash

Structure

Clamping Type

MDW-C



Applicable motors

	MDW-C
Servomotor	○
Stepping Motor	○
General-purpose Motor	●

○: Excellent ●: Available

Property

	MDW-C
Zero Backlash	○
Allowable Misalignment	○

○: Excellent ○: Very good

- This is a disk type flexible coupling.
- The stainless steel disk allows eccentricity, and angular misalignment, and end-play.

Application

Actuator / XY stage

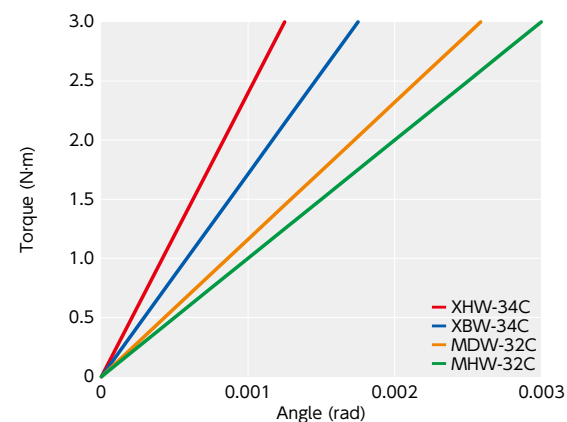
Material/Finish



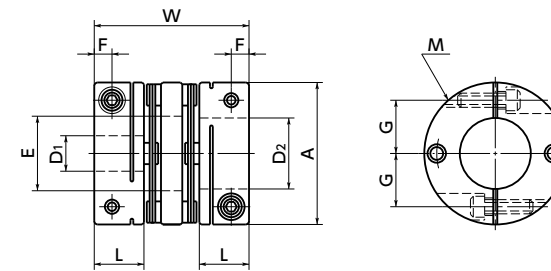
	MDW-C
Hub	A2017 Anodized*1
Spacer	A2017 Anodized
Disk	SUS304
Pin	SUS303
Collar	SUS303
Hex Socket Head Cap Screw	SCM435 Ferrosioferric Oxide Film (Black)

*1: Due to manufacturing process requirements, couplings may have bores with or without surface treatment. This does not affect the performance of the couplings.

Comparison of static torsional stiffness (Disk Type)



MDW-C



Dimensions

Unit : mm

Part Number	A	L	W	E	F	G	M	Screw Tightening Torque (N·m)
MDW-19C	19	8	27	8.5	2.5	6.5	M2	0.5
MDW-25C	25	10	31	12.5	3.5	9	M2.5	1
MDW-32C	32	12	40	16	4	11	M3	1.5
MDW-40C	40	14	44	21	5	15	M4	2.5
MDW-50C	50	18	57	26	6	18	M5	7
MDW-63C	63	20	61	35	7	24	M6	12

Part Number	Standard Bore Diameter D1/D2																		
	4	5	6	7	8	6.35	9	10	11	12	14	15	16	17	18	19	20	22	24
MDW-19C	●	●	●	●	●			●	●	●									
MDW-25C			●		●	●	●	●	●	●									
MDW-32C				●	●			●	●	●	●	●							
MDW-40C				●				●	●	●	●	●	●	●	●	●	●		
MDW-50C											●	●	●	●	●	●	●	●	●
MDW-63C												●	●	●	●	●	●	●	●

- All products are provided with hex socket head cap screw.
- Recommended tolerance for shaft diameters is h6 and h7.
- In case of mounting on D-cut shaft, be careful about the position of the D-cut surface of the shaft.
- For the shaft insertion amount to the coupling, see Mounting/maintenance.

Performance

Part Number	Max. Bore Diameter (mm)	Rated *1 Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment *2 of Inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass *2 (g)
MDW-19C	8	0.7	33000	8.7×10 ⁻⁷	200	0.12	1.5	±0.5	18
MDW-25C	12	1	25000	2.7×10 ⁻⁶	450	0.12	1.5	±0.5	25
MDW-32C	15	2.5	19000	9.6×10 ⁻⁶	1100	0.15	1.5	±0.5	60
MDW-40C	20	3.5	15000	1.9×10 ⁻⁵	1400	0.15	1.5	±0.5	100
MDW-50C	25	9	12000	8.1×10 ⁻⁵	2200	0.15	1.5	±0.5	210
MDW-63C	30	12.5	10000	2.1×10 ⁻⁴	3000	0.15	1.5	±0.5	340

*1: Correction of rated torque due to load fluctuation is not required.

*2: These are values with max. bore diameter.

Related Products

The Double-Disk type Flexible Coupling [XHW-C] is compatible with the servomotor with 350% instantaneous max. torque is available.



Part number specification

MDW-25C-6-8

1

2