

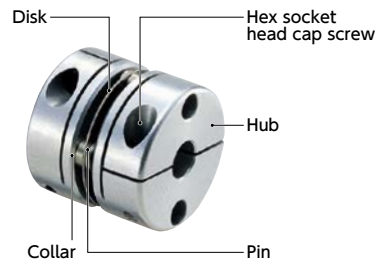
MDS-C Flexible Couplings - Single - Disk Type

Zero Backlash

Structure

Clamping Type

MDS-C



Applicable motors

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

○: Excellent ●: Available

Property

	MDS-C
Zero Backlash	○
Allowable Misalignment	○

○: Excellent ○: Very good

- This is a disk type flexible coupling.
- It has compact design with short entire length.
- The stainless steel disk allows eccentricity, and angular misalignment, and end-play.

Application

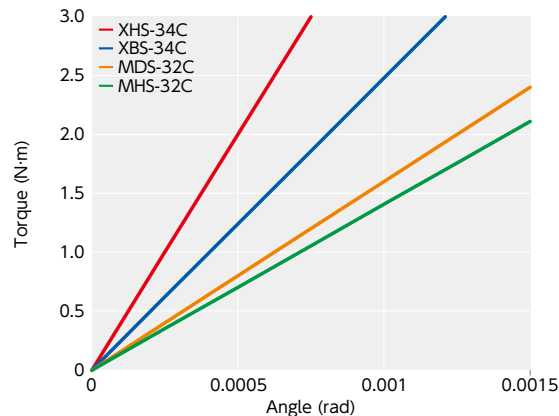
Actuator / XY stage

Material/Finish

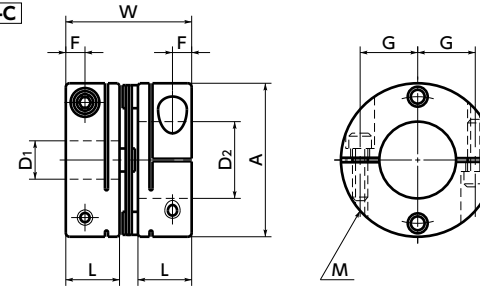


	MDS-C
Hub	A2017 Anodized
Disk	SUS304
Pin	SUS303
Collar	SUS303
Hex Socket Head Cap Screw	SCM435 Ferrosferic Oxide Film (Black)

Comparison of static torsional stiffness (Single Disk Type)



MDS-C



Dimensions

Unit : mm

Part Number	A	L	W	F	G	M	Screw Tightening Torque (N·m)
MDS-19C	19	8	20	2.5	6.5	M2	0.5
MDS-25C	25	10	24	3.5	9	M2.5	1
MDS-32C	32	12	29	4	11	M3	1.5
MDS-40C	40	14	33	5	15	M4	2.5
MDS-50C	50	18	42	6	18	M5	7
MDS-63C	63	20	46	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	25	28	30	
MDS-19C	●	●	●	●	●																		
MDS-25C			●		●	●	●	●	●	●													
MDS-32C					●			●	●	●	●	●											
MDS-40C					●			●	●	●	●	●	●	●	●	●	●						
MDS-50C											●	●	●	●	●	●	●	●	●	●	●	●	●
MDS-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 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)
MDS-19C	8	0.7	33000	6.3×10 ⁻⁷	280	0.02	0.7	±0.2	9
MDS-25C	12	1	25000	2.1×10 ⁻⁶	630	0.02	0.7	±0.2	19
MDS-32C	15	2.5	19000	7.2×10 ⁻⁶	1600	0.02	0.7	±0.2	41
MDS-40C	20	3.5	15000	1.3×10 ⁻⁵	2600	0.02	0.7	±0.2	68
MDS-50C	25	9	12000	6.1×10 ⁻⁵	3100	0.02	0.7	±0.2	140
MDS-63C	30	12.5	10000	1.7×10 ⁻⁴	4200	0.02	0.7	±0.2	250

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

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

Related Products

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



Part number specification

MDS-32C-10-12

