

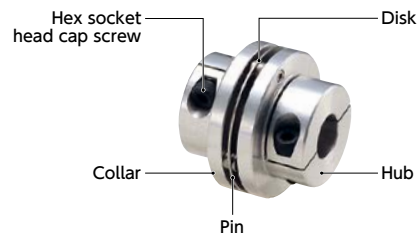
MHS-C Flexible Couplings - Single - Disk Type

Zero Backlash

Structure

Clamping Type

MHS-C



Applicable motors

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

○: Excellent ●: Available

Property

	MHS-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

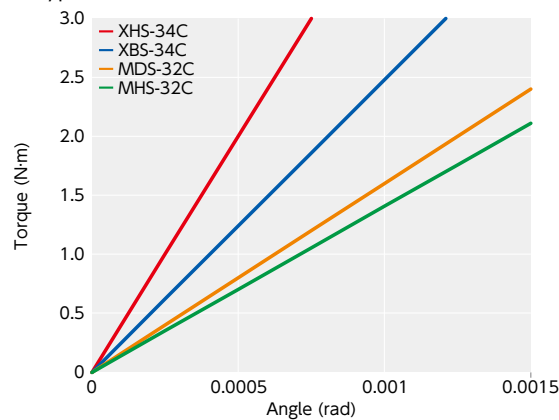
XY stage / Transport device

Material/Finish

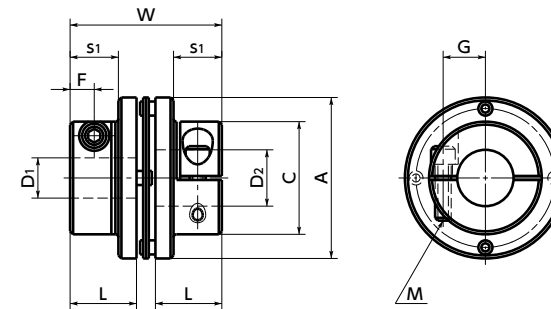


	MHS-C
Hub	A2017 Anodized
Disk	SUS301
Pin	SUS303
Collar	SUS303
Hex Socket Head Cap Screw	SCM435 Ferrosferic Oxide Film (Black)

Comparison of static torsional stiffness (Single Disk Type)



MHS-C



Dimensions

Unit : mm

Part Number	Max. Bore Diameter	A	L	W	C	s1	F	G	M	Screw Tightening Torque (N·m)
MHS-32C	6 ≤ D ≤ 10	32	13.7	32	21.5	9	4	8	M3	1.5
MHS-40C	8 ≤ D ≤ 14	40	16.5	38	28	12	6	10.5	M4	2.5
MHS-50C	12 ≤ D ≤ 20	50	19.4	44	39	15	7	14.75	M5	7
MHS-63C	15 ≤ D ≤ 24 24 < D ≤ 25	63	22.3	50	45	18	8	17 17.5	M6	12

Part Number	Standard Bore Diameter D1/D2											
	6	8	10	11	12	14	15	16	18	19	20	25
MHS-32C	●	●	●									
MHS-40C		●	●	●								
MHS-50C					●	●	●	●	●	●	●	●
MHS-63C							●	●	●	●	●	●

- All products are provided with hex socket head cap screw.
- Recommended tolerance for shaft diameters is h6 and h7.
- 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)
MHS-32C	10	2	19000	4.5 × 10 ⁻⁶	1300	0.02	1	±0.2	38
MHS-40C	14	4	15000	1.2 × 10 ⁻⁵	2800	0.02	1	±0.2	66
MHS-50C	20	7.5	12000	3.7 × 10 ⁻⁵	3700	0.02	1	±0.2	120
MHS-63C	25	10	10000	8.4 × 10 ⁻⁵	5000	0.02	1	±0.2	190

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

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

⚠ Precautions for Use

- In case of mounting on D-cut shaft, be careful about the position of the D-cut surface of the shaft. → P.xxxx
- There are sizes where the hex socket head bolt exceeds the hub outer diameter of the coupling and the rotating diameter is larger than the hub outer diameter. Please be careful of the interference of coupling. → P.xxxx

• 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

MHS-32C-8-10

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