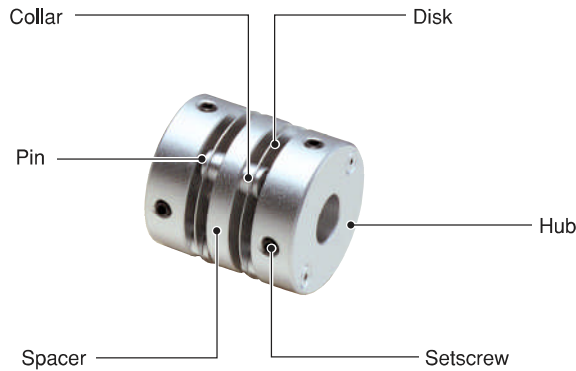


MTD

Configuration



Material & Finish

Hub	A2017, Anodized Aluminum Coating
Spacer	A2017, Anodized Aluminum Coating
Disk	SUS301
Pin	SUS303
Collar	SUS304
Setscrew	SCM435, Black Oxide Coating*

* Stock screws can be replaced with stainless steel screws. Please take advantage of our stainless steel screw option. For more information please refer to page 16.

Features

Merits

Zero Backlash

- Disk type flexible coupling
- Identical clockwise and counter-clockwise rotational characteristics
- Stainless steel disks absorb parallel, angular misalignments and shaft end-play
- The coupling is easily anchored to the shaft with set screws
Centering is easy due to simple construction
- Finished products featuring two different end bore diameters available in stock

Application

Servomotor	—
Stepping Motor	●
General-purpose Motor	—
Encoder	—

Features

Zero Backlash	◎
High Torsional Stiffness	—
High Torque	—
Absorption of Misalignment	●
Vibration Absorption	—
Electrical Insulation	—
Corrosion Resistant (All Stainless Steel)	—

◎ : Excellent ● : Very Good

When Ordering

Specify product code and both bore diameters.

MTD-25-8×10

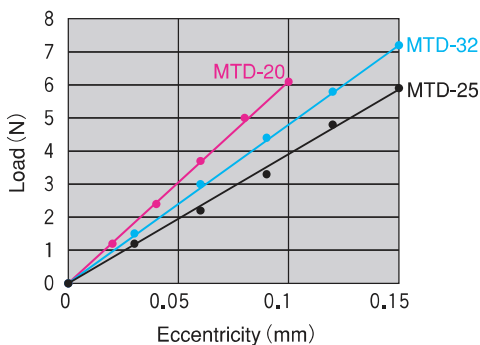
Product Code

D₁

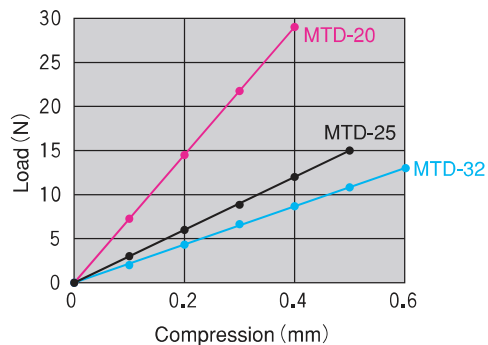
D₂

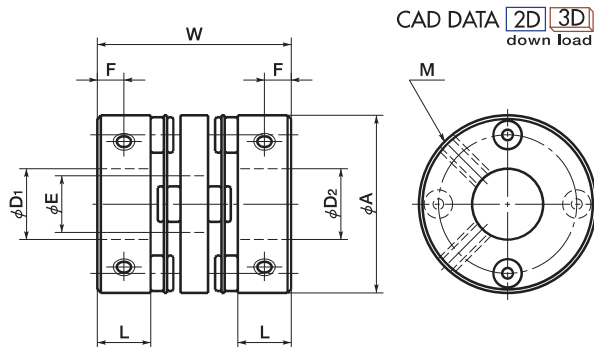
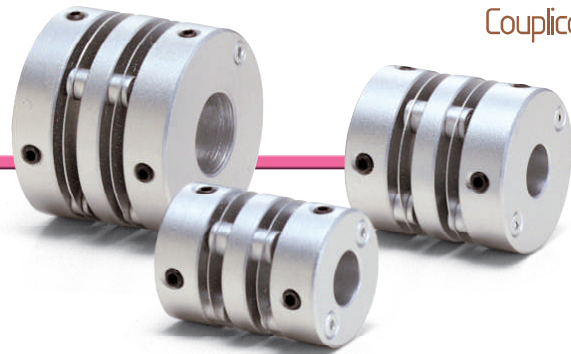
Technical Data

Eccentric Reaction Force



Thrust Reaction Force





CAD DATA [2D](#) [3D](#)
down load

Dimensions

unit : mm

Product Code	A	L	W	E	F	M	Wrench Torque (N·m)	Stock Bore Diameters							
								D1 · D2 (Tolerance H8)							
								3	4	5	6	8	10	12	14
MTD-20	20	7.5	27.3	6	3.7	M3	0.7	●	●	●	●	●			
MTD-25	25	7.5	27.4	10	3.7	M3	0.7				●	●	●	●	
MTD-32	32	7.5	27.5	15	3.7	M4	1.7					●	●	●	●

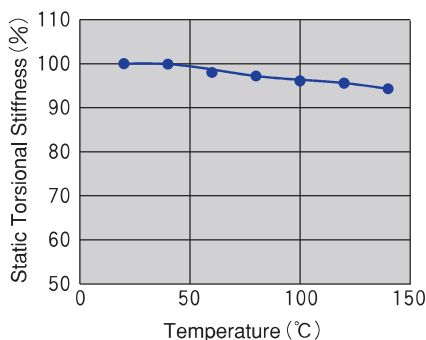
- All products come with set screws.
- Hubs with shaft bore diameters of $\phi 4$ or less have one set screw.
- Recommended tolerance on shaft diameters is h6 and h7.
- Bore and keyway modifications are available on request. Please take advantage of our bore modification services. For more information please refer to pages 17~19.

Specifications

Product Code	Max. Bore (mm)	Rated* Torque (N·m)	Maximum* Torque (N·m)	Maximum Rotational Frequency (min ⁻¹)	Moment** of Inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Errors of Eccentricity (mm)	Errors of Angularity (°)	Errors of Shaft End-Play (mm)	Mass** (g)
MTD-20	8	0.5	1	31000	1.2×10^{-6}	120	0.10	1	± 0.4	21
MTD-25	12	1	2	25000	2.6×10^{-6}	210	0.15	1.5	± 0.5	27
MTD-32	14	2	4	19000	6.7×10^{-6}	230	0.15	2	± 0.6	43

* Adjustment of rated and maximum torque specifications for load fluctuations is not required. For more detailed information, please refer to For Better Drive on page 34.
** * Based on the maximum shaft bores.

Changes in Static Torsional Stiffness Caused by Temperature



100% values represent product performance at 20°C. Because [MTD] experiences very little change in static torsional stiffness caused by temperature, the effect on response is minimal. However, please take into consideration that operating at high temperatures may lead to misalignment due to shaft distortion or elongation from thermal expansion.

● The technical data contained in this catalog is for convenient reference, but they are not guaranteed values. More detailed technical data can be downloaded from our homepage.