MST/MSTS Flexible Couplings - Slit Type

Zero Backlash SUS Stainless steel

Structure

- Set Screw Type ➡ P.xxxx

MST Made of aluminum alloy

MSTS Made of all stainless steel

- Clamping Type ➡ P.xxxx

MST-C Made of aluminum alloy

MSTS-C Made of all stainless steel

Outside diameter ϕ40 - ϕ63

MSTS-C

Outside diameter ϕ12 - ϕ32

- Set Screws + Key Type ➡ P.xxxx

MST-K Made of aluminum alloy

MSTS-K Made of all stainless steel

- Part number specification

MST-32K-12-12

Product Code | Size | Bore Diameter

Please refer to dimensional table for part number specification.

- Applicable motors

	MST	MSTS
Servomotor	●	●
Stepping Motor	◎	◎
General-purpose Motor	●	●

◎: Excellent ●: Available

- Property

	MST	MSTS
Zero Backlash	◎	◎
High Torque	○	○
High Torsional Stiffness	○	○
Allowable Misalignment	○	○
Corrosion Resistance (All S.S.)	–	◎

◎: Excellent ○: Very good

- This is a metal spring coupling with single-piece construction. A slit is inserted into a cylindrical material.
- A plate spring formed by a slit allows eccentricity, angular misalignment, and end-play to be accepted.
- There are two types of units made of aluminum alloy or all stainless steel.
- Wide variation of outside diameter ϕ 8 - ϕ 63.

- Application

Transport device / XY stage / Parts feeder

- Material/Finish

RoHS

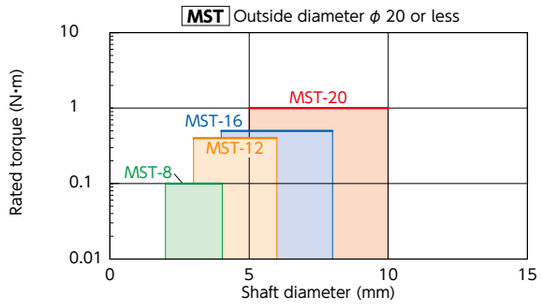
	MST / MST-C / MST-K	MSTS / MSTS-C / MSTS-K
Main Body	A2017 Anodized	SUS303
Hex Socket Set Screw	SCM435 Ferrosoferric Oxide Film (Black)	SUSXM7
Hex Socket Head Cap Screw	SCM435 Ferrosoferric Oxide Film (Black)	SUSXM7

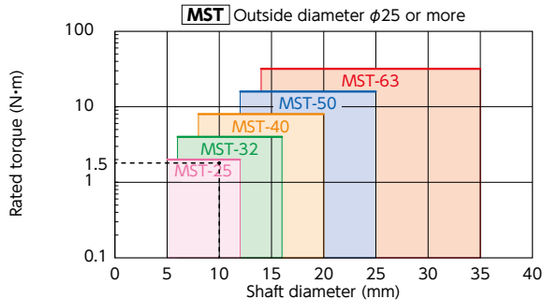
Additional Keyway at Shaft Hole ➡ P.xxxx	Cleanroom Wash & Packaging ➡ P.xxxx	Change to Stainless Steel Screw ➡ P.xxxx
Bore additional modification only/ Add'l charge	Please feel free to contact us	Please feel free to contact us

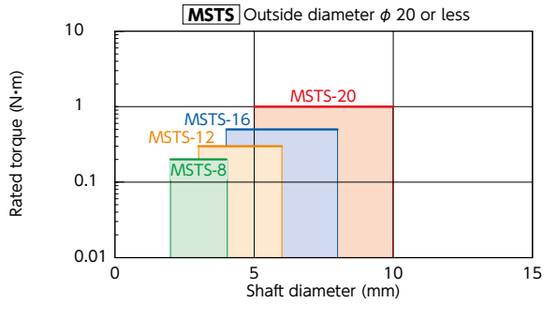
Selection

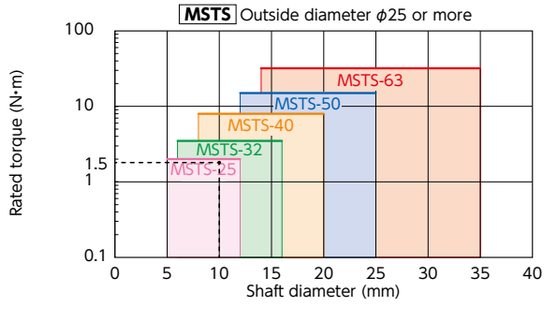
Selection Based on Shaft Diameter and Rated Torque

The area bounded by the shaft diameter and rated torque indicates the selection size.









- Selection Example

In case of selected parameters of shaft diameter of ϕ 10 and load torque of 1.5 N•m, the selected size for **MST** **MSTS** is **MST-25** **MSTS-25**

GOOD DESIGN