MST/MSTS Flexible coupling - Slit - type

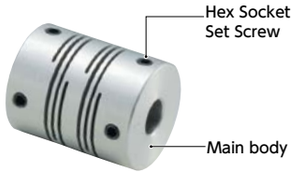
WEB Selection Tool　WEB CAD Download　Zero Backlash　SUS Stainless steel

Structure

● Set Screw type ➡ P.112

MST Made of aluminum alloy

MSTS Made of all stainless steel



● Clamping type ➡ P.114

MST-C Made of aluminum alloy

MSTS-C Made of all stainless steel

Outside diameter ϕ40 - ϕ63

MSTS-C

Outside diameter ϕ 12 - ϕ 32

● Set Screw + Key type ➡ P.116

MST-K Made of aluminum alloy

MSTS-K Made of all stainless steel

● Applicable motors

	MST	MSTS
Servomotor	–	–
Stepping motor	◎	◎
General-purpose motor	◎	◎

◎: Excellent　○: Very good

● 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. Slits are made into a cylindrical material.
- A plate spring formed by slits 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 Compliant

	MST / MST-C / MST-K	MSTS / MSTS-C / MSTS-K
Main Body	A2017 Alumite Treatment	SUS303
Hex Socket Set Screw	SCM435 Ferrosoferric oxide film	SUSXM7
Hex Socket Head Cap Screw	SCM435 Ferrosoferric oxide film	SUSXM7

● Related Products

Slit-type flexible coupling **MSX** with excellent torsional stiffness is available.
➡ P.100

XSTS SUS316L material finished with clean washing and clean packaging, which is best suited for FPD and semiconductor manufacturing equipment, is available.
➡ P.226

● Part number specification

MST-32K-12-12

Product Code　Size　Bore Diameter

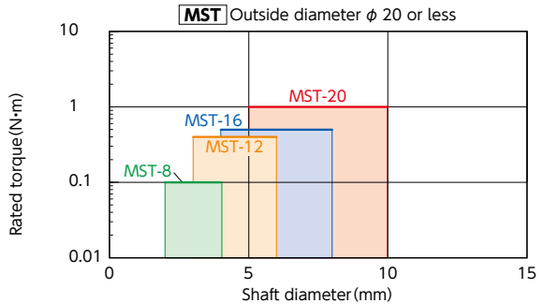
Please refer to dimensional table for part number specification.

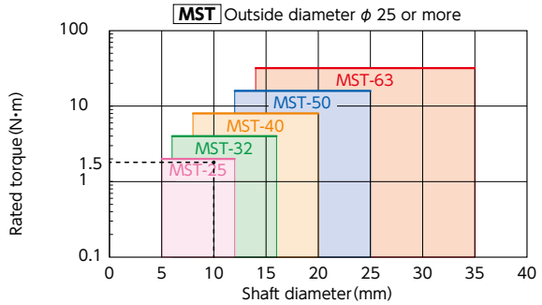
Additional Keyway at Shaft Hole ➡ P.788	Cleanroom Wash & Packaging ➡ P.792	Change to Stainless Steel Screw ➡ P.790
Available / Add'l charge	Available / Add'l charge	Available / Add'l charge

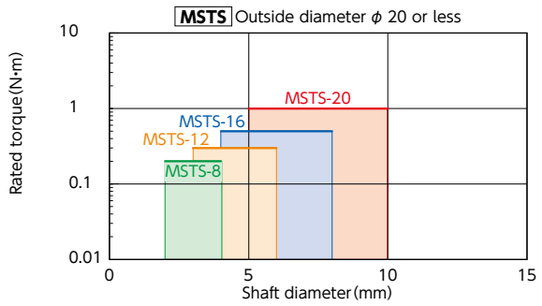
Selection

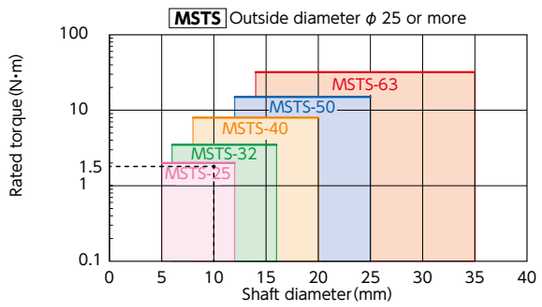
● Selection based on shaft diameter and rated torque

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









GOOD DESIGN

● 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**