

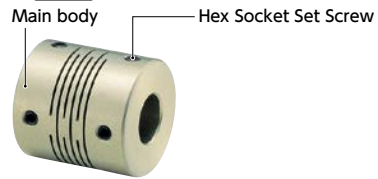
MSX Flexible coupling - Slit - type

WEB Selection Tool WEB CAD Download Zero Backlash High Rigidity

Structure

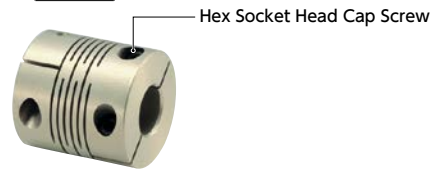
- Set Screw type

MSX → P.104



- Clamping type

MSX-C → P.106



- Applicable motors

	MSX
Servomotor	○
Stepping motor	○
General-purpose motor	○

○: Excellent ○: Very good

- Property

	MSX
Zero Backlash	○
High Torque	○
High Torsional Stiffness	○

○: Excellent ○: Very good

- This is a metal spring coupling with single-piece construction. A slit is inserted into a cylindrical material.
- It has an extremely high torsional stiffness and low moment of inertia.
- Extra super duralumin (A7075) featuring the highest strength among aluminum alloy is adopted.
- A plate spring formed by a slit allows eccentricity, angular misalignment, and end-play to be accepted.

- Application

Actuator/High precision XY stage/Index table

- Material/Finish

RoHS Compliant

	MSX / MSX-C
Main Body	A7075 Alumite Treatment
Hex Socket Set Screw	SCM435 Ferrosferric oxide film
Hex Socket Head Cap Screw	SCM435 Ferrosferric oxide film

● Related Products

The slit-type coupling **MSXP** in PEEK material can be used in an environment or cleanroom where heat and chemical resistance are required, such as FPD and semiconductor equipments.

→ P.230



- Part number specification

MSX-19C-5-6

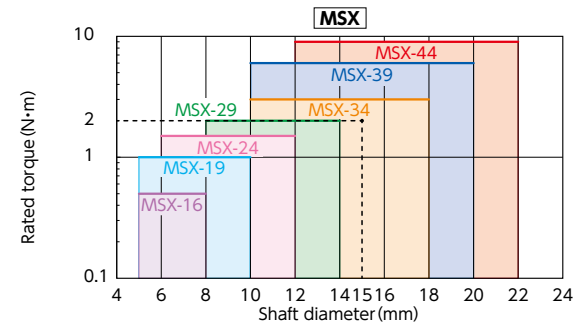
Product Code size Bore diameter

Please refer to dimensional table for part number specification.

Selection

- Selection based on shaft diameter and rated torque

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



- Selection example

In case of selected parameters of shaft diameter of ϕ 15 and load torque of 2 N·m, the selected size is

MSX-34 or **MSX-34C**.

- Selection based on the rated output of the servomotor

Rated output (W)	Servomotor Specifications*			Selection size	
	Diameter of motor shaft (mm)	Rated torque (N·m)	Instantaneous max. torque (N·m)	MSX Set Screw Type	MSX-C Clamping type
10	5 - 6	0.032	0.096	MSX-16	MSX-16C
20	5 - 6	0.064	0.19	MSX-16	MSX-16C
30	5 - 7	0.096	0.29	MSX-19	MSX-19C
50	6 - 8	0.16	0.48	MSX-19	MSX-19C
100	8	0.32	0.95	MSX-19	MSX-19C
200	9 - 14	0.64	1.9	MSX-29	MSX-34C
400	14	1.3	3.8	MSX-39	MSX-39C
750	16 - 19	2.4	7.2	MSX-44	MSX-44C

*Motor specifications are based on general values. For details, see the motor manufacturer's catalogs. This is the size for cases where devices such as reduction gears are not used.



Additional Keyway at Shaft Hole → P.788 Cleanroom Wash & Packaging → P.792 SUS Change to Stainless Steel Screw → P.790

Available / Add'l charge

Available / Add'l charge

Available / Add'l charge