MSX Flexible Couplings - Slit Type

2 0 2 Zero Backlash 2 1 High Rigidity

Structure

• Set Screw Type

MSX → P.xxxx Main body

Hex socket set screw



Clamping Type

MSX-C → P.xxxx

Hex socket head cap screw



Applicable motors

MSX
0
0
•

	MSX
Zero Backlash	0
High Torque	0
High Torsional Stiffness	0

- O: Excellent O: Very good
- This is a metal spring coupling with single-piece construction. A slit is inserted into a cylindrical
- 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.

SCM435

Actuator / High precision XY stage / Index table

Material/Finish

Hex Socket Set Screw

Hex Socket Head Cap Screw

Main Body

	7	NOI
MSX / MSX-C		
A7075 Anodized		
SCM435		

• Part number specification

MSX-19C-5-6 Product

Please refer to dimensional table for part number specification.

Bore additional modification only/ Add'l charge | Please combine with Stainless Steel Screw Alteration Service | Available / Add'l charge

○: Excellent ●: Available

Property

	MSX
Zero Backlash	0
High Torque	0
High Torsional Stiffness	0

- material.

Application

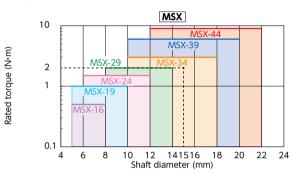
RoHS

Ferrosoferric Oxide Film (Black) Ferrosoferric Oxide Film (Black)

Selection

• Selection Based on Shaft Diameter and Rated

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 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

	Servomotor Specifications*1			Selection Size	
Rated Output (W)	Diameter of Motor Shaft	Rated Torque	Instantaneous Max. Torque	MSX	MSX-C
(**)	(mm)				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

*1: 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.