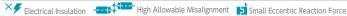
MOL/MOS Flexible Couplings - Oldham Type







Structure

Set Screw Type

MOL Outside diameter ϕ 16 - ϕ 32 \Rightarrow P.xxxx Hex socket set screw



MOL Outside diameter $\phi 40 - \phi 63$



MOS → P.xxxx



• Clamping Type

MOL-C Outside diameter ϕ 16 - ϕ 32 \Rightarrow P.xxxx



MOL-C Outside diameter $\phi 40 - \phi 63$



MOS-C → P.xxxx



Hex socket head cap screw



Applicable motors

	MOL	MOS
Servomotor	_	_
Stepping Motor	_	-
General-purpose Motor	0	0

O: Excellent

Property

	MOL	MOS
Allowable Misalignment	0	0
Electrical Insulation	0	0
Allowable Operating Temperature	−20°C to 80°C	–20℃ to 80℃

O: Excellent O: Very good

- This is an oldham type flexible coupling.
- Slippage of hubs and a spacer allows large eccentricity and angular misalignment to be accepted.
- The load on the shaft generated by misalignment is small and the burden on the shaft is reduced.
- It has electrical insulation.
- Standard type **MOL** and short type **MOS** are available.
- Application

Parts feeder / Transport device

Material/Finish

-	
GB)	POH
~	NOI

	T KOI IS
	MOL / MOL-C / MOS / MOS-C
Hub	A2017 Anodized* ¹
Spacer	Polyacetal
Hex Socket Set Screw	SCM435 Ferrosoferric Oxide Film (Black)
Hex Socket Head Cap Screw	SCM435 Ferrosoferric Oxide Film (Black)

*1: Due to manufacturing process requirements, couplings may have bores with or without surface treatment. This does not affect the performance of the couplings.

Slip Torque

For set screw type **MOL MOS**, see Aluminum Alloy Coupling under "Slip Torque of Coupling - Set Screw Type" for details.

• Part number specification

MOL-20C-6-8 Product ı Bore Diameter Code

Please refer to dimensional table for part number specification.

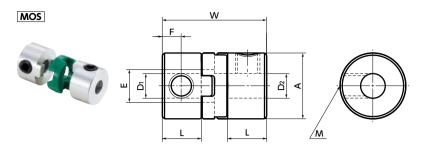
Available / Add'l charge

Please feel free to contact us

Change to Stainless Steel Screw → P.xxxx Available / Add'l charge

MOS/MOS-C Flexible Couplings - Oldham Type - Set Screw Type / Clamping Type





Outside diameter ϕ 8

Dimensions

Screw Tightening Torque Part Number 1 W G (N·m) MOS-8 4.8 12.7 4 2.3 МЗ 0.7 MOS-12C 12 5 14.9 6 2.5 M2 0.5 16 21 3.5 MOS-16C 7 8 5 M2.5 20 MOS-20C 7 22.1 10 3.5 6.5 M2.5 MOS-25C 25 8 27.2 14 9 МЗ 1.5 MOS-32C 32 10 33.3 18 5 M4 2.5

Part Number		Standard Bore Diameter D₁/D₂ ◆2												
	1	2	2.5	3	4	5	6	6.35	7	8	10	11	12	14
MOS-8	•	•	•	•										
MOS-12C				•	•	•								
MOS-16C				•	•	•	•							
MOS-20C						•	•	•	•	•				
MOS-25C								•	•	•	•			
MOS-32C								•		•	•	•	•	•

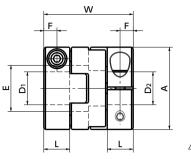
- All products are provided with hex socket set screw MOS-8 or hex socket head cap screw MOS-C.
- Tolerance of shaft bore on MOS-8 is H8.
- Recommended tolerance for shaft diameters is h6 and h7.
- For the shaft insertion amount to the coupling, see Mounting/maintenance.

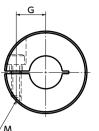
Precautions for Use

- In case of mounting on D-cut shaft, be careful about the position of the D-cut surface of the shaft. → P.xxxx
- There are sizes where the hex socket head bolt exceeds the outer diameter of the coupling and the rotating diameter is larger than the outer diameter. Please be careful of the interference of coupling. → P.xxxx

MOS-C







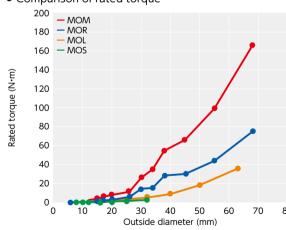
Outside diameter ϕ 12 - ϕ 32

Performance

	Diameter	Rated Torque *1 (N•m)	Maximum Torque *1	Frequency	Moment *2 of Inertia (kg • m²)	Lorgional	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass *3 (g)
MOS-8	3	0.08	0.16	78000	1.2×10 ⁻⁸	2	0.5	2	2
MOS-12C	5	0.2	0.4	52000	7.1×10 ⁻⁸	9	0.6	2	3
MOS-16C	6	0.4	0.8	39000	3.0×10 ⁻⁷	30	1	2	8
MOS-20C	8	0.7	1.4	31000	7.4×10 ⁻⁷	47	1.3	2	13
MOS-25C	10	1.2	2.4	25000	2.2×10 ⁻⁶	85	1.5	2	24
MOS-32C	14	2.8	5.6	19000	7.3×10 ⁻⁶	190	2	2	48

- *1: Values with no load fluctuation and rotation in a single direction. If there is large load fluctuation, or both normal and reverse rotation, select a size with some margin. If ambient temperature exceeds 30°C, be sure to correct the rated torque and max. torque with temperature correction factor shown in the following table. The allowable operating temperature of $\boxed{\text{MOS}}$ and $\boxed{\text{MOS-C}}$ is -20° C to
- *2: These are values with max. bore diameter.

• Comparison of rated torque



• Ambient Temperature / Temperature Correction Factor

Ambient Temperature	Temperature Correction Factor
−20°C to 30°C	1.00
30°C to 40°C	0.80
40°C to 60°C	0.70
60°C to 80°C	0.55

• Part number specification



