

MOM Flexible Couplings - Oldham Type

High torque High Rigidity

Structure

Set Screw Type



Clamping Type



Set Screws + Key Type



Clamping + Key Type



Material/Finish

	MOM / MOM-C / MOM-K / MOM-CK
Hub	S45C Ferrosoferric Oxide Film (Black)
Spacer	FCD400 Ferrosoferric Oxide Film (Black)
Pin	Polyacetal
Hex Socket Set Screw	SCM435 Ferrosoferric Oxide Film (Black)
Hex Socket Head Cap Screw	SCM435 Ferrosoferric Oxide Film (Black)
Grease	Lithium Soap Grease Nippeco DXL-No.1 Made by Nippeco

Applicable motors

	MOM
Servomotor	●
Stepping Motor	●
General-purpose Motor	○

○: Excellent ●: Available

Property

	MOM
High Torque	○
High Torsional Stiffness	○
Allowable Misalignment	○

○: Excellent ○: Very good

- This is an oldham type flexible coupling.
- FCD400 is adopted in the spacer. Suitable for low-speed and high-torque specification.
- High performance grease is applied in the gap between hubs and the spacer in order to prevent sticking.
- Slippage of hubs and a spacer allows large eccentricity and angular misalignment to be accepted.
- A projection placed in the spacer (resin pin) allows angular misalignment to be effortlessly accepted.
- The grease accumulated in a grease hole will gradually seep out during operation, thereby maintaining the lubrication property over a long period.



Application

Mixer / Pump / Small power press / Grinder



Precautions for Use
Please apply grease periodically in order to prevent sticking of hubs and a spacer.

Part number specification

MOM - 30K - 12-14

Product Code Size Bore Diameter

Please refer to dimensional table for part number specification.

Spacer's projection structure

Spacer's projection structure allows large angular to be effortlessly accepted. It reduces burden on the shaft.



(Without projection)

(With projection)

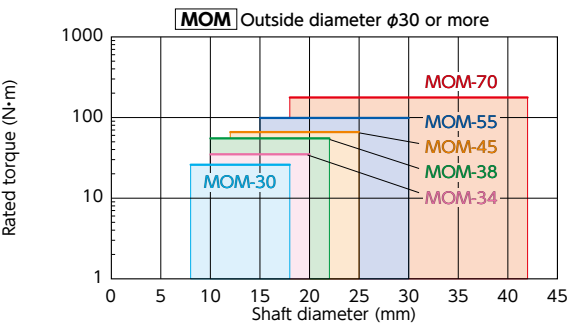
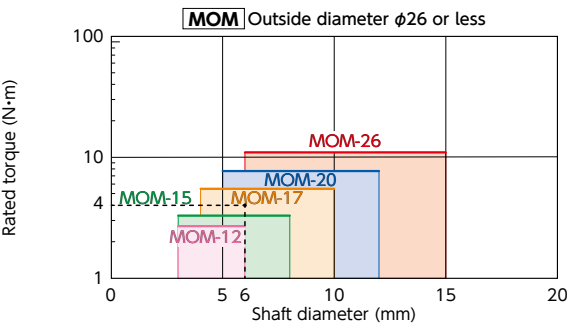
In the oldham-type coupling whose spacer has no projection, the spacer and hubs interfere with each other near outside diameter, so that the max. angular misalignment is small (1° - 1.5°) and that the bending moment arises on the shaft.

NBK's oldham type coupling allows the angular misalignment to be easily accepted since the projection serves as support. Bending moment does not arise. Therefore, the max. angular misalignment is large (2°) and the burden on the shaft is reduced. **MOM** is provided with a projection by inserting a resin pin into the spacer.

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 6 and load torque of 4N•m, the selected size is

MOM-17.



Additional Keyway at Shaft Hole → P.xxxx	Cleanroom Wash & Packaging → P.xxxx	Change to Stainless Steel Screw → P.xxxx
Available / Add'l charge	Not Available	Not Available