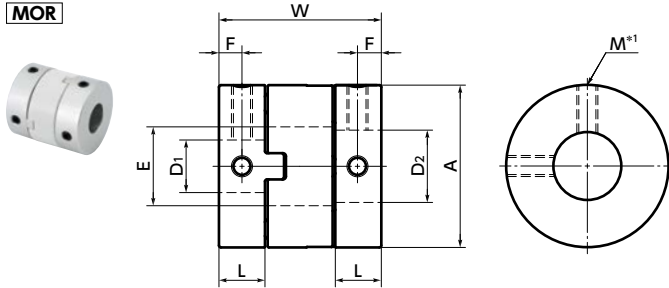


# MOR Flexible Coupling - Oldham - type - Set Screw type

High torque Electrical Insulation High Allowable Misalignment Small Eccentric Reaction Force

MOR



\*1: In a case where the bore diameter is  $\phi 4$  or less, the set screw is used in only one place.

## Dimensions

Unit : mm

| Part Number | A  | L    | W    | E    | F   | M   | Screw Tightening Torque (N·m) |
|-------------|----|------|------|------|-----|-----|-------------------------------|
| MOR-6       | 6  | 2.5  | 8.4  | 2.1  | 1.3 | M2  | 0.3                           |
| MOR-8       | 8  | 2.5  | 9.6  | 3.1  | 1.3 | M2  | 0.3                           |
| MOR-10      | 10 | 2.9  | 10.4 | 4.1  | 1.4 | M2  | 0.3                           |
| MOR-12      | 12 | 3.9  | 14.4 | 5.2  | 2   | M3  | 0.7                           |
| MOR-15      | 15 | 4.4  | 16   | 8.2  | 2.2 | M3  | 0.7                           |
| MOR-17      | 17 | 4.9  | 19.7 | 8.2  | 2.5 | M3  | 0.7                           |
| MOR-20      | 20 | 5.8  | 21.6 | 12.2 | 2.9 | M4  | 1.7                           |
| MOR-26      | 26 | 7.3  | 25.6 | 14.2 | 3.7 | M4  | 1.7                           |
| MOR-30      | 30 | 10   | 32.6 | 16.2 | 5   | M4  | 1.7                           |
| MOR-34      | 34 | 11.1 | 34   | 16.2 | 5.6 | M5  | 4                             |
| MOR-38      | 38 | 12.1 | 40.1 | 20.3 | 6.1 | M5  | 4                             |
| MOR-45      | 45 | 13.8 | 46   | 22.3 | 6.9 | M6  | 7                             |
| MOR-55      | 55 | 18.7 | 57   | 26.5 | 9.4 | M8  | 15                            |
| MOR-68      | 68 | 24   | 77   | 38.5 | 12  | M10 | 30                            |

Unit : mm

| Part Number | Standard Metric Bore Diameter (dimensional allowance H8) |     |   |   |   |   |   |      |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |
|-------------|----------------------------------------------------------|-----|---|---|---|---|---|------|---|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|
|             | 1                                                        | 1.5 | 2 | 3 | 4 | 5 | 6 | 6.35 | 8 | 9.525 | 10 | 12 | 14 | 15 | 16 | 18 | 20 | 22 | 25 | 28 | 30 | 35 | 38 |   |  |
| MOR-6       | ●                                                        | ●   | ● |   |   |   |   |      |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |
| MOR-8       | ●                                                        |     | ● | ● |   |   |   |      |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |
| MOR-10      |                                                          |     | ● | ● | ● |   |   |      |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |
| MOR-12      |                                                          |     |   | ● | ● | ● |   |      |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |
| MOR-15      |                                                          |     |   |   | ● | ● | ● | ●    | ● |       |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |
| MOR-17      |                                                          |     |   |   | ● | ● | ● | ●    | ● |       |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |
| MOR-20      |                                                          |     |   | ● | ● | ● | ● | ●    | ● | ●     | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |   |  |
| MOR-26      |                                                          |     |   |   | ● | ● | ● | ●    | ● | ●     | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |   |  |
| MOR-30      |                                                          |     |   |   |   |   |   |      | ● | ●     | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |   |  |
| MOR-34      |                                                          |     |   |   |   |   |   |      |   |       | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |   |  |
| MOR-38      |                                                          |     |   |   |   |   |   |      |   |       | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |   |  |
| MOR-45      |                                                          |     |   |   |   |   |   |      |   |       | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |   |  |
| MOR-55      |                                                          |     |   |   |   |   |   |      |   |       |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |   |  |
| MOR-68      |                                                          |     |   |   |   |   |   |      |   |       |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ● |  |

Unit : inch

| Part Number | Standard Inch Bore Diameter (dimensional allowance H8) |       |        |       |       |       |       |       |
|-------------|--------------------------------------------------------|-------|--------|-------|-------|-------|-------|-------|
|             | D1 • D2                                                | 1 / 4 | 5 / 16 | 3 / 8 | 1 / 2 | 5 / 8 | 3 / 4 | 7 / 8 |
| MOR-15      |                                                        | ●     | ●      |       |       |       |       |       |
| MOR-17      |                                                        | ●     | ●      |       |       |       |       |       |
| MOR-20      |                                                        | ●     | ●      | ●     |       |       |       |       |
| MOR-26      |                                                        | ●     | ●      | ●     | ●     |       |       |       |
| MOR-30      |                                                        |       |        | ●     | ●     | ●     |       |       |
| MOR-34      |                                                        |       |        | ●     | ●     | ●     |       |       |
| MOR-38      |                                                        |       |        | ●     | ●     | ●     | ●     |       |
| MOR-45      |                                                        |       |        |       | ●     | ●     | ●     |       |
| MOR-55      |                                                        |       |        |       |       | ●     | ●     | ●     |

- All products are provided with hex socket set screws.
- Recommended tolerance for shaft diameters is h6 and h7.
- A set of hubs with set screw type for one side and clamping type for the other side and others are available upon request.
- For the shaft insertion amount to the coupling, see Mounting/maintenance.

- Part number specification

**MOR-15-5-6** 1 Set

1 2

**MOR-20 - SPCR** Single Spacer

Product Code Outside Diameter (A Dimension) Single Spacer

Additional Keyway at Shaft Hole → P. xxxx Available / Add'l charge  
 Cleanroom Wash & Packaging → P. xxxx Please feel free to contact us  
 Change to Stainless Steel Screw → P. xxxx Available / Add'l charge

# MOR Flexible Coupling - Oldham - type - Set Screw type



High torque



Electrical Insulation



High Allowable Misalignment



Small Eccentric Reaction Force

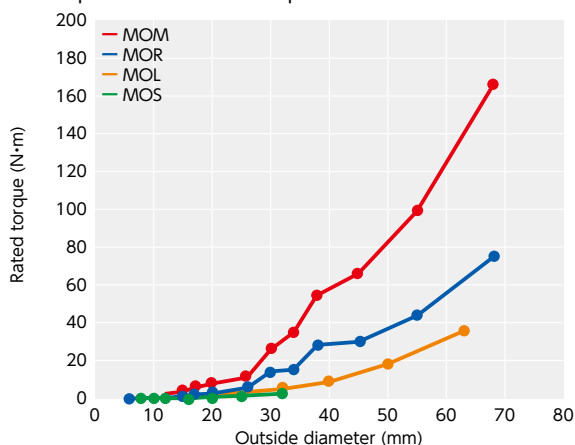
## Performance

| Part Number   | Max. Bore Diameter (mm) | Rated Torque *1 (N·m) | Maximum Torque *1 (N·m) | Max. Rotational Frequency (min <sup>-1</sup> ) | Moment of *2 Inertia (kg·m <sup>2</sup> ) | Static Torsional Stiffness (N·m/rad) | Max. Lateral Misalignment (mm) | Max. Angular Misalignment (°) | Mass *2 (g) |
|---------------|-------------------------|-----------------------|-------------------------|------------------------------------------------|-------------------------------------------|--------------------------------------|--------------------------------|-------------------------------|-------------|
| <b>MOR-6</b>  | 2                       | 0.2                   | 0.4                     | 100000                                         | $2.2 \times 10^{-9}$                      | 5                                    | 0.5                            | 3                             | 0.4         |
| <b>MOR-8</b>  | 3                       | 0.5                   | 1                       | 78000                                          | $7.4 \times 10^{-9}$                      | 12                                   | 0.7                            | 3                             | 0.8         |
| <b>MOR-10</b> | 4                       | 0.8                   | 1.6                     | 63000                                          | $1.9 \times 10^{-8}$                      | 23                                   | 0.9                            | 3                             | 1           |
| <b>MOR-12</b> | 5                       | 1                     | 2                       | 52000                                          | $5.3 \times 10^{-8}$                      | 60                                   | 1                              | 3                             | 3           |
| <b>MOR-15</b> | 8                       | 1.6                   | 3.2                     | 42000                                          | $1.4 \times 10^{-7}$                      | 80                                   | 1                              | 3                             | 4           |
| <b>MOR-17</b> | 8                       | 2.2                   | 4.4                     | 37000                                          | $2.8 \times 10^{-7}$                      | 120                                  | 1.2                            | 3                             | 7           |
| <b>MOR-20</b> | 12                      | 3.2                   | 6.4                     | 31000                                          | $5.7 \times 10^{-7}$                      | 120                                  | 1.2                            | 3                             | 9           |
| <b>MOR-26</b> | 14                      | 6                     | 12                      | 24000                                          | $2.1 \times 10^{-6}$                      | 300                                  | 1.5                            | 3                             | 20          |
| <b>MOR-30</b> | 16                      | 15                    | 30                      | 21000                                          | $5.4 \times 10^{-6}$                      | 530                                  | 2                              | 3                             | 38          |
| <b>MOR-34</b> | 16                      | 16                    | 32                      | 18000                                          | $9.1 \times 10^{-6}$                      | 1000                                 | 2.5                            | 3                             | 52          |
| <b>MOR-38</b> | 20                      | 28                    | 56                      | 16000                                          | $1.6 \times 10^{-5}$                      | 1500                                 | 2.5                            | 3                             | 69          |
| <b>MOR-45</b> | 22                      | 30                    | 60                      | 14000                                          | $3.3 \times 10^{-5}$                      | 2400                                 | 3                              | 3                             | 110         |
| <b>MOR-55</b> | 26                      | 45                    | 90                      | 11000                                          | $1.0 \times 10^{-4}$                      | 4100                                 | 4                              | 3                             | 230         |
| <b>MOR-68</b> | 38                      | 80                    | 160                     | 9000                                           | $3.7 \times 10^{-4}$                      | 6400                                 | 4.5                            | 3                             | 430         |

\*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 **MOR** is -20°C to 80°C.

\*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                          |