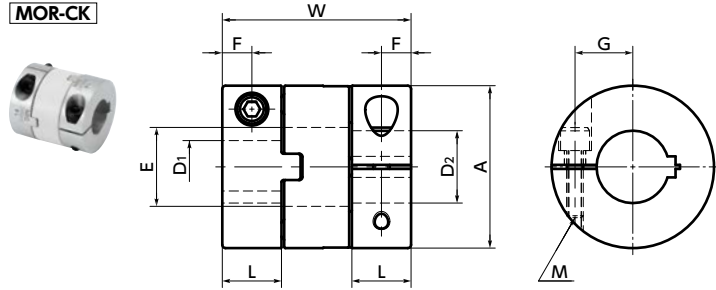


MOR-CK Flexible Coupling - Oldham - type - Clamping + Key type

High torque  Electrical Insulation  High Allowable Misalignment  Small Eccentric Reaction Force 

MOR-CK



Dimensions

Unit : mm

Part Number	A	L	W	E	F	G	M	Screw Tightening Torque (N·m)
MOR-15CK	15	7	21.2	8.2	3.5	5	M2.5	1
MOR-17CK	17	7.3	24.5	8.2	3.7	6	M2.5	1
MOR-20CK	20	8.8	27.6	12.2	4.4	7.5	M3	1.5
MOR-26CK	26	9.7	30.4	14.2	4.9	9.5	M3	1.5
MOR-30CK	30	10	32.6	16.2	5	11.1	M4	2.5
MOR-34CK	34	11.1	34	16.2	5.6	12.6	M4	2.5
MOR-38CK	38	12.1	40.1	20.3	6	14.2	M5	4
MOR-45CK	45	13.8	46	22.3	6.9	16	M5	4
MOR-55CK	55	18.7	57	26.5	9.4	20	M6	8
MOR-68CK	68	24	77	38.5	12	26	M8	16

Unit : mm

Part Number	Standard Metric Bore Diameter														
	D1 • D2 	6	8	10	12	14	15	16	18	20	22	25	28	30	35
MOR-15CK		●													
MOR-17CK		●													
MOR-20CK		●	●	●											
MOR-26CK		●	●	●	●	●									
MOR-30CK			●	●	●	●									
MOR-34CK				●	●	●	●	●							
MOR-38CK				●	●	●	●	●	●	●					
MOR-45CK					●	●	●	●	●	●					
MOR-55CK							●	●	●	●	●	●			
MOR-68CK										●	●	●	●	●	●

Unit : inch

Part Number	Standard Inch Bore Diameter			
	D1 • D2 			
	1 / 2	5 / 8	3 / 4	7 / 8
MOR-26CK	●			
MOR-30CK	●			
MOR-34CK	●	●		
MOR-38CK	●	●	●	
MOR-45CK	●	●	●	
MOR-55CK		●	●	●

- All products are provided with hex socket head cap screw.
- Recommended tolerance for shaft diameters is h6 and h7.
- A set of hubs with clamping + key type for one side and clamping type for the other side is available upon request.
- 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

- Part number specification

MOR-38CK - 14-15

1 Set

1

2

MOR-38 - SPCR

Single Spacer

Product Code

Outside Diameter (A Dimension)

Single Spacer

Additional Keyway at Shaft Hole ➡ P.xxxx  Cleanroom Wash & Packaging ➡ P.xxxx  Change to Stainless Steel Screw ➡ P.xxxx 

Please feel free to contact us

Please feel free to contact us

Available / Add'l charge

MOR-CK Flexible Coupling - Oldham - type - Clamping + Key type



High torque



Electrical Insulation



High Allowable Misalignment



Small Eccentric Reaction Force

Performance

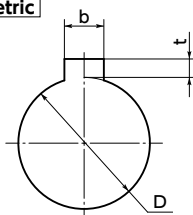
Part Number	Max. Bore Diameter (mm)	Rated Torque *1 (N·m)	Maximum Torque *1 (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment *2 of Inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass *2 (g)
MOR-15CK	6	1.6	3.2	42000	1.8×10^{-7}	80	1	3	5
MOR-17CK	6.35	2.2	4.4	37000	3.8×10^{-7}	120	1.2	3	9
MOR-20CK	10	3.2	6.4	31000	8.0×10^{-7}	120	1.2	3	13
MOR-26CK	14	6	12	24000	2.5×10^{-6}	300	1.5	3	23
MOR-30CK	14	15	30	21000	5.2×10^{-6}	530	2	3	38
MOR-34CK	16	16	32	18000	8.6×10^{-6}	1000	2.5	3	49
MOR-38CK	20	28	56	16000	1.5×10^{-5}	1500	2.5	3	64
MOR-45CK	20	30	60	14000	3.2×10^{-5}	2400	3	3	110
MOR-55CK	25	45	90	11000	1.0×10^{-4}	4100	4	3	230
MOR-68CK	35	80	160	9000	3.3×10^{-4}	6400	4.5	3	440

*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-CK** is -20°C to 80°C.

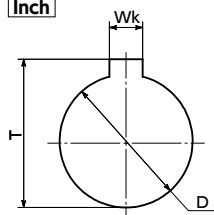
*2: These are values with max. bore diameter.

Details of Shaft Hole

Metric



Inch



Metric Shaft Hole

Unit: mm

Standard Bore Diameter D	Keyway				Key
	b		t		Nominal Dimension b x h
	Standard Dimension	Allowance (JS9)	Standard Dimension	Allowance	
6	2	±0.0125	1.0	$^{+0.1}_0$	2 × 2
8	3	±0.0125	1.4	$^{+0.1}_0$	3 × 3
10 · 12	4	±0.0150	1.8	$^{+0.1}_0$	4 × 4
14 · 15 · 16	5	±0.0150	2.3	$^{+0.1}_0$	5 × 5
18 · 20 · 22	6	±0.0150	2.8	$^{+0.1}_0$	6 × 6
25 · 28 · 30	8	±0.0180	3.3	$^{+0.2}_0$	8 × 7
35	10	±0.0180	3.3	$^{+0.2}_0$	10 × 8

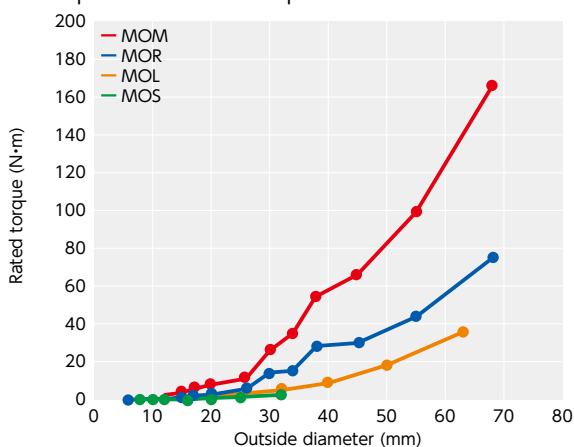
• Excerpt from JIS B 1301

Inch Shaft Hole

Unit: inch

Standard Inch Bore Diameter D	Keyway			
	Wk		T	
	Standard Dimension	Allowance	Standard Dimension	Allowance
1 / 2	1 / 8	$^{+0.002}_0$	0.560	$^{+0.01}_0$
5 / 8	3 / 16	$^{+0.002}_0$	0.709	$^{+0.01}_0$
3 / 4	3 / 16	$^{+0.002}_0$	0.837	$^{+0.01}_0$
7 / 8	3 / 16	$^{+0.002}_0$	0.964	$^{+0.01}_0$

Comparison of rated torque



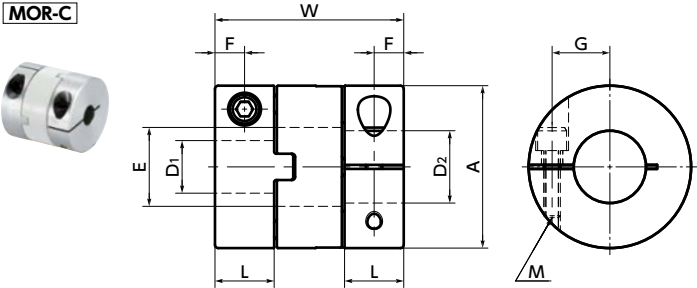
Ambient Temperature / Temperature Correction Factor

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

MOR-C Flexible Couplings - Oldham Type - Clamping Type

High torque Electrical Insulation High Allowable Misalignment Small Eccentric Reaction Force

MOR-C



Dimensions

Unit : mm

Part Number	A	L	W	E	F	G	M	Screw Tightening Torque (N・m)
MOR-12C	12	6.2	19	5.2	3.1	4	M2	0.5
MOR-15C	15	7	21.2	8.2	3.5	5	M2.5	1
MOR-17C	17	7.3	24.5	8.2	3.7	6	M2.5	1
MOR-20C	20	8.8	27.6	12.2	4.4	7.5	M3	1.5
MOR-26C	26	9.7	30.4	14.2	4.9	9.5	M3	1.5
MOR-30C	30	10	32.6	16.2	5	11.1	M4	2.5
MOR-34C	34	11.1	34	16.2	5.6	12.6	M4	2.5
MOR-38C	38	12.1	40.1	20.3	6	14.2	M5	4
MOR-45C	45	13.8	46	22.3	6.9	16	M5	4
MOR-55C	55	18.7	57	26.5	9.4	20	M6	8
MOR-68C	68	24	77	38.5	12	26	M8	16

Unit : mm

Part Number	Standard Metric Bore Diameter D1・D2																			
	3	4	5	6	6.35	8	9.525	10	12	14	15	16	18	19	20	22	25	28	30	35
MOR-12C	●	●	●																	
MOR-15C		●	●	●																
MOR-17C			●	●	●															
MOR-20C			●	●	●	●	●	●												
MOR-26C				●	●	●	●	●	●	●										
MOR-30C						●	●	●	●	●										
MOR-34C								●	●	●	●									
MOR-38C									●	●	●	●	●	●						
MOR-45C									●	●	●	●	●	●	●					
MOR-55C											●	●	●	●	●	●	●			
MOR-68C															●	●	●	●	●	●

Unit : inch

Part Number	Standard Inch Bore Diameter D1・D2						
	1 / 4	5 / 16	3 / 8	1 / 2	5 / 8	3 / 4	7 / 8
MOR-17C	●						
MOR-20C	●	●	●				
MOR-26C	●	●	●	●			
MOR-30C			●	●			
MOR-34C			●	●	●		
MOR-38C			●	●	●	●	
MOR-45C				●	●	●	
MOR-55C					●	●	●

- All products are provided with hex socket head cap screw.
- Recommended tolerance for shaft diameters is h6 and h7.
- A set of hubs with set screw type for one side and clamping type or other type for the other side is available upon request.
- 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

• Part number specification

MOR-55C - 18-20 1 Set

1 2

MOR-20 - SPCR Single Spacer

Product Code Outside Diameter (A Dimension) Single Spacer

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

MOR-C Flexible Couplings - Oldham Type - Clamping Type



High torque



Electrical Insulation



High Allowable Misalignment



Small Eccentric Reaction Force

Performance

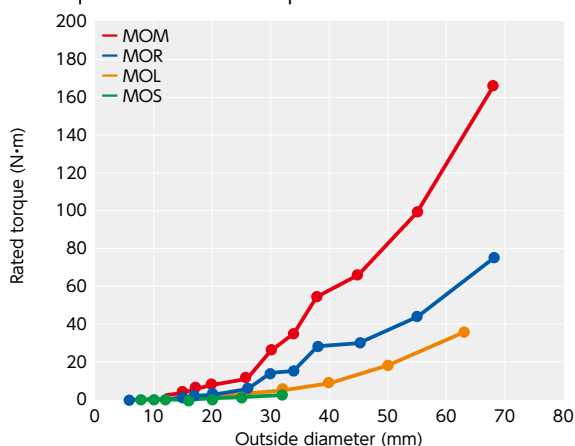
Part Number	Max. Bore Diameter (mm)	Rated *1 Torque (N·m)	Maximum *1 Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment *2 of Inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass *2 (g)
MOR-12C	5	1	2	52000	6.6×10^{-8}	60	1	3	3
MOR-15C	6	1.6	3.2	42000	1.7×10^{-7}	80	1	3	5
MOR-17C	6.35	2.2	4.4	37000	3.8×10^{-7}	120	1.2	3	9
MOR-20C	10	3.2	6.4	31000	8.0×10^{-7}	120	1.2	3	13
MOR-26C	14	6	12	24000	2.5×10^{-6}	300	1.5	3	24
MOR-30C	14	15	30	21000	5.3×10^{-6}	530	2	3	39
MOR-34C	16	16	32	18000	8.6×10^{-6}	1000	2.5	3	50
MOR-38C	20	28	56	16000	1.5×10^{-5}	1500	2.5	3	67
MOR-45C	20	30	60	14000	3.2×10^{-5}	2400	3	3	110
MOR-55C	25	45	90	11000	1.0×10^{-4}	4100	4	3	230
MOR-68C	35	80	160	9000	3.3×10^{-4}	6400	4.5	3	440

*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-C** is -20°C to 80°C.

The shaft's slip torque may be smaller than the coupling's rated torque depending on the shaft bore. ➔ P.xxxx

*2: These are values with max. bore diameter.

● Comparison of rated torque



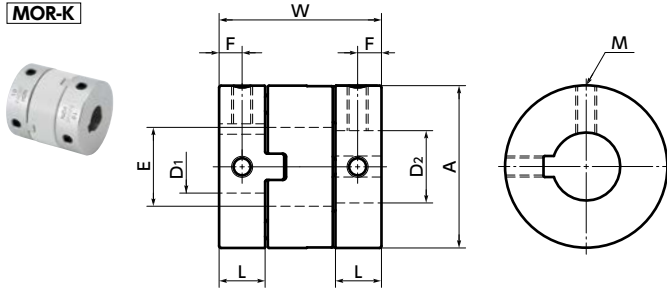
● Ambient Temperature / Temperature Correction Factor

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

MOR-K Flexible Coupling - Oldham Type - Set Screw + Key Type

High torque Electrical Insulation High Allowable Misalignment Small Eccentric Reaction Force

MOR-K



Dimensions

Unit : mm

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

Unit : mm

Part Number	Standard Metric Bore Diameter (dimensional allowance H8)															
	D1・D2 															
	6	8	10	12	14	15	16	18	20	22	25	28	30	35	38	
MOR-15K	●	●														
MOR-17K	●	●														
MOR-20K	●	●	●													
MOR-26K	●	●	●	●	●											
MOR-30K		●	●	●	●	●	●									
MOR-34K			●	●	●	●	●									
MOR-38K			●	●	●	●	●	●	●							
MOR-45K			●	●	●	●	●	●	●	●						
MOR-55K					●	●	●	●	●	●	●					
MOR-68K								●	●	●	●	●	●	●	●	

Unit : inch

Part Number	Standard Inch Bore Diameter (dimensional allowance H7)				
	D1・D2	1 / 2	5 / 8	3 / 4	7 / 8
MOR-26K	●				
MOR-30K	●				
MOR-34K	●				
MOR-38K	●				
MOR-45K	●				
MOR-55K					

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

Additional Keyway at Shaft Hole → P.0000 Cleanroom Wash & Packaging → P.0000 Change to Stainless Steel Screw → P.0000

Please feel free to contact us Please feel free to contact us Available / Add'l charge

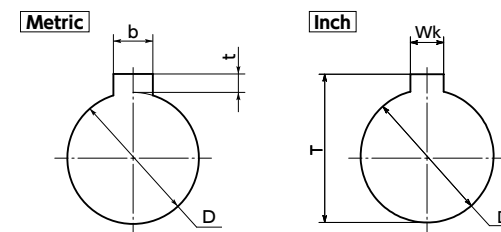
Performance

Part Number	Max. Bore Diameter (mm)	Rated Torque *1 (N·m)	Maximum Torque *1 (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment *2 of Inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass *2 (g)
MOR-15K	8	1.6	3.2	42000	1.4×10 ⁻⁷	80	1	3	4
MOR-17K	8	2.2	4.4	37000	2.8×10 ⁻⁷	120	1.2	3	7
MOR-20K	12	3.2	6.4	31000	5.6×10 ⁻⁷	120	1.2	3	8
MOR-26K	14	6	12	24000	2.0×10 ⁻⁶	300	1.5	3	19
MOR-30K	16	15	30	21000	5.4×10 ⁻⁶	530	2	3	37
MOR-34K	16	16	32	18000	9.0×10 ⁻⁶	1000	2.5	3	51
MOR-38K	20	28	56	16000	1.5×10 ⁻⁵	1500	2.5	3	68
MOR-45K	22	30	60	14000	3.2×10 ⁻⁵	2400	3	3	110
MOR-55K	26	45	90	11000	1.0×10 ⁻⁴	4100	4	3	230
MOR-68K	38	80	160	9000	3.3×10 ⁻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-K is -20°C to 80°C.

*2 : These are values with max. bore diameter.

Details of Shaft Hole



Metric Shaft Hole

Unit : mm

Standard Bore Diameter D	Keyway				Key
	b		t		Nominal Dimension b x h
	Standard Dimension	Allowance (JS9)	Standard Dimension	Allowance	
6	2	±0.0125	1.0	+0.1 0	2 × 2
8	3	±0.0125	1.4	+0.1 0	3 × 3
10・12	4	±0.0150	1.8	+0.1 0	4 × 4
14・15・16	5	±0.0150	2.3	+0.1 0	5 × 5
18・20・22	6	±0.0150	2.8	+0.1 0	6 × 6
25・28・30	8	±0.0180	3.3	+0.2 0	8 × 7
35・38	10	±0.0180	3.3	+0.2 0	10 × 8

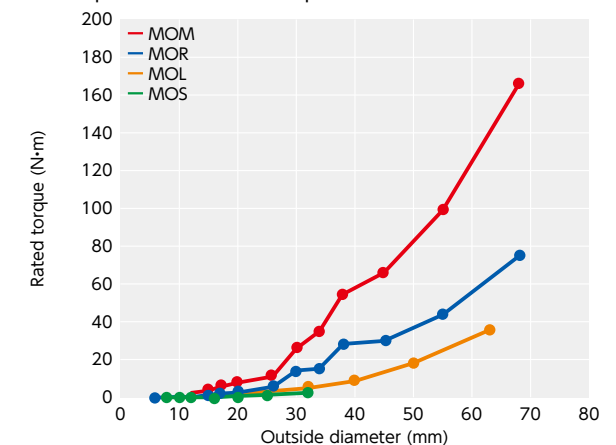
Excerpt from JIS B 1301

Inch Shaft Hole

Unit : inch

Standard Inch Bore Diameter D	Keyway		Key	
	Wk	T	Standard Dimension	Allowance
Standard Dimension	Allowance	Standard Dimension	Allowance	
1 / 2	1 / 8	+0.002 0	0.560	+0.01 0
5 / 8	3 / 16	+0.002 0	0.709	+0.01 0
3 / 4	3 / 16	+0.002 0	0.837	+0.01 0
7 / 8	3 / 16	+0.002 0	0.964	+0.01 0

Comparison of rated torque



Ambient Temperature / Temperature Correction Factor

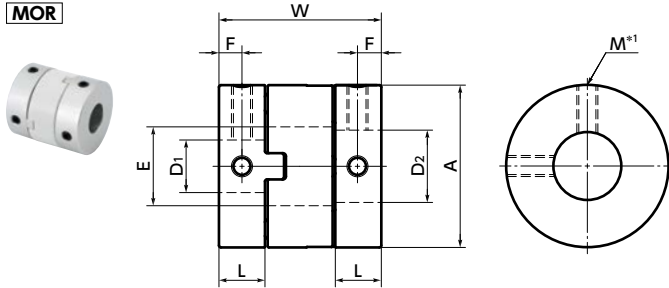
Ambient Temperature	Temperature Correction Factor
-20°C to 30°C	1.00
30°C to 40°C	0.80
40°C to 60°C	0.70
60°C to 80°C	0.55

Part number specification

MOR-26K-8-10 1 Set

MOR-20 - SPCR Single Spacer

Product Code Outside Diameter (A Dimension) Single Spacer

MOR Flexible Coupling - Oldham Type - Set Screw TypeHigh 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	0.18
MOR-8	8	2.5	9.6	3.1	1.3	M2	0.18
MOR-10	10	2.9	10.4	4.1	1.4	M2	0.18
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	M3	0.7
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)																	
	D1・D2	1	1.5	2	3	4	5	6	6.35	8	9.525	10	12	14	15	16	18	20
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 H7)							
	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.0000 Available / Add'l charge

Cleanroom Wash & Packaging → P.0000 Please feel free to contact us

Change to Stainless Steel Screw → P.0000 Available / Add'l charge

MOR Flexible Coupling - Oldham Type - Set Screw Type



High torque



Electrical Insulation



High Allowable Misalignment



Small Eccentric Reaction Force

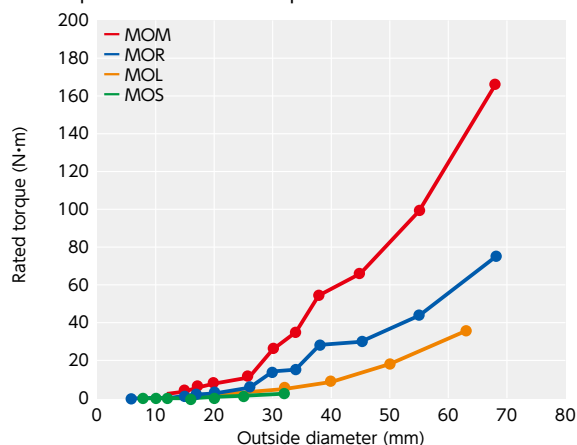
Performance

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