

MJC Flexible Coupling - Jaw - type

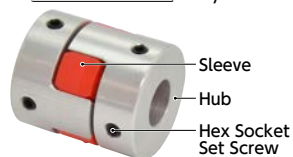
WEB Selection Tool CAD Download High torque Vibration absorption Electrical Insulation

Structure

● Set Screw Type → P.131

MJC-*-***** Tight Fit

MJC-*-E-***** Easy Fit



● Clamping Type → P.133

MJC-*CS-***** Tight Fit

MJC-*CS-E-***** Easy Fit



● Set Screw + Key Type → P.135

MJC-*K-***** Tight Fit

MJC-*K-E-***** Easy Fit



● Clamping + Key Type → P.137

MJC-*CSK-***** Tight Fit

MJC-*CSK-E-***** Easy Fit



● Material/Finish

RoHS2 Compliant

	MJC / MJC-CS / MJC-K / MJC-CSK
Hub	A2017 Alumite Treatment
Sleeve	Polyurethane
Hex Socket Set Screw	SCM435 Ferrosoferric Oxide Film (Black)
Hex Socket Head Cap Screw	SCM435 Ferrosoferric Oxide Film (Black)

Additional Keyway at Shaft Hole → P.803

Cleanroom Wash & Packaging → P.807

Change to Stainless Steel Screw → P.805

Available / Add'l charge

Available / Add'l charge

Available / Add'l charge

● Sleeve

Outside Diameter: $\phi 14 - \phi 30$



Tight Fit



Easy Fit

Outside Diameter: $\phi 40$



Tight Fit



Easy Fit

Outside Diameter: $\phi 55 - \phi 95$



Tight Fit



Easy Fit

● Part number specification

MJC-30CSK-ERD-10-11

Product Code Size Sleeve Type bore diameter

Please refer to dimensional table for part number specification.

● Applicable motors

	Tight Fit	Easy Fit
Servomotor	○	○
Stepping Motor	○	○
General-Purpose Motor	○	○

○: Excellent ○: Very good

● Property

	Tight Fit	Easy Fit
Zero Backlash	○	-
High Torque	○	○
Allowable Misalignment	○	○
Vibration Absorption	○	○
Electrical Insulation	○	○
Assembling	○	○
Allowable Operating Temperature	-20°C to 60°C	-20°C to 60°C

○: Excellent ○: Very good

● Sleeve Type

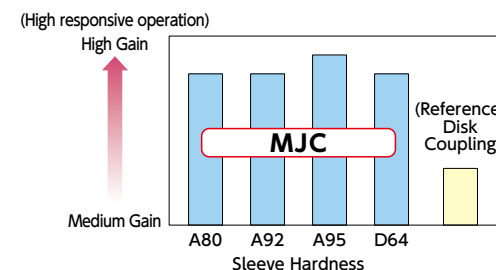
Sleeve Type	Sleeve Hardness (JIS)			
	A80	A92	A98	D64
Tight Fit				
Easy Fit				

Small ← Rated Torque / Max. Torque → Large
Large ← Allowable Misalignment → Small

● Tight Fit

The hub and sleeve are press-fit and can be used under zero backlash*1. Since the sleeve's vibration absorption can raise the gain of a servomotor, this unit can achieve high responsive operation exceeding the Disk coupling.

*1: For the torque used under zero backlash, please refer to dimensional table.



● Tight Fit Applications

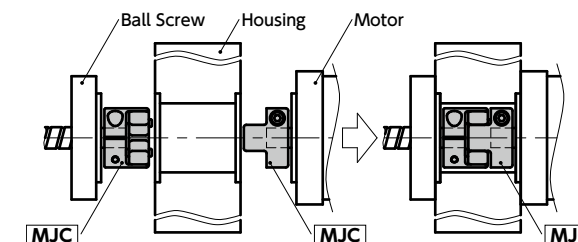
XY stage / Index table / Machine tool / Injection molding machine

● This is a jaw type flexible coupling.

- Tight Fit enables transmission with zero backlash at low torque.
- Easy fit allows you to assemble and partition the hub and sleeve smoothly.
- Excellent flexibility allows eccentricity, angular misalignment and twisting vibration to be accepted.
- It has electrical insulation. Resistance value: Not less than 2 MΩ
- There are four types of sleeve hardness. Please select desirable units according to usage conditions including torque and misalignment.

● Easy Fit

This unit allows you to easily assemble and partition the hub and sleeve. This allows you to reduce the time of assembling the unit and maintenance. It is possible to mount a hub on the shaft in advance and easily assemble the unit even in a location where the coupling is less-visible.



● Easy Fit Applications

Transport device / Mixer / Ventilator / Pump / Dispenser

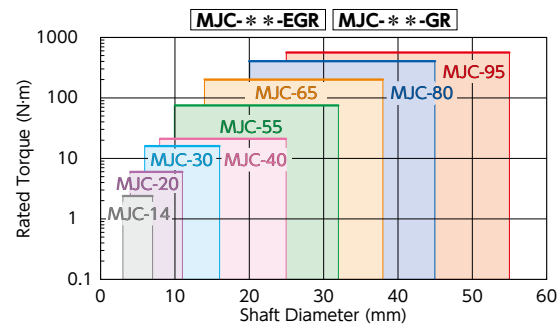
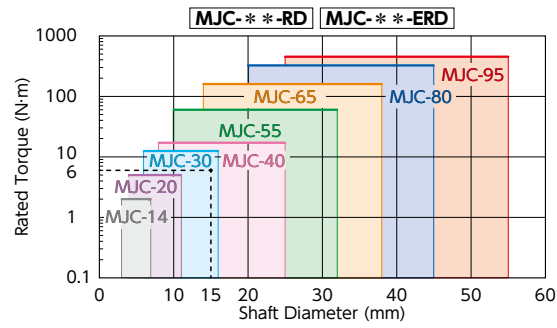
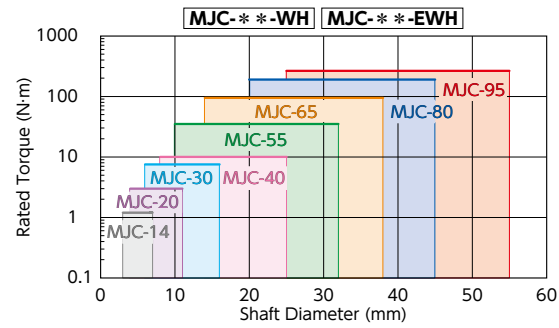
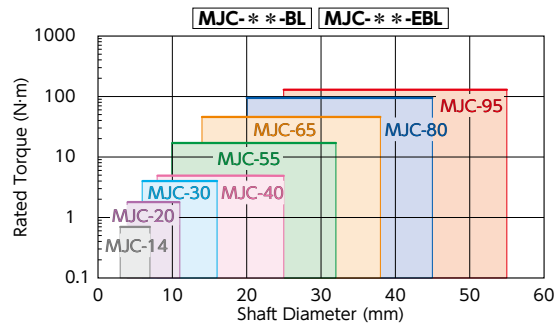
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Selection

● Selection based on shaft diameter and rated torque

The area bounded by the shaft diameter and rated torque indicates is the selection size.



● Selection Example

In case of selected parameters of shaft diameter of $\phi 15$ and load torque of 6 N·m, the selected size for **MJC-**-RD**, **MJC-**-ERD** is **MJC-30-RD**, **MJC-30-ERD**.

● Selection based on the rated output of the servomotor

Rated Output (W)	Servomotor Specifications			Selection Outside Diameter Size			
	Diameter of Motor Shaft (mm)	Rated Torque (N·m)	Instantaneous Max. Torque (N·m)	MJC-**-BL MJC-**-EBL	MJC-**-WH MJC-**-EWH	MJC-**-RD MJC-**-ERD	MJC-**-GR MJC-**-EGR
10	5 - 6	0.032	0.096	14	14	14	14
20	5 - 6	0.064	0.19	14	14	14	14
30	5 - 7	0.096	0.29	14	14	14	14
50	6 - 8	0.16	0.48	20	20	20	20
100	8	0.32	0.95	20	20	20	20
200	9 - 14	0.64	1.9	30	30	30	30
400	14	1.3	3.8	30	30	30	30
750	16 - 19	2.4	7.2	—	40	40	40

● 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.

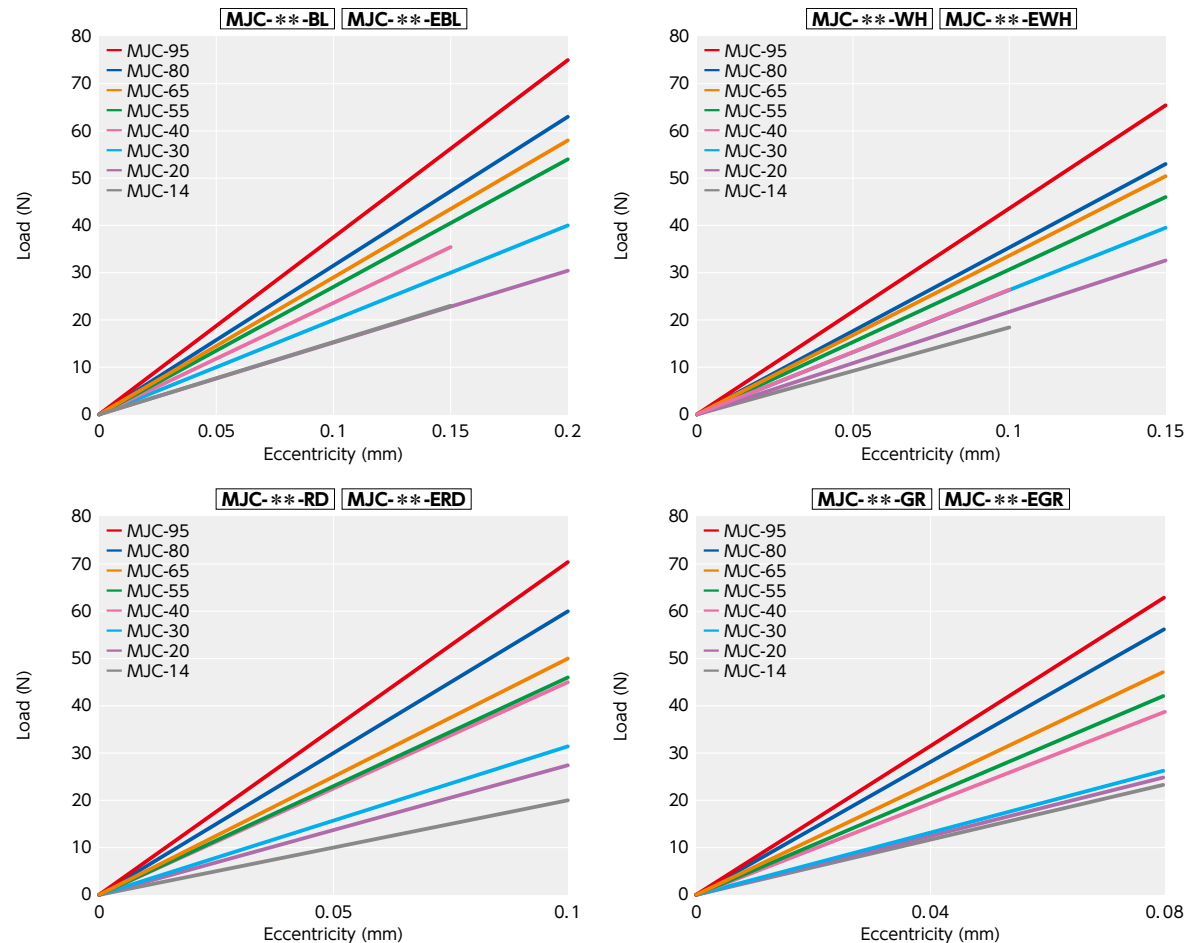
● Selection Example

In case of motor specification of shaft diameter of $\phi 9$ and rated torque of 0.64 N·m, the selected size of **MJC-**-BL** is as follows.

- Set Screw Type — **MJC-30-BL**
- Clamping Type — **MJC-30CS-BL**
- Set Screw + Key Type — **MJC-30K-BL**
- Clamping + Key Type — **MJC-30CSK-BL**

Technical Information

● Eccentric Reaction Force



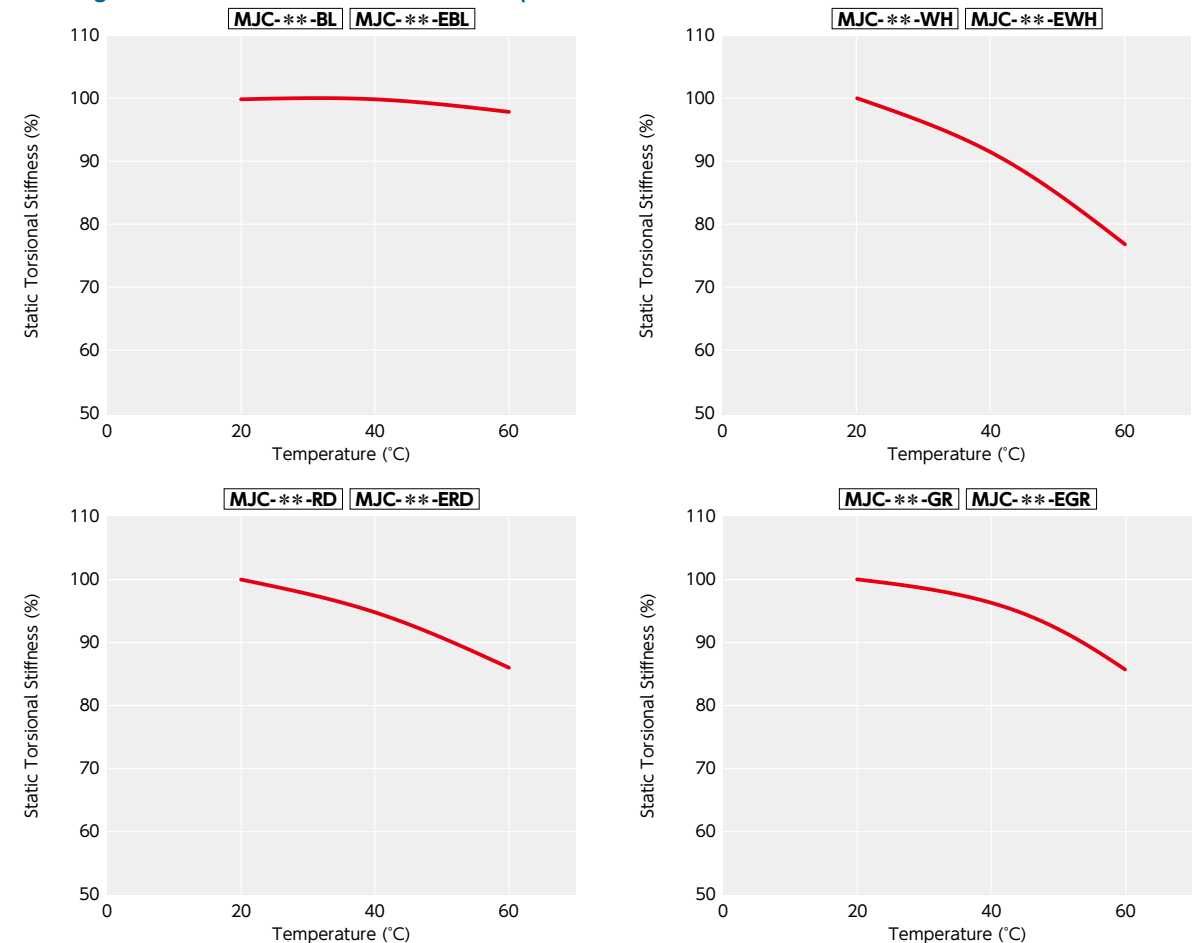
● Slip Torque

Concerning the sizes shown in the table, please note that the shaft's slip torque is smaller than the max. torque of **MJC-CS**.

Part Number	Bore Diameter (mm)																																
	3	4	4.5	5	6	6.35	7	8	9.525	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
MJC-14CS	0.8	1.4	1.7	2.1	1.3	1.4	1.5																										
MJC-20CS		3.4	4.1	4.9	6.4	6.9	7.9	9.4	5.1	6	8																						
MJC-30CS					4	4.9	6.6	9.3	13.4	14.6	17.3	20	15.3	21.2	27.2																		
MJC-40CS							18	23.2	24.8	28.2	31.7	38.5																					
MJC-55CS								29.9	33	39.5	46	59	65.5	72	78.5	85	91.5	98	111	124	130		117	124									
MJC-65CS													104	118	133	148	162	177	192	221	251	265	310	339	368	185	200						
MJC-80CS																			151	170	189	198	227	246	265	293	322	341	360	500			
MJC-95CS																						347	415	460	500	500	500	500	500	500	500	500	500

● These are test values based on the condition of shaft's dimensional allowance: h7, hardness: from 34 - 40 HRC, and screw tightening torque of the values described in **MJC-CS** dimensional table.

● Change in static torsional stiffness due to temperature



This is a value under the condition where the static torsional stiffness at 20℃ is 100%.
The change of torsional stiffness within the range of allowable operating temperature is as shown in the graph.
Before using the unit, be aware of the deterioration of responsiveness.

● Slip Torque

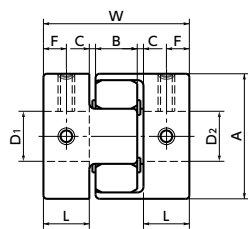
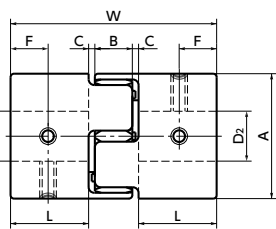
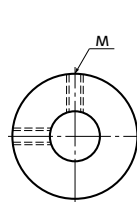
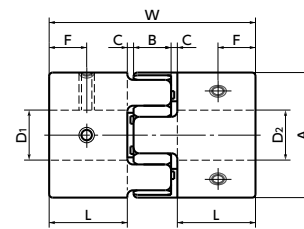
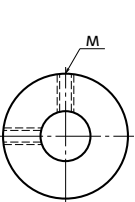
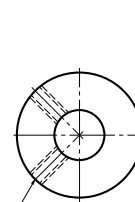
Concerning the sizes shown in the table, please note that the shaft's slip torque is smaller than the max. torque of **MJC-CS**.

Part Number	Bore Diameter (inch)																				
	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4
MJC-14CS	0.9	1.9	1.4																		
MJC-20CS		4.5	6.9	9.3	5.1																
MJC-30CS			4.9	9.1	13.4	17.6	7.5	17	26.4												
MJC-40CS				17.7	23.2	28.6	34.1	39.5													
MJC-55CS					29.9	40.2	50.5	60.8	71.1	81.5	91.8	102	112	122	133	112	123				
MJC-65CS							85	108	131	155	178	201	225	248	271	318	365	184	200		
MJC-80CS								96	111	126	141	157	172	187	202	232	262	292	322	353	500
MJC-95CS												249	285	320	356	428	500	500	500	500	500

● These are test values based on the condition of shaft's dimensional allowance: h7, hardness: from 34 - 40 HRC, and screw tightening torque of the values described in **MJC-CS** dimensional table.

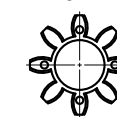
MJC Flexible coupling - Jaw - type - Set screw type

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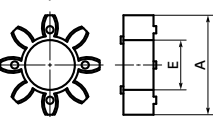
Outside Diameter: $\phi 14 - \phi 30$ Outside Diameter: $\phi 40$ Outside Diameter: $\phi 55 - \phi 95$ 

Sleeve Details

Tight Fit



Easy Fit



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

Dimensions

Unit : mm

Part Number	A	L	W	B	C*1	Sleeve E	F	M	Screw Tightening Torque (N·m)
MJC-14	14	7	22	6	1	4.5	3.5	M3	0.7
MJC-20	20	10	30	8	1	7	5	M3	0.7
MJC-30	30	11	35	10	1.5	11	5.5	M4	1.7
MJC-40	40	25	66	12	2	18	12.5	M5	4
MJC-55	55	30	78	14	2	27.5	15	M6	7
MJC-65	65	35	90	15	2.5	31	17.5	M8	15
MJC-80	80	45	114	18	3	37	22.5	M8	15
MJC-95	95	50	126	20	3	45.5	25	M8	15

*1 : Use with C Dimension

Part Number	Standard metric bore diameter (dimensional allowance H8)																								
	D1 • D2	3	4	4.5	5	6	6.35	7	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32
MJC-14	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-55	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-65	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-80	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-95	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Part Number	Standard inch bore diameter (dimensional allowance H7)																								
	D1 • D2	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	•	•	•
MJC-14	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-55	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-65	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-80	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MJC-95	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

- All products are provided with hex socket set screw.
- In a case where the bore diameter are $\phi 3, \phi 4$ and $\phi 1/8$, the setscrew is used in only one place.
- Recommended dimensional allowances of applicable shaft diameter are 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.

Additional Keyway at Shaft Hole → P.803	Cleanroom Wash & Packaging → P.807	Change to Stainless Steel Screw → P.805
Available / Add'l charge	Available / Add'l charge	Available / Add'l charge

Performance

Part Number	Sleeve 		Max. Bore Diameter (mm)	Rated*1 torque (N·m)	Max.*1 torque (N·m)	Zero Backlash*3 Allowable Transmission 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 (°)	Max. Axial Misalignment (mm)	Mass*2 (g)	Sleeve Hardness (JIS)
	Tight Fit	Easy Fit												
MJC-14	BL	EBL	7	0.7	1.4	0.1	45000	2.0 x 10 ⁻⁷	8	0.15	1	+0.6 0	6.6	A80
MJC-20	BL	EBL	11	1.8	3.6	0.2	31000	1.1 x 10 ⁻⁶	16	0.2	1	+0.8 0	17	
MJC-30	BL	EBL	16	4	8	0.5	21000	6.2 x 10 ⁻⁶	46	0.2	1	+1.0 0	44	
MJC-40	BL	EBL	25	4.9	9.8	1.2	15000	3.7 x 10 ⁻⁵	380	0.15	1	+1.2 0	130	
MJC-55	BL	EBL	32	17	34		11000	1.6 x 10 ⁻⁴	1400	0.2	1	+1.4 0	320	
MJC-65	BL	EBL	38.1	46	92		9000	3.6 x 10 ⁻⁴	2800	0.2	1	+1.5 0	520	
MJC-80	BL	EBL	45	95	190		7000	1.1 x 10 ⁻³	3200	0.2	1	+1.8 0	1000	
MJC-95	BL	EBL	55	130	260		6000	2.3 x 10 ⁻³	3600	0.2	1	+2.0 0	1500	
MJC-14	WH	EWH	7	1.2	2.4	0.1	45000	2.0 x 10 ⁻⁷	14	0.1	1	+0.6 0	6.6	A92
MJC-20	WH	EWH	11	3	6	0.2	31000	1.1 x 10 ⁻⁶	29	0.15	1	+0.8 0	17	
MJC-30	WH	EWH	16	7.5	15	0.5	21000	6.2 x 10 ⁻⁶	73	0.15	1	+1.0 0	44	
MJC-40	WH	EWH	25	10	20	1.2	15000	3.7 x 10 ⁻⁵	570	0.1	1	+1.2 0	130	
MJC-55	WH	EWH	32	35	70		11000	1.6 x 10 ⁻⁴	1600	0.15	1	+1.4 0	320	
MJC-65	WH	EWH	38.1	95	190		9000	3.6 x 10 ⁻⁴	3000	0.15	1	+1.5 0	520	
MJC-80	WH	EWH	45	190	380		7000	1.1 x 10 ⁻³	5300	0.15	1	+1.8 0	1000	
MJC-95	WH	EWH	55	265	530		6000	2.3 x 10 ⁻³	6200	0.15	1	+2.0 0	1500	
MJC-14	RD	ERD	7	2	4	0.1	45000	2.0 x 10 ⁻⁷	22	0.1	1	+0.6 0	6.6	A98
MJC-20	RD	ERD	11	5	10	0.2	31000	1.1 x 10 ⁻⁶	55	0.1	1	+0.8 0	17	
MJC-30	RD	ERD	16	12.5	25	0.5	21000	6.2 x 10 ⁻⁶	130	0.1	1	+1.0 0	44	
MJC-40	RD	ERD	25	17	34	1.2	15000	3.7 x 10 ⁻⁵	1200	0.1	1	+1.2 0	130	
MJC-55	RD	ERD	32	60	120		11000	1.6 x 10 ⁻⁴	2600	0.1	1	+1.4 0	320	
MJC-65	RD	ERD	38.1	160	320		9000	3.6 x 10 ⁻⁴	4900	0.1	1	+1.5 0	520	
MJC-80	RD	ERD	45	325	650		7000	1.1 x 10 ⁻³	6500	0.1	1	+1.8 0	1000	
MJC-95	RD	ERD	55	450	900		6000	2.3 x 10 ⁻³	8900	0.1	1	+2.0 0	1500	
MJC-14	GR	EGR	7	2.4	4.8	0.1	45000	2.0 x 10 ⁻⁷	66	0.08	1	+0.6 0	6.6	D64
MJC-20	GR	EGR	11	6	12	0.2	31000	1.1 x 10 ⁻⁶	87	0.08	1	+0.8 0	17	
MJC-30	GR	EGR	16	16	32	0.5	21000	6.2 x 10 ⁻⁶	200	0.08	1	+1.0 0	44	
MJC-40	GR	EGR	25	21	42	1.2	15000	3.7 x 10 ⁻⁵	3000	0.08	1	+1.2 0	130	
MJC-55	GR	EGR	32	75	150		11000	1.6 x 10 ⁻⁴	9000	0.08	1	+1.4 0	320	
MJC-65	GR	EGR	38.1	200	400		9000	3.6 x 10 ⁻⁴	13000	0.08	1	+1.5 0	520	
MJC-80	GR	EGR	45	405	810		7000	1.1 x 10 ⁻³	14000	0.08	1	+1.8 0	1000	
MJC-95	GR	EGR	55	560	1120		6000	2.3 x 10 ⁻³	15000	0.08	1	+2.0 0	1500	

*1 : Correction of rated torque and max. torque due to load fluctuation is not required. However, if ambient temperature exceeds 30°C, be sure to correct the rated torque and max. torque with temperature correction factor shown in the table. **MJC**'s allowable operating temperature is -20°C to 60°C.

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

*3 : For transmission with Zero Backlash, please use a tight fit sleeve.

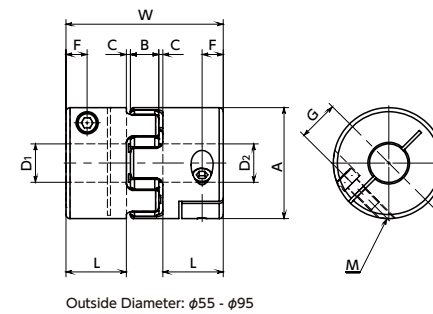
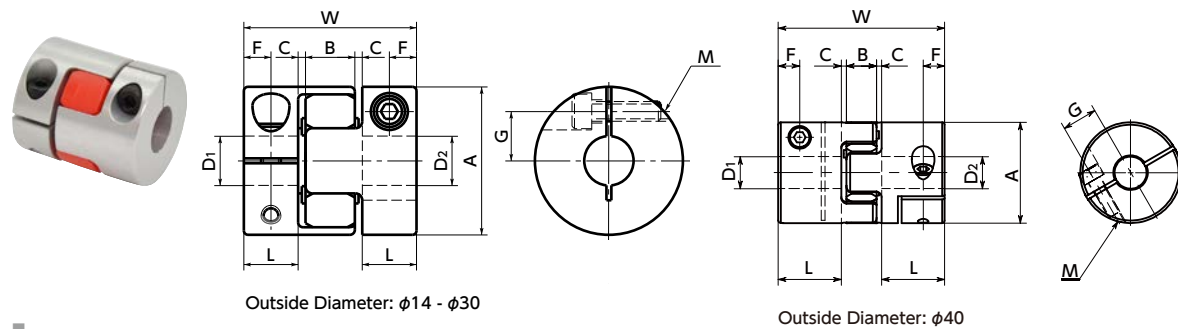
Part number specification

MJC-95-EBL-40-45

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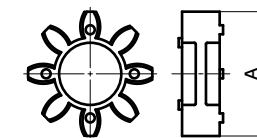
MJC-CS Flexible coupling - Jaw - type - Clamping type

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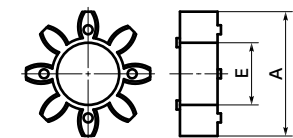


Sleeve Details

Tight Fit



Easy Fit



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

Dimensions

Unit : mm

Part Number	Bore Diameter	A	L	W	B	C*1	Sleeve E	F	G	M	Screw Tightening Torque (N·m)
MJC-14CS	3 - 5	14	7	22	6	1	4.5	3.5	4	M2	0.5
	6 - 7								5	M1.6	0.25
MJC-20CS	4 - 8	20	10	30	8	1	7	5	6.5	M2.5	1
	9.525 - 11								7.5	M2	0.5
MJC-30CS	6 - 12	30	11	35	10	1.5	11	5.5	10	M4	3.5
	12.7 - 16								11	M3	1.5
MJC-40CS	7.9375 - 20	40	25	66	12	2	18	8.5	14	M5	8
	22 - 25								15.75	M4	3.5
MJC-55CS	9.525 - 28	55	30	78	14	2	27.5	10.5	20	M6	13
	30 - 32								21	M5	8
MJC-65CS	12.7 - 32	65	35	90	15	2.5	31	13	24	M8	28
	34.925 - 38.1								25	M6	13
MJC-80CS	19.05 - 42	80	45	114	18	3	37	15	30	M8	28
	45								31		
MJC-95CS	0.05	95	50	126	20	3	45.5	18	34	M10	55
	50 - 55								36		

*1 : Use with C Dimension

Part Number	Standard metric bore diameter																															
	D1 • D2 																															
	3	4	4.5	5	6	6.35	7	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
MJC-14CS																																
MJC-20CS																																
MJC-30CS																																
MJC-40CS																																
MJC-55CS																																
MJC-65CS																																
MJC-80CS																																
MJC-95CS																																

Part Number	Standard inch bore diameter D1 • D2 																				
	1 / 8	3 / 16	1 / 4	5 / 16	3 / 8	7 / 16	1 / 2	9 / 16	5 / 8	11 / 16	3 / 4	13 / 16	7 / 8	15 / 16	1	1 1 / 8	1 1 / 4	1 3 / 8	1 1 / 2	1 5 / 8	1 3 / 4
MJC-14CS																					
MJC-20CS																					
MJC-30CS																					
MJC-40CS																					
MJC-55CS																					
MJC-65CS																					
MJC-80CS																					
MJC-95CS																					

- All products are provided with hex socket head cap screw.
- Recommended dimensional allowances of applicable shaft diameter are h6 and h7.
- A set of hubs with clamping type for one side and set screw type or other type for the other side is available upon request.
- In case of mounting on D-cut shaft, be careful about the position of the D-cut surface of the shaft. → P.258

Additional Keyway at Shaft Hole → P.803 Cleanroom Wash & Packaging → P.807 Change to Stainless Steel Screw → P.805

Available / Add'l charge

Available / Add'l charge

Available / Add'l charge

Performance

Part Number	Sleeve	Tight Fit	Easy Fit	Max. Bore Diameter (mm)	Rated*1 torque (N·m)	Max.*1 torque (N·m)	Zero Backlash*3 Allowable Transmission 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 (°)	Max. Axial Misalignment (mm)	Mass*2 (g)	Sleeve Hardness (JIS)
MJC-14CS	BL	EBL		7	0.7	1.4	0.1	45000	1.9 x 10 ⁻⁷	8	0.15	1	+0.6 0	6.2	A80
MJC-20CS	BL	EBL		11	1.8	3.6	0.2	31000	1.0 x 10 ⁻⁶	16	0.2	1	+0.8 0	16	
MJC-30CS	BL	EBL		16	4	8	0.5	21000	6.0 x 10 ⁻⁶	46	0.2	1	+1.0 0	42	
MJC-40CS	BL	EBL		25	4.9	9.8	1.2	15000	3.6 x 10 ⁻⁵	380	0.15	1	+1.2 0	130	
MJC-55CS	BL	EBL		32	17	34		11000	1.6 x 10 ⁻⁴	1400	0.2	1	+1.4 0	310	
MJC-65CS	BL	EBL		38.1	46	92		9000	3.5 x 10 ⁻⁴	2800	0.2	1	+1.5 0	500	
MJC-80CS	BL	EBL		45	95	190		7000	1.0 x 10 ⁻³	3200	0.2	1	+1.8 0	1000	
MJC-95CS	BL	EBL		55	130	260		6000	2.3 x 10 ⁻³	3600	0.2	1	+2.0 0	1600	
MJC-14CS	WH	EWL		7	1.2	2.4	0.1	45000	1.9 x 10 ⁻⁷	14	0.1	1	+0.6 0	6.2	A92
MJC-20CS	WH	EWL		11	3	6	0.2	31000	1.0 x 10 ⁻⁶	29	0.15	1	+0.8 0	16	
MJC-30CS	WH	EWL		16	7.5	15	0.5	21000	6.0 x 10 ⁻⁶	73	0.15	1	+1.0 0	42	
MJC-40CS	WH	EWL		25	10	20	1.2	15000	3.6 x 10 ⁻⁵	570	0.1	1	+1.2 0	130	
MJC-55CS	WH	EWL		32	35	70		11000	1.6 x 10 ⁻⁴	1600	0.15	1	+1.4 0	310	
MJC-65CS	WH	EWL		38.1	95	190		9000	3.5 x 10 ⁻⁴	3000	0.15	1	+1.5 0	500	
MJC-80CS	WH	EWL		45	190	380		7000	1.0 x 10 ⁻³	5300	0.15	1	+1.8 0	1000	
MJC-95CS	WH	EWL		55	265	530		6000	2.3 x 10 ⁻³	6200	0.15	1	+2.0 0	1600	
MJC-14CS	RD	ERD		7	2	4	0.1	45000	1.9 x 10 ⁻⁷	22	0.1	1	+0.6 0	6.2	A98
MJC-20CS	RD	ERD		11	5	10	0.2	31000	1.0 x 10 ⁻⁶	55	0.1	1	+0.8 0	16	
MJC-30CS	RD	ERD		16	12.5	25	0.5	21000	6.0 x 10 ⁻⁶	130	0.1	1	+1.0 0	42	
MJC-40CS	RD	ERD		25	17	34	1.2	15000	3.6 x 10 ⁻⁵	1200	0.1	1	+1.2 0	130	
MJC-55CS	RD	ERD		32	60	120		11000	1.6 x 10 ⁻⁴	2600	0.1	1	+1.4 0	310	
MJC-65CS	RD	ERD		38.1	160	320		9000	3.5 x 10 ⁻⁴	4900	0.1	1	+1.5 0	500	
MJC-80CS	RD	ERD		45	325	650		7000	1.0 x 10 ⁻³	6500	0.1	1	+1.8 0	1000	
MJC-95CS	RD	ERD		55	450	900		6000	2.3 x 10 ⁻³	8900	0.1	1	+2.0 0	1600	
MJC-14CS	GR	EGR		7	2.4	4.8	0.1	45000	1.9 x 10 ⁻⁷	66	0.08	1	+0.6 0	6.2	D64
MJC-20CS	GR	EGR		11	6	12	0.2	31000	1.0 x 10 ⁻⁶	87	0.08	1	+0.8 0	16	
MJC-30CS	GR	EGR		16	16	32	0.5	21000	6.0 x 10 ⁻⁶	200	0.08	1	+1.0 0	42	
MJC-40CS	GR	EGR		25	21	42	1.2	15000	3.6 x 10 ⁻⁵	3000	0.08	1	+1.2 0	130	
MJC-55CS	GR	EGR		32	75	150		11000	1.6 x 10 ⁻⁴	9000	0.08	1	+1.4 0	310	
MJC-65CS	GR	EGR		38.1	200	400		9000	3.5 x 10 ⁻⁴	13000	0.08	1	+1.5 0	500	
MJC-80CS	GR	EGR		45	405	810		7000	1.0 x 10 ⁻³	14000	0.08	1	+1.8 0	1000	
MJC-95CS	GR	EGR		55	560	1120		6000	2.3 x 10 ⁻³	15000	0.08	1	+2.0 0	1600	

*1 : Correction of rated torque and max. torque due to load fluctuation is not required. However, if ambient temperature exceeds 30°C, be sure to correct the rated torque and max. torque with temperature correction factor shown in the table. **MJC-CS**'s allowable operating temperature is -20°C to 60°C.

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

*3 : For transmission with Zero Backlash, please use a tight fit sleeve.

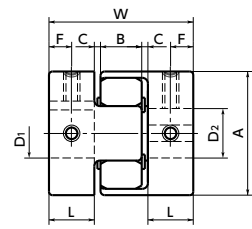
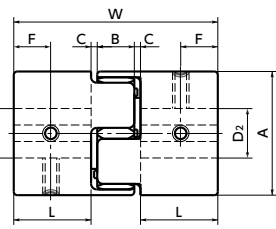
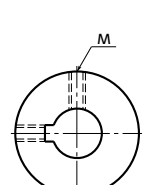
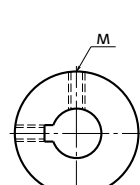
Part number specification

MJC-30CS-GR-7-8

1 2 3

MJC-K Flexible Coupling - Jaw - type - Set Screw + Key Type

WEB Selection Tool WEB CAD Download High torque Vibration absorption Electrical Insulation

Outside Diameter: $\phi 30$ Outside Diameter: $\phi 40$ 

Dimensions

Unit : mm

Part Number	A	L	W	B	C*1	Sleeve E	F	M	Screw Tightening Torque (N·m)
MJC-30K	30	11	35	10	1.5	11	5.5	M4	1.7
MJC-40K	40	25	66	12	2	18	12.5	M5	4
MJC-55K	55	30	78	14	2	27.5	15	M6	7
MJC-65K	65	35	90	15	2.5	31	17.5	M8	15
MJC-80K	80	45	114	18	3	37	22.5	M8	15
MJC-95K	95	50	126	20	3	45.5	25	M8	15

Part Number	Standard Bore Diameter (dimensional allowance H8) D1 • D2																		
	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42
MJC-30K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJC-40K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJC-55K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJC-65K				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJC-80K					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJC-95K						●	●	●	●	●	●	●	●	●	●	●	●	●	●

Part Number	Standard Bore Diameter (dimensional allowance H7) D1 • D2														
	1 / 2	9 / 16	5 / 8	11 / 16	3 / 4	13 / 16	7 / 8	15 / 16	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4
MJC-30K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJC-40K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJC-55K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJC-65K	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJC-80K				●	●	●	●	●	●	●	●	●	●	●	●
MJC-95K					●	●	●	●	●	●	●	●	●	●	●

- All products are provided with hex socket set screw.
- Recommended dimensional allowances of applicable shaft diameter are h6 and h7.
- A set of hubs with key type for one side and clamping type or other type for the other side is available upon request.

Part number specification

MJC-40K-EGR-11-12

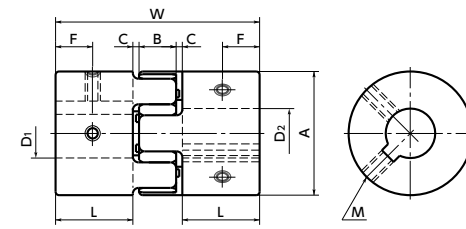
1 2 3

Additional Keyway at Shaft Hole → P.803 Cleanroom Wash & Packaging → P.807 Change to Stainless Steel Screw → P.805

Please feel free to contact us

Available / Add'l charge

Available / Add'l charge

Outside Diameter: $\phi 55 - \phi 95$

Performance

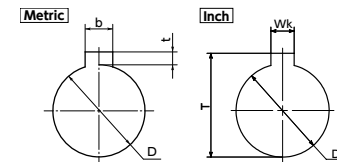
Part Number	Sleeve Tight Fit	Easy Fit	Max. Bore Diameter (mm)	Rated ^{*1} torque (N·m)	Max. ^{*1} torque (N·m)	Zero Backlash ^{*3} Allowable Transmission Torque(N·m)	Max. Rotational Frequency (min ⁻¹)	Moment ^{*2} of Inertia (kg·m ²)	Static Torsional Stiffness (N·m / rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass ^{*2} (g)	Sleeve Hardness (JIS)
MJC-30K	BL	EBL	16	4	8	0.5	21000	6.1 x 10 ⁻⁶	46	0.2	1	+1.0 0	43	A80
MJC-40K	BL	EBL	25	4.9	9.8	1.2	15000	3.6 x 10 ⁻⁵	380	0.15	1	+1.2 0	130	A92
MJC-55K	BL	EBL	32	17	34		11000	1.6 x 10 ⁻⁴	1400	0.2	1	+1.4 0	310	A98
MJC-65K	BL	EBL	38.1	46	92		9000	3.6 x 10 ⁻⁴	2800	0.2	1	+1.5 0	510	D64
MJC-80K	BL	EBL	45	95	190		7000	1.1 x 10 ⁻³	3200	0.2	1	+1.8 0	1000	
MJC-95K	BL	EBL	55	130	260		6000	2.3 x 10 ⁻³	3600	0.2	1	+2.0 0	1500	
MJC-30K	WH	EWL	16	7.5	15	0.5	21000	6.1 x 10 ⁻⁶	73	0.15	1	+1.0 0	43	
MJC-40K	WH	EWL	25	10	20	1.2	15000	3.6 x 10 ⁻⁵	570	0.1	1	+1.2 0	130	
MJC-55K	WH	EWL	32	35	70		11000	1.6 x 10 ⁻⁴	1600	0.15	1	+1.4 0	310	
MJC-65K	WH	EWL	38.1	95	190		9000	3.6 x 10 ⁻⁴	3000	0.15	1	+1.5 0	510	
MJC-80K	WH	EWL	45	190	380		7000	1.1 x 10 ⁻³	5300	0.15	1	+1.8 0	1000	
MJC-95K	WH	EWL	55	265	530		6000	2.3 x 10 ⁻³	6200	0.15	1	+2.0 0	1500	
MJC-30K	RD	ERD	16	12.5	25	0.5	21000	6.1 x 10 ⁻⁶	130	0.1	1	+1.0 0	43	
MJC-40K	RD	ERD	25	17	34	1.2	15000	3.6 x 10 ⁻⁵	1200	0.1	1	+1.2 0	130	
MJC-55K	RD	ERD	32	60	120		11000	1.6 x 10 ⁻⁴	2600	0.1	1	+1.4 0	310	
MJC-65K	RD	ERD	38.1	160	320		9000	3.6 x 10 ⁻⁴	4900	0.1	1	+1.5 0	510	
MJC-80K	RD	ERD	45	325	650		7000	1.1 x 10 ⁻³	6500	0.1	1	+1.8 0	1000	
MJC-95K	RD	ERD	55	450	900		6000	2.3 x 10 ⁻³	8900	0.1	1	+2.0 0	1500	
MJC-30K	GR	EGR	16	16	32	0.5	21000	6.1 x 10 ⁻⁶	200	0.08	1	+1.0 0	43	
MJC-40K	GR	EGR	25	21	42	1.2	15000	3.6 x 10 ⁻⁵	3000	0.08	1	+1.2 0	130	
MJC-55K	GR	EGR	32	75	150		11000	1.6 x 10 ⁻⁴	9000	0.08	1	+1.4 0	310	
MJC-65K	GR	EGR	38.1	200	400		9000	3.6 x 10 ⁻⁴	13000	0.08	1	+1.5 0	510	
MJC-80K	GR	EGR	45	405	810		7000	1.1 x 10 ⁻³	14000	0.08	1	+1.8 0	1000	
MJC-95K	GR	EGR	55	560	1120		6000	2.3 x 10 ⁻³	15000	0.08	1	+2.0 0	1500	

*1 : Correction of rated torque and max. torque due to load fluctuation is not required. However, if ambient temperature exceeds 30°C, be sure to correct the rated torque and max. torque with temperature correction factor shown in the table. **MJC-K**'s allowable operating temperature is -20°C to 60°C.

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

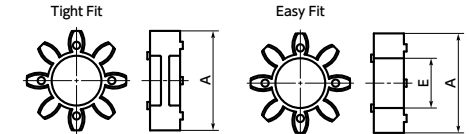
*3 : For transmission with Zero Backlash, please use a tight fit sleeve.

Details of Shaft Hole



Standard Bore Diameter D	keyway				Key
	b	allowance (JS9)	t	allowance	Nominal Dimension b x h
10 · 11 · 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 · 19 · 20 · 22	6	±0.0150	2.8	+0.1 0	6×6
24 · 25 · 28 · 30	8	±0.0180	3.3	+0.2 0	8×7
32 · 35 · 38	10	±0.0180	3.3	+0.2 0	10×8
40 · 42	12	±0.0215	3.3	+0.2 0	12×8
45 · 48 · 50	14	±0.0215	3.8	+0.2 0	14×9
55	16	±0.0215	4.3	+0.2 0	16×10

Sleeve Details



Ambient Temperature / Temperature Correction Factor

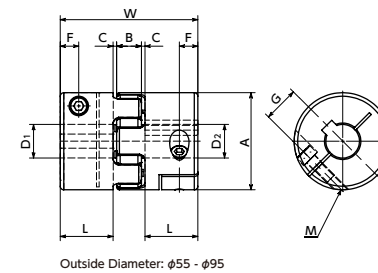
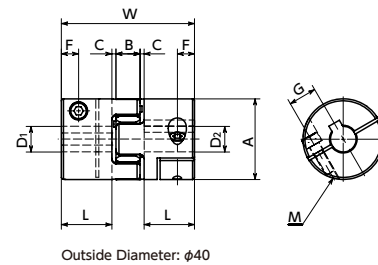
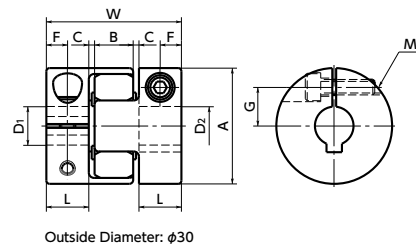
Ambient Temperature	Temperature Correction Factor
-20°C to 30°C	1.00
30°C to 40°C	0.80
40°C to 60°C	0.70

Unit : inch

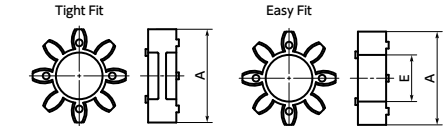
Standard Inch Bore Diameter D	Keyway Wk		T	
	Standard Dimension	Allowance	Standard Dimension	Allowance
1/2	1 / 8	+0.002 0	0.560	+0.01 0
9/16	1 / 8	+0.002 0	0.623	+0.01 0
5/8	3 / 16	+0.002 0	0.709	+0.01 0
11/16	3 / 16	+0.002 0	0.773	+0.01 0
3/4	3 / 16	+0.002 0	0.837	+0.01 0
13/16	3 / 16	+0.002 0	0.900	+0.01 0
7/8	3 / 16	+0.002 0	0.964	+0.01 0
15/16	1 / 4	+0.002 0	1.051	+0.01 0
1	1 / 4	+0.002 0	1.114	+0.01 0
1 1/8	1 / 4	+0.002 0	1.241	+0.01 0
1 1/4	1 / 4	+0.002 0	1.367	+0.01 0
1 3/8	5 / 16	+0.002 0	1.518	+0.01 0
1 1/2	3 / 8	+0.002 0	1.669	+0.01 0
1 5/8	3 / 8	+0.002 0	1.796	+0.01 0
1 3/4	3 / 8	+0.002 0	1.922	+0.01 0

MJC-CSK Flexible Coupling - Jaw - type - Clamping + Key Type

WEB Selection Tool CAD Download High torque Vibration absorption Electrical Insulation



Sleeve Details



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

Dimensions

Unit : mm

Part Number	Bore Diameter	A	L	W	B	C*1	Sleeve E	F	G	M	Screw Tightening Torque (N·m)
MJC-30CSK	10 - 12	30	11	35	10	1.5	11	5.5	10	M4	3.5
	14 - 16								11	M3	1.5
MJC-40CSK	10 - 20	40	25	66	12	2	18	8.5	14	M5	8
	22 - 25								15.75	M4	3.5
MJC-55CSK	10 - 28	55	30	78	14	2	27.5	10.5	20	M6	13
	30 - 32								21	M5	8
MJC-65CSK	12.7 - 32	65	35	90	15	2.5	31	13	24	M8	28
	34.925 - 38.1								25	M6	13
MJC-80CSK	19.05 - 42	80	45	114	18	3	37	15	30	M8	28
	44.45 - 45								31		
MJC-95CSK	25 - 48	95	50	126	20	3	45.5	18	34	M10	55
	50 - 55								36		

*1 : Use with C Dimension

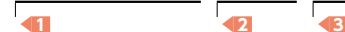
Part Number	Standard metric bore diameter																								
	D1 • D2 		10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
MJC-30CSK	●	●	●	●	●	●																			
MJC-40CSK	●	●	●	●	●	●	●	●	●	●	●	●	●												
MJC-55CSK	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
MJC-65CSK				●	●	●	●	●		●	●	●	●	●	●	●	●	●	●						
MJC-80CSK										●	●	●	●	●	●	●	●	●	●	●	●	●			
MJC-95CSK														●	●	●	●	●	●	●	●	●	●	●	●

Part Number	Standard inch bore diameter																
	D1 • D2 3																
	1 / 2	9 / 16	5 / 8	11 / 16	3 / 4	13 / 16	7 / 8	15 / 16	1	1 1 / 8	1 1 / 4	1 3 / 8	1 1 / 2	1 5 / 8	1 3 / 4		
MJC-30CSK	●	●	●														
MJC-40CSK	●	●	●	●	●												
MJC-55CSK	●	●	●	●	●	●	●	●	●								
MJC-65CSK	●	●	●	●	●	●	●	●	●	●	●	●	●				
MJC-80CSK					●	●	●	●	●	●	●	●	●	●	●		
MJC-95CSK									●	●	●	●	●	●	●		

- All products are provided with hex socket head cap screw.
- Recommended dimensional allowances of applicable shaft diameter are h6 and h7.
- A set of hubs with clamping + key type for one side and clamping type or other type for the other side is available upon request.
- In case of mounting on D-cut shaft, be careful about the position of the D-cut surface of the shaft. → P.258

Part number specification

MJC-80CSK-EWH-22-24



Additional Keyway at Shaft Hole → P.803 Cleanroom Wash & Packaging → P.807 Change to Stainless Steel Screw → P.805

Please feel free to contact us

Available / Add'l charge

Available / Add'l charge

Performance

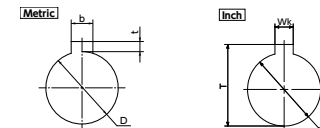
Part Number	Sleeve		Max. Bore Diameter (mm)	Rated*1 torque (N·m)	Max.*1 torque (N·m)	Zero Backlash*3 Allowable Transmission Torque(N·m)	Max. Rotational Frequency (min ⁻¹)	Moment*2 of Inertia (kg·m ²)	Static Torsional Stiffness (N·m / rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass*2 (g)	Sleeve Hardness (JIS)
	Tight Fit	Easy Fit												
MJC-30CSK	BL	EBL	16	4	8	0.5	21000	5.9 × 10 ⁻⁶	46	0.2	1	+1.0 0	41	A80
MJC-40CSK	BL	EBL	25	4.9	9.8	1.2	15000	3.5 × 10 ⁻⁵	380	0.15	1	+1.2 0	130	
MJC-55CSK	BL	EBL	32	17	34		11000	1.5 × 10 ⁻⁴	1400	0.2	1	+1.4 0	300	
MJC-65CSK	BL	EBL	38.1	46	92		9000	3.5 × 10 ⁻⁴	2800	0.2	1	+1.5 0	490	
MJC-80CSK	BL	EBL	45	95	190		7000	1.0 × 10 ⁻³	3200	0.2	1	+1.8 0	990	
MJC-95CSK	BL	EBL	55	130	260		6000	2.3 × 10 ⁻³	3600	0.2	1	+2.0 0	1500	
MJC-30CSK	WH	EW	16	7.5	15	0.5	21000	5.9 × 10 ⁻⁶	73	0.15	1	+1.0 0	41	A92
MJC-40CSK	WH	EW	25	10	20	1.2	15000	3.5 × 10 ⁻⁵	570	0.1	1	+1.2 0	130	
MJC-55CSK	WH	EW	32	35	70		11000	1.5 × 10 ⁻⁴	1600	0.15	1	+1.4 0	300	
MJC-65CSK	WH	EW	38.1	95	190		9000	3.5 × 10 ⁻⁴	3000	0.15	1	+1.5 0	490	
MJC-80CSK	WH	EW	45	190	380		7000	1.0 × 10 ⁻³	5300	0.15	1	+1.8 0	990	
MJC-95CSK	WH	EW	55	265	530		6000	2.3 × 10 ⁻³	6200	0.15	1	+2.0 0	1500	
MJC-30CSK	RD	ERD	16	12.5	25	0.5	21000	5.9 × 10 ⁻⁶	130	0.1	1	+1.0 0	41	A98
MJC-40CSK	RD	ERD	25	17	34	1.2	15000	3.5 × 10 ⁻⁵	1200	0.1	1	+1.2 0	130	
MJC-55CSK	RD	ERD	32	60	120		11000	1.5 × 10 ⁻⁴	2600	0.1	1	+1.4 0	300	
MJC-65CSK	RD	ERD	38.1	160	320		9000	3.5 × 10 ⁻⁴	4900	0.1	1	+1.5 0	490	
MJC-80CSK	RD	ERD	45	325	650		7000	1.0 × 10 ⁻³	6500	0.1	1	+1.8 0	990	
MJC-95CSK	RD	ERD	55	450	900		6000	2.3 × 10 ⁻³	8900	0.1	1	+2.0 0	1500	
MJC-30CSK	GR	EGR	16	16	32	0.5	21000	5.9 × 10 ⁻⁶	200	0.08	1	+1.0 0	41	D64
MJC-40CSK	GR	EGR	25	21	42	1.2	15000	3.5 × 10 ⁻⁵	3000	0.08	1	+1.2 0	130	
MJC-55CSK	GR	EGR	32	75	150		11000	1.5 × 10 ⁻⁴	9000	0.08	1	+1.4 0	300	
MJC-65CSK	GR	EGR	38.1	200	400		9000	3.5 × 10 ⁻⁴	13000	0.08	1	+1.5 0	490	
MJC-80CSK	GR	EGR	45	405	810		7000	1.0 × 10 ⁻³	14000	0.08	1	+1.8 0	990	
MJC-95CSK	GR	EGR	55	560	1120		6000	2.3 × 10 ⁻³	15000	0.08	1	+2.0 0	1500	

*1 : Correction of rated torque and max. torque due to load fluctuation is not required. However, if ambient temperature exceeds 30°C, be sure to correct the rated torque and max. torque with temperature correction factor shown in the table. MJC-CSK's allowable operating temperature is -20°C to 60°C.

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

*3 : For transmission with Zero Backlash, please use a tight fit sleeve.

Details of Shaft Hole



Unit : mm

Standard Metric Bore Diameter D	Keyway				Key Nominal Dimension b x h
	Standard Dimension	Allowance (JS9)	Standard Dimension	Allowance	
10 · 11 · 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 · 19 · 20 · 22	6	±0.0150	2.8	+0.1 0	6×6
24 · 25 · 28 · 30	8	±0.0180	3.3	+0.2 0	8×7
32 · 35 · 38	10	±0.0180	3.3	+0.2 0	10×8
40 · 42	12	±0.0215	3.3	+0.2 0	12×8
45 · 48 · 50	14	±0.0215	3.8	+0.2 0	14×9
55	16	±0.0215	4.3	+0.2 0	16×10

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
9/16	1 / 8	+0.002 0	0.623	+0.01 0
5/8	3 / 16	+0.002 0	0.709	+0.01 0
11/16	3 / 16	+0.002 0	0.773	+0.01 0
3/4	3 / 16	+0.002 0	0.837	+0.01 0
13/16	3 / 16	+0.002 0	0.900	+0.01 0
7/8	3 / 16	+0.002 0	0.964	+0.01 0
15/16	1 / 4	+0.002 0	1.051	+0.01 0
1	1 / 4	+0.002 0	1.114	+0.01 0
1 1/8	1 / 4	+0.002 0	1.241	+0.01 0
1 1/4	1 / 4	+0.002 0	1.367	+0.01 0
1 3/8	5 / 16	+0.002 0	1.518	+0.01 0
1 1/2	3 / 8	+0.002 0	1.669	+0.01 0
1 5/8	3 / 8	+0.002 0	1.796	+0.01 0
1 3/4	3 / 8	+0.002 0	1.922	+0.01 0

MJS Flexible Coupling - Jaw - type (Short)

WEB Selection Tool CAD Download High torque Vibration absorption Electrical Insulation

Structure

Clamping Type → P.143

MJS--CS-**-Tight Fit**

MJS--CS-E**-Easy Fit**



Clamping + Key Type → P.145

MJS--CSK-**-Tight Fit**

MJS--CSK-E**-Easy Fit**



Sleeve

Outside Diameter: $\phi 40$

Outside Diameter: $\phi 55 - \phi 95$



Tight Fit

Easy Fit

Tight Fit

Easy Fit

Applicable motors

	Tight Fit	Easy Fit
Servomotor	○	○
Stepping Motor	○	○
General-Purpose Motor	○	○

○: Excellent ○: Very good

Property

	Tight Fit	Easy Fit
Zero Backlash	○	—
High Torque	○	○
Allowable Misalignment	○	○
Vibration Absorption	○	○
Electrical Insulation	○	○
Assembling	○	○
Allowable Operating Temperature	−20°C to 60°C	−20°C to 60°C

○: Excellent ○: Very good

- This is a jaw type flexible coupling.
- It is a short type and more compact than **MJC**.
- Tight Fit enables transmission with zero backlash at low torque.
- Easy fit allows assembling and separation of hubs.
- Excellent flexibility allows eccentricity, angular misalignment and twisting vibration to be accepted.
- It has electrical insulation. Resistance value: Not less than 2 M Ω

Sleeve Type

Sleeve Type	Sleeve Hardness (JIS)			
	A80	A92	A98	D64
Tight Fit	BL	WH	RD	GR
Easy Fit	EBL	EWH	ERD	EGR

Small → Large
Large ← Small
Rated Torque / Maximum Torque
Allowable Misalignment

Material/Finish

RoHS2 Compliant

	MJS-CS / MJS-CSK
Hub	A2017 Alumite Treatment
Sleeve	Polyurethane
Hex Socket Head Cap Screw	SCM435 Ferrosoferric Oxide Film (Black)

Part number specification

MJS-40CSK-ERD-10-11

Product Code Size Sleeve Type bore diameter

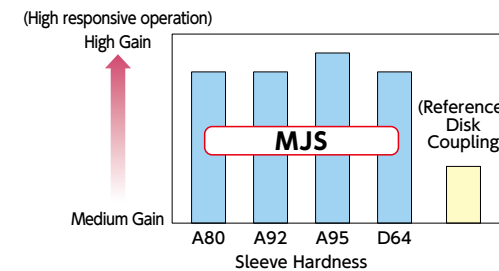
Please refer to dimensional table for part number specification.

Additional Keyway at Shaft Hole → P.803 Cleanroom Wash & Packaging → P.807 Change to Stainless Steel Screw → P.805
Available / Add'l charge Available / Add'l charge Available / Add'l charge

Tight Fit

The hub and sleeve are press-fit and can be used under zero backlash*1. Since the sleeve's vibration absorption can raise the gain of a servomotor, this unit can achieve high responsive operation exceeding the Disk coupling.

*1: For the torque used under zero backlash, please refer to Performance table.



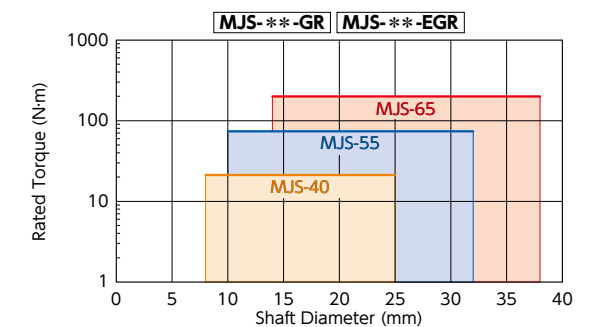
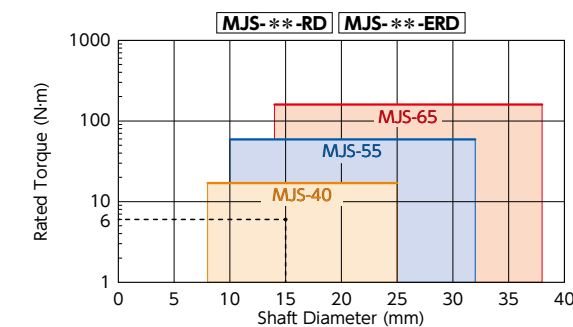
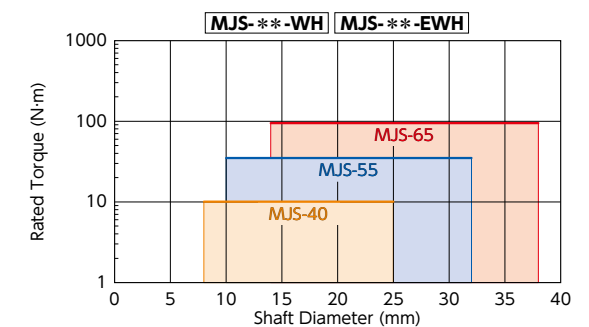
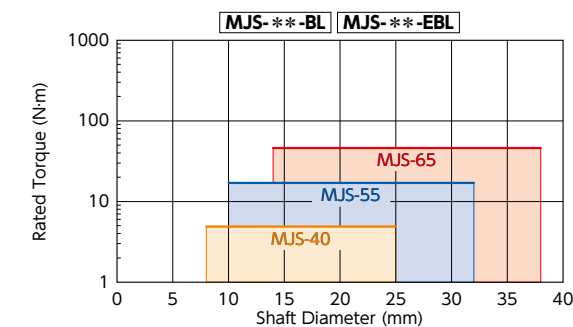
Tight Fit Applications

XY stage / Index table / Machine tool / Injection molding machine

Selection

Selection based on shaft diameter and rated torque

The area bounded by the shaft diameter and rated torque indicates is the selection size.



Selection Example

In case of selected parameters of shaft diameter of $\phi 15$ and load torque of 6 N·m, the selected size for

MJS--CS-RD**, **MJS-**-CS-ERD** is **MJS-40CS-RD**, **MJS-40CS-ERD**.



Easy Fit

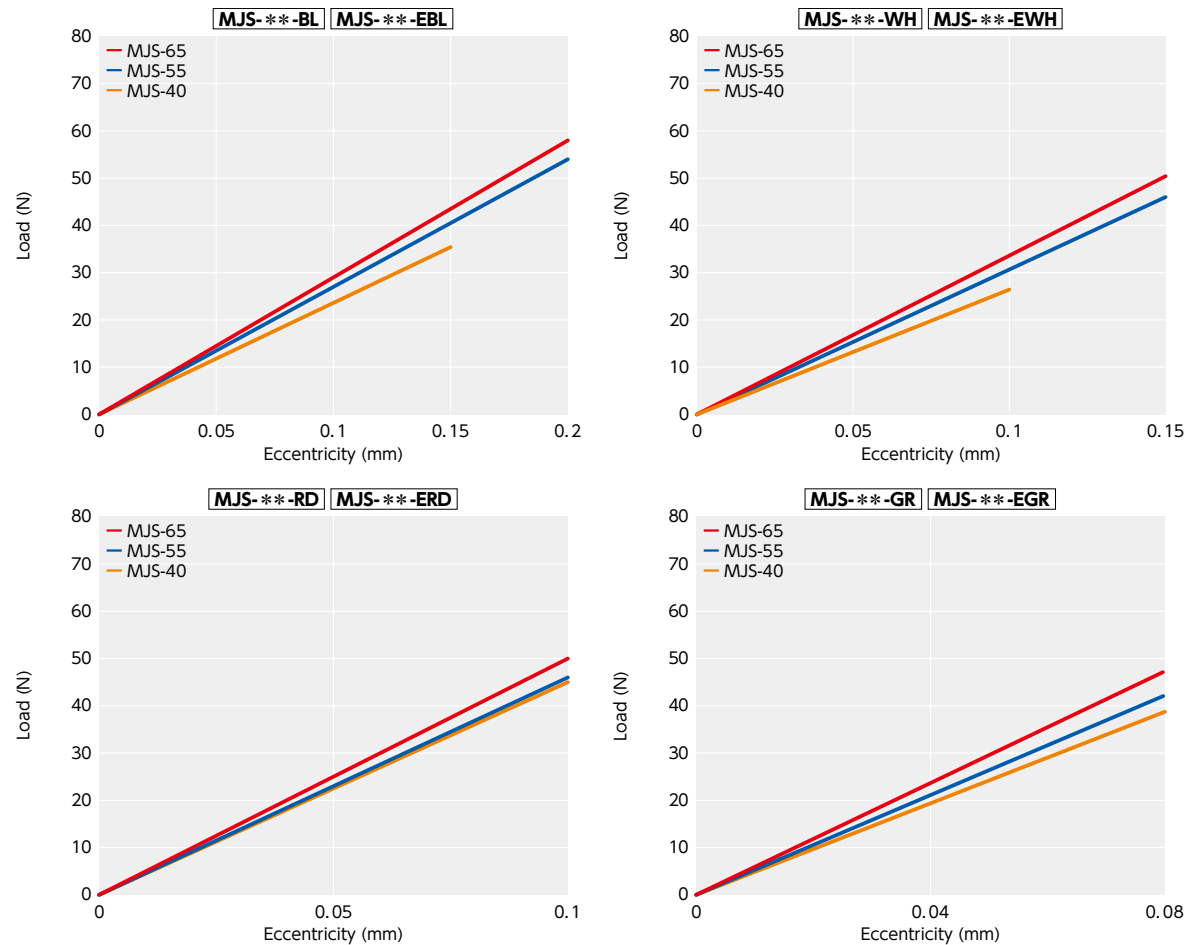
This unit allows you to easily assemble and partition the hub and sleeve. This allows you to reduce the time of assembling the unit and maintenance. It is possible to mount a hub on the shaft in advance and easily assemble the unit even in a location where the coupling is less-visible.

Easy Fit Applications

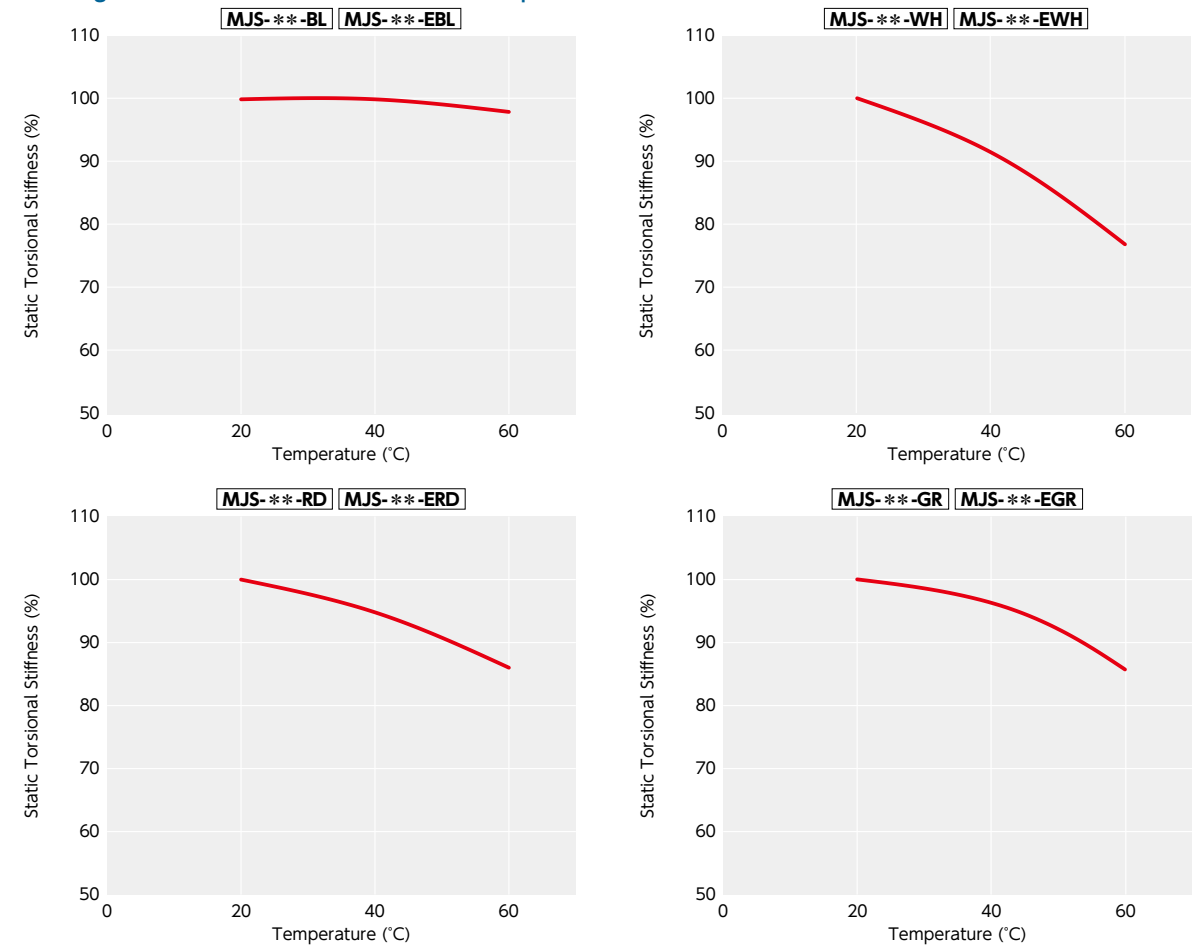
Transport device / Mixer / Ventilator / Pump / Dispenser

Technical Information

● Eccentric Reaction Force



● Change in static torsional stiffness due to temperature



This is a value under the condition where the static torsional stiffness at 20°C is 100%.
The change of torsional stiffness within the range of allowable operating temperature is as shown in the graph.
Before using the unit, be aware of the deterioration of responsiveness.

● Slip Torque

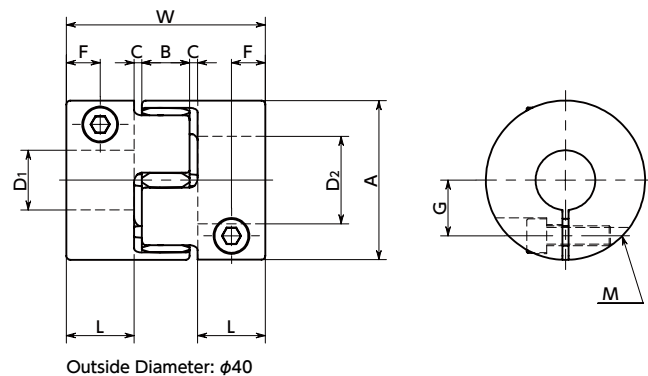
Concerning the sizes shown in the table, please note that the shaft's slip torque is smaller than the max. torque of **MJS-CS**.

Part Number	Bore Diameter (mm)																	Unit : N · m	
	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32		
MJS-40CS	28.9	35.6	37.7																
MJS-55CS			40.2	46.7	53.2	66.1	72.6	79	92	98.4	104	117	130	137		145			
MJS-65CS						113	123	134	155	165	176	197	218	228	260	281	302	300	300

● These are test values based on the condition of shaft's dimensional allowance: h7, hardness: from 34 - 40 HRC, and screw tightening torque of the values described in **MJS-CS** dimensional table.

MJS-CS Flexible Coupling - Jaw - type (Short) - Clamping Type

WEB Selection Tool CAD Download High torque Vibration absorption Electrical Insulation



Dimensions

Unit : mm

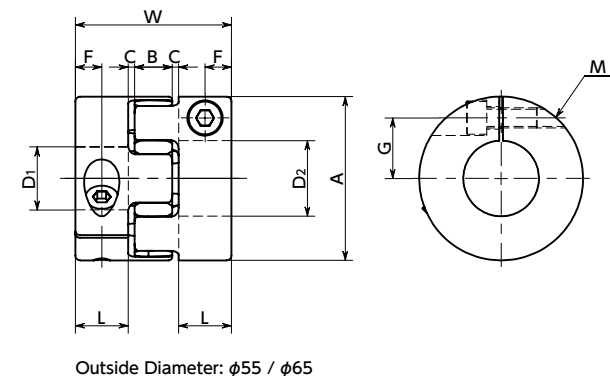
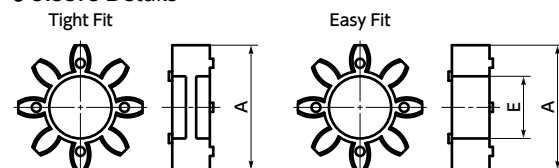
Part Number	Bore Diameter	A	L	W	B	C*1	Sleeve E	F	G	M	Screw Tightening Torque (N·m)
MJS-40CS	8 - 20	40	17	50	12	2	18	8.5	14	M5	8
	22 - 25								15.75	M4	3.5
MJS-55CS	10 - 28	55	18	54	14	2	27.5	9	20	M6	13
	30 - 32								21	M5	8
MJS-65CS	14 - 32	65	21	62	15	2.5	31	10.5	24	M8	28
	35 - 38								25	M6	13

*1 : Use with C Dimension

Part Number	Standard Bore Diameter D1・D2																
	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32
MJS-40CS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJS-55CS			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJS-65CS						●	●	●	●	●	●	●	●	●	●	●	●

- All products are provided with hex socket head cap screw.
- Recommended dimensional allowances of applicable shaft diameter are h6 and h7.
- A set of hubs with clamping type for one side and clamping + key type for the other side is available upon request.
- In case of mounting on D-cut shaft, be careful about the position of the D-cut surface of the shaft. ➡ P.258

● Sleeve Details



Performance

Part Number	Sleeve		Max. Bore Diameter (mm)	Rated*1 torque (N·m)	Max.*1 torque (N·m)	Zero Backlash*3 Allowable Transmission 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 (°)	Max. Axial Misalignment (mm)	Mass*2 (g)	Sleeve Hardness (JIS)
	Tight Fit	Easy Fit												
MJS-40CS	BL	EBL	25	4.9	9.8	1.2	15000	2.7 x 10 ⁻⁵	380	0.15	1	+1.2 0	100	
MJS-55CS	BL	EBL	32	17	34		11000	1.1 x 10 ⁻⁴	1400	0.2	1	+1.4 0	210	A80
MJS-65CS	BL	EBL	38	46	92		9000	2.4 x 10 ⁻⁴	2800	0.2	1	+1.5 0	340	
MJS-40CS	WH	EWL	25	10	20	1.2	15000	2.7 x 10 ⁻⁵	570	0.1	1	+1.2 0	100	
MJS-55CS	WH	EWL	32	35	70		11000	1.1 x 10 ⁻⁴	1600	0.15	1	+1.4 0	210	A92
MJS-65CS	WH	EWL	38	95	190		9000	2.4 x 10 ⁻⁴	3000	0.15	1	+1.5 0	340	
MJS-40CS	RD	ERD	25	17	34	1.2	15000	2.7 x 10 ⁻⁵	1200	0.1	1	+1.2 0	100	
MJS-55CS	RD	ERD	32	60	120		11000	1.1 x 10 ⁻⁴	2600	0.1	1	+1.4 0	210	A98
MJS-65CS	RD	ERD	38	160	320		9000	2.4 x 10 ⁻⁴	4900	0.1	1	+1.5 0	340	
MJS-40CS	GR	EGR	25	21	42	1.2	15000	2.7 x 10 ⁻⁵	3000	0.08	1	+1.2 0	100	
MJS-55CS	GR	EGR	32	75	150		11000	1.1 x 10 ⁻⁴	9000	0.08	1	+1.4 0	210	D64
MJS-65CS	GR	EGR	38	200	400		9000	2.4 x 10 ⁻⁴	13000	0.08	1	+1.5 0	340	

*1 : Correction of rated torque and max. torque due to load fluctuation is not required. However, if ambient temperature exceeds 30°C, be sure to correct the rated torque and max. torque with temperature correction factor shown in the table. **MJS-CS**'s allowable operating temperature is -20°C to 60°C.

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

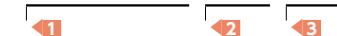
*3 : For transmission with Zero Backlash, please use a tight fit sleeve.

● 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

● Part number specification

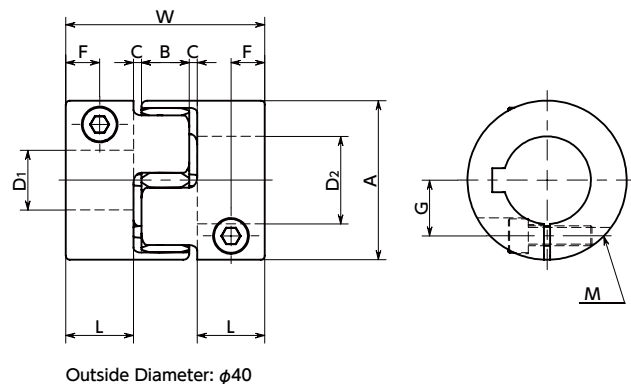
MJS-55CS-EGR-14-16



Additional Keyway at Shaft Hole ➡ P.803 Cleanroom Wash & Packaging ➡ P.807 Change to Stainless Steel Screw ➡ P.805
Available / Add'l charge Available / Add'l charge Available / Add'l charge

MJS-CSK Flexible Coupling - Jaw - type (Short) - Clamping + Key Type

WEB Selection Tool WEB CAD Download High torque Vibration absorption Electrical Insulation



Dimensions

Unit : mm

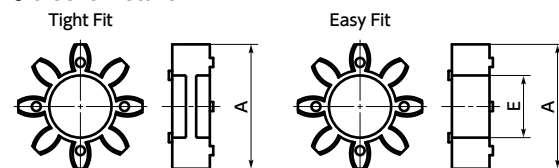
Part Number	Bore Diameter	A	L	W	B	C*1	Sleeve E	F	G	M	Screw Tightening Torque (N·m)
MJS-40CSK	10 - 20	40	17	50	12	2	18	8.5	14	M5	8
	22 - 25								15.75	M4	3.5
MJS-55CSK	10 - 28	55	18	54	14	2	27.5	9	20	M6	13
	30 - 32								21	M5	8
MJS-65CSK	14 - 32	65	21	62	15	2.5	31	10.5	24	M8	28
	35 - 38								25	M6	13

*1 : Use with C Dimension

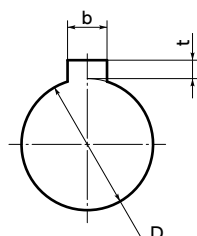
Part Number	Standard Bore Diameter D1・D2 3																
	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38
MJS-40CSK	●	●	●	●	●	●	●	●	●	●	●	●					
MJS-55CSK	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
MJS-65CSK				●	●	●	●	●	●	●	●	●	●	●	●	●	●

- All products are provided with hex socket head cap screw.
- Recommended dimensional allowances of applicable shaft diameter are 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.
- In case of mounting on D-cut shaft, be careful about the position of the D-cut surface of the shaft. → P.258

Sleeve Details



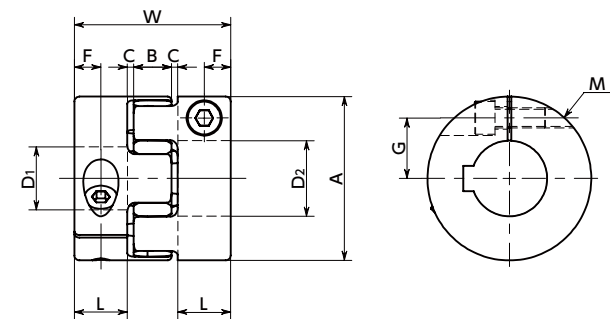
Details of Shaft Hole



Unit : mm

Standard Bore Diameter D	Keyway				Key
	b		t		Nominal
	Standard Dimension	Allowance (JS9)	Standard Dimension	Allowance	Dimension b x h
10・11・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・19・20・22	6	±0.0150	2.8	+0.1 0	6×6
24・25・28・30	8	±0.0180	3.3	+0.2 0	8×7
32・35・38	10	±0.0180	3.3	+0.2 0	10×8

Additional Keyway at Shaft Hole → P.803 Cleanroom Wash & Packaging → P.807 Change to Stainless Steel Screw → P.805
Please feel free to contact us Available / Add'l charge Available / Add'l charge



Outside Diameter: φ55 / φ65

Performance

Part Number	Sleeve Fit	Easy Fit	Max. Bore Diameter (mm)	Rated*1 torque (N·m)	Max.*1 torque (N·m)	Zero Backlash*3 Allowable Transmission 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 (°)	Max. Axial Misalignment (mm)	Mass*2 (g)	Sleeve Hardness (JIS)
MJS-40CSK	BL	EBL	25	4.9	9.8	1.2	15000	2.7 x 10 ⁻⁵	380	0.15	1	+1.2 0	96	
MJS-55CSK	BL	EBL	32	17	34		11000	1.0 x 10 ⁻⁴	1400	0.2	1	+1.4 0	210	A80
MJS-65CSK	BL	EBL	38	46	92		9000	2.3 x 10 ⁻⁴	2800	0.2	1	+1.5 0	330	
MJS-40CSK	WH	EWH	25	10	20	1.2	15000	2.7 x 10 ⁻⁵	570	0.1	1	+1.2 0	96	
MJS-55CSK	WH	EWH	32	35	70		11000	1.0 x 10 ⁻⁴	1600	0.15	1	+1.4 0	210	A92
MJS-65CSK	WH	EWH	38	95	190		9000	2.3 x 10 ⁻⁴	3000	0.15	1	+1.5 0	330	
MJS-40CSK	RD	ERD	25	17	34	1.2	15000	2.7 x 10 ⁻⁵	1200	0.1	1	+1.2 0	96	
MJS-55CSK	RD	ERD	32	60	120		11000	1.0 x 10 ⁻⁴	2600	0.1	1	+1.4 0	210	A98
MJS-65CSK	RD	ERD	38	160	320		9000	2.3 x 10 ⁻⁴	4900	0.1	1	+1.5 0	330	
MJS-40CSK	GR	EGR	25	21	42	1.2	15000	2.7 x 10 ⁻⁵	3000	0.08	1	+1.2 0	96	
MJS-55CSK	GR	EGR	32	75	150		11000	1.0 x 10 ⁻⁴	9000	0.08	1	+1.4 0	210	D64
MJS-65CSK	GR	EGR	38	200	400		9000	2.3 x 10 ⁻⁴	13000	0.08	1	+1.5 0	330	

*1 : Correction of rated torque and max. torque due to load fluctuation is not required. However, if ambient temperature exceeds 30°C, be sure to correct the rated torque and max. torque with temperature correction factor shown in the table. **MJS-CSK**'s allowable operating temperature is -20°C to 60°C.

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

*3 : For transmission with Zero Backlash, please use a tight fit sleeve.

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

Part number specification

MJS-40CSK-EBL-14-16

1 2 3

MJB Flexible Coupling - Jaw - type (Bushing)

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Structure

- Bushing type

MJB → P.153



- Sleeve

Outside diameter $\phi 40$



Tight Fit



Easy Fit

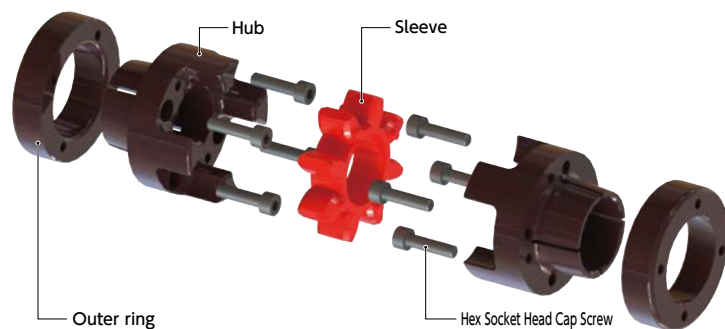
Outside diameter $\phi 55 - \phi 95$



Tight Fit



Easy Fit



Material/Finish

RoHS2 Compliant

	MJB
Hub	S45C Ferrosoferric Oxide Film (Black)
Outer ring	S45C Ferrosoferric Oxide Film (Black)
Sleeve	Polyurethane
Hex Socket Head Cap Screw	SCM435 Ferrosoferric oxide film

Part number specification

MJB-55-RD-10-10

Product Code Size Sleeve Bore Type Diameter

Please refer to dimensional table for part number specification.

Additional Keyway at Shaft Hole → P.803	Cleanroom Wash & Packaging → P.807	Change to Stainless Steel Screw → P.805
Please feel free to contact us	Not Available	Not Available

Applicable motors

	Tight fit	Easy Fit
Servomotor	○	○
Stepping Motor	○	○
General-purpose motor	○	○

○: Excellent ○: Very good

Property

	Tight fit	Easy Fit
High torque	○	○
Allowable Misalignment	○	○
Vibration absorption	○	○
Electrical insulation	○	○
Assembling	○	○
Allowable operating temperature	-20°C to 60°C	-20°C to 60°C

○: Excellent ○: Very good

- This is a jaw type flexible coupling.
- This superior high torque transmission is the most appropriate for the spindle of a machine tool.
- Excellent flexibility allows eccentricity, and angular misalignment and vibration to be accepted.
- It has electrical insulation. Resistance value: not less than 2 MΩ.
- There are four types of sleeve hardness. Please select desirable units according to usage conditions including torque and misalignment.
- Since the sleeve's vibration absorption can raise the gain of a servomotor, tight fit can achieve high responsive operation exceeding the Disk coupling.
- Easy fit allows you to assemble and partition the hub and sleeve smoothly. This allows you to reduce the time of assembling the unit and maintenance.

Application

Machine tool / Spindle

Sleeve type

Sleeve Type	Sleeve Hardness (JIS)			
	A80	A92	A98	D64
Tight Fit				
Easy Fit				

Small → Large Rated torque and max. torque
Large ← Small Allowable Misalignment



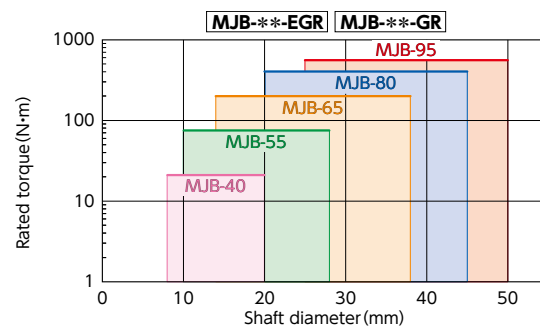
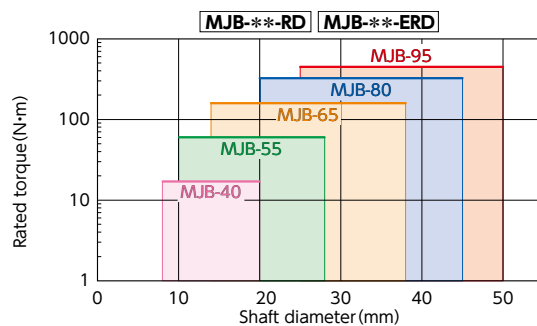
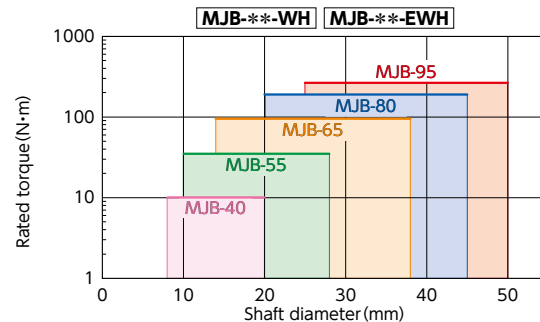
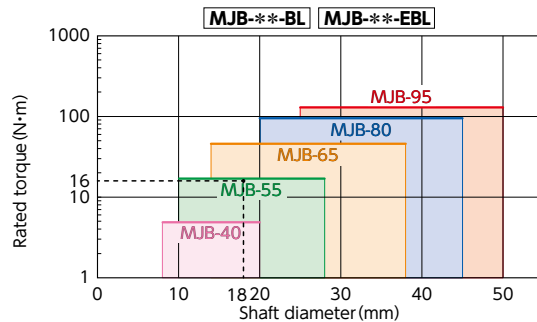
MJB Flexible Coupling - Jaw - type (Bushing)

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Selection

Selection based on shaft diameter and rated torque

The area bounded by the shaft diameter and rated torque indicates is the selection size.



Selection example

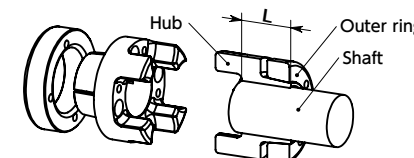
In case of selected parameters of shaft diameter of ϕ 18 and load torque of 16 N·m, the selected size for

MJB--BL** **MJB-**-EBL** is **MJB-55-BL**
MJB-55-EBL

Mounting / Removing

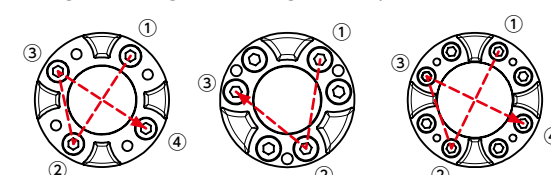
Mounting

- ① Clean up the fitting surfaces of hub, outer ring and shaft.
- ② Apply light oil thinly on the surfaces. Avoid molybdenum base oil as it reduces the fastening power seriously.
- ③ Insert the shaft to the dimension L. → **Table 1**



- ④ Tighten the hexagon socket head bolts with 50% of the tightening torque in **Table 1**, each for once, following the sequence in **Fig.1**
- ⑤ In the same sequence as in ④, tighten the hexagon socket head bolts with 100% of the tightening torque in **Table 1**, each for once.

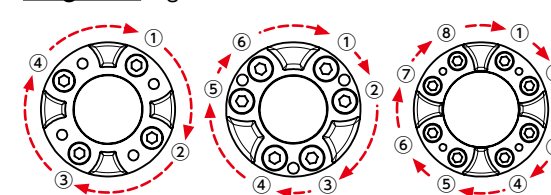
Diagram 1 Tighten in diagonal sequence



Number of bolts=4 Number of bolts=6 Number of bolts=8

- ⑥ Tighten all hexagon socket head bolts with the tightening torque in **Table 1**, following the sequence in **Fig.2**

Diagram 2 Tighten all bolts



Number of bolts=4 Number of bolts=6 Number of bolts=8

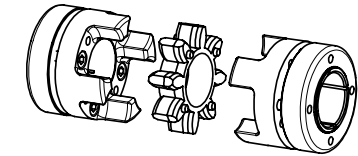
- ⑦ Repeat ⑥ until all hex socket head cap screws securely fixed.

As a guide, the rotation of a hex socket head screw, when tightened, should be less than 20 degrees.

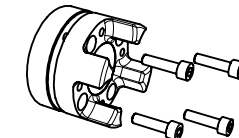
▲ Use a torque wrench to tighten bolts.

Removal

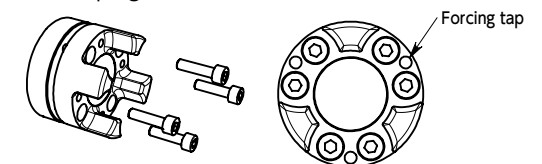
- ① Disassemble the hub and the sleeve.



- ② Confirm that there is no torque or thrust load, then loosen all hexagon socket head bolts completely and remove them.



- ③ Insert one of the removed bolts in ② to a forcing tap, and tighten little by little, avoiding uneven clamping.



- ④ Repeating ③ will lead to sharply reduced tightening torque. Remove the coupling from the shaft, as the fastening force from the tapered surface is reduced.

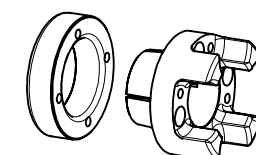


Table 1

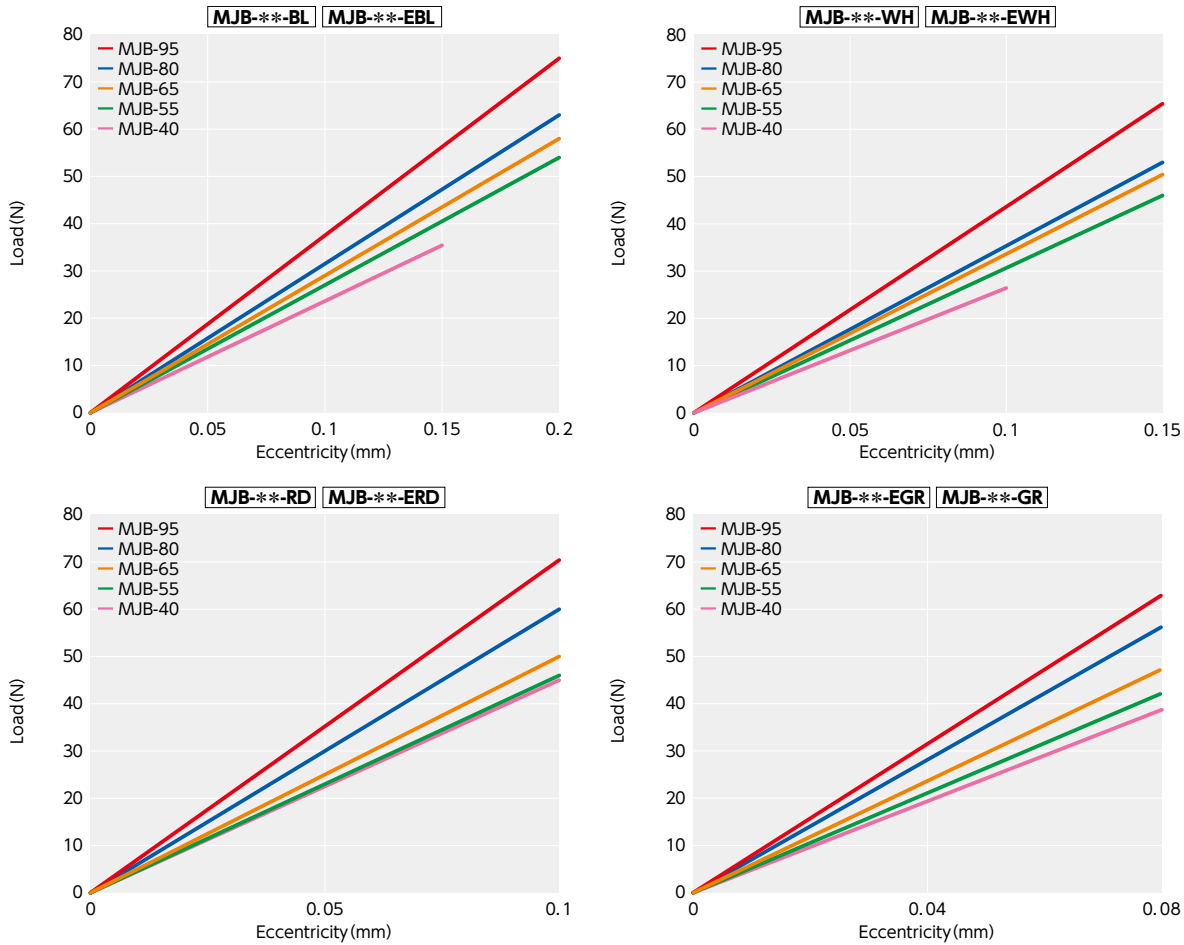
Part Number	L	Hex Socket Head Cap Screw	Screw Tightening Torque (N·m)
		Diameter of Thread	Number of bolts
MJB-40	25	M4	6
MJB-55	30	M5	4
MJB-65	35	M5	8
MJB-80	45	M6	8
MJB-95	50	M8	8

MJB Flexible Coupling - Jaw - type (Bushing)

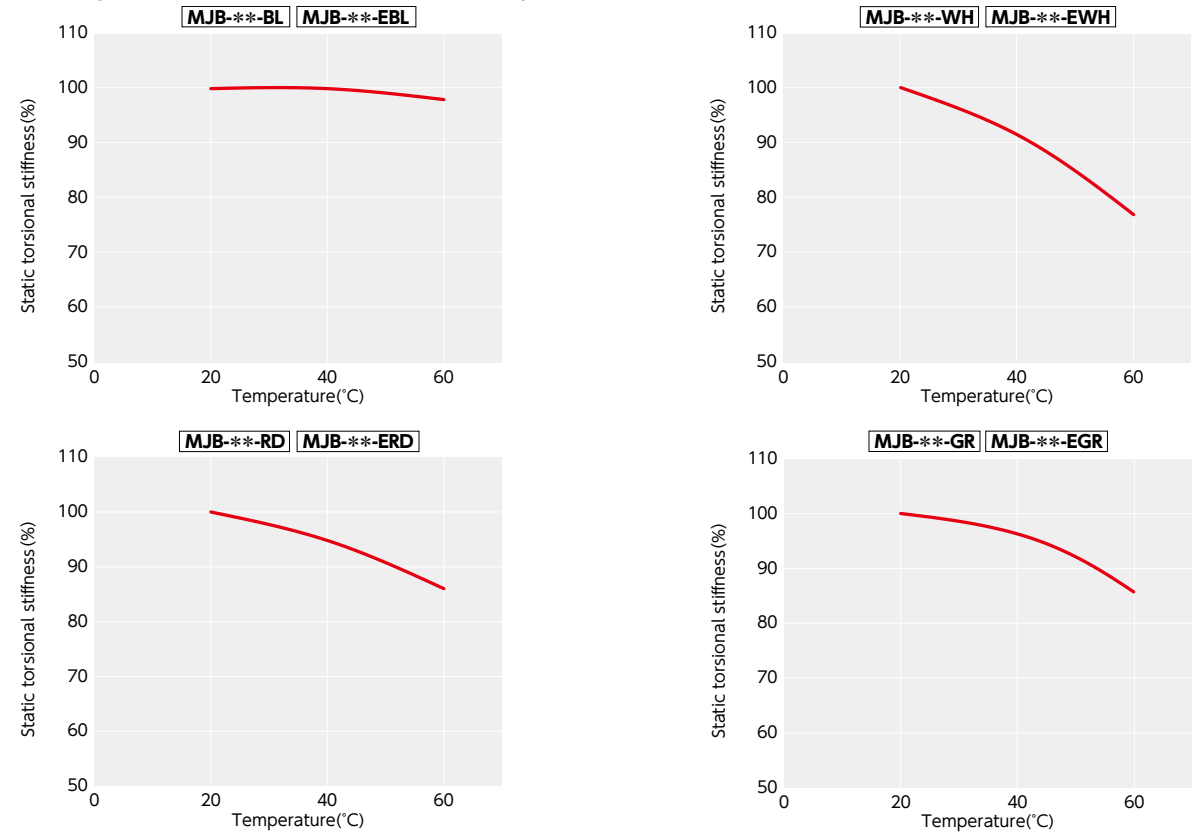
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[WEB CAD Download](#)
[High torque](#)
[Vibration absorption](#)
[Electrical Insulation](#)

Technical Information

● Eccentric Reaction Force



● Change in static torsional stiffness due to temperature



This is a value under the condition where the static torsional stiffness at 20°C is 100%.

The change of torsional stiffness within the range of allowable operating temperature is as shown in the graph.

Before using the unit, be aware of the deterioration of responsiveness.

● Slip Torque

Concerning the sizes shown in the following table, please note that the shaft's slip torque is smaller than the max. torque of **MJB** .

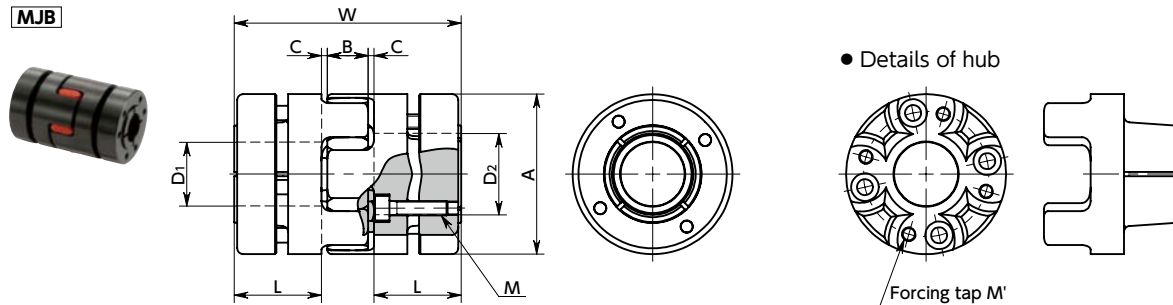
Part Number	Bore (mm)																				Unit : N · m	
	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50
MJB-55	32.8	54	75.2	117	138																	
MJB-65				161	171	181	202	212	222	243	264	274	305	325	346	377						
MJB-80									285	335	385	411	486	500	500	500	500	500	500	500		
MJB-95													500	500	500	500	500	500	500	500	500	500

● These are test values based on the condition of shaft's dimensional allowance: h7, hardness: 34 - 40 HRC, and screw tightening torque of the values described in **MJB** Dimension table.

MJB Flexible Coupling - Jaw - type (Bushing)

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MJB



Dimensions

Unit : mm

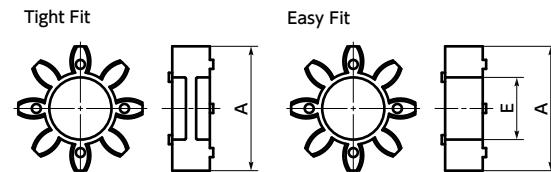
Part Number	A	L	W	B	C*1	Sleeve E	M	Number of bolts	Forcing tap M'	Screw Tightening Torque (N·m)
MJB-40	40	25	66	12	2	17	M4	6	M4	4
MJB-55	55	30	78	14	2	26	M5	4	M5	8.5
MJB-65	65	35	90	15	2.5	29.5	M5	8	M5	8.5
MJB-80	80	45	114	18	3	35.5	M6	8	M6	14
MJB-95	95	50	126	20	3	44	M8	8	M8	35

*1 : Use with C Dimension

Part Number	Standard Bore Diameter D1・D2																			
	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40
MJB-40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJB-55			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJB-65				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJB-80						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MJB-95											●	●	●	●	●	●	●	●	●	●

- All products are provided with hex socket head cap screw.
- Recommended dimensional allowances of applicable shaft diameter are h6 and h7.

Sleeve Details



Additional Keyway at Shaft Hole → P.803 Cleanroom Wash & Packaging → P.807 Change to Stainless Steel Screw → P.805

Please feel free to contact us

Not Available

Not Available

Performance

Part Number	Sleeve Tight Fit	Sleeve Easy Fit	Max. Bore Diameter (mm)	Rated*1 Torque (N·m)	Max.*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 (°)	Max. Axial Misalignment (mm)	Mass*2 (g)	Sleeve Hardness (JIS)
MJB-40	BL	EBL	20	4.9	9.8	23000	3.9×10 ⁻⁵	380	0.15	1	+1.2 0	400	A80
MJB-55	BL	EBL	28	17	34	17000	1.6×10 ⁻⁴	1400	0.2	1	+1.4 0	800	
MJB-65	BL	EBL	38	46	92	14000	3.8×10 ⁻⁴	2800	0.2	1	+1.5 0	1100	
MJB-80	BL	EBL	45	95	190	11000	1.0×10 ⁻³	3200	0.2	1	+1.8 0	2300	
MJB-95	BL	EBL	50	130	260	10000	2.3×10 ⁻³	3600	0.2	1	+2.0 0	4000	A92
MJB-40	WH	EWL	20	10	20	23000	3.9×10 ⁻⁵	570	0.1	1	+1.2 0	400	
MJB-55	WH	EWL	28	35	70	17000	1.6×10 ⁻⁴	1600	0.15	1	+1.4 0	800	
MJB-65	WH	EWL	38	95	190	14000	3.8×10 ⁻⁴	3000	0.15	1	+1.5 0	1100	
MJB-80	WH	EWL	45	190	380	11000	1.0×10 ⁻³	5300	0.15	1	+1.8 0	2300	A98
MJB-95	WH	EWL	50	265	530	10000	2.3×10 ⁻³	6200	0.15	1	+2.0 0	4000	
MJB-40	RD	ERD	20	17	34	23000	3.9×10 ⁻⁵	1200	0.1	1	+1.2 0	400	
MJB-55	RD	ERD	28	60	120	17000	1.6×10 ⁻⁴	2600	0.1	1	+1.4 0	800	
MJB-65	RD	ERD	38	160	320	14000	3.8×10 ⁻⁴	4900	0.1	1	+1.5 0	1100	D64
MJB-80	RD	ERD	45	325	650	11000	1.0×10 ⁻³	6500	0.1	1	+1.8 0	2300	
MJB-95	RD	ERD	50	450	900	10000	2.3×10 ⁻³	8900	0.1	1	+2.0 0	4000	
MJB-40	GR	EGR	20	21	42	23000	3.9×10 ⁻⁵	3000	0.08	1	+1.2 0	400	D64
MJB-55	GR	EGR	28	75	150	17000	1.6×10 ⁻⁴	9000	0.08	1	+1.4 0	800	
MJB-65	GR	EGR	38	200	400	14000	3.8×10 ⁻⁴	13000	0.08	1	+1.5 0	1100	
MJB-80	GR	EGR	45	405	810	11000	1.0×10 ⁻³	14000	0.08	1	+1.8 0	2300	
MJB-95	GR	EGR	50	560	1120	10000	2.3×10 ⁻³	15000	0.08	1	+2.0 0	4000	

*1 : Correction of rated torque and max. torque due to load fluctuation is not required. However, 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 **MJB** is -20°C to 60°C.

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

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

Part number specification

MJB-65-EWH-16-20 (1 set)

1 2 3

MJ-40 - RD-SLV (Single Sleeve)

Sleeve Symbol Outside Diameter (A Dimension) 2 Sleeve Symbol