

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

- Material/Finish

RoHS2 Compliant

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

- 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: Rated Torque / Maximum Torque
 Large ← Small: Allowable Misalignment

- Part number specification

MJS-40CSK-ERD-10-11

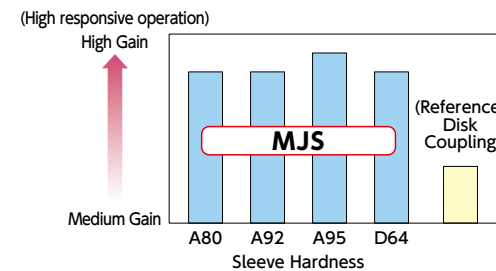
Product Code Size Sleeve Type bore diameter

Please refer to dimensional table for part number specification.

- 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.



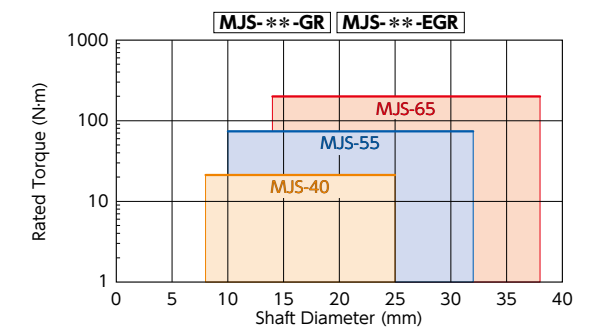
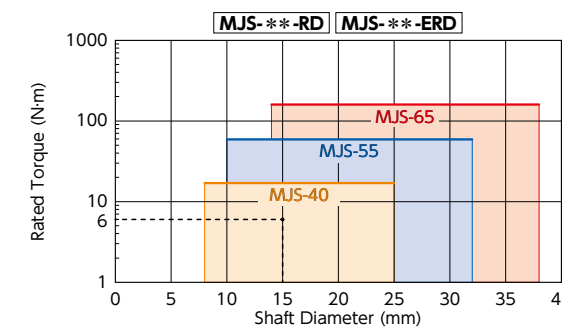
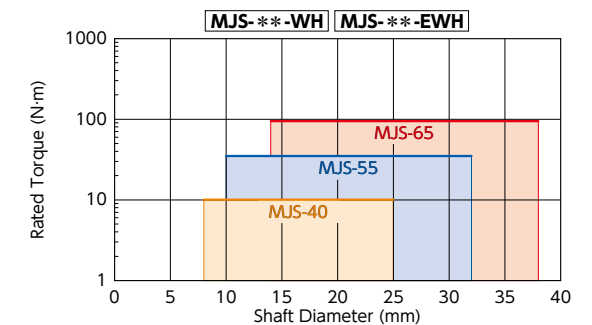
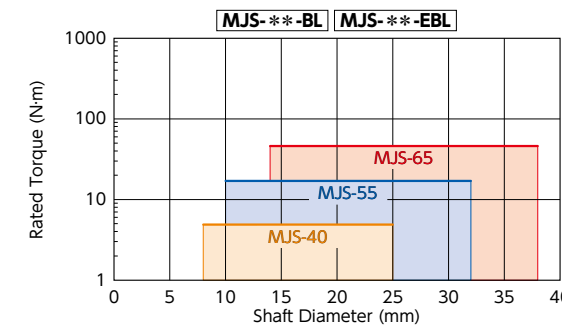
- Tight Fit Applications

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

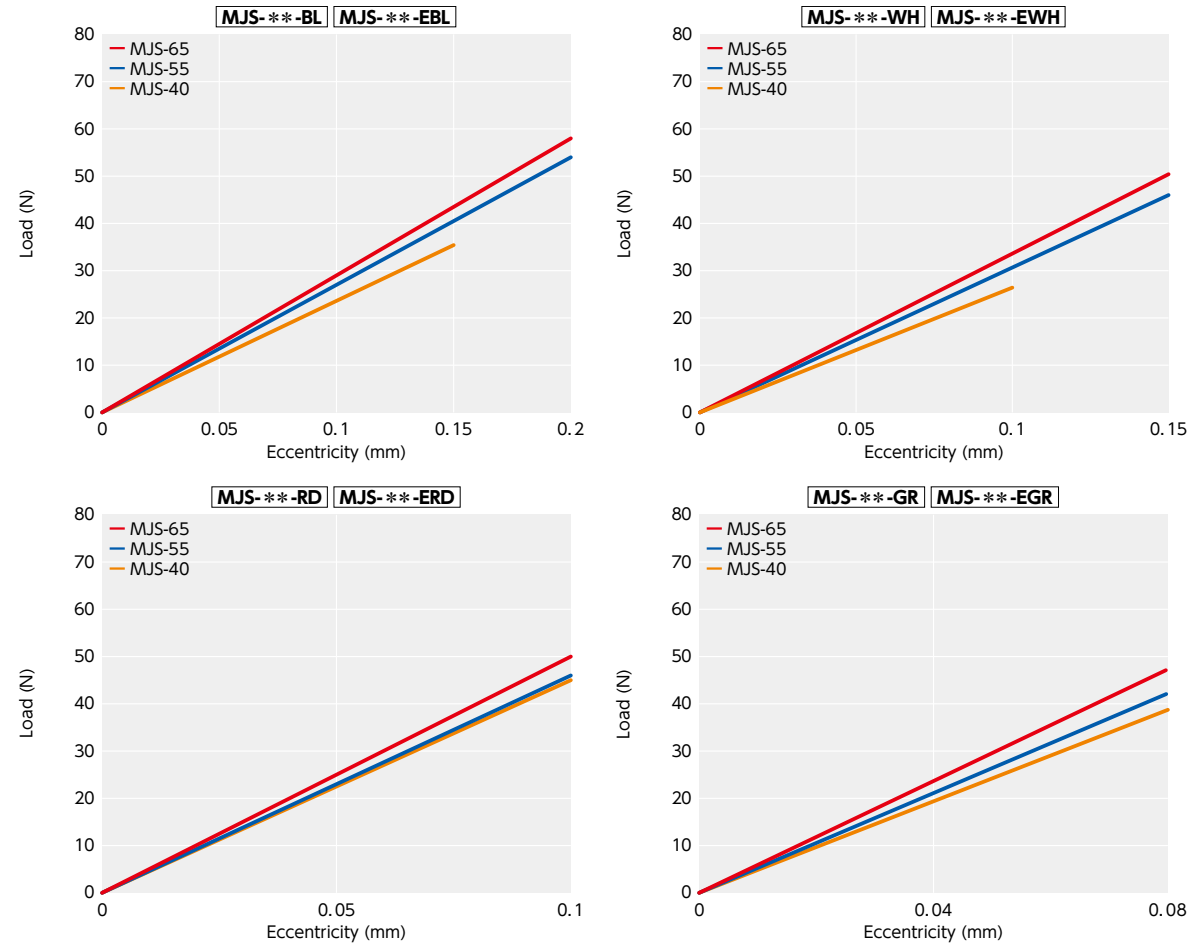
This unit allows you to easily assemble and partition the hub and sleeve. This allows you to reduce the time of assembling the unit and maintenance. It is possible to mount a hub on the shaft in advance and easily assemble the unit even in a location where the coupling is less-visible.

- Easy Fit Applications

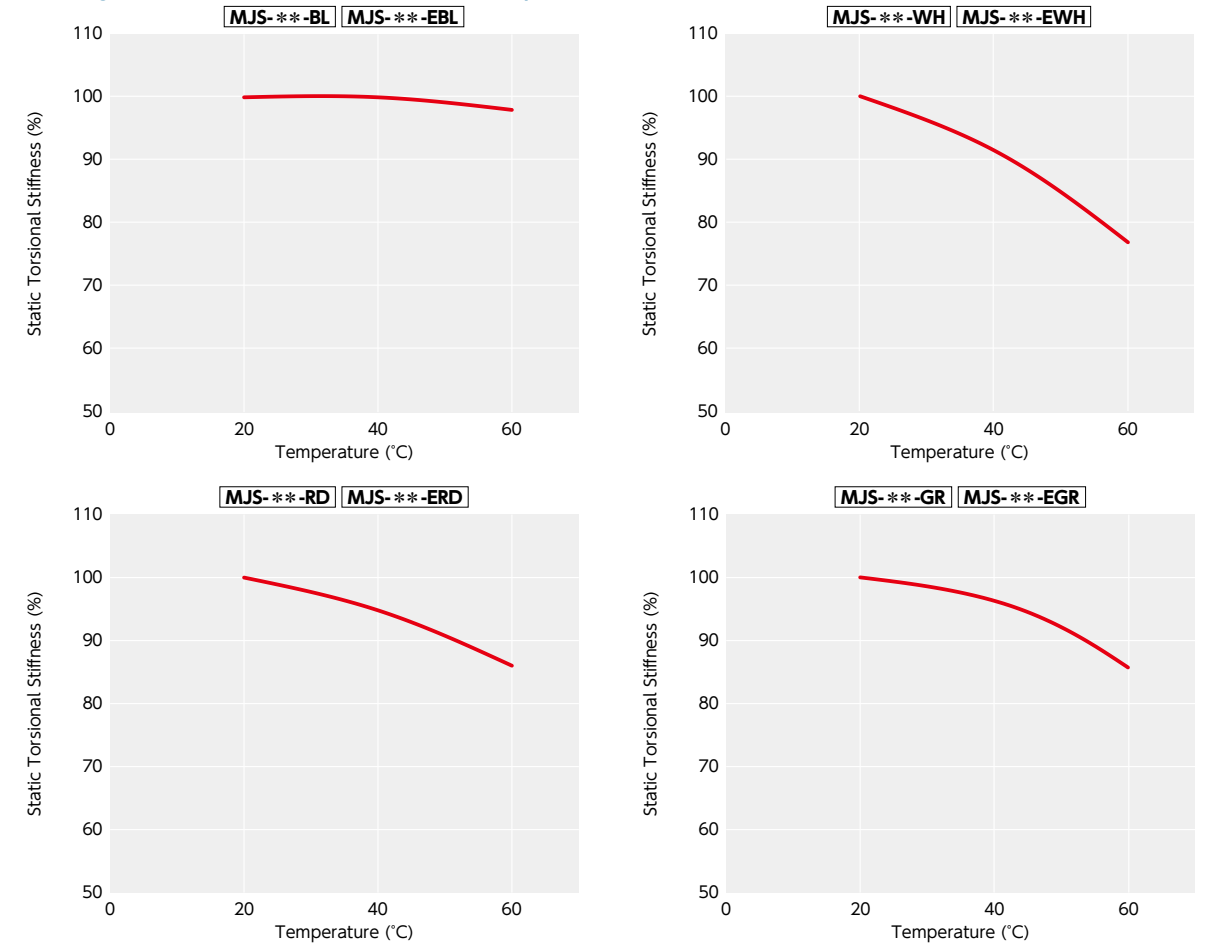
Transport device / Mixer / Ventilator / Pump / Dispenser

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**.

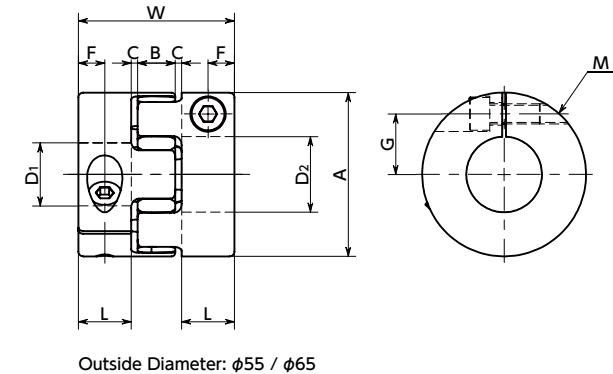
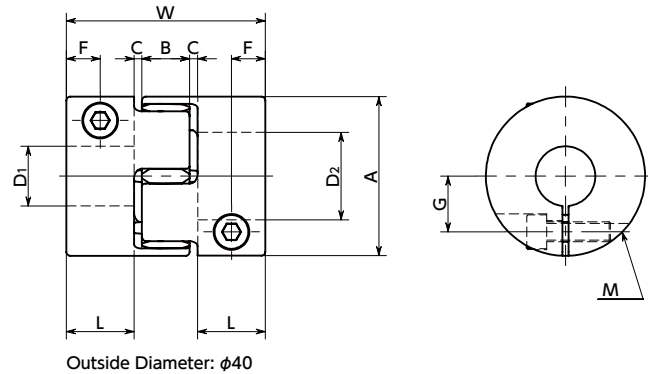
Unit: N · m

Part Number	Bore Diameter (mm)																			
	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	
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](#)
[WEB CAD Download](#)
[High torque](#)
[Vibration absorption](#)
[Electrical Insulation](#)



Dimensions

Unit : mm

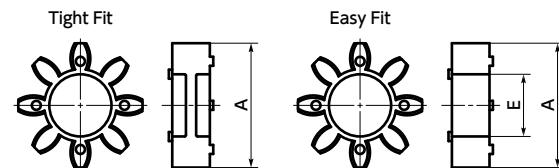
Part Number	Bore Diameter	A	L	W	B	C*1	Sleeve E	F	G	M	Screw Tightening Torque (N·m)
MJS-40CS	8 - 20	40	17	50	12	2	18	8.5	14	M5	8
	22 - 25								15.75	M4	3.5
MJS-55CS	10 - 28	55	18	54	14	2	27.5	9	20	M6	13
	30 - 32								21	M5	8
MJS-65CS	14 - 32	65	21	62	15	2.5	31	10.5	24	M8	28
	35 - 38								25	M6	13

*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	35	38
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	2.7×10^{-5}	380	0.15	1	$+1.2_0$	100	
MJS-55CS	BL	EBL	32	17	34		11000	1.1×10^{-4}	1400	0.2	1	$+1.4_0$	210	A80
MJS-65CS	BL	EBL	38	46	92		9000	2.4×10^{-4}	2800	0.2	1	$+1.5_0$	340	
MJS-40CS	WH	EWL	25	10	20	1.2	15000	2.7×10^{-5}	570	0.1	1	$+1.2_0$	100	
MJS-55CS	WH	EWL	32	35	70		11000	1.1×10^{-4}	1600	0.15	1	$+1.4_0$	210	A92
MJS-65CS	WH	EWL	38	95	190		9000	2.4×10^{-4}	3000	0.15	1	$+1.5_0$	340	
MJS-40CS	RD	ERD	25	17	34	1.2	15000	2.7×10^{-5}	1200	0.1	1	$+1.2_0$	100	
MJS-55CS	RD	ERD	32	60	120		11000	1.1×10^{-4}	2600	0.1	1	$+1.4_0$	210	A98
MJS-65CS	RD	ERD	38	160	320		9000	2.4×10^{-4}	4900	0.1	1	$+1.5_0$	340	
MJS-40CS	GR	EGR	25	21	42	1.2	15000	2.7×10^{-5}	3000	0.08	1	$+1.2_0$	100	
MJS-55CS	GR	EGR	32	75	150		11000	1.1×10^{-4}	9000	0.08	1	$+1.4_0$	210	D64
MJS-65CS	GR	EGR	38	200	400		9000	2.4×10^{-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

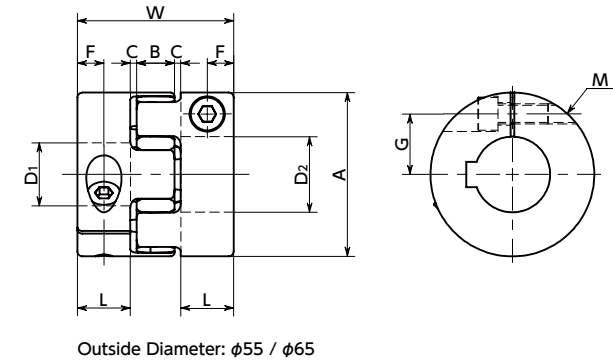
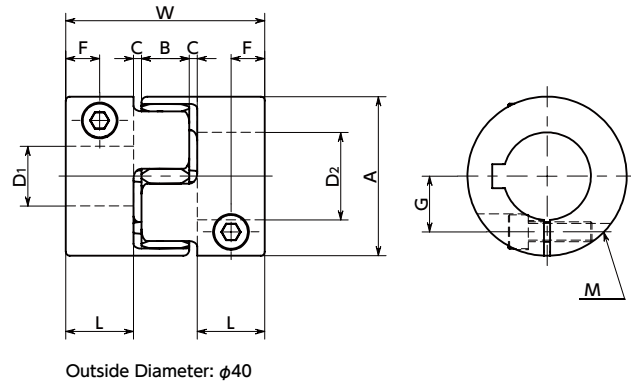
Ambient Temperature	Temperature Correction Factor
-20°C to 30°C	1.00
30°C to 40°C	0.80
40°C to 60°C	0.70

● 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](#)



Dimensions

Unit : mm

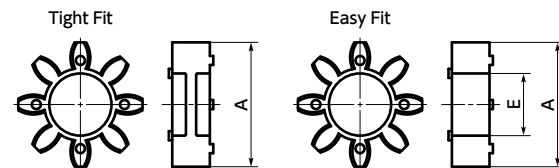
Part Number	Bore Diameter	A	L	W	B	C*1	Sleeve E	F	G	M	Screw Tightening Torque (N·m)
MJS-40CSK	10 - 20	40	17	50	12	2	18	8.5	14	M5	8
	22 - 25										15.75
MJS-55CSK	10 - 28	55	18	54	14	2	27.5	9	20	M6	13
	30 - 32										21
MJS-65CSK	14 - 32	65	21	62	15	2.5	31	10.5	24	M8	28
	35 - 38										25

*1: Use with C Dimension

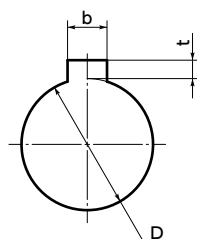
Part Number	Standard Bore Diameter D1 · D2																
	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38
MJS-40CSK	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
MJS-55CSK	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
MJS-65CSK				●	●	●	●	●	●	●	●	●	●	●	●	●	●

- 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 Nominal Dimension b x h
	b	t	Standard Dimension	Allowance	
10 · 11 · 12	4	±0.0150	1.8	+0.1 0	4x4
14 · 15 · 16	5	±0.0150	2.3	+0.1 0	5x5
18 · 19 · 20 · 22	6	±0.0150	2.8	+0.1 0	6x6
24 · 25 · 28 · 30	8	±0.0180	3.3	+0.2 0	8x7
32 · 35 · 38	10	±0.0180	3.3	+0.2 0	10x8

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												
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

