

MJB Flexible Coupling - Jaw - type (Bushing)

[WEB Selection Tool](#)
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[High torque](#)
[Vibration absorption](#)
[Electrical Insulation](#)

Structure

- Bushing type
- MJB** → P.154



- Sleeve
- Outside diameter $\phi 40$



Tight Fit



Easy Fit

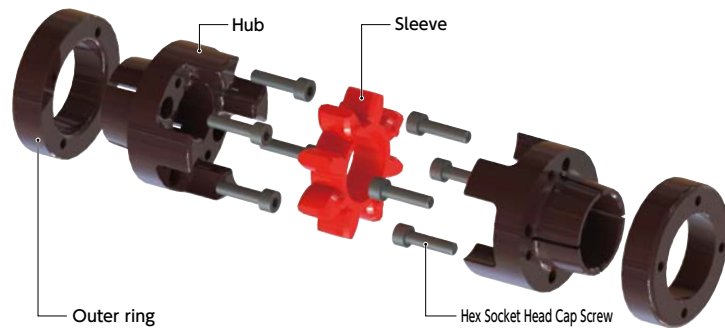
- Outside diameter $\phi 55 - \phi 95$



Tight Fit



Easy Fit



Material/Finish



	MJB
Hub	S45C Ferrosoferric oxide film
Outer ring	S45C Ferrosoferric oxide film
Sleeve	Polyurethane
Hex Socket Head Cap Screw	SCM435 Ferrosoferric oxide film

Part number specification

MJB-55-RD-10-10

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
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	BL	WH	RD	GR
Easy Fit	EBL	EWH	ERD	EGR

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



[Additional Keyway at Shaft Hole → P.788](#)
[Cleanroom Wash & Packaging → P.792](#)
[Change to Stainless Steel Screw → P.790](#)

Please feel free to contact us Not Available Not Available

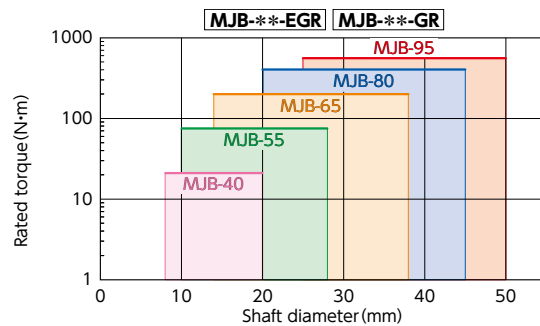
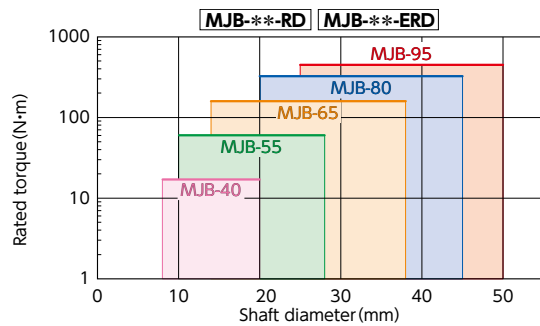
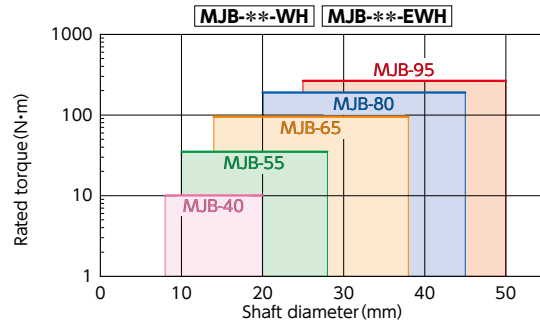
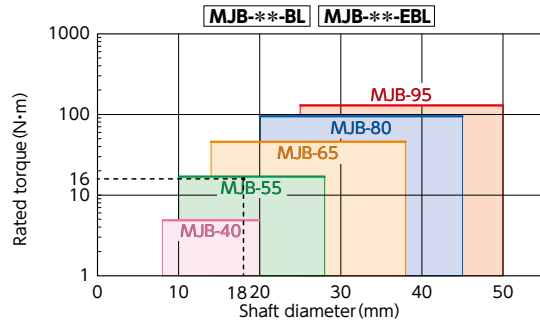
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Selection

● 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

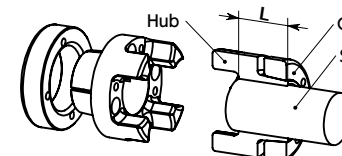
MJB--BL** **MJB-**-EBL** is **MJB-55-BL**

MJB-55-EBL

● Mounting / Removing

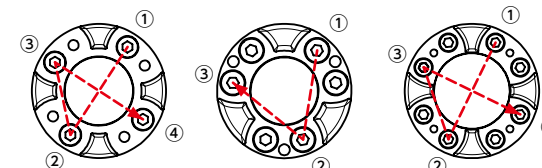
● Mounting

- 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.

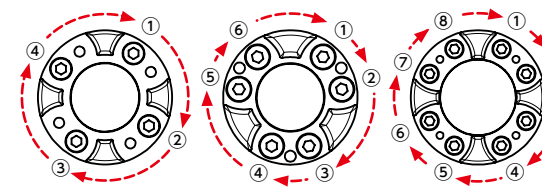
Fig.1 Tighten in diagonal sequence



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**

Fig.2 Tighten all bolts



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

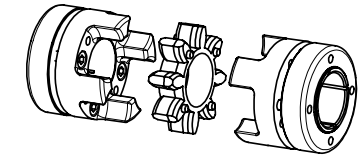
- ⑦ Repeat ⑥ until all hexagon socket head bolts get securely fixed.

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

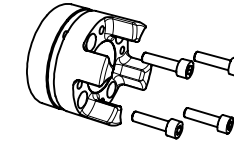
▲ Use a torque wrench to tighten bolts.

● Removal

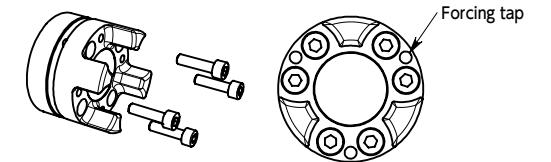
- ① Disassemble the hub and the sleeve.



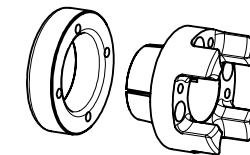
- ② Confirm that there is no torque or thrust load, then loosen all hexagon socket head bolts completely and remove them.



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



- ④ Repeating ③ makes the tightening torque will get very small. 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	4
MJB-55	30	M5	4	8.5
MJB-65	35	M5	8	8.5
MJB-80	45	M6	8	14
MJB-95	50	M8	8	35