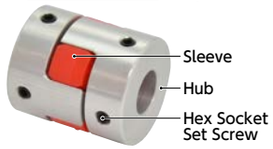
MJC Flexible Coupling - Jaw - Type

High torque　Vibration absorption　Electrical Insulation

Couplicon®

Structure

● Set Screw Type ➡ P.xxxx
MJC--**** Tight Fit
MJC--E**** Easy Fit



● Clamping Type ➡ P.xxxx
MJC-CS-**** Tight Fit
MJC-CS-E**** Easy Fit

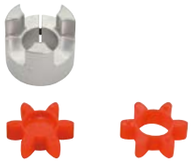
● Set Screw + Key Type ➡ P.xxxx
MJC-K-**** Tight Fit
MJC-K-E**** Easy Fit

● Clamping + Key Type ➡ P.xxxx
MJC-CSK-**** Tight Fit
MJC-CSK-E**** Easy Fit

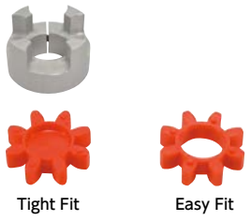
● Sleeve

Outside Diameter: ϕ14 - ϕ30

Outside Diameter: ϕ40



Outside Diameter: ϕ55 - ϕ95



● Material/Finish

RoHS

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

● Part number specification

MJC - 30CSK - 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.xxxx	Cleanroom Wash & Packaging ➡ P.xxxx	Change to Stainless Steel Screw ➡ P.xxxx
Available / Add'l charge	Available / Add'l charge	Available / Add'l charge

● 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℃ to 60℃	−20℃ to 60℃

◎: Excellent ○: Very good

- 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.

● Sleeve Type

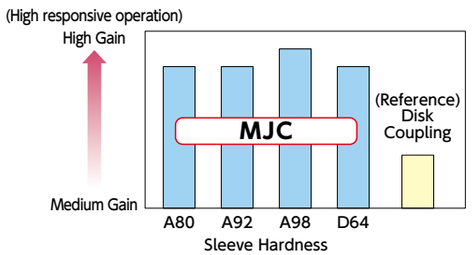
Sleeve Type	Sleeve Hardness (JIS)			
	A80	A92	A98	D64
Tight Fit	BL	WH	RD	GR
Easy Fit	EBL	EWH	ERD	EGR

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.

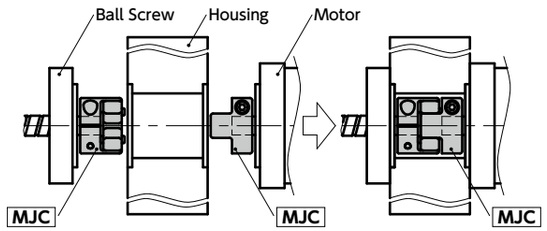


● Tight Fit Applications

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

● 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.



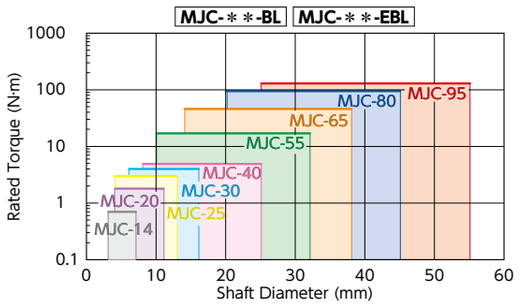
● Easy Fit Applications

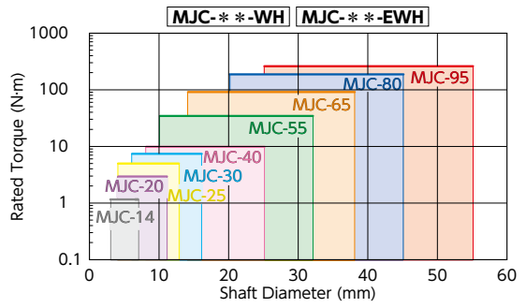
Transport device / Mixer / Ventilator / Pump / Dispenser

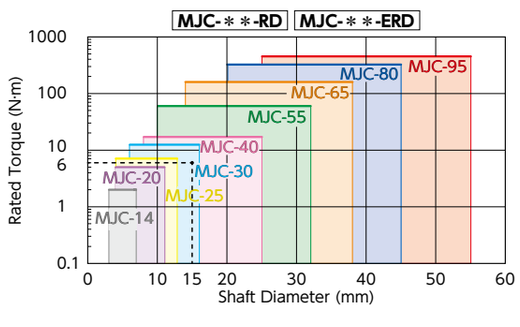
Selection

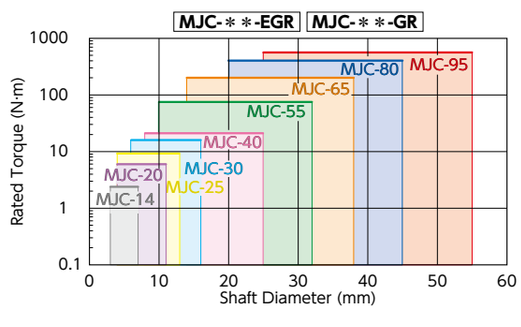
● Selection based on shaft diameter and rated torque

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 ϕ15 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 ϕ14 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**

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