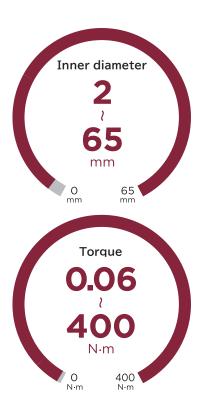
Oldham Couplings







MJ



Set screw

MJC



Clamp

MJX



Clamp

Features

Principle An Oldham coupling consists of 2 hubs and 1 intermediate

torque disc, classified as flexible coupling. It compensates misalignments by taking advantage of sliding convex and

concave configuration of hub and torque disc.

Misalignment Large lateral misalignment compensation

Mounting and Dismounting Easy to mount and dismount with the aid of press fit design

Hub-Shaft Connection Set screw

Fixes a shaft by digging sets crews into the shaft directly

Clamp

Fixes a shaft using elastic deformation of hub notch

by tightening cap screws

Flexibility Variety of torque transmission characteristics can be achieved by

various versions of torque discs

Consumable materials Torque discs

Fail-Safe Resin torque discs fracture to disengage troque transmission

when there is excessive overload

Backlash Zero backlash except torque discs SA, A, AJ

Electric isolation Electrically isolated

Magnetic properties No magnetic properties except screws

















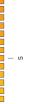






















































Oldham Couplings

MJ/MJC

Coupling size

6~57

Inner diameter $^{+0.03}_0$ 2 \sim 30 mm

Torque

0.06 ~ 37.5 N·m

MJ



MJC

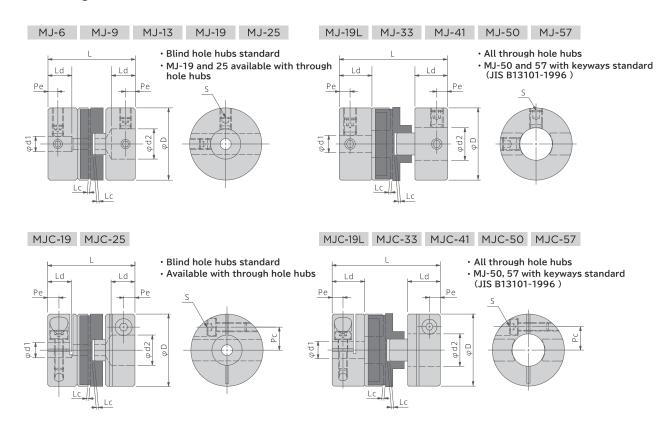


Clamp

Specifications

Туре	Size	Torque	Lateral misalignment	Angular misalignment	Endplay	Inertia	Spring constant	Mass
Type	3120	[N·m]	[mm]	[°]	[mm]	[kg·m²×10-8]	[N·m/rad]	[g]
	6	0.06	0.8	1	0.1	6	10	2.5
MJ	9	0.21	1.3	1	0.1	18	30	4.0
1/15	13	0.50	1.6	1	0.1	26	65	11.0
	19	1.70	2.4	1	0.2	67	115	12.0
MJC	19	1.70	2.4	1	0.2	67	115	12.0
MJ	19L	1.70	2.4	1	0.2	59	115	15.0
MJC	ISL	1.70	2.4	1	0.2	59	115	14.0
MJ	25	4.00	3.0	1	0.2	252	205	31.0
MJC	25	4.00	3.0	1	0.2	252	205	31.0
MJ	33	10.0	3.8	1	0.3	1,133	166	79.0
MJC	33	10.0	3.8	1	0.3	1,210	166	75.0
MJ	41	17.0	5.0	1	0.3	3,177	185	127
MJC	41	17.0	5.0	1	0.3	3,273	185	122
MJ	50	30.0	6.0	1	0.4	7,550	570	209
MJC	30	30.0	6.0	1	0.4	7,963	570	197
MJ	E 7	37.5	7.0	1	0.4	12,410	575	347
MJC	57	37.5	7.0	1	0.4	18,365	575	340

Drawings



Dimensions

Туре	Sizo	Inner diameter	Overall length	Outer diameter	Clearance	Max. mounting length	Min. mounting length	Distance	Distance	Screw	Tightening Torque
Туре	3126	d1, d2[mm]	L[mm]	D[mm]	Lc[mm]	Ld[mm]	Ld[mm]	Pe[mm]	Pc[mm]	S[mm]	[N·m]
	6	2,3	12.8	6.4	0.05	3.8	_	2.3	_	M3	0.72
MJ	9	3~5	12.8	9.5	0.05	3.8	_	2.3	_	M3	0.72
1113	13	3~6	16.0	12.7	0.05	4.3	_	2.3	_	M3	0.72
	19	3~8	22.2	19.1	0.10	6.3	_	2.6	_	M3	0.72
MJC	19	3~8	22.2	19.1	0.10	6.3	_	3.0	6.1	M2.5	1.2
MJ	19L	3~8	26.2	19.1	0.10	9.4	7.2	3.6	_	M4	2.0
MJC	ISL	3~8	26.2	19.1	0.10	9.4	7.2	2.9	6.1	M2.5	1.2
MJ	25	6~12	28.7	25.4	0.10	8.6	7.0	3.5	_	M4	2.0
MJC	25	6~12	28.7	25.4	0.10	8.6	8.2	3.6	8.1	М3	2.1
MJ	33	8~15	48.3	33.3	0.15	15.0	10.0	5.0	_	M6	6.5
MJC	33	8~15	48.3	33.3	0.15	15.0	13.0	5.0	10.8	M4	4.8
MJ	41	8~20	51.5	41.3	0.15	18.1	11.9	5.8	_	M6	6.5
MJC	41	8~20	51.5	41.3	0.15	18.1	15.5	5.8	14.0	M5	9.6
MJ	50	10~25	60.4	50.0	0.20	20.8	14.0	7.0	_	M6	6.5
MJC	30	10~25 Keyways	60.4	50.0	0.20	20.8	18.0	7.0	17.3	M5	9.6
MJ	57	12~30 Standard	78.9	57.0	0.20	28.8	18.4	8.0	_	M6	6.5
MJC	3/	12~30	78.9	57.0	0.20	28.8	23.3	8.0	21.0	М6	16.3

^{*} Overall length includes clearance

Materials

Size	H	Torque disc		
0.20	Materials Surface treatment			
6, 9, 13	6, 9, 13 Free-cutting brass			
19, 19L, 25		conversion treatment	Polyacetal	
33, 41	Aluminum alloy	Anodization	Polyacetal	
50, 57		Electroless nickel plating		

[※] Size 50 and 57 available without keyways



























Oldham Couplings

MJX

Coupling size

70~118

Inner diameter G6 14~65 mm

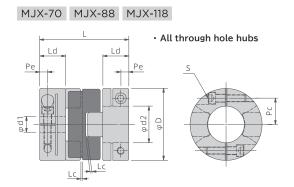
Torque

117~400_{N·m}

MJX type



Drawings



Specifications

Туре	Ci-o	Inner diameter Torque		Lateral Angular		Endplay Inertia		Spring constant	Mass
Type	Size	d1, d2[mm]	[N·m]	[mm]	[°]	[mm]	[kg·m²×10 ⁻⁸]	[N·m/rad]	[g]
	70	14~37	117	8	1	0.8	42,717	2,265	686
MIV	70	38~40	117	8	1	0.8	41,410	2,265	650
MJX	88	15~50	210	10	1	0.8	124,500	2,775	1,250
	118	26~65	400	10	1	2.0	574,350	6,837	2,620

Dimensions

Туре	Sizo	Inner diameter	Overall length	Outer diameter	Clearance	Max. mounting length	Min. mounting length	Distance	Distance	Screw	Tightening Torque
Type	3126	d1, d2[mm]	L[mm]	D[mm]	Lc[mm]	Ld[mm]	Ld[mm]	Pe[mm]	Pc[mm]	S[mm]	[N·m]
	70	14~37	84.4	70.0	0.4	28.0	25.3	10.00	25.0	M8	39.4
MIV	70	38~40	84.4	70.0	0.4	28.0	25.3	9.75	26.0	M8	39.4
MJX	88	15~50	101.0	88.0	0.4	35.0	31.8	12.00	32.5	М8	39.4
	118	26~65	142.0	118.0	1.0	42.5	35.8	13.00	43.0	M12	134

[※] Overall length includes clearance

Materials

C:	Н	Torque disc	
Size	Materials	Surface treatment	Material
70, 88, 118	Aluminum alloy	Electroless nickel plating	Polyacetal

MJ series

Torque Discs for Oldham Couplings



Standard



Polyacetal resin **Blind holes**

Standard Size:6~118 Zero backlash TB



Polyacetal resin Through holes

Easy to dismount Size:19~118 Zero backlash

SA



Nylon resin

Vibration damping Size:6~41 With backlash

PEEK



Poly Ether Ether Ketone

Heat resistant Size:6~88(118) Zero backlash



Aluminum alloy Nylon resin coating

Rigid Size:19~88 With backlash



Aluminum alloy Electroless nickel plating, Lubricant coating ***3,4,5**

Rigid, gall resistant Size:19~118 With backlash

- **%1: MJ-118-T-PEEK is make to order.**
- ※2: Apply MoS2(molybdenum(IV) sulfide) contained grease to toque disc A to prevent galling.
- *3: For rigidity, select torque disc A for intermittent operation and AJ for continuous operation.
- *4: Torque disc A and AJ is recommended for vertical installation. Use thrust bearings to support the load.
- *5: Total lengh of torque disc AJ is 1mm longer than standard product due to the thickness of nylon coating.