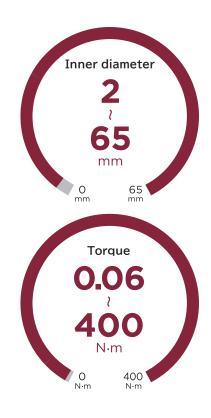
Oldham Couplings









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

ANGULAR

0

ENDPLAY

0

STIFFNESS

0

0

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BACKLASH KEYWAY PRESS FIT

LATERAL

0

Oldham Couplings

Coupling size $6 \sim 57$

Inner diameter ${}^{+0.03}_{0}$

Torque 0.06 ~ 37.5 N·m



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CUSTOM

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MJC



Specifications

Туре	Size	Torque	Lateral misalignment	Angular misalignment	Endplay	Inertia	Spring constant	Mass
Type	5120	[N·m]	[mm]	[°]	[mm]	[kg·m ² ×10 ⁻⁸]	[N·m/rad]	[g]
	6	0.06	0.8	1	0.1	6	10	2.5
МJ	9	0.21	1.3	1	0.1	18	30	4.0
115	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	50	30.0	6.0	1	0.4	7,963	570	197
MJ	57	37.5	7.0	1	0.4	12,410	575	347
MJC	57	37.5	7.0	1	0.4	18,365	575	340

T O R Q U E [N·m]

- 400

200

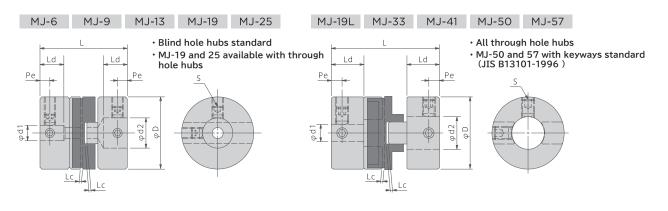
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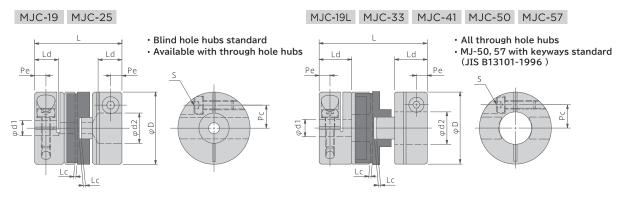
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Drawings





Dimensions

Туре	Size	Inner dia	ameter	Overall length	Outer diameter	Clearance	Max. mounting length	Min. mounting length	Distance	Distance	Screw	Tightening Torque
туре	3120	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	—	M 3	0.72
MJ	9	3~	5	12.8	9.5	0.05	3.8	—	2.3	—	M 3	0.72
115	13	3~	6	16.0	12.7	0.05	4.3	—	2.3	—	M 3	0.72
	19	3~	8	22.2	19.1	0.10	6.3	—	2.6	—	M 3	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	M 3	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	M 5	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	57	12~30		78.9	57.0	0.20	28.8	23.3	8.0	21.0	M6	16.3

* Overall length includes clearance

* Size 50 and 57 available without keyways

Materials

Size	Н	ub	Torque disc
		Surface treatment	
6, 9, 13	Free-cutting brass	Non-chromium chemical	
19, 19L, 25		conversion treatment	Polyacetal
33, 41	Aluminum alloy	Anodization	Polyacelai
50, 57		Electroless nickel plating	

ANGULAR

0

LATERAL

0

0

T O R Q U E

[N·m]

400

200

100

- 2

- 2

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- 0

Oldham Couplings

ENDPLAY

0

STIFFNES

0

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BACKLASH

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KEYWAY

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QTA

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PRESS FIT

MJX

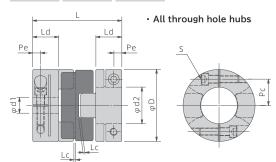
Coupling size $70 \sim 118$

Inner diameter G6

Torque 117~400_{N·m}

Drawings

MJX-70 MJX-88 MJX-118



Specifications

Туре	Size	Inner diameter	Torque	Lateral	Angular	Endplay	Inertia	Spring constant	Mass
туре	Size	d1, d2[mm]	[N·m]	[mm]	[°]	[mm]	[kg·m ² ×10 ⁻⁸]	[N·m/rad]	[g]
	70	14~37	117	8	1	0.8	42,717	2,265	686
MIN	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

Type	Size	Inner diameter	Overall length	Outer diameter	Clearance	Max. mounting length	Min. mounting length	Distance	Distance	Screw	Tightening Torque
Type	SIZE	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
	/0	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	M8	39.4
	118	26~65	142.0	118.0	1.0	42.5	35.8	13.00	43.0	M12	134

Materials

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

MJX type

DESIGN

Q.

CUSTON



MJ series

Torque Discs for Oldham Couplings





Polyacetal resin Blind holes

Size:6~118
Zero backlash



Aluminum alloy Lubricant plating

Rigid Size:19~88 With backlash



Polyacetal resin Through holes

Easy to dismount Size:19~118 Zero backlash



Aluminum alloy Nylon 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.

SA



Nylon resin

Vibration damping Size:6~41 With backlash

PEEK



Poly Ether Ether Ketone

Heat resistant Size:6~88(11쓍 Zero backlash