

Friction clutch

MSC-2/6

Torque
0.03 ~ 1.3 N·m

Size
MSC-2
(0.03-0.5 N·m)

MSC-6
(0.08-1.3 N·m)

Inner diameter
6 ~ 12 mm

Set screw Clutch side

MSC-A

1 shaft

Mounted with pulley/Sprocket



MSC-B

2 shafts

Set screw mounted with rigid adapter



MSC-C

2 shafts

Set screw mounted with oldham coupling



MSC-D

2 shafts

Clamp mounted with oldham coupling



Clamp Clutch side

MSC-A-CL

1 shaft

Mounted with pulley/sprocket



MSC-B-CL

2 shafts

Set screw mounted with rigid adapter



MSC-C-CL

2 shafts

Set screw mounted with oldham coupling



MSC-D-CL

2 shafts

Clamp mounted with oldham coupling



Specifications

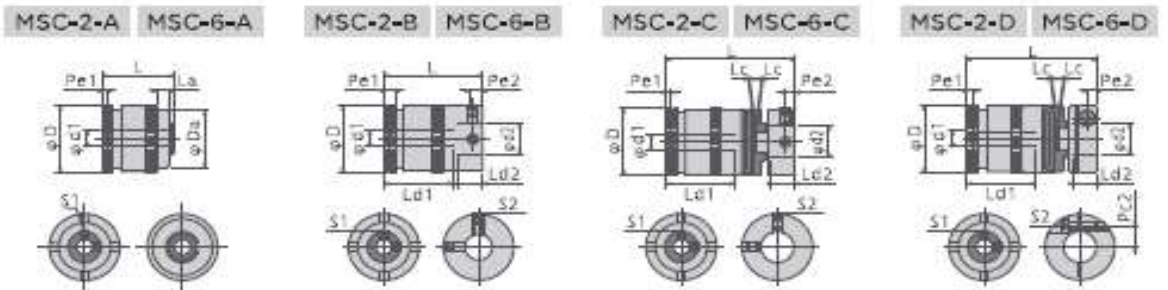
Type				Max. setting torque	Min. setting torque	Power dissipation at 20°C	Lateral	Angular	Endplay	Inertia moment	Mass	
				[N·m]	[N·m]	[W] (20°C)	[mm]	[°]	[mm]	[kg·m²×10⁻⁴]	[g]	
MSC	2	A	—	0.5	0.03	7.0	—	—	—	242	37	
			CL	0.5	0.03	7.0	—	—	—	317	47	
			—	1.3	0.08	8.6	—	—	—	312	48	
			CL	1.3	0.08	8.6	—	—	—	381	58	
	6	B	—	0.5	0.03	7.0	—	—	—	382	50	
			CL	0.5	0.03	7.0	—	—	—	441	60	
			—	1.3	0.08	8.6	—	—	—	451	60	
			CL	1.3	0.08	8.6	—	—	—	530	71	
	2	C	—	0.5	0.03	7.0	3.0	1	0.2	425	58	
			CL	0.5	0.03	7.0	3.0	1	0.2	416	58	
			—	0.5	0.03	7.0	3.0	1	0.2	511	69	
			CL	0.5	0.03	7.0	3.0	1	0.2	508	68	
		6	C	—	1.3	0.08	8.6	3.0	1	0.2	516	69
				CL	1.3	0.08	8.6	3.0	1	0.2	529	68
			D	—	1.3	0.08	8.6	3.0	1	0.2	590	80
				CL	1.3	0.08	8.6	3.0	1	0.2	617	79

Materials

All type	Housing	Hollow shaft	Adjuster cap	Rigid adapter	CD adapter
	Al Alloy	Steel	Al Alloy	Al Alloy	Al Alloy

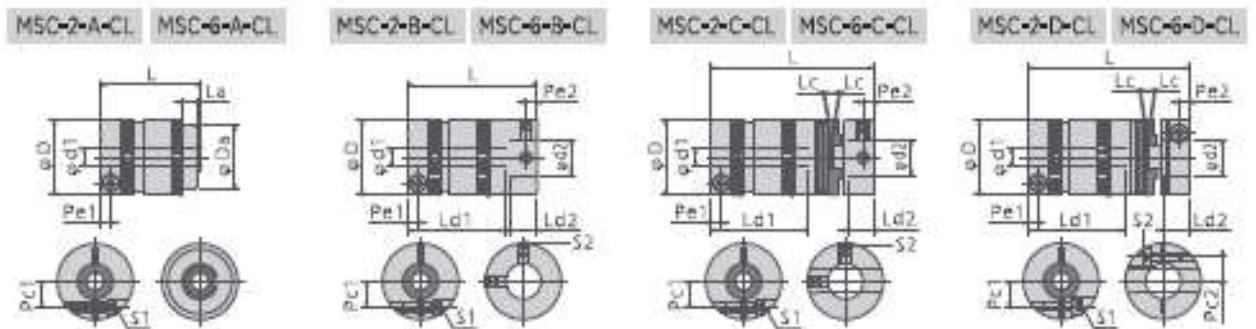
For C,D types, please refer to the outer diameter of oldham coupling on page 25

Dimensions and drawings



Type			Shaft bore diameter	Shaft bore diameter	Overall length	Outer diameter	Length	Outer diameter	Clearance	mounting length	mounting length
			d1 [mm]	d2 [mm]	L [mm]	D [mm]	La [mm]	Da [mm]	Lc [mm]	Ld1 [mm]	Ld2 [mm]
MSC	2	A	6, 8	d2=d1	26.4	25.8	5.0	21.96	—	Penetrable	
	6	A	6, 8	d2=d1	32.4	25.8	5.0	21.96	—	Penetrable	
	2	B	6, 8	6~12	36.0	25.8	—	—	—	25.0	9.0
	6	B	6, 8	6~12	42.5	25.8	—	—	—	31.0	9.0
	2	C	6, 8	6~12	46.5	25.8	—	—	0.10	25.0	8.6
	6	C	6, 8	6~12	53.4	25.8	—	—	0.10	31.0	8.6
		D	6, 8	6~12	53.4	25.8	—	—	0.10	31.0	8.6

Type			Screw position	Set screw	Torque	Screw position	Screw position	Set screw	Cap screw	Torque
			Pe1 [mm]	S1 [mm]	[N·m]	Pe2 [mm]	Pc2 [mm]	S2 [mm]	S2 [mm]	[N·m]
MSC	2	A	2.0	M3	0.72	—	—	—	—	—
	6	A	2.0	M3	0.72	—	—	—	—	—
	2	B	2.0	M3	0.72	3.7	—	M4	—	2.0
	6	B	2.0	M3	0.72	3.7	—	M4	—	2.0
	2	C	2.0	M3	0.72	3.5	—	M4	—	2.0
	6	C	2.0	M3	0.72	3.5	8.1	—	M3	2.1
		D	2.0	M3	0.72	3.6	8.1	—	M3	2.1



Type			Shaft bore diameter	Shaft bore diameter	Overall length	Outer diameter	Length	Outer diameter	Clearance	mounting length	mounting length
			d1 [mm]	d2 [mm]	L [mm]	D [mm]	La [mm]	Da [mm]	Lc [mm]	Ld1 [mm]	Ld2 [mm]
MSC	2	A	6, 8	d2=d1	34.4	25.8	5.0	21.96	—	Penetrable	
	6	A	6, 8	d2=d1	40.7	25.8	5.0	21.96	—	Penetrable	
	2	B	6, 8	6~12	44.0	25.8	—	—	—	33.0	9.0
	6	B	6, 8	6~12	50.3	25.8	—	—	—	39.0	9.0
	2	C	6, 8	6~12	54.5	25.8	—	—	0.10	33.0	8.6
	6	C	6, 8	6~12	60.8	25.8	—	—	0.10	39.0	8.6
		D	6, 8	6~12	60.8	25.8	—	—	0.10	39.0	8.6

Type			Screw position	Screw position	Cap screw	Torque	Screw position	Screw position	Set screw	Cap screw	Torque
			Pe1 [mm]	Pc1 [mm]	S1 [mm]	[N·m]	Pe2 [mm]	Pc2 [mm]	S2 [mm]	S2 [mm]	[N·m]
MSC	2	A	3.5	8.7	M3	2.1	—	—	—	—	—
	6	A	3.5	8.7	M3	2.1	—	—	—	—	—
	2	B	3.5	8.7	M3	2.1	3.7	—	M4	—	2.0
	6	B	3.5	8.7	M3	2.1	3.7	—	M4	—	2.0
	2	C	3.5	8.7	M3	2.1	3.5	—	M4	—	2.0
	6	C	3.5	8.7	M3	2.1	3.6	8.1	—	M3	2.1
		D	3.5	8.7	M3	2.1	3.5	—	M4	—	2.0
		D	3.5	8.7	M3	2.1	3.6	8.1	—	M3	2.1

※Total length values including clearance