


Couplings (Oldham)


Large Shaft Dia. Set Screw / Large Shaft Dia. Clamping / Spacers

Features: Large tolerance for lateral and angular misalignments, available for up to Ø38 max. shafts.

Couplings – Oldham, Large Shaft Dia. Set Screw

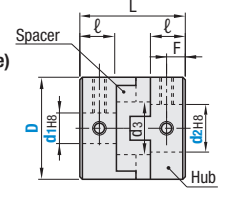


Couplings – Oldham, Large Shaft Dia. Clamping

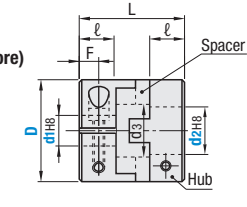


RoHS10

Set Screw MFJ (Standard Bore)

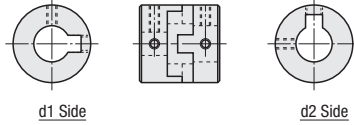


Clamping MFJC (Standard Bore)

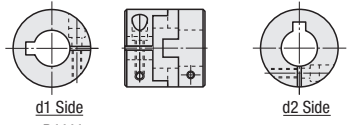


① Operating Temperature -20°C-80°C
 ② Tolerance values for d1, d2, are applied before slit is machined.
 ③ The lateral, angular, and axial misalignment values shown are for each occurring individually. When more than one misalignments are occurring simultaneously, the allowable maximum value of each will be reduced by 1/2.
 ④ For the selection criteria and alignment procedures, see P.1091, 1093.

MFJWK (Keywayed Bore d1, d2)



MFJCLK (Keywayed Bore d1)
MFJCRK (Keywayed Bore d2)
MFJCWK (Keywayed Bore d1, d2)



① For keywayed dimensions, see P.1111.

Shapes	Standard Bore	Keywayed Bore				Material		Accessories
		d1 (One Side)	d2 (One Side)	d1, d2 (Both Sides)	Hub	Spacers		
Set Screw	MFJ	-	-	MFJWK	Aluminum Alloy	Polycetal	Set Screw	
Clamping	MFJC	MFJCLK	MFJCRK	MFJCWK			Hex Socket Head Cap Screw	

Set Screw Type

Part Number	Type	D	d1, d2 (d1=d2)								d3	L	ℓ	F	M	Set Screw		
			14	15	16	18	20	22	25	26						28	30	35
MFJ	44	14	15	16	18	20	22					22.5	46	15	7.5	M6	7.0	
MFJWK	55				18	20	22	25	26			28	57	19	9.5	M8	15.0	
	70					22	25	28	30	35	38	39	77	25	12.5	M10	30.0	

Clamping Type

Part Number	Type	D	d1, d2 (d1=d2)								d3	L	ℓ	F	A	Clamp Screw		
			14	15	16	18	20	22	25	28						30	35 <th>M</th> <th>Tightening Torque (N-m)</th>	M
MFJC	44	14	15	16	18	20						22.5	46	15	7.5	14.5	M5	*8.4
MFJCLK	55				18	20	22	25				28	57	19	9.5	17	M6	*14.4
MFJCRK	70					22	25	28	30	35		39	77	25	12.5	24	M8	*30.0

① *When the shaft diameter is small, clamp screw tightening torque should be higher than the prescribed value to prevent shaft slipping. The above tightening torque is for reference.

Part Number	Type	D	Allow. Torque (N-m)		Angular Misalign. (°)	Lateral Misalign. (mm)	Static Torsional Spring Constant (N-m/rad)	Max Rotational Speed (r/min)	Moment of Inertia (Kg-m ²)	Allow. Axial Misalign. (mm)	Mass (g)
			Set Screw	Clamping							
Set Screw MFJ	44	14	30	26	2	1	1500	12000	4 x 10 ⁻⁵	±0.5	140
Clamping MFJC	55	18	45	40		1.5	2800	10000	11 x 10 ⁻⁵	±0.6	260
MFJWK	70	22	80	72		2	4800	8000	40 x 10 ⁻⁵	±0.8	450

① The allowable torque varies depending on temperature. P.1091

Part Number Example MFJ44 - Shaft Bore Dia. d1 - 15 - Shaft Bore Dia. d2 - 20

Part Number Alterations MFJ55 - Shaft Bore Dia. d1 (LDC) - LDC19.5 - Shaft Bore Dia. d2 (RDC) - RDC21 - (KLH, KRL, LK, RK)

MFJ55 - LDC19.5 - RDC21 - KLH8
 MFJ55 - LDC19.5 - RDC21 - KLH8

Alterations	Shaft Bore Dia.		Keyway Width (b) is changed as table below.				Keyway	
	LDC (Left Shaft)	RDC (Right Shaft)	Ordering Code: KLH8 KRH8	Shaft Bore Dia. d1, d2	Dim.	Tol.	Dim.	Tol.
Spec.	LDC19.5	RDC21	KLH8	22	8	±0.0180	3.3	+0.2
			KRH8	30	10	±0.0180	3.3	0

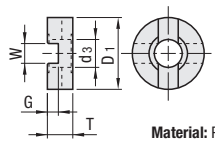
① Values in () are for Clamping Type

② Cannot be combined with shaft bore changes (LDC, RDC) alterations
 ③ Applicable to Keywayed Bores only

④ For keyway dimensions, see P.1111.

Spacers (for MFJ_ , MFJC_)

MFJS



Material: Polycetal

Part Number	Type	No.	D1	T	d3	W	G	Applicable Couplings	
								MFJ_	MFJC_
MFJS	44	44.3	14	22.5	10.4	9	9	MFJ_44	MFJC_44
								MFJ_55	MFJC_55
	55	55	17	28	13	11	11	MFJ_70	MFJC_70
								MFJ_70	MFJC_70


Part Number Example MFJS70

Couplings (High Rigidity Oldham)


Set Screw, Large Shaft Diameter / High Rigidity Oldham, Large Shaft Diameter, Clamping

Features: Spacer is made of aluminum bronze, allowable torque is twice that as resin type.

Couplings – High Rigidity Oldham, Large Shaft Diameter, Set Screw

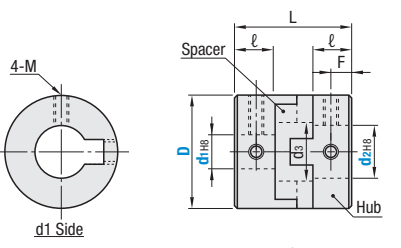


Couplings – High Rigidity Oldham, Large Shaft Diameter, Clamping

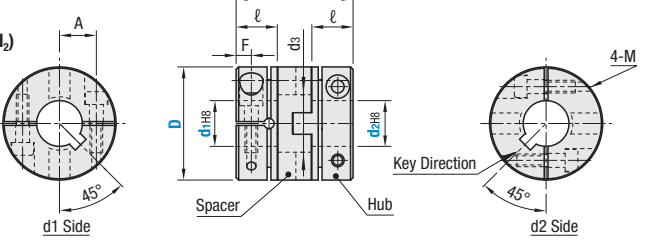


RoHS10

Set Screw MFJGWK (Keywayed Bore d1, d2)



Clamping MFJCGWK (Keywayed Bore d1, d2)



① Operating Temperature -20-80°C
 ② Tolerance values for d1, d2, are applied before slit is machined.
 ③ The lateral, angular, and axial misalignment values shown are for each occurring individually. When more than one misalignments are occurring simultaneously, the allowable maximum value of each will be reduced by 1/2.
 ④ For the selection criteria and alignment procedures, see P.1091, 1093.
 ⑤ When lateral/angular misalignments and the rotational speed are over 50% of the allowable values, apply grease with molybdenum disulfide periodically.

Shapes	Keywayed Bore d1, d2 (Both Sides)	Material		Accessories
		Hub	Spacers	
Set Screw	MFJGWK	Stainless Steel	Aluminum Bronze	Set Screw
Clamping	MFJCGWK			Hex Socket Head Cap Screw

Set Screw Type

Part Number	Type	D	d1, d2 (d1=d2)								d3	L	ℓ	F	M	Set Screw	
			15	16	18	20	22	24	25	28						30	35 <th>Tightening Torque (N-m)</th> <th></th>
MFJGWK	45	15	16	18	20							22.5	43.6	15	7.5	M5	3.6
	55				20	22	24	25				29	49.4	17	8.5	M6	6.0
	70					25	28	30	35			36	57.0	20	10	M8	14.0

Clamping Type

Part Number	Type	D	d1, d2 (d1=d2)								d3	L	ℓ	F	A	Clamp Screw		
			15	16	18	20	22	24	25 <th>M</th> <th>Tightening Torque (N-m)</th>	M						Tightening Torque (N-m)		
MFJCGWK	45	15	16	18	20							22.5	46	16.2	6	14.5	M5	*10
	55				20	22	24	25				29	57	20.8	7	18.5	M6	*15

① *When the shaft diameter is small, clamp screw tightening torque should be higher than the prescribed value to prevent shaft slipping. The above tightening torque is for reference.

Set Screw Type

Part Number	Type	D	Allow. Torque (N-m)	Angular Misalign. (°)	Lateral Misalign. (mm)	Static Torsional Spring Constant (N-m/rad)	Max Rotational Speed (r/min)	Moment of Inertia (Kg-m ²)	Allow. Axial Misalign. (mm)	Mass (g)
	55	90	1.2	100000	3.3 x 10 ⁻⁴	±0.5	700			
	70	160	1.6	180000	11 x 10 ⁻⁴	±0.6	1300			

Part Number Example MFJGWK45 - Shaft Bore Dia. d1 - 15 - Shaft Bore Dia. d2 - 20

Part Number Alterations MFJGWK45 - LDC19 - RDC19 - (KLH, KRH)

MFJGWK45 - LDC19 - RDC19 - KLH8
 MFJGWK45 - LDC19 - RDC19 - KLH8

Alterations	Shaft Bore Dia.		Keyway Width (b) is changed as table below.					
	LDC (Left Shaft)	RDC (Right Shaft)	Ordering Code: KLH8 KRH8	Shaft Bore Dia. d1, d2	Dim.	Tol.	Dim.	Tol.
Spec.	LDC19	RDC21	KLH8	22	8	±0.0180	3.3	+0.2
			KRH8	30	10	±0.0180	3.3	0

① Cannot be combined with Shaft Bore Change (LDC, RDC) alteration.

Keyway Dimension

Shaft Bore Dia. d1, d2	b		t		Key Nom. Dim. b x h
	Dim.	Tol.	Dim.	Tol.	
14-17	5	±0.0150	2.3	+0.1	5 x 5
17.1-22	6	±0.0150	2.8	0	6 x 6
22.1-30	8	±0.0180	3.3	+0.2	8 x 7
30.1-38	10	±0.0180	3.3	0	10 x 8