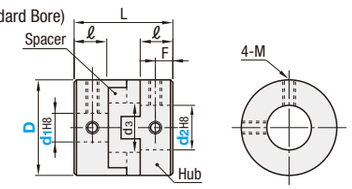
Oldham Couplings

Large Shaft Diameter, Set Screw / Clamping / Spacers

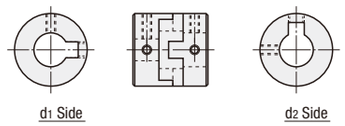
Feature: Large tolerance for lateral and angular misalignments, available up to Ø38 max. shafts.

Set Screw

MFJ (Standard Bore)

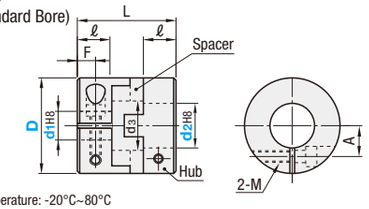


MFJWK (Keywayed Bore d_1, d_2)



Clamping

MFJC (Standard Bore)



MFJCLK (Keywayed Bore d_1)
MFJCRK (Keywayed Bore d_2)
MFJCWK (Keywayed Bore d_1, d_2)

- Operating Temperature: -20°C~80°C
- d_1, d_2 tolerance are values before slit machining.
- 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 to 1/2.
- For the selection criteria and alignment procedures P.941
- For Keyway Dimensions Please see P.960

Shape	Standard Bore	Keywayed Bore d_1 (One Side)	Keywayed Bore d_2 (One Side)	Keywayed Bore d_1, d_2 (Both Sides)	Material Hub	Material Spacer	Accessories
Set Screw	MFJ	-	-	MFJWK	Aluminum Alloy	Polyacetal	Set Screw (Hex Socket Head Cap Screw)
Clamping	MFJC	MFJCLK	MFJCRK	MFJCWK			

Set Screw

Part Number Type	D	d_1, d_2 ($d_1 \le d_2$)	d_3	L	ℓ	F	Set Screw M	Set Screw Tightening Torque (N·m)	Unit Price MFJ	Unit Price MFJWK
MFJ MFJWK	44	14 15 16 18 20 22	22.5	46	15	7.5	M 6	7.0		
	55	18 20 22 25 26	28	57	19	9.5	M 8	15.0		
	70	22 25 28 30 35 38	39	77	25	12.5	M10	30.0		

Clamping

Part Number Type	D	d_1, d_2 ($d_1 \le d_2$)	d_3	L	ℓ	F	A	Clamp Screw M	Clamp Screw Tightening Torque (N·m)	Unit Price MFJC	Unit Price MFJCLK MFJCRK	Unit Price MFJCWK
MFJC MFJCLK MFJCRK MFJCWK	44	14 15 16 18 20	22.5	46	15	7.5	14.5	M5	*8.4			
	55	18 20 22 25	28	57	19	9.5	17	M6	*14.4			
	70	22 25 28 30 35	39	77	25	12.5	24	M8	*30.0			

* 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	Allowable Torque (N·m) Set Screw	Allowable Torque (N·m) Clamping	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Mass (g)
Set Screw MFJ MFJWK / Clamping MFJC MFJCLK MFJCRK MFJCWK	44	30	26	2	1	1500	12000	4×10^{-5}	±0.5	140
	55	45	40		1.5	2800	10000	11×10^{-5}	±0.6	260
	70	80	72		2	4800	8000	40×10^{-5}	±0.8	450

The allowable torque varies depending on temperature. P.941

Ordering Example: Part Number - Shaft Bore Dia. d_1 - Shaft Bore Dia. d_2
MFJ44 - 15 - 20
MFJCWK70 - 22 - 35

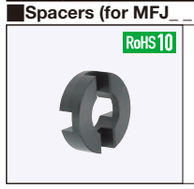
Days to Ship: Configure Online

Price: Configure Online

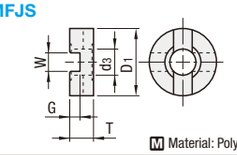
Alterations: Part Number - Shaft Bore Dia. d_1 (LDC) - Shaft Bore Dia. d_2 (RDC) - (KLH, KRH, LK, RK)
MFJ55 - LDC19.5 - RDC21
MFJCWK70 - 22 - 35 - KLH8
Configure Online

Alterations	Shaft Bore Dia.	Keyway Width	Keyway
Spec.	0.1mm Increment. Ordering Code: LDC19.5, RDC21. D: 44 LDC, RDC 14~22(20); 55 18~26(25); 70 22~38(35). Values in ( ) are for Clamping Type.	Keyway Width (b) is changed as the table below. Ordering Code: KLH8 KRH8. Shaft Bore Dia. d_1, d_2: 22 (8), 30 (10). KLH, KRH(b) Dimension 8 (10), Tolerance ±0.0180. t Dimension 3.3, Tolerance +0.2 0. Cannot be combined with shaft bore change (LDC, RDC) alterations. Applicable to Keywayed Bore only.	MFJ MFJC. Ordering Code: LK5 RK8. Shaft Dia. d_1, d_2: 14~17 (5); 17~22 (6); 22~30 (8); 30~38 (10). For Keyway Dimension Please see P.960
Code	LDC (Left Shaft)	RDC (Right Shaft)	KLH (Left Shaft)	KRH (Right Shaft)	LK (Left Shaft)	RK (Right Shaft)
Price Adder						

Spacers (for MFJ_ _ or MFJC_ _)



MFJS



M Material: Polyacetal

Part Number Type	No.	D_1	T	d_3	W	G	Applicable Coupling	Unit Price
MFJS	44	44.3	14	22.5	10.4	9	MFJ__44 MFJC__44	
	55	55	17	28	13	11	MFJ__55 MFJC__55	
	70	69	25	39	15	16.5	MFJ__70 MFJC__70	

Ordering Example: Part Number MFJS70
Days to Ship: Configure Online
Price: Configure Online

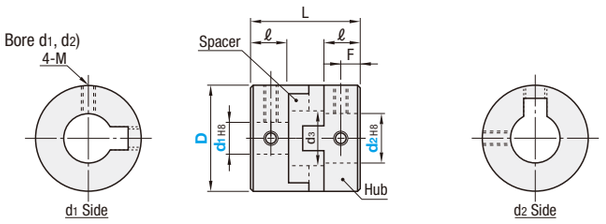
Oldham Couplings

High Rigidity Large Shaft Diameter, Set Screw / Clamping

Feature: Aluminum bronze is used for spacer and it has allowable torque twice as much as Resin Type (MFJ Series).

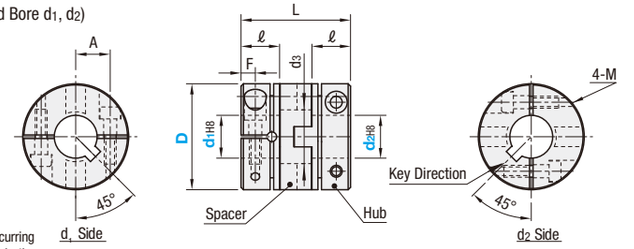
Set Screw

MFJGWK (Keywayed Bore d_1, d_2)



Clamping

MFJCGWK (Keywayed Bore d_1, d_2)



- Operating Temperature: -20°C~80°C
- d_1, d_2 tolerance are values before slit machining.
- 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 to 1/2.
- For the selection criteria and alignment procedures P.941
- When lateral/angular misalignments and the rotational speed are over 50% of the allowable values, apply grease with molybdenum disulfide periodically.

Shape	Keywayed Bore d_1, d_2 (Both Sides)	Material Hub	Material Spacer	Accessories
Set Screw	MFJGWK	Stainless Steel	Aluminum Bronze	Set Screw (Hex Socket Head Cap Screw)
Clamping	MFJCGWK			

Set Screw

Part Number Type	D	d_1, d_2 ($d_1 \le d_2$)	d_3	L	ℓ	F	Set Screw M	Set Screw Tightening Torque (N·m)	Unit Price 1~9 pc(s).
MFJGWK	45	15 16 18 20	22.5	43.6	15	7.5	M 5	3.6	
	55	20 22 24 25	29	49.4	17	8.5	M 6	6.0	
	70	25 28 30 35	36	57.0	20	10	M 8	14.0	

For orders larger than indicated quantity, please request a quotation.

Clamping

Part Number Type	D	d_1, d_2 ($d_1 \le d_2$)	d_3	L	ℓ	F	A	Clamp Screw M	Clamp Screw Tightening Torque (N·m)	Unit Price 1~4 pc(s).
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	

* 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.

For orders larger than indicated quantity, please request a quotation.

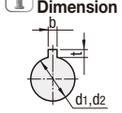
Set Screw

Part Number Type	D	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Mass (g)
MFJGWK	45	60	1	1	65000	10000	1.7×10^{-4}	±0.3	400
	55	90		1.2	100000		3.3×10^{-4}	±0.5	700
	70	160		1.6	180000		11×10^{-4}	±0.6	1300

Ordering Example: Part Number - Shaft Bore Dia. d_1 - Shaft Bore Dia. d_2
MFJGWK45 - 15 - 20
MFJCGWK55 - 22 - 25

Days to Ship: Configure Online

Keyway Dimension



Shaft Bore Dia. d_1, d_2	b Dimension	b Tolerance	t Dimension	t Tolerance	Key Nominal Dim. bxh
14~17	5	±0.0150	2.3	+0.1 0	5x5
17.1~22	6		2.8		6x6
22.1~30	8	±0.0180	3.3	+0.2 0	8x7
30.1~38	10				10x8

Clamping

Part Number Type	D	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Mass (g)
MFJCGWK	45	50	1	0.8	35000	5000	1.8 $\times 10^{-4}$	±0.3	450
	55	75		1.0	52000		3.3 $\times 10^{-4}$	±0.5	800

Alterations: Part Number - Shaft Bore Dia. d_1 (LDC) - Shaft Bore Dia. d_2 (RDC) - (KLH, KRH)
MFJGWK45 - LDC19 - RDC19
MFJCGWK55 - 22 - 25 - KLH8
Configure Online

Alterations	Shaft Bore Dia.	Keyway Width
Spec.	1mm Increment. Ordering Code: LDC19, RDC21. D: 45 LDC, RDC 15~20; 55 20~25; 70 25~35.	Keyway Width (b) is changed as the table below. Ordering Code: KLH8 KRH8. Shaft Bore Dia. d_1, d_2: 22 (8), 30 (10). KLH, KRH(b) Dimension 8 (10), Tolerance ±0.0180. t Dimension 3.3, Tolerance +0.2 0. Cannot be combined with shaft bore change (LDC, RDC) alterations.
Code	LDC (Left Shaft)	RDC (Right Shaft)	KLH (Left Shaft)	KRH (Right Shaft)
Price Adder				