


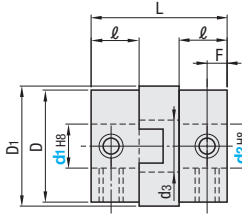
Oldham Couplings

High Rigidity, Set Screw

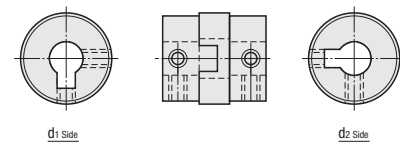
■ **Features:** Aluminum bronze is used for spacer and it has allowable torque twice as much as Resin Type.



MCOG (Standard Bore)



MCOGRK (Keyway Bore d2)
MCOGWK (Keyway Bore d1, d2)



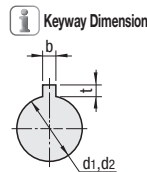
⚠ The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.

⚠ For the selection criteria and alignment procedures, see **P1061**

Standard Bore	Keyway Bore		Material		Accessory
	d2 (One Side)	d1, d2 (Both Sides)	Hub	Spacer	
MCOG	MCOGRK	MCOGWK	SUS304 Sintered Alloy	Aluminum Bronze (Solid Lubricant Embedded)	Set Screw

Part Number		d1, d2 Selection (d1 ≤ d2)										Set Screw		Unit Price								
Type	No.	⚠ Keyway Bore Type is selectable for diameter 6 or larger										D	D1	d3	L	ℓ	F	M	Tightening Torque (N·m)	MCOG	MCOGRK	MCOGWK
MCOG MCOGRK MCOGWK	15	4	5	6	6.35	7	8	14.5	15	7.2	16	5.4	2.6	M3	0.7							
	17	5	6	6.35	7	8	16.8	17.5	8.2	19.8	6.7	3.2										
	20	6	6.35	7	8	9.53	10	11	12	20	21	9	21.4			7	3.4					
	26	6	6.35	7	8	9.53	10	11	12	14	26	27	12			25.6	9	4				
	30					8	10	12	14	30	31	14	33	12	6							
	34						10	11	12	14	15	16	34	35	14	34	13	5.5				
	38						10	12	14	15	16	18	20	38	41	17	39.5	15	7			

Part Number	No.	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·m ²)	Allowable Axial Misalignment (mm)	Mass (g)
MCOG MCOGRK MCOGWK	15	3	1.5	0.5	800	8000	4 × 10 ⁻⁹	±0.1	15
	17	5		0.5	1000	7000	1 × 10 ⁻⁷	±0.1	25
	20	7		0.5	2200	6000	2 × 10 ⁻⁸	±0.1	37
	26	10		0.8	4000	5000	6 × 10 ⁻⁸	±0.2	79
	30	30		1	5500	5000	2.5 × 10 ⁻⁵	±0.3	120
	34	32		1	8000	4000	4 × 10 ⁻⁵	±0.2	180
	38	50		1	11000	4000	1 × 10 ⁻⁴	±0.3	256



Shaft Bore Dia. d1, d2	b		t		Key Nominal Dim. b×h
	Reference Dia.	Tolerance	Reference Dia.	Tolerance	
6~7.9	2	±0.0125	1.0		2x2
8~10	3		1.4		3x3
10.1~12	4		1.8		4x4
12.1~17	5	±0.0150	2.3		5x5
17.1~20	6		2.8		6x6

- ⚠ Excellent in high torque / high speed rotation applications.
- ⚠ When lateral misalignment is more than 0.1, spacer wear will be in proportion to the amount of load torque, lateral misalignment, and the number of rotations.

Ordering Example

Part Number - Shaft Bore Dia. d1 - Shaft Bore Dia. d2

MCOG20 - 6 - 6

MCOGRK20 - 8 - 12

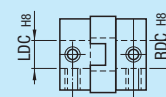

MCOGWK20 - 10 - 12

Alterations

Part Number - Shaft Bore Dia. d1(LDC) - Shaft Bore Dia. d2(RDC) - (KLH, KRH)

MCOG20 - LDC6.5 - RDC9

MCOGWK30 - 8 - 10 - KRH4

Alterations	Shaft Bore Dia.	Keyway Width																						
Spec.		Keyway Width (b) is changed as the table below.																						
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Shaft Bore Dia. d1, d2</th> <th colspan="2">KLH, KRH(b)</th> <th colspan="2">t</th> </tr> <tr> <th>Reference Dia.</th> <th>Tolerance</th> <th>Reference Dia.</th> <th>Tolerance</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>2</td> <td>±0.0125</td> <td>1.0</td> <td></td> </tr> <tr> <td>10</td> <td>4</td> <td></td> <td>1.8</td> <td></td> </tr> <tr> <td>12</td> <td>5</td> <td>±0.0150</td> <td>2.3</td> <td></td> </tr> </tbody> </table>	Shaft Bore Dia. d1, d2	KLH, KRH(b)		t		Reference Dia.	Tolerance	Reference Dia.	Tolerance	8	2	±0.0125	1.0		10	4		1.8		12	5	±0.0150
Shaft Bore Dia. d1, d2	KLH, KRH(b)			t																				
	Reference Dia.	Tolerance	Reference Dia.	Tolerance																				
8	2	±0.0125	1.0																					
10	4		1.8																					
12	5	±0.0150	2.3																					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>LDC, RDC</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>4~8</td> </tr> <tr> <td>17</td> <td>5~8</td> </tr> <tr> <td>20</td> <td>6~12</td> </tr> <tr> <td>26</td> <td>6~14</td> </tr> <tr> <td>30</td> <td>8~14</td> </tr> <tr> <td>34</td> <td>10~16</td> </tr> <tr> <td>38</td> <td>10~20</td> </tr> </tbody> </table>	No.	LDC, RDC	15	4~8	17	5~8	20	6~12	26	6~14	30	8~14	34	10~16	38	10~20	 <p>⊗ Cannot be combined with shaft bore change (LDC, RDC) alterations.</p> <p>⚠ Applicable to Keyway Bore only.</p>						
No.	LDC, RDC																							
15	4~8																							
17	5~8																							
20	6~12																							
26	6~14																							
30	8~14																							
34	10~16																							
38	10~20																							
Code	LDC (Left Shaft) RDC (Right Shaft)	KLH (Left Shaft) KRH (Right Shaft)																						