


Oldham Couplings

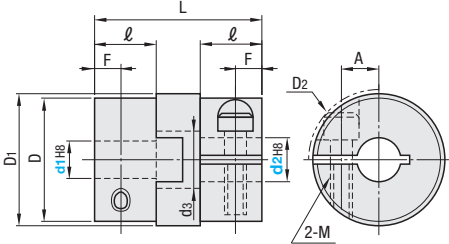
High Rigidity, Clamping

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



RoHS 10

MCOCG (Standard Bore)



MCOCGLK (Keywayed Bore d1)
MCOCGRK (Keywayed Bore d2)
MCOCGWK (Keywayed Bore d1, d2)

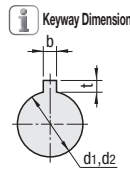
⚠ Tolerances for d1 and d2 are values before slit machining.
 ⚠ The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
 ⚠ For the selection criteria and alignment procedures, see **PDF P1061**

Standard Bore	Keywayed Bore			Material		Accessory
	d1 (One Side)	d2 (One Side)	d1, d2 (Both Sides)	Hub	Spacer	
MCOCG	MCOCGLK	MCOCGRK	MCOCGWK	SUS304 Sintered Alloy	Aluminum Bronze (Solid Lubricant Embedded)	Hex Socket Head Cap Screw

Part Number	d1, d2 Selection (d1 ≤ d2)								D	D1	D2	d3	L	l	A	F	Clamp Screw		Unit Price				
	Type	No.	⚠ Keywayed Bore Type is selectable for diameter 6 or larger														M	Tightening Torque (N·m)	MCOCG	MCOCGLK	MCOCGRK		
MCOCG MCOCGLK MCOCGRK MCOCGWK	15	4 5 6							14.5	15	16	7.2	18.4	6.6	4.5	3.2	M2.5	1.0					
	17	5 6 6.35							16.8	17.5	19	8.2	24.4	9	5	4	M3	1.8					
	20	6 6.35 7 8 9.53 10							20	21	23	9	27.2	10	7	4.5	M4	3.0					
	26	6 6.35 7 8 9.53 10 11 12							26	27	29	12	30.4	11.5	8.4	5	M4	3.0					
	30		8 10							30	31	32	13	33	12		8.5	M5	8.0				
				12 14													9	6	M4	4.5			
	34		10 11 12 14 15 16							34	35	37	14	34	13	11		M5	8.0*				
	38		10 12 14 15 16							38	41	41	17	39.5	15		11.5	7	M5	8.0			
			18 20													13.7							

*Clamping screw tightening torque for shaft diameter 16mm (d1, d2) of MCOCG34 is 5.4 (N·m).

Part Number	Allowable Torque (N·m)	Max. 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)	
MCOCG	15	3	1.5	0.5	800	8000	6 × 10 ⁻⁷	±0.1	17
MCOCG	17	5		0.5	1000	7000	1.2 × 10 ⁻⁶	±0.1	30
MCOCGLK	20	7		0.5	2200	6000	3 × 10 ⁻⁶	±0.1	48
MCOCGRK	26	10		0.8	4000	5000	1 × 10 ⁻⁵	±0.2	90
MCOCGWK	30	30		1	5500	5000	2.5 × 10 ⁻⁵	±0.3	120
MCOCGWK	34	32		1	8000	4000	4 × 10 ⁻⁵	±0.2	172
MCOCGWK	38	50		1	11000	4000	1 × 10 ⁻⁴	±0.3	246



Shaft Bore Dia. d1, d2	Reference Dia. Tolerance		t		Key Nominal Dim. b(x)
	Reference Dia.	Tolerance	Reference Dia.	Tolerance	
6~7.9	2	±0.0125	1.0	±0.01	2x2
8~10	3	±0.0125	1.4	±0.01	3x3
10.1~12	4	±0.0150	1.8	±0.01	4x4
12.1~17	5	±0.0150	2.3	±0.01	5x5
17.1~20	6	±0.0150	2.8	±0.01	6x6

⚠ Excellent in high torque / high speed rotation applications.

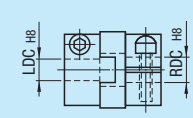
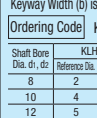
⚠ When lateral misalignment is more than 0.1, spacer wear will be in proportion to the amount of load torque, lateral misalignment, and the number of rotations.

Ordering Example

Part Number	- Shaft Bore Dia. d1	- Shaft Bore Dia. d2
MCOCG20	- 6	- 6
MCOCGLK30	- 8	- 12
MCOCGWK38	- 10	- 12

Alterations

Part Number	- Shaft Bore Dia. d1 (LDC)	- Shaft Bore Dia. d2 (RDC)	- (KLH, KRH)
MCOCG20	- LDC6.5	- RDC9	
MCOCGWK30	- 8	- 10	- KRH4

Alterations	Shaft Bore Dia.	Keyway Width																																								
																																										
<p>Spec.</p> <p>0.1mm Increment</p> <table style="border-collapse: collapse;"> <tr> <td>No.</td> <td>LDC, RDC</td> </tr> <tr> <td>15</td> <td>4~6</td> </tr> <tr> <td>17</td> <td>5~6</td> </tr> <tr> <td>20</td> <td>6~10</td> </tr> <tr> <td>26</td> <td>6~12</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> </table> <p>Ordering Code</p> <p>LDC7.8</p> <p>RDC9.3</p>	No.	LDC, RDC	15	4~6	17	5~6	20	6~10	26	6~12	30	8~14	34	10~16	38	10~20	<p>Keyway Width (t) is changed as the table below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Ordering Code</th> <th colspan="2">KLH4</th> <th colspan="2">KRH4</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>±0.01</td> </tr> <tr> <td>10</td> <td>4</td> <td>±0.0150</td> <td>1.8</td> <td>±0.01</td> </tr> <tr> <td>12</td> <td>5</td> <td>±0.0150</td> <td>2.3</td> <td>±0.01</td> </tr> </tbody> </table> <p>⚠ Cannot be combined with shaft bore change (LDC, RDC) alterations.</p> <p>⚠ Applicable to Keywayed Bore only.</p>		Ordering Code	KLH4		KRH4		Reference Dia.	Tolerance	Reference Dia.	Tolerance	8	2	±0.0125	1.0	±0.01	10	4	±0.0150	1.8	±0.01	12	5	±0.0150	2.3	±0.01
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Code	LDC (Left Shaft)	RDC (Right Shaft)	KLH (Left Shaft)	KRH (Right Shaft)																																						