


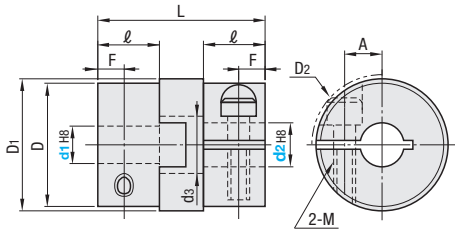
# Oldham Couplings

## Clamping

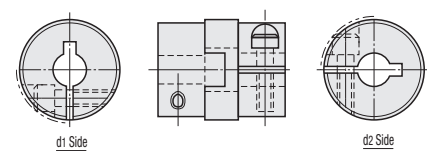
■ **Features:** Hub and spacer can be separated for easy assembly.



**MCOC** (Standard Bore)



**MCOCLK** (Keywayed Bore d1)  
**MCOCRK** (Keywayed Bore d2)  
**MCOCWK** (Keywayed Bore d1, d2)



- ⚠ Operating Temperature: -40°C ~ 90°C
- ⚠ 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 **P.1061**

Standard Bore	Keywayed Bore			Material	Accessory
	d1 (One Side)	d2 (One Side)	d1, d2 (Both Sides)		
MCOC	MCOCLK	MCOCRK	MCOCWK	SUS304 Sintered Alloy	Carbon Reinforced Resin Hex Socket Head Cap Screw

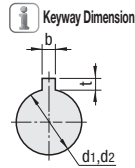


Part Number	d1, d2 Selection (d1≤d2)										Clamp Screw		Unit Price												
	Type	No.	⚠ Keywayed Bore Type is selectable for diameter 6 or larger										D	D1	D2	d3	L	l	A	F	M	Tightening Torque (N·m)	MCOC	MCOCLK MCOCRK	MCOCWK
MCOC MCOCLK MCOCRK MCOCWK	15	4 5 6	14.5	15	16	5.0	18.4	6.6	4.5	3.2	M2.5	1.0													
	17	5 6 6.35	16.8	17.5	19	7.2	24.4	9	5	4	M3	1.8													
	20	6 6.35 7 8 9.53 10	20	21	23	8.2	27.2	10	7	4.5															
	26	6 6.35 7 8 9.53 10 11 12	26	27	29	12.0	30.4	11.5	8.4	5	M4	3.0													
	30	8 10	30	31	32	13.0	33	12	8.5	6	M5	8.0													
	34	10 11 12 14 15 16	34	35	37	13.0	34	13	11	6	M4	4.5													
	38	10 12 14 15 16	38	41	41	16.0	40	15	11.5	7	M5	8.0													
			18	20				13.7																	

⚠ \*Clamping screw tightening torque for shaft diameter 16mm (d1, d2) of MCOC34 is 5.4 (N·m).

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 <sup>2</sup> )	Mass (g)
15	1.6	0.8	90	10000	5.0x10 <sup>-7</sup>	±0.45	15	
17	2.2	1	250	1.0x10 <sup>-6</sup>	±0.55	28		
20	3.2	1.5	340	8000	2.4x10 <sup>-6</sup>	40		
26	6	2	420	6500	8.0x10 <sup>-6</sup>	85		
30	15	2	1200	6200	2.0x10 <sup>-5</sup>	100		
34	16	2.5	2400	6000	2.5x10 <sup>-5</sup>	155		
38	28	2.5	3500	5800	8.0x10 <sup>-5</sup>	240		

⚠ The allowable torque varies depending on temperature. **P.1062**



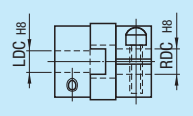

Shaft Bore Dia. d1, d2	b	t	Key Nominal Dim. b x h
6~7.9	2	±0.0125	1.0
8~10	3	±0.0150	1.4
10.1~12	4	±0.0150	1.8
12.1~17	5	±0.0150	2.3
17.1~20	6	±0.0150	2.8

**Ordering Example**

Part Number	-	Shaft Bore Dia. d1	-	Shaft Bore Dia. d2
<b>MCOC20</b>	-	6	-	6
<b>MCOCLK20</b>	-	6	-	8
<b>MCOCWK20</b>	-	8	-	10

**Alterations**

Part Number	-	Shaft Bore Dia. d1 (LDC)	-	Shaft Bore Dia. d2 (RDC)	-	(KLH, KRH)
<b>MCOC20</b>	-	<b>LDC6.5</b>	-	<b>RDC9</b>	-	<b>KLH4</b>
<b>MCOCWK30</b>	-	8	-	10	-	<b>KRH4</b>

Alterations	Shaft Bore Dia.	Keyway Width																																								
	 <p>Spec.</p> <table style="border-collapse: collapse; margin-top: 5px;"> <tr> <td>0.1mm Increment</td> <td>No.</td> <td>D</td> <td>LDC, RDC</td> </tr> <tr> <td rowspan="6">Ordering Code</td> <td>15</td> <td>14.5</td> <td>4~6</td> </tr> <tr> <td>17</td> <td>16.8</td> <td>5~6.3</td> </tr> <tr> <td>20</td> <td>20</td> <td>6~10</td> </tr> <tr> <td>LDC7.8</td> <td>26</td> <td>6~12</td> </tr> <tr> <td>RDC9.3</td> <td>30</td> <td>8~14</td> </tr> <tr> <td></td> <td>34</td> <td>10~16</td> </tr> <tr> <td></td> <td>38</td> <td>10~20</td> </tr> </table>	0.1mm Increment	No.	D	LDC, RDC	Ordering Code	15	14.5	4~6	17	16.8	5~6.3	20	20	6~10	LDC7.8	26	6~12	RDC9.3	30	8~14		34	10~16		38	10~20	<p>Keyway Width (b) is changed as the table below.</p> <table style="border-collapse: collapse; margin-top: 5px;"> <tr> <td>Ordering Code</td> <td>KLH4</td> <td>KRH4</td> </tr> </table> <table style="border-collapse: collapse; margin-top: 5px;"> <tr> <td>Shaft Bore Dia. d1, d2</td> <td>KLH, KRH(b)</td> <td>t</td> </tr> <tr> <td>8</td> <td>2</td> <td>±0.0125</td> </tr> <tr> <td>10</td> <td>4</td> <td>±0.0150</td> </tr> <tr> <td>12</td> <td>5</td> <td>±0.0150</td> </tr> </table> <div style="margin-top: 10px;">  <p>⚠ Cannot be combined with shaft bore change (LDC, RDC) alterations.          ⚠ Applicable to Keywayed Bore only.</p> </div>	Ordering Code	KLH4	KRH4	Shaft Bore Dia. d1, d2	KLH, KRH(b)	t	8	2	±0.0125	10	4	±0.0150	12	5
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