


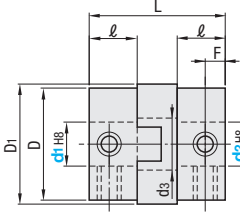
Oldham Couplings

High Rigidity, Set Screw

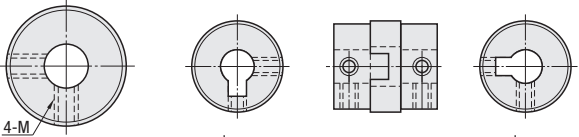
■ Features: Aluminum bronze is used for spacer and it has allowable torque twice as much as Resin Type.



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.

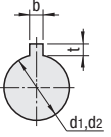
⚠ For the selection criteria and alignment procedures, see **P1061**

Standard Bore	Keyway Bore			Material		Accessory
	d1 (One Side)	d1, d2 (Both Sides)	Hub	Spacer		
MCOG	MCOGRK	MCOGWK	EN 1.4301 Equiv Sintered Alloy	Aluminum Bronze (Solid Lubricant Embedded)	Set Screw	

Part Number	Type	No.	d1, d2 Selection (d1≤d2)							D	D1	d3	L	ℓ	F	Set Screw		Unit Price		
			⚠ Keyway Bore Type is selectable for diameter 6 or larger													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	M4	1.7						
	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	M5	4.0				
	38		10	12	14	15	16	18	20	38	41	17	39.5	15			7			

Part Number	Type	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 Hub Misalignment (mm)	Mass (g)
MCOG MCOGRK MCOGWK	15	3	0.5	800	8000	4 × 10 ⁻⁵	±0.1	15		
	17	5	0.5	1000	7000	1 × 10 ⁻⁷	±0.1	25		
	20	7	0.5	2200	6000	2 × 10 ⁻⁵	±0.1	37		
	26	10	0.8	4000	5000	6 × 10 ⁻⁵	±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			

Keyway Dimension



Shaft Bore Dia. d1, d2	b	t	Key Nominal Dim. b×h
6~7.9	2	1.0	2x2
8~10	3	1.4	3x3
10.1~12	4	1.8	4x4
12.1~17	5	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	
		KLH4	KRH4
Spec.	0.1mm Increment Ordering Code LDC7.8 RDC9.3	No.	LDC, RDC
		15	4~8
Code	LDC (Left Shaft) RDC (Right Shaft)	KLH (Left Shaft)	KRH (Right Shaft)

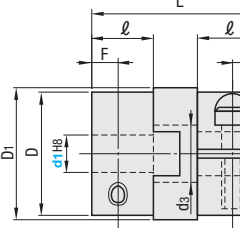
Oldham Couplings

High Rigidity, Clamping

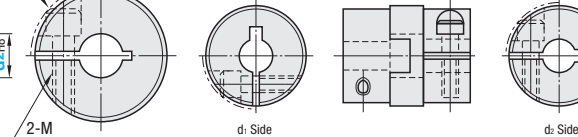
■ Features: Aluminum bronze is used for spacer and it has allowable torque twice as much as Resin Type.



MCOCG (Standard Bore)



MCOCGLK (Keyway Bore d1)
MCOCGRK (Keyway Bore d2)
MCOCGWK (Keyway 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 **P1061**

Standard Bore	Keyway Bore			Material		Accessory
	d1 (One Side)	d1, d2 (One Side)	d1, d2 (Both Sides)	Hub	Spacer	
MCOCG	MCOCGLK	MCOCGRK	MCOCGWK	EN 1.4301 Equiv Sintered Alloy	Aluminum Bronze (Solid Lubricant Embedded)	Hex Socket Head Cap Screw

Part Number	Type	No.	d1, d2 Selection (d1≤d2)							D	D1	D2	d3	L	ℓ	A	F	Clamp Screw		Unit Price		
			⚠ Keyway 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	11	12	20	21	23			9	27.2	10	7	4.5			
	26	6	6.35	7	8	9.53	10	11	12	14	26	27	29	12	30.4	11.5	8.4	5	M4	3.0		
	30		8	10	30	31	32	13	33	12									M5	8.0		
	34		10	11	12	14	15	16	34	35	37	14	34	13	11				M4	4.5		
	38		10	12	14	15	16	38	41	41	17	39.5	15						M5	8.0		

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

Part Number	Type	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 Hub Misalignment (mm)	Mass (g)
MCOCG MCOCGLK MCOCGRK MCOCGWK	15	3	0.5	800	8000	6 × 10 ⁻⁷	±0.1	17		
	17	5	0.5	1000	7000	1.2 × 10 ⁻⁵	±0.1	30		
	20	7	0.5	2200	6000	3 × 10 ⁻⁵	±0.1	48		
	26	10	0.8	4000	5000	1 × 10 ⁻⁵	±0.2	90		
	30	30	1	5500	5000	2.5 × 10 ⁻⁵	±0.3	120		
	34	32	1	8000	4000	4 × 10 ⁻⁵	±0.2	172		
38	50	1	11000	4000	1 × 10 ⁻⁴	±0.3	246			

⚠ 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	
		KLH4	KRH4
Spec.	0.1mm Increment Ordering Code LDC7.8 RDC9.3	No.	LDC, RDC
		15	4~6
Code	LDC (Left Shaft) RDC (Right Shaft)	KLH (Left Shaft)	KRH (Right Shaft)