

Oldham Couplings

Clamping / Set Screw

Points of comparison between similar products | Max. Rotational Speed: 15,000~39,000rpm

Features: Projection structure of the spacer effortlessly allows angular and lateral misalignment and thereby reduces load on the shaft.

Clamping

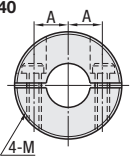
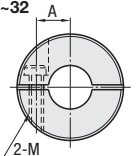
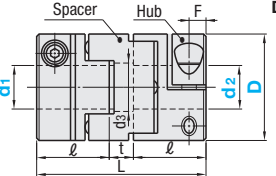


Set Screw

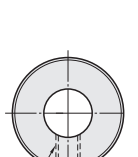
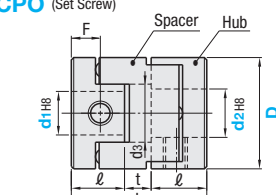


TYPE	M Material		S Surface Treatment	A Accessory
	Hub	Spacer	Hub	
CPOC	Aluminum Alloy	Polyacetal	Clear Anodize	Clamp Screw
CPO	Aluminum Alloy	Polyacetal	Clear Anodize	Set Screw

CPOC (Clamping)



CPO (Set Screw)



Operating Temperature: -20°C ~ 80°C

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 selection criteria, see [P.1061](#).

Part Number		d1, d2 Selection (d1≤d2)										Set Screw / Clamp Screw		Unit Price
Type	D											M	Tightening Torque (N·m)	
Clamping CPOC	16		5	6										
	20			6	6.35	8								
	25				6.35	8	10					M3	1.5	
	32					8	10	11	12	14		M4	2.5	
	*40							12	14	15	16	M5	4	
Set Screw CPO	16	3	4	5	6	6.35								
	20		4	5	6	6.35	8							
	25			5	6	6.35	8	9.53	10					
	32					8	10		12	14				
	*40						10		12	14	15	16	M6	7

* The spacer of D40 is black.

Characteristic Values

Part Number	Type	D	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m ²)	Mass (g)
CPOC	16	0.7	0.7	3	1.0	39000	5.8x10 ⁻⁷	12
	20	1.2	1.2		1.5	31000	1.5x10 ⁻⁶	19
	25	2.0	2.0		2.0	25000	4.4x10 ⁻⁶	36
	32	4.5	2.5		2.5	19000	1.4x10 ⁻⁵	69
	40	9.0	3.0		3.0	15000	4.1x10 ⁻⁵	130
CPO	16	0.7	0.7	3	1.0	39000	3.2x10 ⁻⁷	7
	20	1.2	1.2		1.5	31000	1.0x10 ⁻⁶	14
	25	2.0	2.0		2.0	25000	3.0x10 ⁻⁶	27
	32	4.5	2.5		2.5	19000	9.5x10 ⁻⁶	50
	40	9.0	3.0		3.0	15000	2.3x10 ⁻⁵	80

Alterations	Part Number	Shaft Bore Dia. d1 (LDC)	Shaft Bore Dia. d2 (RDC)
	CPOC16	LDC4.5	RDC5.5
	CPOC25	6	10
			RK3

Keyway Dimension		Shaft Bore Dia.		b		t		Key Nominal Dim.	
d1, d2		Reference Dia.	Tolerance	Reference Dia.	Tolerance			b x h	
8, 10	3	±0.0125	1.4			+0.1		3x3	
11, 12	4		1.8			0		4x4	
14, 15, 16	5	±0.0150	2.3					5x5	

Spacers (for CPO, CPOC, CPOCG)

Part Number	Type	No.	D1	T	d3	W	G	Applicable Coupling	Unit Price
CPOS	16	12	7	8	4.5			CP016, CPOC16	
	20	15	9	10	5.5			CP020, CPOC20	
	25	18	11	12	6.5			CP025, CPOC25	
	32	21	14.5	15	7.5			CP032, CPOC32	
	40	18	17	19				CP040, CPOC40	
CPOCGS	12	12	4.88	6	3.95	2.44		CPOCG12	
	16	16	6.96	8	4.95	3.48		CPOCG16	
	20	20	8.06	10	6.95	4.03		CPOCG20	
	25	25	11.18	14	8.95	5.59		CPOCG25	
	32	32	13.34	18	9.95	6.67		CPOCG32	

Oldham Couplings

Clamping / Set Screw

Points of comparison between similar products | Max. Rotational Speed: 10,000rpm

Similar products page [P.1067](#)

Features: Product quality and performance same as of the conventional products but at lower price. Replaceable from CPOC, CPO.

Clamping

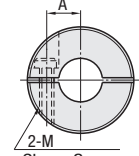
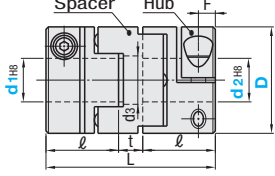


Set Screw

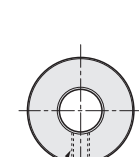
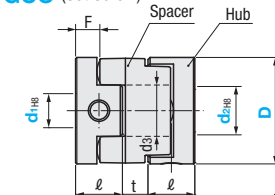


TYPE	M Material		S Surface Treatment	A Accessory
	Hub	Spacer	Hub	
GCOC	Aluminum Alloy	Polyacetal	Clear Anodize	Clamp Screw
GCO	Aluminum Alloy	Polyacetal	Clear Anodize	Set Screw

GCOC (Clamping)



GCO (Set Screw)



Operating Temperature: -20°C ~ 80°C

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 selection criteria, see [P.1061](#).

Tolerances for d1 and d2 are values before slit machining.

Part Number		d1, d2 Selection (d1≤d2)										Set Screw / Clamp Screw		Unit Price
Type	D											M	Tightening Torque (N·m)	
Clamping GCOC	16		5	6										
	20			6	6.35	8								
	25				6.35	8	10					M3	1.5	
	32					8	10	11	12	14		M4	2.5	
Set Screw GCO	16	3	4	5	6	6.35								
	20		4	5	6	6.35	8							
	25			5	6	6.35	8	10						
	32					8	10	12	14					

Characteristic Values

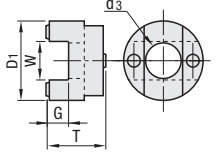
Part Number	Type	D	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Max. Rotational Speed (rpm)	Moment of Inertia (kg·m ²)	Mass (g)
GCOC	16	0.7	0.7	3	1.0	10000	4.4x10 ⁻⁷	11
	20	1.2	1.2		1.5		1.2x10 ⁻⁶	20
	25	2.0	2.0		2.0		3.3x10 ⁻⁶	37
	32	4.5	2.5		2.5		1.4x10 ⁻⁵	70
GCO	16	0.7	0.7	3	1.0	10000	2.2x10 ⁻⁷	6
	20	1.2	1.2		1.5		6.9x10 ⁻⁷	13
	25	2.0	2.0		2.0		2.1x10 ⁻⁶	23
	32	4.5	2.5		2.5		6.5x10 ⁻⁶	45

Inertia moment and mass values are for cases of maximum shaft diameter.

Spacer



GCOCs



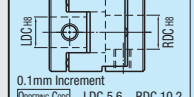
Part Number	Type	No.	D1	T	d3	W	G	Applicable Coupling	Unit Price
GCOCs	16	15.6	12	7	8	4.5		GCOC16, GCOC16	
	20	19.6	15	9	10	5.5		GCOC20, GCOC20	
	25	24.6	18	11	12	6.7		GCOC25, GCOC25	
	32	31.6	21	14.5	15.3	7.5		GCOC32, GCOC32	

Material: Polyacetal

Ordering Example

Part Number

GCOCs20

Alterations	Shaft Bore Dia.	Keyway
Spec.		
	0.1mm Increment	
	Drawing Code: LDC 5.6 RDC 10.2	Drawing Code: LK4 RK5
	CPO, CPOC	
	D LDC, RDC	Shaft Dia. d1, d2 LK, RK
Code	16	4~6
	20	5~8
	25	5~10
	32	8~14
	40	12~16

Ordering Example	Part Number	No. 40 spacers are black.
	CPOS20	