

Oldham Couplings

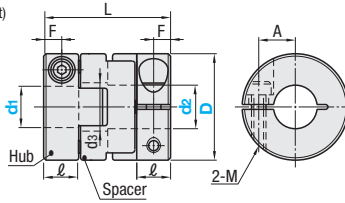
Blue Set Screw / Clamping, Green Short Clamping

Short Clamping



RoHS10

CPOCG (Short)



- 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 the selection criteria and alignment procedures, see **P.1061**

Parts	M	Material	S	Surface Treatment	A	Accessory
Hub		Aluminum Alloy		Clear Anodize		Hex Socket Head Cap Screw
Spacer		Polyacetal		-		-

Part Number	Type	D	d1, d2 Selection (d1≤d2)								d3	L	ℓ	t	F	A	Clamp Screw		Unit Price
			3	4	5	6	7	8	10	11							12	M	
CPOCG	12	3	4	5	6	7	8	10	11	12	14	18	14.9	5	2.5	4	M2	0.5	
	16	3	4	5	6	7	8	10	11	12	14	21	7	3.5	5	M2.5	1		
	20	5	6	6.35	7	8	10	11	12	14	18	22.1	8	4	9	M3	1.5		
	25	6	6.35	7	8	10	11	12	14	18	33.3	10	5	11	M4	2.5			

Part Number	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)	Mass (g)
12	0.2	2	0.6	9	52000	7.1x10 ⁻⁸	3
16	0.4	2	1	30	39000	3x10 ⁻⁷	8
20	0.7	2	1.3	47	31000	7.4x10 ⁻⁷	13
25	1.2	2	1.5	85	25000	2.2x10 ⁻⁶	24
32	2.8	2	2	190	19000	7.3x10 ⁻⁶	48

Ordering Example: Part Number CPOCG16 - Shaft Bore Dia. d1 3 - Shaft Bore Dia. d2 5

- The allowable torque varies depending on temperature. See **P.1062**
- Spacers are available separately. See **P.1067**

Alterations: Part Number CPOCG16 - Shaft Bore Dia. d1 (LDC) - Shaft Bore Dia. d2 (RDC) - (LKRK)
CPOCG25 - 6 - 10 - RK3

Shaft Bore Dia. d1, d2	b	t	Key Nominal Dim. b x h
8, 10	3	1.4	3x3
11, 12	4	1.8	4x4
14, 15, 16	5	2.3	5x5

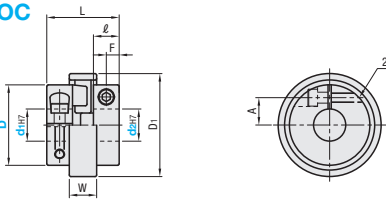
Alterations	Shaft Bore Dia.	Keyway
Spec.	0.1mm Increment LDC 5.6 RDC 10.2 CPOCG D1 LDC, RDC 12 3 - 5 16 3 - 6 20 5 - 8 25 6.35 - 10 32 7 - 14	Keyway machining is available for 8- Cannot be combined with shaft bore change (LDC, RDC) alterations. For keyway dimension, refer to the following.
Code	LDC (Left Shaft) RDC (Right Shaft)	LK (Left Shaft) RK (Right Shaft)

Super Short Clamping



RoHS10

SCOC



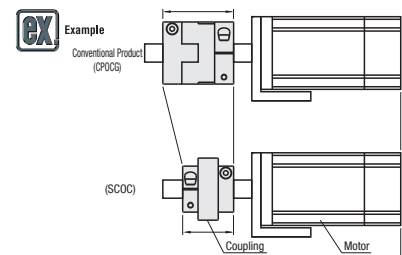
- Operating Temperature: -20°C ~ 80°C
- Tolerances for d1 and d2 are values before silt machining.
- The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
- For the selection criteria and alignment procedures, see **P.1061**
- For installing, use Coupling O.A.L. as a reference.

Parts	M	Material	S	Surface Treatment	A	Accessory
Hub		Aluminum Alloy		Clear Anodize		Hex Socket Head Cap Screw
Spacer		Polyacetal		-		-

Part Number	Type	D	d1, d2 Selection (d1≤d2)								L	D1	W	ℓ	F	A	Clamp Screw		Unit Price
			3	4	5	6	7	8	10 <th>M</th> <th>Tightening Torque (N·m)</th>	M							Tightening Torque (N·m)		
SCOC	12	3	4	5	6	7	8	10	11	12	13.5	16	5.5	5	2.5	4	2	0.5	
	16	3	4	5	6	7	8	10	11	12	18	21.5	8	6.5	3.25	5.5	2.5	1.0	
	20	5	6	6.35	7	8	10	11	12	14	19	27	8.8	6.8	3.4	6.5	4	1.5	
	25	6	6.35	7	8	10	11	12	14	18	22.5	33.5	10.5	8	4	8.5	3	1.5	

Part Number	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)	Mass (g)
12	0.3	1.5	0.3	18	12000	0.1x10 ⁻⁵	4
16	0.8	1.5	0.5	55	9000	0.42x10 ⁻⁴	9
20	1.0	1.5	1.0	95	6000	1.05x10 ⁻⁴	15
25	1.6	1.5	1.2	162	5000	3.04x10 ⁻⁴	28

Ordering Example: Part Number SCOC25 - Shaft Bore Dia. d1 8 - Shaft Bore Dia. d2 10



SCOC type are up to 17% shorter in length compared to the conventional products, and can contribute to space saving design.

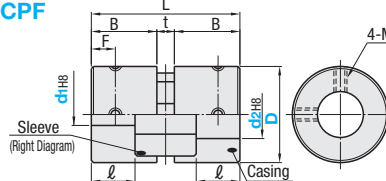
Sleeved Couplings / Jaw & Spider Couplings

Set Screw

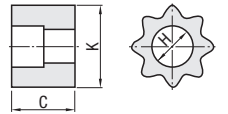
Sleeved Set Screw



CPF



Only 1 set screw location when d1 and d2 are 4mm or less.



Operating Temperature: -20°C ~ 60°C

Parts	M	Material	S	Surface Treatment	A	Accessory
Casing		Aluminum Alloy (Sintered Treatment for CPF32)		Electroplated Part (Black) / Steam Treatment for CPF32		Set Screw
Sleeve		Polyurethane (Orange)		-		-

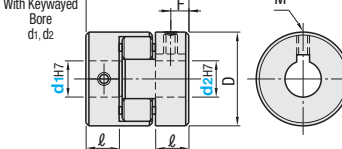
- The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
- For the selection criteria and alignment procedures, see **P.1061**

Jaw & Spider, Set Screw

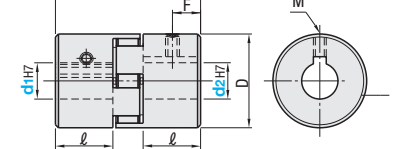


CPJLW

(No.=50, 70)



(No.=75, 90, 95)



- Operating Temperature: -40°C ~ 100°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 the selection criteria and alignment procedures, see **P.1061**

Parts	M	Material	S	Surface Treatment	A	Accessory
Main Body		Steel Type Sintered Alloy		Corrosion Resistant Coating		Set Screw
Spider		NBR (Black)		-		-

Part Number	Type	D	d1, d2 Selection (d1≤d2)								L	B	ℓ	t	F	Sleeve			Set Screw		Unit Price
			3	4	5	6	6.35	8	10 <th>C</th> <th>K</th> <th>H</th> <th>M</th> <th>Tightening Torque (N·m)</th>	C						K	H	M	Tightening Torque (N·m)		
CPF	16	3	4	5	6	6.35	8	10	11	12	27	12	8	3	4	11	14	6/6	M3	0.7	
	20	5	6	6.35	8	10	11	12	14	18	34	15	10	4	5	14	18	8/8	M3	0.7	
	25	6	6.35	8	10	12	14	18	19	20	41	18	12	5	6	17	22	10/10	M4	1.7	
	32	8	10	12	14	18	19	20	22	24	48	21	14	6	7	20	29	12/14	M4	1.7	

Part Number	Type	No.	d1, d2 Selection (d1≤d2)												D	L	ℓ	F	Set Screw		Unit Price		
			10	11	12	14	15	16	17	18	19	20	22	24					25	28 <th>M</th> <th>Tightening Torque (N·m)</th>		M	Tightening Torque (N·m)
CPJLW	50		10	11	12	14	15	16	17	18	19	20	22	24	25	28	27.3	43.4	15.6	8	M6	5	
	70		11	12	14	15	16	17	18	19	20	22	24	25	28	34.4	50.2	19	11.2	M6	7		
	75		14	15	16	17	18	19	20	22	24	25	28	34.4	54.1	20.7	44.5	54.1	20.7	M6	7		
	90		18	19	20	22	24	25	28	34.4	54.6	20.7	53.6	54.6	20.7	53.6	63.8	25.3	M8	10			
	95		18	19	20	22	24	25	28	34.4	53.6	63.8	25.3	53.6	63.8	25.3	53.6	63.8	25.3	M8	10		

Part Number	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)	Mass (g)
16	0.5	2	0.2	4.4	39000	9x10 ⁻⁷	22
20	1	2	0.2	9.5	31000	2.7x10 ⁻⁶	42
25	1.5	2	0.2	20	25000	8.1x10 ⁻⁶	81
32	3	2	0.2	52	19000	2.5x10 ⁻⁵	150

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

Features (CPF)

- The torque is conveyed by the serrations engagement on the sleeve. A flexible coupling with a simple structure.
- Excellent in flexibility with high tolerances to lateral/angular misalignments, and absorbs torsional vibrations.
- Serrations engage with high accuracy and has significantly small backlash.
- Simple structure, it can be fixed easily with a set screw and centered easily.
- Oil resistant and wear resistant.

Ordering Example: Part Number CPF20 - Shaft Bore Dia. d1 10 - Shaft Bore Dia. d2 10
CPJLW50 - 10 - 12

Features (CPJLW)

- A flexible coupling with a simple structure by combination of 2 bodies and 1 spider.
- Main body and the spider are of smooth blind fit, making for easy installation, removal and maintenance.
- (Body and spider are detachable.)

Part Number	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)
50	2.1	1	0.38	33.4	18000	1.6x10 ⁻⁵	+1.0	90
70	3.6	1	0.38	77.7	14000	3.3x10 ⁻⁵	0	200
75	8.4	1	0.38	241	11000	1.1x10 ⁻⁴	+1.1	360
90	9.8	1	0.38	317	9000	2.2x10 ⁻⁴	0	520
95	13.1	1	0.38	317	9000	2.6x10 ⁻⁴	0	570

Alterations: Part Number CPF25 - Shaft Bore Dia. d1 (LDC) - Shaft Bore Dia. d2 (RDC)
LDC7.6 - RDC9.1

Alterations	Code	Spec.
Shaft Bore Dia.	LDC (Left Shaft) RDC (Right Shaft)	0.1mm Increment Ordering Code LDC7.6 RDC9.1 Not applicable to CPJLW