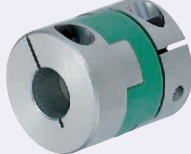


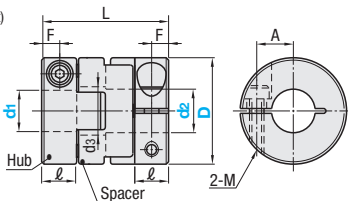
Oldham Couplings

Blue Set Screw / Clamping, Green Short Clamping

Short Clamping



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 **P1061**

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

Part Number		d1, d2 Selection (d1≤d2)										Clamp Screw		Unit Price
Type	D											M	Tightening Torque (N·m)	
CPOCG	12	3	4	5								6	14.9	5
	16	3	4	5	6							8	21	7
	20			5	6	6.35	7	8				10	22.1	
	25					6.35	7	8	10			14	27.2	8
	32						8	10	11	12	14	18	33.3	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·m²)	Mass (g)
CPOCG	12	0.2	0.6	9	52000	7.1x10 ⁻⁸	3
	16	0.4	1	30	39000	3x10 ⁻⁷	8
	20	0.7	1.3	47	31000	7.4x10 ⁻⁷	13
	25	1.2	1.5	85	25000	2.2x10 ⁻⁶	24
	32	2.8	2	190	19000	7.3x10 ⁻⁶	48

- The allowable torque varies depending on temperature. See **P1062**
- Spacers are available separately. See **P1067**

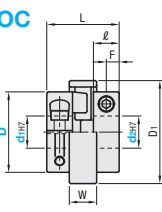
Part Number	Shaft Bore Dia. d1 (LDC)	Shaft Bore Dia. d2 (RDC)	(L/R)K
CPOCG16	LDC4.5	RDC5.5	
CPOCG25	6	10	RK3

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

Super Short Clamping



SCOC



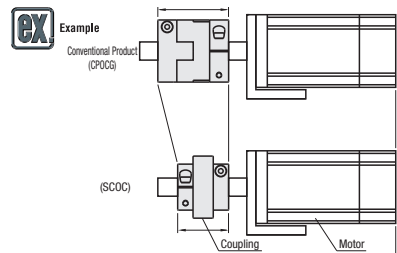
- Operating Temperature: -20°C ~ 80°C
- Tolerances for d1 and d2 are values before slit machining.
- The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
- For the selection criteria and alignment procedures, see **P1061**
- 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		d1, d2 Selection (d1≤d2)										Clamp Screw		Unit Price
Type	D											M	Tightening Torque (N·m)	
SCOC	12	3	4	5								6	14.9	5
	16	3	4	5	6							8	21	7
	20			5	6	6.35	7	8				10	22.1	
	25					6.35	7	8	10			14	27.2	8
	32						8	10	11	12	14	18	33.3	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·m²)	Mass (g)
SCOC	12	0.3	0.3	18	12000	0.1x10 ⁻⁴	4
	16	0.8	0.5	55	9000	0.42x10 ⁻⁴	9
	20	1.0	1.0	95	6000	1.05x10 ⁻⁴	15
	25	1.6	1.2	162	5000	3.04x10 ⁻⁴	28

Part Number	Shaft Bore Dia. d1	Shaft Bore Dia. d2
SCOC25	8	10



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

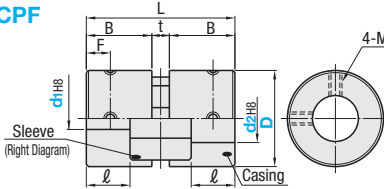
Sleeved Couplings / Jaw & Spider Couplings

Set Screw

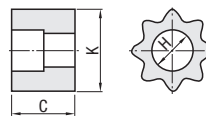
Sleeved Set Screw



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 Oxide Treatment for CPF32)	Set Screw
Sleeve	Polyurethane (Orange)	-	-

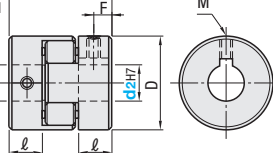
- The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
- For the selection criteria and alignment procedures, see **P1061**

Jaw & Spider, Set Screw

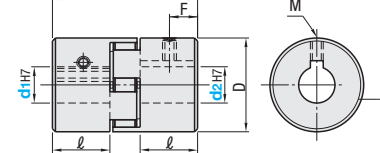


CPJLW

(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 **P1061**

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

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

Part Number		d1, d2 Selection (d1≤d2)										D	L	ℓ	F	Set Screw		Unit Price
Type	No.															M	Tightening Torque (N·m)	
CPJLW	50		10	11	12	14	15	16				27.3	43.4	15.6		8	M6	5
	70			11	12	14	15	16	17	18	19	34.4	50.2	19				
	75				14	15	16	17	18	19	20	44.5	54.1	20.7				
	90								18	19	20	53.6	54.6	20.7		11.2	M8	7
	95								18	19	20	53.6	63.8	25.3				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)
Type	D							
CPF	16	0.5	2	0.2	4.4	39000	9x10 ⁻⁷	22
	20	1			9.5	31000	2.7x10 ⁻⁶	42
	25	1.5			20	25000	8.1x10 ⁻⁶	81
	32	3			52	19000	2.5x10 ⁻⁵	150

The allowable torque varies depending on temperature. See **P1062**

Features (CPF)

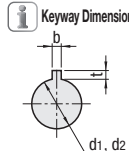
- The torque is conveyed by the serrations engagement on the sleeve. A flexible coupling with a simple structure.
- Excellent in flexibility with high tolerances to lateral/angular misalignments, and absorbs torsional vibrations.
- Serrations engage with high accuracy and has significantly small backlash.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



Part Number	Shaft Bore Dia. d1	Shaft Bore Dia. d2
CPF20	10	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.)



Shaft Bore Dia. d1, d2	b Reference Dia.	t Reference Dia.	Key Nominal Dim. b×h
10	±0.0125	1.4	3x3
11, 12	±0.0150	1.8	4x4
14~17	±0.0150	2.3	5x5
18~22	±0.0180	2.8	6x6
24~28	±0.0180	3.3	8x7



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

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