Couplings

Jaw Clamping

Features: By changing the types of spacer, allowable torque depending on application and misalignment can be altered.

Couplings – Jaw Clamping

RoHS10

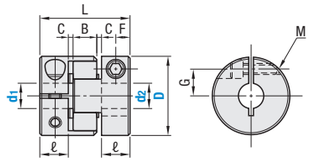
(D=14 • 20 • 30 • 40)

Selectable	Color	Hardness JIS A
BL	Blue	80
WH	White	92
RD	Red	98

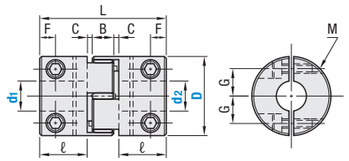
(D=48 • 55 • 65 • 80 • 104)

Selectable	Color	Hardness JIS A
GR	Green	55D (98A)
RD	Red	64D

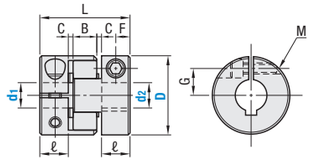
CPJC (Standard Bore)
(D=14, 20, 30)



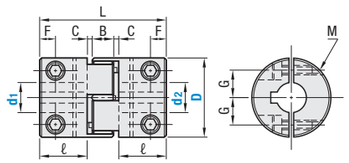
CPJC (Standard Bore)
(D=40)



CPJCK (Keywayed Bore d_1, d_2)
(D=30)



CPJCK (Keywayed Bore d_1, d_2)
(D=40)



- Operating Temperature -20–60ºC
- The lateral, angular, and axial misalignment values shown are for each occuring individually. When more than one misalignments are occuring simultaneously, the allowable maximum value of each will be reduced to 1/2.
- For the selection criteria and alignment procedures, see **P.1091, 1093**.

Parts	Material	Surface Treatment
Hub	Aluminum Alloy	Clear Anodize
Spacers	Polyurethane	—
Hex Socket Head Cap Screw	4137 Alloy Steel	Black Oxide Coating

Part Number Type	D	Spacers (Color)	d_1, d_2 ($d_1 \le d_2$)	L	L	B	C	F	Set Screw M	Set Screw Tightening Torque (N·m)
CPJC	14	BL (Blue) WH (White) RD (Red)	3 4 5	22	7	6	1	3.5	M2	0.5
	20		5 6 6.35 7 8	30	10	8		5	M2.5	1
	30		7 8 9.525 10 11 12	35	11	10	1.5	5.5	M4	2.5
	40		10 11 12 14 15 16	66	25	12	2	8.5	M5	4
	48	GR (Green) RD (Red)	10 12 14 15 16 18 19 20 22 24	66.8	25.3	13	1.6	9	M6	13
	55		12 14 15 16 18 19 20 22 24 25 26 28	78.3	30.3	14	1.9	10.5	M6	13
	65		15 16 18 19 20 22 24 25 26 28 30 32 35	90.3	35.3	15	2.4	12.45	M8	30
	80		15 16 18 19 20 22 24 25 26 28 30 32 35 40 45	114.2	45.2	18	2.9	14.7	M10	50
	104		20 22 24 25 26 28 30 32 35 40 45 50 60	140.2	56.2	21	3.4	19.9	M12	90

Part Number Type	D	Spacers (Color)	d_1, d_2 ($d_1 \le d_2$)	L	L	B	C	F	Set Screw M	Set Screw Tightening Torque (N·m)
CPJCK	30	BL (Blue) WH (White) RD (Red)	10 11 12	35	11	10	1.5	5.5	M4	2.5
	40		10 11 12 14 15 16	66	25	12	2	8.5	M5	4
	48	GR (Green) RD (Red)	18 19 20 22 24	66.8	25.3	13	1.6	9	M6	13
	55		18 19 20 22 24 25 26 28	78.3	30.3	14	1.9	10.5	M6	13
	65		18 19 20 22 24 25 26 28 30 32 35	90.3	35.3	15	2.4	12.45	M8	30
	80		18 19 20 22 24 25 26 28 30 32 35 40 45	114.2	45.2	18	2.9	14.7	M10	50
	104		20 22 24 25 26 28 30 32 35 40 45 50 60	140.2	56.2	21	3.4	19.9	M12	90

There's more on the web: misumiusa.com

Couplings

Jaw Clamping, *continued*

Part Number Type	D	Allow. Torque (N·m) BL	WH	RD	GR	Angular Misalign. (°)	Lateral Misalign. (mm) BL	WH	RD	GR	Static Torsional Spring Constant (N·m/rad) BL	WH	RD	GR	Max. Rotational Speed (r/min)	Inertia Moment of Inertia (Kg·m²)	Allow. Axial Misalign. (mm)	Mass (g)
CPJC	14	0.7	1.2	2	—	1	0.15	0.10	0.1	—	8	14	22	—	45000	1.6×10^{-7}	+0.6 0	6
	20	1.8	3	5			0.20	0.15			16	29	55		31000	1.1×10^{-6}	+0.8 0	19
	30	4	7.5	12.5			0.20	0.15			46	73	130		21000	6.2×10^{-6}	+1.0 0	50
	40	4.9	10	17			0.15	0.10			380	570	1200		15000	3.9×10^{-5}	+1.2 0	160
	48	—	—	45	35	1	—	—	0.05	0.08	—	—	3600	1800	7000	8.2×10^{-5}	+1.3 −0.6	224
	55			60	45				0.06	0.09			4000	2500	6500	1.6×10^{-4}	+1.4 −0.5	330
	65			180	120				0.08	0.1			8000	4000	5500	3.8×10^{-4}	+1.5 −0.6	560
	80			320	240				0.08	0.1			20000	10000	4500	1.0×10^{-3}	+1.5 −0.6	1050
	104			600	300				0.1	0.15			40000	20000	3500	4.6×10^{-3}	+2.0 −0.6	2550

- The allowable torque varies depending on temperature. See **P.1091**.

Part Number Type	D	Allow. Torque (N·m) BL	WH	RD	GR	Angular Misalign. (°)	Lateral Misalign. (mm) BL	WH	RD	GR	Static Torsional Spring Constant (N·m/rad) BL	WH	RD	GR	Max. Rotational Speed (r/min)	Inertia Moment of Inertia (Kg·m²)	Allow. Axial Misalign. (mm)	Mass (g)
CPJCK	30	4	7.5	12.5	—	1	0.20	0.15	0.10	—	46	73	130	—	21000	4.2×10^{-6}	+1.0 0	50
	40	4.9	10	17			0.15	0.10			380	570	1200		15000	3.7×10^{-5}	+1.2 0	160
	48	—	—	45	35	1	—	—	0.05	0.08	—	—	3600	1800	7000	8.2×10^{-5}	+1.3 −0.6	224
	55			60	45				0.06	0.09			4000	2500	6500	1.6×10^{-4}	+1.4 −0.5	330
	65			180	120				0.08	0.1			8000	4000	5500	3.8×10^{-4}	+1.5 −0.6	560
	80			320	240				0.08	0.1			20000	10000	4500	1.0×10^{-3}	+1.5 −0.6	1050
	104			600	300				0.1	0.15			40000	20000	3500	4.6×10^{-3}	+2.0 −0.6	2550

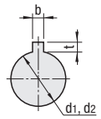
Spacer is press-fitted into the body.

Part Number Example

Part Number	-	Spacers	-	Shaft Bore Dia. d_1	-	Shaft Bore Dia. d_2
CPJC30	-	BL	-	10	-	11

Keyway Dimension

- Applicable to CPJCK only.

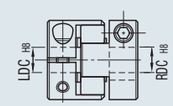


Shaft Bore Dia. d_1, d_2	b Dim.	b Tolerance	t Dim.	t Tolerance	Key Nominal Dimension b x h
10–12	4	±0.0150	1.8	+0.1 0	4×4
13–17	5		2.3		5×5
18–22	6		2.8		6×6
23–30	8	±0.0180	3.3	+0.2 0	8×7
31–38	10		3.3		10×8
39–44	12	±0.0215	3.3		12×8
45–50	14		3.8		14×9
51–58	16		4.3		16×10
59–60	18		4.4		18×11

Part Number Alterations

Part Number	-	Spacers	-	Shaft Bore Dia. d_1 (LDC)	-	Shaft Bore Dia. d_2 (RDC)
CPJC14	-	WH	-	LDC3.5	-	RDC4.5

- Applicable to CPJC only.

Alterations	Code	Spec.
Shaft Bore Dia. 	LDC (Left Shaft)	1mm Increment 3.175, 4.5, 9, 12.7, and 15.875 are available sizes. (D / LDC, RDC: 14 / 3– 5; 20 / 5– 8; 30 / 7–12) **Ordering Code:** LDC3.175 RDC9
	RDC (Right Shaft)	Tolerances for LDC and RDC are values before slitting. Not applicable to CPJCK. D48–104 cannot be changed.

Check out misumiusa.com for the most current pricing and lead time.