

Couplings

—Jaw—



The Jaw Couplings are often the choice for pumps and line-shaft applications. Due to its design, the two shafts that are coupled can be separated without removing the hubs from the shafts. The actual torque and misalignment capacity will depend on the size and material of the sleeve part. The Jaw Couplings are not recommended for precision motion control applications, however since the sleeve is press-fitted into the hub it can be very accurate when applying small torque.

| Material | | Surface Treatment | Type |
|----------|----------------|-------------------|--------|
| Body | Aluminum Alloy | Clear Anodizing | U-CPJC |
| Sleeves | Polyurethane | - | |

Included Hardware: S.H.C.S.

Operating Temperature: -4~140°F (-20~60°C)
 Declination, Eccentricity, End Play are independent allowances for all couplings. The allowances decrease when there are multiple misalignments.

D=14, 20, 30

D=40

Sleeve Shapes

| Part No. | D | | Sleeves (Color Selection) | L, R Selection (Callout, L < R) | | | | | | | | | | | | |
|----------|--------------|---------------|-------------------------------------|---------------------------------|-----|-----|-----|-----|-------------|-----|-----|------|------|------|------|--|
| | Callout (mm) | Diameter (in) | | Inch Bore | | | | | Metric Bore | | | | | | | |
| | | | | 3/16 | 1/4 | 3/8 | 1/2 | 5/8 | 5mm | 6mm | 8mm | 10mm | 12mm | 14mm | 16mm | |
| U-CPJC | 14 | 0.551 | BL (Blue) WH (White) RD (Red) | 0.19 | | | | | 5 | | | | | | | |
| | 20 | 0.787 | | 0.25 | | | | | 5 6 8 | | | | | | | |
| | 30 | 1.181 | | 0.38 | | | | | 8 10 12 | | | | | | | |
| | 40 | 1.575 | | 0.50 0.63 | | | | | 10 12 14 16 | | | | | | | |

Order Example The part number consists only of the fields with blue characters. Please refer to the table below for technical information.

Part No. — Sleeves — L — R

Type D
 U-CPJC 40 — BL — L0.50 — R14 (One End Inch Bore The Other End Metric Bore)
 U-CPJC 40 — BL — L0.50 — R0.63 (Both End Inch Bore)
 U-CPJC 40 — BL — L10 — R14 (Both End Metric Bore)

When you create the part number and the shaft sizes are different, remember that the smaller Callout should always be L and larger R.

Technical Information

| L, R Inch Bore | | | | |
|-------------------|--------------|----------------|----------------|--------|
| Callout (in) | Nominal (in) | Dimension (in) | Tolerance (in) | |
| 0.19 | 3/16 | 0.1875 | 0.1882 | 0.1875 |
| 0.25 | 1/4 | 0.2500 | 0.2509 | 0.2500 |
| 0.38 | 3/8 | 0.3750 | 0.3759 | 0.3750 |
| 0.50 | 1/2 | 0.5000 | 0.5011 | 0.5000 |
| 0.63 | 5/8 | 0.6250 | 0.6261 | 0.6250 |

L and R tolerance are verified before the slit machining process.

| L, R Metric Bore | | | | |
|---------------------|-------------|----------------|----------------|--------|
| Callout (mm) | Metric Size | Dimension (in) | Tolerance (in) | |
| 5 | 5mm | 0.1969 | 0.1976 | 0.1969 |
| 6 | 6mm | 0.2362 | 0.2369 | 0.2362 |
| 8 | 8mm | 0.3150 | 0.3158 | 0.3150 |
| 10 | 10mm | 0.3937 | 0.3946 | 0.3937 |
| 12 | 12mm | 0.4724 | 0.4735 | 0.4724 |
| 14 | 14mm | 0.5512 | 0.5522 | 0.5512 |
| 16 | 16mm | 0.6299 | 0.6310 | 0.6299 |

| D | Y | ℓ | B | C | F | G | T (Clamping Bolts) | |
|----|-------|------|------|------|------|------|--------------------|----------------------------|
| | | | | | | | Size (mm) | Tightening Torque (lbf-in) |
| 14 | 0.551 | 0.87 | 0.28 | 0.04 | 0.14 | 0.16 | M2 | 4.43 |
| 20 | 0.787 | 1.18 | 0.39 | 0.04 | 0.20 | 0.26 | M2.5 | 8.85 |
| 30 | 1.181 | 1.38 | 0.43 | 0.06 | 0.22 | 0.39 | M4 | 22.13 |
| 40 | 1.575 | 2.60 | 0.98 | 0.08 | 0.33 | 0.55 | M5 | 35.40 |

| D (mm) | Operating Torque (lb-in) | | | Max Rev. (rpm) | Allowed Misalignment | | | Torsional Stiffness (lb-in/deg) | | | Moment of Inertia (oz-in ²) | Mass (oz) | | |
|--------|--------------------------|------------|----------|----------------|----------------------|--------------|------------|---------------------------------|-----------------|------|---|-----------|--------|------|
| | BL (Blue) | WH (White) | RD (Red) | | Declination (deg) | Eccentricity | | | End Play (in) | | | | | |
| | | | | | | BL (Blue) | WH (White) | RD (Red) | | | | | | |
| 14 | 6.20 | 10.62 | 17.70 | 11000 | 1.0 | 0.006 | 0.004 | 0.004 | +0.024 -0.00 | 1.2 | 2.2 | 3.4 | 0.0088 | 0.21 |
| 20 | 15.93 | 26.55 | 44.26 | 7600 | 1.0 | 0.008 | 0.006 | 0.004 | +0.032 -0.00 | 2.5 | 4.5 | 8.5 | 0.0601 | 0.67 |
| 30 | 35.40 | 66.38 | 110.64 | 5100 | 1.0 | 0.008 | 0.006 | 0.004 | +0.040 -0.00 | 7.1 | 11.3 | 20.1 | 0.3390 | 1.76 |
| 40 | 43.37 | 88.51 | 150.47 | 3800 | 1.0 | 0.006 | 0.004 | 0.004 | +0.048 -0.00 | 58.7 | 88.1 | 185.4 | 2.1321 | 5.64 |

Maximum torque is twice the operating torque.

Sleeve is press-fitted into the body.



Standard 6 Days

Express

4 Days (Specify Express A) \$ 2.00/piece P.30

Non-Returnable P.30

A flat charge of \$5.40 for 3 or more identical pieces.



Quantity Discount Rate

| Quantity | 1-4 | 5-9 | 10-19 | 20- |
|----------|-----|-----|-------|-----|
| Rate | — | 5% | 10% | 15% |

For larger quantity orders "Days to Ship" may differ from published catalog term. P.29



| D | \$ Unit Price (Qty. 1-4) |
|----|--------------------------|
| 14 | 23.00 |
| 20 | 26.10 |
| 30 | 31.10 |
| 40 | 48.10 |

