



Rigid Couplings & Shaft Collars



 **Guardian Couplings®**
Altra Industrial Motion

ONE-PIECE CLAMPING COLLARS – C1 SERIES



- Design fully engages the shaft without marring
- Greater axial holding power than set screw collars
- Effective on hard and soft shafts

- * Dimension: Inch
- * Tolerance: +.003/- .000
- * Screw lengths are for steel only
- * Weights are approximate
- * C1-Series Bore sizes 1 9/16" through 3" do not have a relief cut

| Black Oxide Steel | T303 Stainless Steel | Aluminum | Bore Size | OD | Width | Clamp Screw | Box Qty | Weight* (Ounce) |
|-------------------|----------------------|----------|-----------|--------|-------|--------------|---------|-----------------|
| C1-B-2 | C1-S-2 | C1-A-2 | 1/8 | 11/16 | 5/16 | 4-40 x 3/8 | 20 | 0.44 |
| C1-B-3 | C1-S-3 | C1-A-3 | 3/16 | 11/16 | 5/16 | 4-40 x 3/8 | 20 | 0.43 |
| C1-B-4 | C1-S-4 | C1-A-4 | 1/4 | 11/16 | 5/16 | 4-40 x 3/8 | 20 | 0.40 |
| C1-B-5 | C1-S-5 | C1-A-5 | 5/16 | 11/16 | 5/16 | 4-40 x 3/8 | 20 | 0.36 |
| C1-B-6 | C1-S-6 | C1-A-6 | 3/8 | 7/8 | 3/8 | 6-32 x 3/8 | 20 | 0.70 |
| C1-B-7 | C1-S-7 | C1-A-7 | 7/16 | 15/16 | 3/8 | 6-32 x 3/8 | 20 | 0.81 |
| C1-B-8 | C1-S-8 | C1-A-8 | 1/2 | 1 1/8 | 13/32 | 8-32 x 1/2 | 20 | 1.30 |
| C1-B-9 | C1-S-9 | C1-A-9 | 9/16 | 1 5/16 | 7/16 | 10-32 x 1/2 | 20 | 2.00 |
| C1-B-10 | C1-S-10 | C1-A-10 | 5/8 | 1 5/16 | 7/16 | 10-32 x 1/2 | 20 | 1.80 |
| C1-B-11 | C1-S-11 | C1-A-11 | 11/16 | 1 1/2 | 1/2 | 10-32 x 1/2 | 20 | 2.90 |
| C1-B-12 | C1-S-12 | C1-A-12 | 3/4 | 1 1/2 | 1/2 | 1/4-28 x 5/8 | 20 | 2.70 |
| C1-B-13 | C1-S-13 | C1-A-13 | 13/16 | 1 5/8 | 1/2 | 1/4-28 x 5/8 | 20 | 3.20 |
| C1-B-14 | C1-S-14 | C1-A-14 | 7/8 | 1 5/8 | 1/2 | 1/4-28 x 5/8 | 20 | 2.96 |
| C1-B-15 | C1-S-15 | C1-A-15 | 15/16 | 1 3/4 | 1/2 | 1/4-28 x 5/8 | 20 | 3.51 |
| C1-B-16 | C1-S-16 | C1-A-16 | 1 | 1 3/4 | 1/2 | 1/4-28 x 5/8 | 20 | 3.30 |
| C1-B-17 | C1-S-17 | C1-A-17 | 1 1/16 | 1 7/8 | 1/2 | 1/4-28 x 5/8 | 10 | 3.90 |
| C1-B-18 | C1-S-18 | C1-A-18 | 1 1/8 | 1 7/8 | 1/2 | 1/4-28 x 3/4 | 10 | 3.63 |
| C1-B-19 | C1-S-19 | C1-A-19 | 1 3/16 | 2 1/16 | 1/2 | 1/4-28 x 3/4 | 10 | 4.70 |
| C1-B-20 | C1-S-20 | C1-A-20 | 1 1/4 | 2 1/16 | 1/2 | 1/4-28 x 3/4 | 10 | 4.40 |
| C1-B-21 | C1-S-21 | C1-A-21 | 1 5/16 | 2 1/4 | 9/16 | 1/4-28 x 3/4 | 10 | 6.19 |
| C1-B-22 | C1-S-22 | C1-A-22 | 1 3/8 | 2 1/4 | 9/16 | 1/4-28 x 3/4 | 10 | 5.90 |
| C1-B-23 | C1-S-23 | C1-A-23 | 1 7/16 | 2 1/4 | 9/16 | 1/4-28 x 3/4 | 10 | 5.50 |
| C1-B-24 | C1-S-24 | C1-A-24 | 1 1/2 | 2 3/8 | 9/16 | 1/4-28 x 3/4 | 10 | 6.30 |
| C1-B-25 | C1-S-25 | C1-A-25 | 1 9/16 | 2 3/8 | 9/16 | 1/4-28 x 3/4 | 10 | 5.90 |
| C1-B-26 | C1-S-26 | C1-A-26 | 1 5/8 | 2 5/8 | 11/16 | 5/16-24 x 1 | 5 | 9.65 |
| C1-B-27 | C1-S-27 | C1-A-27 | 1 11/16 | 2 3/4 | 11/16 | 5/16-24 x 1 | 5 | 10.70 |
| C1-B-28 | C1-S-28 | C1-A-28 | 1 3/4 | 2 3/4 | 11/16 | 5/16-24 x 1 | 5 | 10.20 |
| C1-B-30 | C1-S-30 | C1-A-30 | 1 7/8 | 2 7/8 | 11/16 | 5/16-24 x 1 | 5 | 10.90 |
| C1-B-31 | C1-S-31 | C1-A-31 | 1 15/16 | 3 | 11/16 | 5/16-24 x 1 | 5 | 12.00 |
| C1-B-32 | C1-S-32 | C1-A-32 | 2 | 3 | 11/16 | 5/16-24 x 1 | 5 | 11.60 |
| C1-B-34 | C1-S-34 | C1-A-34 | 2 1/8 | 3 1/4 | 3/4 | 5/16-24 x 1 | 5 | 15.20 |
| C1-B-35 | C1-S-35 | C1-A-35 | 2 3/16 | 3 1/4 | 3/4 | 5/16-24 x 1 | 5 | 14.40 |
| C1-B-36 | C1-S-36 | C1-A-36 | 2 1/4 | 3 1/4 | 3/4 | 5/16-24 x 1 | 5 | 13.66 |
| C1-B-38 | C1-S-38 | C1-A-38 | 2 3/8 | 3 1/2 | 3/4 | 5/16-24 x 1 | 5 | 16.50 |
| C1-B-39 | C1-S-39 | C1-A-39 | 2 7/16 | 3 1/2 | 3/4 | 5/16-24 x 1 | 5 | 15.60 |
| C1-B-40 | C1-S-40 | C1-A-40 | 2 1/2 | 3 3/4 | 7/8 | 3/8-24 x 1 | 5 | 23.10 |
| C1-B-42 | C1-S-42 | C1-A-42 | 2 5/8 | 3 7/8 | 7/8 | 3/8-24 x 1 | 5 | 23.90 |
| C1-B-43 | C1-S-43 | C1-A-43 | 2 11/16 | 4 | 7/8 | 3/8-24 x 1 | 5 | 25.80 |
| C1-B-44 | C1-S-44 | C1-A-44 | 2 3/4 | 4 | 7/8 | 3/8-24 x 1 | 5 | 29.20 |
| C1-B-46 | C1-S-46 | C1-A-46 | 2 7/8 | 4 1/4 | 7/8 | 3/8-24 x 1 | 5 | 29.20 |
| C1-B-47 | C1-S-47 | C1-A-47 | 2 15/16 | 4 1/4 | 7/8 | 3/8-24 x 1 | 5 | 28.00 |
| C1-B-48 | C1-S-48 | C1-A-48 | 3 | 4 1/4 | 7/8 | 3/8-24 x 1 | 5 | 26.80 |
| C1-B-51 | C1-S-51 | C1-A-51 | 3 3/16 | 4 1/2 | 7/8 | 3/8-24 x 1 | 5 | 28.30 |
| C1-B-52 | C1-S-52 | C1-A-52 | 3 1/4 | 4 1/2 | 7/8 | 3/8-24 x 1 | 5 | 27.30 |
| C1-B-55 | C1-S-55 | C1-A-55 | 3 7/16 | 4 3/4 | 7/8 | 3/8-24 x 1 | 5 | 31.00 |
| C1-B-56 | C1-S-56 | C1-A-56 | 3 1/2 | 4 3/4 | 7/8 | 3/8-24 x 1 | 5 | 29.10 |
| C1-B-63 | C1-S-63 | C1-A-63 | 3 15/16 | 5 1/4 | 7/8 | 3/8-24 x 1 | 5 | 35.00 |
| C1-B-64 | C1-S-64 | C1-A-64 | 4 | 5 1/4 | 7/8 | 3/8-24 x 1 | 5 | 33.00 |

TWO-PIECE CLAMPING COLLARS – C2 SERIES



- Design fully engages the shaft without marring
- Effective on hard and soft shafts
- Easily installed where major disassembly would otherwise be required
- Greater axial holding power than set screw or one-piece clamping collars

* Dimension: Inch
 * Tolerance: +.003/-.000
 * Screw lengths are for steel only
 * Weights are approximate
 * C2-B-51 through C2-B-96 do not have recessed screws
 * C2-S-51 through C2-S-96 do not have recessed screws

| Black Oxide Steel | T303 Stainless Steel | Aluminum | Bore Size | OD | Width | Clamp Screw | Box Qty | Weight* (Ounce) |
|-------------------|----------------------|----------|-----------|--------|-------|--------------|---------|-----------------|
| C2-B-2 | C2-S-2 | C2-A-2 | 1/8 | 11/16 | 5/16 | 4-40 x 3/8 | 20 | 0.43 |
| C2-B-3 | C2-S-3 | C2-A-3 | 3/16 | 11/16 | 5/16 | 4-40 x 3/8 | 20 | 0.39 |
| C2-B-4 | C2-S-4 | C2-A-4 | 1/4 | 11/16 | 5/16 | 4-40 x 3/8 | 20 | 0.38 |
| C2-B-5 | C2-S-5 | C2-A-5 | 5/16 | 11/16 | 5/16 | 4-40 x 3/8 | 20 | 0.34 |
| C2-B-6 | C2-S-6 | C2-A-6 | 3/8 | 7/8 | 3/8 | 6-32 x 3/8 | 20 | 0.71 |
| C2-B-7 | C2-S-7 | C2-A-7 | 7/16 | 15/16 | 3/8 | 6-32 x 3/8 | 20 | 0.76 |
| C2-B-8 | C2-S-8 | C2-A-8 | 1/2 | 1 1/8 | 13/32 | 8-32 x 1/2 | 20 | 1.26 |
| C2-B-9 | C2-S-9 | C2-A-9 | 9/16 | 1 5/16 | 7/16 | 10-32 x 1/2 | 20 | 2.00 |
| C2-B-10 | C2-S-10 | C2-A-10 | 5/8 | 1 5/16 | 7/16 | 10-32 x 1/2 | 20 | 1.80 |
| C2-B-11 | C2-S-11 | C2-A-11 | 11/16 | 1 1/2 | 1/2 | 10-32 x 1/2 | 20 | 2.80 |
| C2-B-12 | C2-S-12 | C2-A-12 | 3/4 | 1 1/2 | 1/2 | 1/4-28 x 5/8 | 20 | 2.60 |
| C2-B-13 | C2-S-13 | C2-A-13 | 13/16 | 1 5/8 | 1/2 | 1/4-28 x 5/8 | 20 | 3.10 |
| C2-B-14 | C2-S-14 | C2-A-14 | 7/8 | 1 5/8 | 1/2 | 1/4-28 x 5/8 | 20 | 2.83 |
| C2-B-15 | C2-S-15 | C2-A-15 | 15/16 | 1 3/4 | 1/2 | 1/4-28 x 5/8 | 20 | 3.40 |
| C2-B-16 | C2-S-16 | C2-A-16 | 1 | 1 3/4 | 1/2 | 1/4-28 x 5/8 | 20 | 3.10 |
| C2-B-17 | C2-S-17 | C2-A-17 | 1 1/16 | 1 7/8 | 1/2 | 1/4-28 x 5/8 | 10 | 3.67 |
| C2-B-18 | C2-S-18 | C2-A-18 | 1 1/8 | 1 7/8 | 1/2 | 1/4-28 x 3/4 | 10 | 3.50 |
| C2-B-19 | C2-S-19 | C2-A-19 | 1 3/16 | 1 3/16 | 1/2 | 1/4-28 x 3/4 | 10 | 4.50 |
| C2-B-20 | C2-S-20 | C2-A-20 | 1 1/4 | 1 3/16 | 1/2 | 1/4-28 x 3/4 | 10 | 4.22 |
| C2-B-21 | C2-S-21 | C2-A-21 | 1 5/16 | 2 1/4 | 9/16 | 1/4-28 x 3/4 | 10 | 5.90 |
| C2-B-22 | C2-S-22 | C2-A-22 | 1 3/8 | 2 1/4 | 9/16 | 1/4-28 x 3/4 | 10 | 5.70 |
| C2-B-23 | C2-S-23 | C2-A-23 | 1 7/16 | 2 1/4 | 9/16 | 1/4-28 x 3/4 | 10 | 5.23 |
| C2-B-24 | C2-S-24 | C2-A-24 | 1 1/2 | 2 3/8 | 9/16 | 1/4-28 x 3/4 | 10 | 6.06 |
| C2-B-25 | C2-S-25 | C2-A-25 | 1 9/16 | 2 3/8 | 9/16 | 1/4-28 x 3/4 | 10 | 5.61 |
| C2-B-26 | C2-S-26 | C2-A-26 | 1 5/8 | 2 5/8 | 11/16 | 5/16-24 x 1 | 5 | 9.31 |
| C2-B-27 | C2-S-27 | C2-A-27 | 1 11/16 | 2 3/4 | 11/16 | 5/16-24 x 1 | 5 | 9.86 |
| C2-B-28 | C2-S-28 | C2-A-28 | 1 3/4 | 2 3/4 | 11/16 | 5/16-24 x 1 | 5 | 11.00 |
| C2-B-30 | C2-S-30 | C2-A-30 | 1 7/8 | 2 7/8 | 11/16 | 5/16-24 x 1 | 5 | 10.46 |
| C2-B-31 | C2-S-31 | C2-A-31 | 1 15/16 | 3 | 11/16 | 5/16-24 x 1 | 5 | 11.57 |
| C2-B-32 | C2-S-32 | C2-A-32 | 2 | 3 | 11/16 | 5/16-24 x 1 | 5 | 11.00 |
| C2-B-34 | C2-S-34 | C2-A-34 | 2 1/8 | 3 1/4 | 3/4 | 5/16-24 x 1 | 5 | 15.00 |
| C2-B-35 | C2-S-35 | C2-A-35 | 2 3/16 | 3 1/4 | 3/4 | 5/16-24 x 1 | 5 | 14.00 |
| C2-B-36 | C2-S-36 | C2-A-36 | 2 1/4 | 3 1/4 | 3/4 | 5/16-24 x 1 | 5 | 13.10 |
| C2-B-37 | C2-S-37 | C2-A-37 | 2 5/16 | 3 1/2 | 3/4 | 5/16-24 x 1 | 5 | 15.90 |
| C2-B-38 | C2-S-38 | C2-A-38 | 2 3/8 | 3 1/2 | 3/4 | 5/16-24 x 1 | 5 | 15.20 |
| C2-B-39 | C2-S-39 | C2-A-39 | 2 7/16 | 3 1/2 | 3/4 | 5/16-24 x 1 | 5 | 15.30 |
| C2-B-40 | C2-S-40 | C2-A-40 | 2 1/2 | 3 3/4 | 7/8 | 3/8-24 x 1 | 5 | 22.30 |
| C2-B-42 | C2-S-42 | C2-A-42 | 2 5/8 | 3 7/8 | 7/8 | 3/8-24 x 1 | 5 | 24.00 |
| C2-B-43 | C2-S-43 | C2-A-43 | 2 11/16 | 4 | 7/8 | 3/8-24 x 1 | 5 | 25.00 |
| C2-B-44 | C2-S-44 | C2-A-44 | 2 3/4 | 4 | 7/8 | 3/8-24 x 1 | 5 | 24.00 |
| C2-B-46 | C2-S-46 | C2-A-46 | 2 7/8 | 4 1/4 | 7/8 | 3/8-24 x 1 | 5 | 29.00 |
| C2-B-47 | C2-S-47 | C2-A-47 | 2 15/16 | 4 1/4 | 7/8 | 3/8-24 x 1 | 5 | 26.50 |
| C2-B-48 | C2-S-48 | C2-A-48 | 3 | 4 1/4 | 7/8 | 3/8-24 x 1 | 5 | 25.80 |
| C2-B-51 | C2-S-51 | C2-A-51 | 3 3/16 | 4 1/2 | 7/8 | 3/8-24 x 1 | 5 | 28.30 |
| C2-B-52 | C2-S-52 | C2-A-52 | 3 1/4 | 4 1/2 | 7/8 | 3/8-24 x 1 | 5 | 27.30 |
| C2-B-55 | C2-S-55 | C2-A-55 | 3 7/16 | 4 3/4 | 7/8 | 3/8-24 x 1 | 5 | 31.00 |
| C2-B-56 | C2-S-56 | C2-A-56 | 3 1/2 | 4 3/4 | 7/8 | 3/8-24 x 1 | 5 | 29.10 |
| C2-B-60 | C2-S-60 | C2-A-60 | 3 3/4 | 5 | 7/8 | 3/8-24 x 1 | 5 | 32.00 |
| C2-B-63 | C2-S-63 | C2-A-63 | 3 15/16 | 5 1/4 | 7/8 | 3/8-24 x 1 | 5 | 35.00 |
| C2-B-64 | C2-S-64 | C2-A-64 | 4 | 5 1/4 | 7/8 | 3/8-24 x 1 | 5 | 33.00 |
| C2-B-68 | C2-S-68 | C2-A-68 | 4 1/4 | 5 1/2 | 7/8 | 3/8-24 x 1 | 5 | 35.00 |
| C2-B-71 | C2-S-71 | C2-A-71 | 4 7/16 | 5 3/4 | 7/8 | 3/8-24 x 1 | 5 | 38.50 |
| C2-B-72 | C2-S-72 | C2-A-72 | 4 1/2 | 5 3/4 | 7/8 | 3/8-24 x 1 | 5 | 36.00 |
| C2-B-79 | C2-S-79 | C2-A-79 | 4 15/16 | 6 1/4 | 7/8 | 3/8-24 x 1 | 5 | 42.50 |
| C2-B-80 | C2-S-80 | C2-A-80 | 5 | 6 1/4 | 7/8 | 3/8-24 x 1 | 5 | 40.10 |
| C2-B-84 | C2-S-84 | C2-A-84 | 5 1/4 | 6 3/4 | 7/8 | 3/8-24 x 1 | 5 | 42.00 |
| C2-B-88 | C2-S-88 | C2-A-88 | 5 1/2 | 6 3/4 | 7/8 | 3/8-24 x 1 | 5 | 43.30 |
| C2-B-95 | C2-S-95 | C2-A-95 | 5 15/16 | 7 1/4 | 7/8 | 3/8-24 x 1 | 1 | 50.30 |
| C2-B-96 | C2-S-96 | C2-A-96 | 6 | 7 1/4 | 7/8 | 3/8-24 x 1 | 1 | 47.60 |

METRIC CLAMPING COLLARS – C1M SERIES & C2M SERIES



- Design fully engages the shaft without marring or other damage
- Two-piece collars are easily installed where major disassembly would otherwise be required
- Greater axial holding power than set screw collars
- Effective on hard and soft shafts

* Dimension: Millimeter

* Tolerance: +.08mm/-.00mm

* Weights are approximate

* C1M-40 through C1M-80 do not have a relief cut

| Black Oxide Steel (1-Piece) | Black Oxide Steel (2-Piece) | Stainless Steel (1-Piece) | Stainless Steel (2-Piece) | Bore Size (mm) | OD (inch) | Width (mm) | Clamp Screw | Box Qty | Weight* (1-Piece) | Weight* (2-Piece) |
|-----------------------------|-----------------------------|---------------------------|---------------------------|----------------|-----------|------------|-------------|---------|-------------------|-------------------|
| C1M-B-3 | C2M-B-3 | C1M-S-3 | C2M-S-3 | 3 | 11/16 | 9 | M3 x 8 | 100 | 0.40 | 0.40 |
| C1M-B-4 | C2M-B-4 | C1M-S-4 | C2M-S-4 | 4 | 11/16 | 9 | M3 x 8 | 100 | 0.40 | 0.40 |
| C1M-B-5 | C2M-B-5 | C1M-S-5 | C2M-S-5 | 5 | 11/16 | 9 | M3 x 8 | 100 | 0.41 | 0.41 |
| C1M-B-6 | C2M-B-6 | C1M-S-6 | C2M-S-6 | 6 | 3/4 | 9 | M3 x 8 | 100 | 0.48 | 0.48 |
| C1M-B-7 | C2M-B-7 | C1M-S-7 | C2M-S-7 | 7 | 3/4 | 9 | M3 x 8 | 100 | 0.47 | 0.47 |
| C1M-B-8 | C2M-B-8 | C1M-S-8 | C2M-S-8 | 8 | 1 | 9 | M3 x 10 | 100 | 0.90 | 0.90 |
| C1M-B-9 | C2M-B-9 | C1M-S-9 | C2M-S-9 | 9 | 1 | 9 | M3 x 10 | 50 | 1.00 | 1.00 |
| C1M-B-10 | C2M-B-10 | C1M-S-10 | C2M-S-10 | 10 | 1 | 9 | M3 x 10 | 50 | 1.36 | 1.36 |
| C1M-B-12 | C2M-B-12 | C1M-S-12 | C2M-S-12 | 12 | 1 1/8 | 11 | M4 x 12 | 50 | 1.40 | 1.40 |
| C1M-B-13 | C2M-B-13 | C1M-S-13 | C2M-S-13 | 13 | 1 1/4 | 11 | M4 x 12 | 50 | 1.60 | 1.60 |
| C1M-B-14 | C2M-B-14 | C1M-S-14 | C2M-S-14 | 14 | 1 1/4 | 11 | M4 x 12 | 50 | 1.60 | 1.60 |
| C1M-B-15 | C2M-B-15 | C1M-S-15 | C2M-S-15 | 15 | 1 3/8 | 13 | M5 x 16 | 50 | 2.41 | 2.41 |
| C1M-B-16 | C2M-B-16 | C1M-S-16 | C2M-S-16 | 16 | 1 3/8 | 13 | M5 x 16 | 50 | 2.30 | 2.30 |
| C1M-B-17 | C2M-B-17 | C1M-S-17 | C2M-S-17 | 17 | 1 1/2 | 13 | M5 x 16 | 50 | 2.60 | 2.60 |
| C1M-B-18 | C2M-B-18 | C1M-S-18 | C2M-S-18 | 18 | 1 1/2 | 13 | M5 x 16 | 50 | 2.50 | 2.50 |
| C1M-B-19 | C2M-B-19 | C1M-S-19 | C2M-S-19 | 19 | 1 5/8 | 15 | M6 x 16 | 50 | 3.70 | 3.70 |
| C1M-B-20 | C2M-B-20 | C1M-S-20 | C2M-S-20 | 20 | 1 5/8 | 15 | M6 x 16 | 50 | 3.60 | 3.60 |
| C1M-B-21 | C2M-B-21 | C1M-S-21 | C2M-S-21 | 21 | 1 3/4 | 15 | M6 x 16 | 50 | 4.00 | 4.00 |
| C1M-B-22 | C2M-B-22 | C1M-S-22 | C2M-S-22 | 22 | 1 3/4 | 15 | M6 x 16 | 25 | 3.90 | 3.90 |
| C1M-B-23 | C2M-B-23 | C1M-S-23 | C2M-S-23 | 23 | 1 7/8 | 15 | M6 x 16 | 25 | 4.60 | 4.60 |
| C1M-B-24 | C2M-B-24 | C1M-S-24 | C2M-S-24 | 24 | 1 7/8 | 15 | M6 x 16 | 25 | 4.30 | 4.30 |
| C1M-B-25 | C2M-B-25 | C1M-S-25 | C2M-S-25 | 25 | 1 7/8 | 15 | M6 x 16 | 25 | 4.20 | 4.20 |
| C1M-B-26 | C2M-B-26 | C1M-S-26 | C2M-S-26 | 26 | 2 | 15 | M6 x 16 | 25 | 4.90 | 4.90 |
| C1M-B-28 | C2M-B-28 | C1M-S-28 | C2M-S-28 | 28 | 2 | 15 | M6 x 16 | 25 | 4.50 | 4.50 |
| C1M-B-30 | C2M-B-30 | C1M-S-30 | C2M-S-30 | 30 | 2 1/8 | 15 | M6 x 16 | 25 | 6.11 | 6.11 |
| C1M-B-32 | C2M-B-32 | C1M-S-32 | C2M-S-32 | 32 | 2 1/8 | 15 | M6 x 16 | 25 | 6.02 | 6.02 |
| C1M-B-34 | C2M-B-34 | C1M-S-34 | C2M-S-34 | 34 | 2 1/4 | 15 | M6 x 16 | 25 | 6.20 | 6.20 |
| C1M-B-35 | C2M-B-35 | C1M-S-35 | C2M-S-35 | 35 | 2 1/4 | 15 | M6 x 16 | 25 | 6.13 | 6.13 |
| C1M-B-36 | C2M-B-36 | C1M-S-36 | C2M-S-36 | 36 | 2 1/4 | 15 | M6 x 16 | 25 | 5.90 | 5.90 |
| C1M-B-38 | C2M-B-38 | C1M-S-38 | C2M-S-38 | 38 | 2 3/8 | 15 | M6 x 16 | 25 | 5.90 | 5.90 |
| C1M-B-40 | C2M-B-40 | C1M-S-40 | C2M-S-40 | 40 | 2 3/8 | 15 | M6 x 16 | 25 | 5.90 | 5.90 |
| C1M-B-42 | C2M-B-42 | C1M-S-42 | C2M-S-42 | 42 | 2 7/8 | 19 | M8 x 25 | 10 | 14.00 | 14.00 |
| C1M-B-45 | C2M-B-45 | C1M-S-45 | C2M-S-45 | 45 | 2 7/8 | 19 | M8 x 25 | 10 | 12.90 | 12.90 |
| C1M-B-48 | C2M-B-48 | C1M-S-48 | C2M-S-48 | 48 | 3 1/8 | 19 | M8 x 25 | 10 | 14.80 | 14.80 |
| C1M-B-50 | C2M-B-50 | C1M-S-50 | C2M-S-50 | 50 | 3 1/8 | 19 | M8 x 25 | 5 | 13.80 | 13.80 |
| C1M-B-54 | C2M-B-54 | C1M-S-54 | C2M-S-54 | 54 | 3 1/4 | 19 | M8 x 25 | 5 | 14.90 | 14.90 |
| C1M-B-55 | C2M-B-55 | C1M-S-55 | C2M-S-55 | 55 | 3 1/4 | 19 | M8 x 25 | 5 | 14.50 | 14.50 |
| C1M-B-60 | C2M-B-60 | C1M-S-60 | C2M-S-60 | 60 | 3 1/2 | 19 | M8 x 25 | 5 | 16.20 | 16.20 |
| C1M-B-65 | C2M-B-65 | C1M-S-65 | C2M-S-65 | 65 | 3 3/4 | 19 | M8 x 25 | 5 | 16.80 | 16.80 |
| C1M-B-70 | C2M-B-70 | C1M-S-70 | C2M-S-70 | 70 | 4 | 19 | M8 x 25 | 5 | 18.30 | 18.30 |
| C1M-B-75 | C2M-B-75 | C1M-S-75 | C2M-S-75 | 75 | 4 1/4 | 19 | M8 x 25 | 5 | 19.50 | 19.50 |
| C1M-B-80 | C2M-B-80 | C1M-S-80 | C2M-S-80 | 80 | 4 1/4 | 19 | M8 x 25 | 5 | 20.40 | 20.40 |

SET SCREW COLLARS – C SERIES



- Traditional cost effective collar design

* Dimension: Inch
 * Tolerance:
 Bore 1/16 to 1/2 +.0005/+0.0025
 Bore 9/16 to 2 +.0005/+0.0030
 Bore Over 2 +.0010/+0.0040
 * Weights are approximate

| Zinc Plated Steel | Unplated Steel | Black Oxide Steel | T303 Stainless Steel | Aluminum | Bore Size | OD | Width | Set Screw | Box Qty | Weight* (Ounce) |
|-------------------|----------------|-------------------|----------------------|----------|-----------|-------|-------|-----------------|---------|-----------------|
| C-Z-1 | C-X-1 | C-B-1 | C-S-1 | C-A-1 | 1/16 | 1/4 | 3/16 | 2-56 x 1/8 | 100 | 0.10 |
| C-Z-1.5 | C-X-1.5 | C-B-1.5 | C-S-1.5 | C-A-1.5 | 3/32 | 3/8 | 3/16 | 6-32 x 1/8 | 100 | 0.10 |
| C-Z-2 | C-X-2 | C-B-2 | C-S-2 | C-A-2 | 1/8 | 3/8 | 1/4 | 6-32 x 1/8 | 100 | 0.10 |
| C-Z-2.5 | C-X-2.5 | C-B-2.5 | C-S-2.5 | C-A-2.5 | 5/32 | 7/16 | 1/4 | 8-32 x 1/8 | 100 | 0.10 |
| C-Z-3 | C-X-3 | C-B-3 | C-S-3 | C-A-3 | 3/16 | 7/16 | 1/4 | 8-32 x 1/8 | 100 | 0.10 |
| C-Z-4 | C-X-4 | C-B-4 | C-S-4 | C-A-4 | 1/4 | 1/2 | 5/16 | 10-32 x 1/8 | 100 | 0.20 |
| C-Z-5 | C-X-5 | C-B-5 | C-S-5 | C-A-5 | 5/16 | 5/8 | 5/16 | 10-32 x 1/8 | 100 | 0.30 |
| C-Z-6 | C-X-6 | C-B-6 | C-S-6 | C-A-6 | 3/8 | 3/4 | 3/8 | 1/4-20 x 3/16 | 100 | 0.50 |
| C-Z-7 | C-X-7 | C-B-7 | C-S-7 | C-A-7 | 7/16 | 7/8 | 7/16 | 1/4-20 x 1/4 | 50 | 0.80 |
| C-Z-8 | C-X-8 | C-B-8 | C-S-8 | C-A-8 | 1/2 | 1 | 7/16 | 1/4-20 x 1/4 | 50 | 1.10 |
| C-Z-9 | C-X-9 | C-B-9 | C-S-9 | C-A-9 | 9/16 | 1 | 7/16 | 1/4-20 x 1/4 | 50 | 1.00 |
| C-Z-10 | C-X-10 | C-B-10 | C-S-10 | C-A-10 | 5/8 | 1 1/8 | 1/2 | 5/16-18 x 1/4 | 50 | 1.50 |
| C-Z-11 | C-X-11 | C-B-11 | C-S-11 | C-A-11 | 11/16 | 1 1/4 | 9/16 | 5/16-18 x 1/4 | 50 | 2.00 |
| C-Z-12 | C-X-12 | C-B-12 | C-S-12 | C-A-12 | 3/4 | 1 1/4 | 9/16 | 5/16-18 x 1/4 | 50 | 1.90 |
| C-Z-13 | C-X-13 | C-B-13 | C-S-13 | C-A-13 | 13/16 | 1 1/4 | 9/16 | 5/16-18 x 1/4 | 25 | 1.70 |
| C-Z-14 | C-X-14 | C-B-14 | C-S-14 | C-A-14 | 7/8 | 1 1/2 | 9/16 | 5/16-18 x 15/16 | 25 | 2.90 |
| C-Z-15 | C-X-15 | C-B-15 | C-S-15 | C-A-15 | 15/16 | 1 1/2 | 9/16 | 5/16-24 x 1/4 | 25 | 2.74 |
| C-Z-16 | C-X-16 | C-B-16 | C-S-16 | C-A-16 | 1 | 1 1/2 | 5/8 | 5/16-24 x 1/4 | 25 | 2.78 |
| C-Z-17 | C-X-17 | C-B-17 | C-S-17 | C-A-17 | 1 1/16 | 1 3/4 | 5/8 | 5/16-18 x 5/16 | 25 | 4.10 |
| C-Z-18 | C-X-18 | C-B-18 | C-S-18 | C-A-18 | 1 1/8 | 1 3/4 | 5/8 | 5/16-18 x 5/16 | 25 | 3.90 |
| C-Z-19 | C-X-19 | C-B-19 | C-S-19 | C-A-19 | 1 3/16 | 2 | 11/16 | 3/8-16 x 3/8 | 25 | 6.10 |
| C-Z-20 | C-X-20 | C-B-20 | C-S-20 | C-A-20 | 1 1/4 | 2 | 11/16 | 3/8-16 x 3/8 | 25 | 5.70 |
| C-Z-21 | C-X-21 | C-B-21 | C-S-21 | C-A-21 | 1 5/16 | 2 1/8 | 11/16 | 3/8-16 x 3/8 | 25 | 6.60 |
| C-Z-22 | C-X-22 | C-B-22 | C-S-22 | C-A-22 | 1 3/8 | 2 1/8 | 3/4 | 3/8-16 x 3/8 | 25 | 6.70 |
| C-Z-23 | C-X-23 | C-B-23 | C-S-23 | C-A-23 | 1 7/16 | 2 1/4 | 3/4 | 3/8-16 x 3/8 | 25 | 7.60 |
| C-Z-24 | C-X-24 | C-B-24 | C-S-24 | C-A-24 | 1 1/2 | 2 1/4 | 3/4 | 3/8-16 x 3/8 | 25 | 7.20 |
| C-Z-25 | C-X-25 | C-B-25 | C-S-25 | C-A-25 | 1 9/16 | 2 1/2 | 13/16 | 3/8-16 x 3/8 | 10 | 10.70 |
| C-Z-26 | C-X-26 | C-B-26 | C-S-26 | C-A-26 | 1 5/8 | 2 1/2 | 13/16 | 3/8-16 x 3/8 | 10 | 10.10 |
| C-Z-27 | C-X-27 | C-B-27 | C-S-27 | C-A-27 | 1 11/16 | 2 1/2 | 13/16 | 3/8-16 x 3/8 | 10 | 9.50 |
| C-Z-28 | C-X-28 | C-B-28 | C-S-28 | C-A-28 | 1 3/4 | 2 5/8 | 7/8 | 1/2-13 x 1/2 | 10 | 11.40 |
| C-Z-29 | C-X-29 | C-B-29 | C-S-29 | C-A-29 | 1 13/16 | 2 3/4 | 7/8 | 1/2-13 x 1/2 | 10 | 12.70 |
| C-Z-30 | C-X-30 | C-B-30 | C-S-30 | C-A-30 | 1 7/8 | 2 3/4 | 7/8 | 1/2-13 x 1/2 | 10 | 12.20 |
| C-Z-31 | C-X-31 | C-B-31 | C-S-31 | C-A-31 | 1 15/16 | 3 | 7/8 | 1/2-13 x 1/2 | 10 | 15.70 |
| C-Z-32 | C-X-32 | C-B-32 | C-S-32 | C-A-32 | 2 | 3 | 7/8 | 1/2-13 x 1/2 | 10 | 14.90 |
| C-Z-34 | C-X-34 | C-B-34 | C-S-34 | C-A-34 | 2 1/8 | 3 | 7/8 | 1/2-13 x 1/2 | 5 | 13.30 |
| C-Z-35 | C-X-35 | C-B-35 | C-S-35 | C-A-35 | 2 3/16 | 3 1/4 | 15/16 | 1/2-13 x 1/2 | 5 | 18.60 |
| C-Z-36 | C-X-36 | C-B-36 | C-S-36 | C-A-36 | 2 1/4 | 3 1/4 | 15/16 | 1/2-13 x 1/2 | 5 | 17.70 |
| C-Z-37 | C-X-37 | C-B-37 | C-S-37 | C-A-37 | 2 5/16 | 3 1/4 | 15/16 | 1/2-13 x 1/2 | 5 | 16.80 |
| C-Z-38 | C-X-38 | C-B-38 | C-S-38 | C-A-38 | 2 3/8 | 3 1/4 | 15/16 | 1/2-13 x 1/2 | 5 | 15.90 |
| C-Z-39 | C-X-39 | C-B-39 | C-S-39 | C-A-39 | 2 7/16 | 3 1/2 | 1 | 1/2-13 x 1/2 | 5 | 21.80 |
| C-Z-40 | C-X-40 | C-B-40 | C-S-40 | C-A-40 | 2 1/2 | 3 1/2 | 1 | 1/2-13 x 1/2 | 5 | 20.80 |
| C-Z-41 | C-X-41 | C-B-41 | C-S-41 | C-A-41 | 2 9/16 | 3 3/4 | 1 | 1/2-13 x 1/2 | 5 | 25.96 |
| C-Z-42 | C-X-42 | C-B-42 | C-S-42 | C-A-42 | 2 5/8 | 4 | 1 1/8 | 1/2-13 x 1/2 | 5 | 35.49 |
| C-Z-43 | C-X-43 | C-B-43 | C-S-43 | C-A-43 | 2 11/16 | 4 | 1 1/8 | 1/2-13 x 1/2 | 5 | 34.40 |
| C-Z-44 | C-X-44 | C-B-44 | C-S-44 | C-A-44 | 2 3/4 | 4 | 1 1/8 | 1/2-13 x 1/2 | 5 | 33.50 |
| C-Z-46 | C-X-46 | C-B-46 | C-S-46 | C-A-46 | 2 7/8 | 4 | 1 1/8 | 1/2-13 x 1/2 | 5 | 29.70 |
| C-Z-47 | C-X-47 | C-B-47 | C-S-47 | C-A-47 | 2 15/16 | 4 | 1 1/8 | 1/2-13 x 1/2 | 5 | 29.30 |
| C-Z-48 | C-X-48 | C-B-48 | C-S-48 | C-A-48 | 3 | 4 | 1 1/8 | 1/2-13 x 1/2 | 5 | 27.70 |
| C-Z-51 | C-X-51 | C-B-51 | C-S-51 | C-A-51 | 3 3/16 | 4 1/4 | 1 1/8 | 1/2-13 x 1/2 | 5 | 31.00 |
| C-Z-52 | C-X-52 | C-B-52 | C-S-52 | C-A-52 | 3 1/4 | 4 1/4 | 1 1/8 | 1/2-13 x 1/2 | 5 | 35.00 |

SET SCREW COLLARS – C SERIES Continued on page 5

SET SCREW COLLARS – C SERIES CONTINUED

| Zinc Plated Steel | Unplated Steel | Black Oxide Steel | T303 Stainless Steel | Aluminum | Bore Size | OD | Width | Set Screw | Box Qty | Weight* (Ounce) |
|-------------------|----------------|-------------------|----------------------|----------|-----------|-------|-------|--------------|---------|-----------------|
| C-Z-55 | C-X-55 | C-B-55 | C-S-55 | C-A-55 | 3 7/16 | 4 1/2 | 1 1/8 | 1/2-13 x 1/2 | 5 | 33.00 |
| C-Z-56 | C-X-56 | C-B-56 | C-S-56 | C-A-56 | 3 1/2 | 4 3/4 | 1 1/8 | 1/2-13 x 1/2 | 5 | 40.70 |
| C-Z-63 | C-X-63 | C-B-63 | C-S-63 | C-A-63 | 3 15/16 | 5 | 1 1/8 | 1/2-13 x 1/2 | 5 | 37.60 |
| C-Z-64 | C-X-64 | C-B-64 | C-S-64 | C-A-64 | 4 | 5 | 1 1/8 | 1/2-13 x 1/2 | 5 | 39.00 |
| C-Z-67 | C-X-67 | C-B-67 | C-S-67 | C-A-67 | 4 3/16 | 5 1/2 | 1 1/8 | 1/2-13 x 1/2 | 5 | 50.53 |
| C-Z-68 | C-X-68 | C-B-68 | C-S-68 | C-A-68 | 4 1/4 | 5 1/2 | 1 1/8 | 1/2-13 x 1/2 | 5 | 55.00 |
| C-Z-71 | C-X-71 | C-B-71 | C-S-71 | C-A-71 | 4 7/16 | 5 1/2 | 1 1/8 | 1/2-13 x 1/2 | 5 | 41.20 |
| C-Z-72 | C-X-72 | C-B-72 | C-S-72 | C-A-72 | 4 1/2 | 5 1/2 | 1 1/4 | 1/2-13 x 1/2 | 5 | 44.00 |
| C-Z-75 | C-X-75 | C-B-75 | C-S-75 | C-A-75 | 4 11/16 | 6 | 1 1/4 | 1/2-13 x 1/2 | 5 | 62.00 |
| C-Z-79 | C-X-79 | C-B-79 | C-S-79 | C-A-79 | 4 15/16 | 6 | 1 1/4 | 1/2-13 x 1/2 | 5 | 53.10 |
| C-Z-80 | C-X-80 | C-B-80 | C-S-80 | C-A-80 | 5 | 6 | 1 1/4 | 1/2-13 x 1/2 | 5 | 56.00 |
| C-Z-83 | C-X-83 | C-B-83 | C-S-83 | C-A-83 | 5 3/16 | 6 1/2 | 1 1/4 | 1/2-13 x 1/2 | 5 | 67.20 |
| C-Z-87 | C-X-87 | C-B-87 | C-S-87 | C-A-87 | 5 7/16 | 6 1/2 | 1 1/4 | 1/2-13 x 1/2 | 5 | 55.00 |
| C-Z-91 | C-X-91 | C-B-91 | C-S-91 | C-A-91 | 5 11/16 | 7 | 1 1/4 | 1/2-13 x 1/2 | 5 | 72.80 |
| C-Z-95 | C-X-95 | C-B-95 | C-S-95 | C-A-95 | 5 15/16 | 7 | 1 1/4 | 1/2-13 x 1/2 | 5 | 57.70 |

METRIC SET SCREW COLLARS – CM SERIES



- Traditional cost effective collar designs

- * Dimension: Millimeter
- * Tolerance:
Bore 2 to 12 $\pm 0.01/\pm 0.06$ mm
Bore 14 to 50 $\pm 0.01/\pm 0.08$ mm
- * Weights are approximate

| Black Oxide Steel | Stainless Steel | Bore Size (mm) | OD (inch) | Width (mm) | Set Screw | Box Qty | Weight* (Ounce) |
|-------------------|-----------------|----------------|-----------|------------|-----------|---------|-----------------|
| CM-B-2 | CM-S-2 | 2 | 1/4 | 3.5 | M2 x 3 | 100 | 0.02 |
| CM-B-2.5 | CM-S-2.5 | 2.5 | 3/8 | 4 | M2 x 3 | 100 | 0.03 |
| CM-B-3 | CM-S-3 | 3 | 3/8 | 5 | M2 x 3 | 100 | 0.03 |
| CM-B-4 | CM-S-4 | 4 | 3/8 | 5 | M2 x 3 | 100 | 0.05 |
| CM-B-5 | CM-S-5 | 5 | 1/2 | 6 | M3 x 3 | 100 | 0.09 |
| CM-B-6 | CM-S-6 | 6 | 1/2 | 8 | M4 x 4 | 100 | 0.17 |
| CM-B-8 | CM-S-8 | 8 | 5/8 | 8 | M4 x 4 | 100 | 0.30 |
| CM-B-10 | CM-S-10 | 10 | 7/8 | 10 | M5 x 5 | 50 | 0.60 |
| CM-B-12 | CM-S-12 | 12 | 7/8 | 12 | M6 x 6 | 50 | 0.84 |
| CM-B-14 | CM-S-14 | 14 | 1 | 12 | M6 x 6 | 50 | 1.00 |
| CM-B-15 | CM-S-15 | 15 | 1 | 12 | M6 x 6 | 50 | 1.00 |
| CM-B-16 | CM-S-16 | 16 | 1 1/8 | 12 | M6 x 6 | 50 | 1.30 |
| CM-B-18 | CM-S-18 | 18 | 1 1/4 | 14 | M6 x 6 | 50 | 2.00 |
| CM-B-20 | CM-S-20 | 20 | 1 1/4 | 14 | M6 x 6 | 25 | 1.70 |
| CM-B-22 | CM-S-22 | 22 | 1 1/2 | 14 | M6 x 6 | 25 | 2.30 |
| CM-B-24 | CM-S-24 | 24 | 1 5/8 | 14 | M8 x 8 | 25 | 3.00 |
| CM-B-25 | CM-S-25 | 25 | 1 5/8 | 16 | M8 x 8 | 25 | 3.20 |
| CM-B-28 | CM-S-28 | 28 | 1 7/8 | 16 | M8 x 8 | 25 | 4.10 |
| CM-B-30 | CM-S-30 | 30 | 1 7/8 | 16 | M8 x 8 | 25 | 3.80 |
| CM-B-32 | CM-S-32 | 32 | 2 | 16 | M8 x 8 | 25 | 4.90 |
| CM-B-34 | CM-S-34 | 34 | 2 | 16 | M8 x 8 | 25 | 4.51 |
| CM-B-35 | CM-S-35 | 35 | 2 1/4 | 16 | M8 x 10 | 25 | 6.40 |
| CM-B-36 | CM-S-36 | 36 | 2 1/4 | 16 | M8 x 10 | 25 | 6.10 |
| CM-B-38 | CM-S-38 | 38 | 2 1/4 | 16 | M8 x 10 | 25 | 5.70 |
| CM-B-40 | CM-S-40 | 40 | 2 3/8 | 18 | M10 x 10 | 10 | 7.50 |
| CM-B-45 | CM-S-45 | 45 | 2 7/8 | 18 | M10 x 10 | 10 | 12.60 |
| CM-B-50 | CM-S-50 | 50 | 3 1/8 | 18 | M10 x 10 | 5 | 13.60 |

ONE-PIECE INDUSTRY STANDARD CLAMPING COUPLINGS



- High axial load and torque capacity - Does not mar the shaft

*Weights are approximate

*Dimension: Inch/Tolerance: +.003/- .000

*Dimension: Millimeter/Tolerance: +.08/- .00mm

Steel With & Without Keyway – R1 Series

| Black Oxide Steel | Black Oxide Steel With Keyway | Bore Size | 2nd Bore Size | OD | Length | Clamp Screw | Box Qty | Weight* (Ounce) |
|-------------------|-------------------------------|-----------|---------------|--------|--------|--------------|---------|-----------------|
| R1-B-4-4 | R1-B-4-4-KW | 1/4 | 1/4 | 1 1/16 | 1 1/8 | 4-40 x 3/8 | 10 | 1.50 |
| R1-B-6-4 | R1-B-6-4-KW | 3/8 | 1/4 | 7/8 | 1 3/8 | 6-32 x 3/8 | 10 | 2.70 |
| R1-B-6-6 | R1-B-6-6-KW | 3/8 | 3/8 | 7/8 | 1 3/8 | 6-32 x 3/8 | 5 | 2.60 |
| R1-B-8-6 | R1-B-8-6-KW | 1/2 | 3/8 | 1 1/8 | 1 3/4 | 8-32 x 1/2 | 5 | 6.00 |
| R1-B-8-8 | R1-B-8-8-KW | 1/2 | 1/2 | 1 1/8 | 1 3/4 | 8-32 x 1/2 | 5 | 5.70 |
| R1-B-10-8 | R1-B-10-8-KW | 5/8 | 1/2 | 1 5/16 | 2 | 10-32 x 1/2 | 5 | 9.00 |
| R1-B-10-10 | R1-B-10-10-KW | 5/8 | 5/8 | 1 5/16 | 2 | 10-32 x 1/2 | 5 | 8.50 |
| R1-B-12-12 | R1-B-12-12-KW | 3/4 | 3/4 | 1 1/2 | 2 1/4 | 1/4-28 x 5/8 | 5 | 12.20 |
| R1-B-14-14 | R1-B-14-14-KW | 7/8 | 7/8 | 1 5/8 | 2 1/2 | 1/4-28 x 5/8 | 5 | 15.40 |
| R1-B-16-8 | R1-B-16-8-KW | 1 | 1/2 | 1 3/4 | 3 | 1/4-28 x 5/8 | 2 | 23.60 |
| R1-B-16-16 | R1-B-16-16-KW | 1 | 1 | 1 3/4 | 3 | 1/4-28 x 5/8 | 2 | 20.00 |
| R1-B-20-20 | R1-B-20-20-KW | 1 1/4 | 1 1/4 | 2 1/16 | 3 1/4 | 1/4-28 x 3/4 | 2 | 28.40 |
| R1-B-22-22 | R1-B-22-22-KW | 1 3/8 | 1 3/8 | 2 1/4 | 3 1/2 | 1/4-28 x 3/4 | 2 | 37.00 |
| R1-B-24-24 | R1-B-24-24-KW | 1 1/2 | 1 1/2 | 2 5/8 | 3 7/8 | 5/16-24 x 1 | 1 | 49.50 |

Stainless Steel & Aluminum With & Without Keyway – R1 Series

| Stainless Steel | Stainless Steel With Keyway | Aluminum | Bore Size | 2nd Bore Size | OD | Length | Clamp Screw | Box Qty | Weight* (Ounce) |
|-----------------|-----------------------------|------------|-----------|---------------|--------|--------|--------------|---------|-----------------|
| R1-S-4-4 | R1-S-4-4-KW | R1-A-4-4 | 1/4 | 1/4 | 1 1/16 | 1 1/8 | 4-40 x 3/8 | 10 | 0.52 |
| R1-S-6-6 | R1-S-6-6-KW | R1-A-6-6 | 3/8 | 3/8 | 7/8 | 1 1/8 | 6-32 x 3/8 | 5 | 2.60 |
| R1-S-8-8 | R1-S-8-8-KW | R1-A-8-8 | 1/2 | 1/2 | 1 1/8 | 1 3/4 | 8-32 x 3/8 | 5 | 5.70 |
| R1-S-10-10 | R1-S-10-10-KW | R1-A-10-10 | 5/8 | 5/8 | 1 5/16 | 2 | 10-32 x 1/2 | 5 | 8.50 |
| R1-S-12-12 | R1-S-12-12-KW | R1-A-12-12 | 3/4 | 3/4 | 1 1/2 | 2 1/4 | 1/4-28 x 5/8 | 5 | 12.20 |
| R1-S-14-14 | R1-S-14-14-KW | R1-A-14-14 | 7/8 | 7/8 | 1 5/8 | 2 1/2 | 1/4-28 x 5/8 | 5 | 15.40 |
| R1-S-16-16 | R1-S-16-16-KW | R1-A-16-16 | 1 | 1 | 1 3/4 | 3 | 1/4-28 x 5/8 | 2 | 20.00 |
| R1-S-20-20 | R1-S-20-20-KW | R1-A-20-20 | 1 1/4 | 1 1/4 | 2 1/16 | 3 1/4 | 1/4-28 x 5/8 | 2 | 28.40 |
| R1-S-22-22 | R1-S-22-22-KW | R1-A-22-22 | 1 3/8 | 1 3/8 | 2 1/4 | 3 1/2 | 1/4-28 x 3/4 | 2 | 37.00 |
| R1-S-24-24 | R1-S-24-24-KW | R1-A-24-24 | 1 1/2 | 1 1/2 | 2 5/8 | 3 7/8 | 5/16-24 x 1 | 1 | 49.50 |

Steel With & Without Keyway – R1M Series (Metric)

| Black Oxide Steel | Black Oxide Steel With Keyway | Bore Size (mm) | 2nd Bore Size (mm) | OD (mm) | Length (mm) | Clamp Screw | Box Qty | Weight* (Ounce) |
|-------------------|-------------------------------|----------------|--------------------|---------|-------------|-------------|---------|-----------------|
| R1M-B-6-6 | R1M-B-6-6-KW | 6 | 6 | 18 | 30 | M3 x 8 | 10 | 1.60 |
| R1M-B-8-8 | R1M-B-8-8-KW | 8 | 8 | 24 | 35 | M3 x 10 | 10 | 2.80 |
| R1M-B-10-10 | R1M-B-10-10-KW | 10 | 10 | 29 | 45 | M4 x 12 | 5 | 6.93 |
| R1M-B-12-12 | R1M-B-12-12-KW | 12 | 12 | 29 | 45 | M4 x 12 | 5 | 6.50 |
| R1M-B-14-14 | R1M-B-14-14-KW | 14 | 14 | 34 | 50 | M5 x 16 | 5 | 8.80 |
| R1M-B-15-15 | R1M-B-15-15-KW | 15 | 15 | 34 | 50 | M5 x 16 | 5 | 8.60 |
| R1M-B-16-16 | R1M-B-16-16-KW | 16 | 16 | 34 | 50 | M5 x 16 | 5 | 8.40 |
| R1M-B-20-20 | R1M-B-20-20-KW | 20 | 20 | 42 | 65 | M6 x 16 | 5 | 18.00 |
| R1M-B-25-25 | R1M-B-25-25-KW | 25 | 25 | 45 | 75 | M6 x 16 | 2 | 22.39 |
| R1M-B-30-30 | R1M-B-30-30-KW | 30 | 30 | 53 | 83 | M6 x 16 | 2 | 36.14 |
| R1M-B-35-35 | R1M-B-35-35-KW | 35 | 35 | 67 | 95 | M8 x 25 | 1 | 39.00 |
| R1M-B-40-40 | R1M-B-40-40-KW | 40 | 40 | 77 | 108 | M8 x 25 | 1 | 90.00 |
| R1M-B-50-50 | R1M-B-50-50-KW | 50 | 50 | 85 | 124 | M10 x 25 | 1 | 108.0 |

STAINLESS STEEL WITH & WITHOUT KEYWAY – R1M SERIES (METRIC) Continued on page 7

ONE-PIECE INDUSTRY STANDARD CLAMPING COUPLINGS – CONTINUED

Stainless Steel With & Without Keyway – R1M Series (Metric)

| Stainless Steel | Stainless Steel With Keyway | Bore Size (mm) | 2nd Bore Size(mm) | OD (mm) | Length (mm) | Clamp Screw | Box Qty | Weight* (Ounce) |
|-----------------|-----------------------------|----------------|-------------------|---------|-------------|-------------|---------|-----------------|
| R1M-S-6-6 | R1M-S-6-6-KW | 6 | 6 | 18 | 30 | M3 x 8 | 10 | 1.60 |
| R1M-S-8-8 | R1M-S-8-8-KW | 8 | 8 | 24 | 35 | M3 x 10 | 10 | 2.80 |
| R1M-S-10-10 | R1M-S-10-10-KW | 10 | 10 | 29 | 45 | M4 x 12 | 5 | 6.93 |
| R1M-S-12-12 | R1M-S-12-12-KW | 12 | 12 | 29 | 45 | M4 x 12 | 5 | 6.50 |
| R1M-S-14-14 | R1M-S-14-14-KW | 14 | 14 | 34 | 50 | M5 x 16 | 5 | 8.80 |
| R1M-S-15-15 | R1M-S-15-15-KW | 15 | 15 | 34 | 50 | M5 x 16 | 5 | 8.60 |
| R1M-S-16-16 | R1M-S-16-16-KW | 16 | 16 | 34 | 50 | M5 x 16 | 5 | 8.40 |
| R1M-S-20-20 | R1M-S-20-20-KW | 20 | 20 | 42 | 65 | M6 x 16 | 5 | 18.00 |
| R1M-S-25-25 | R1M-S-25-25-KW | 25 | 25 | 45 | 75 | M6 x 16 | 2 | 22.39 |
| R1M-S-30-30 | R1M-S-30-30-KW | 30 | 30 | 53 | 83 | M6 x 16 | 2 | 36.14 |
| R1M-S-35-35 | R1M-S-35-35-KW | 35 | 35 | 67 | 95 | M8 x 25 | 1 | 39.00 |
| R1M-S-40-40 | R1M-S-40-40-KW | 40 | 40 | 77 | 108 | M8 x 25 | 1 | 90.00 |
| R1M-S-50-50 | R1M-S-50-50-KW | 50 | 50 | 85 | 124 | M10 x 25 | 1 | 108.00 |

TWO-PIECE INDUSTRY STANDARD CLAMPING COUPLINGS



- High axial load and torque capacity - Does not mar the shaft

*Weights are approximate

*Dimension: Inch/Tolerance: +.003/- .000

*Dimension: Millimeter/Tolerance: +.08/- .00mm

Steel With & Without Keyway – R2 Series

| Black Oxide Steel | Black Oxide Steel With Keyway | Bore Size | 2nd Bore Size | OD | Length | Clamp Screw | Box Qty | Weight* (Ounce) |
|-------------------|-------------------------------|-----------|---------------|--------|--------|--------------|---------|-----------------|
| R2-B-4-4 | R2-B-4-4-KW | 1/4 | 1/4 | 11/16 | 1 1/8 | 4-40 x 3/8 | 10 | 1.50 |
| R2-B-6-6 | R2-B-6-6-KW | 3/8 | 3/8 | 7/8 | 1 3/8 | 6-32 x 3/8 | 5 | 2.60 |
| R2-B-8-8 | R2-B-8-8-KW | 1/2 | 1/2 | 1 1/8 | 1 3/4 | 8-32 x 3/8 | 5 | 5.70 |
| R2-B-10-10 | R2-B-10-10-KW | 5/8 | 5/8 | 1 5/16 | 2 | 10-32 x 1/2 | 5 | 8.50 |
| R2-B-12-12 | R2-B-12-12-KW | 3/4 | 3/4 | 1 1/2 | 2 1/4 | 1/4-28 x 5/8 | 5 | 12.20 |
| R2-B-14-14 | R2-B-14-14-KW | 7/8 | 7/8 | 1 5/8 | 2 1/2 | 1/4-28 x 5/8 | 5 | 15.40 |
| R2-B-16-16 | R2-B-16-16-KW | 1 | 1 | 1 3/4 | 3 | 1/4-28 x 5/8 | 2 | 23.60 |
| R2-B-20-20 | R2-B-20-20-KW | 1 1/4 | 1 1/4 | 2 1/16 | 3 1/4 | 1/4-28 x 3/4 | 2 | 28.40 |
| R2-B-22-22 | R2-B-22-22-KW | 1 3/8 | 1 3/8 | 2 1/2 | 3 5/8 | 5/16-24 x 1 | 2 | 37.00 |
| R2-B-24-24 | R2-B-24-24-KW | 1 1/2 | 1 1/2 | 2 5/8 | 3 7/8 | 5/16-24 x 1 | 1 | 49.50 |

Stainless Steel With & Without Keyway – R2 Series

| Stainless Steel | Stainless Steel With Keyway | Bore Size | 2nd Bore Size | OD | Length | Clamp Screw | Box Qty | Weight* (Ounce) |
|-----------------|-----------------------------|-----------|---------------|--------|--------|--------------|---------|-----------------|
| R2-S-6-6 | R2-S-6-6-KW | 3/8 | 3/8 | 7/8 | 1 3/8 | 6-32 x 3/8 | 5 | 2.60 |
| R2-S-8-8 | R2-S-8-8-KW | 1/2 | 1/2 | 1 1/8 | 1 3/4 | 8-32 x 3/8 | 5 | 5.70 |
| R2-S-10-10 | R2-S-10-10-KW | 5/8 | 5/8 | 1 5/16 | 2 | 10-32 x 1/2 | 5 | 8.50 |
| R2-S-12-12 | R2-S-12-12-KW | 3/4 | 3/4 | 1 1/2 | 2 1/4 | 1/4-28 x 5/8 | 5 | 12.20 |
| R2-S-14-14 | R2-S-14-14-KW | 7/8 | 7/8 | 1 5/8 | 2 1/2 | 1/4-28 x 5/8 | 5 | 15.40 |
| R2-S-16-16 | R2-S-16-16-KW | 1 | 1 | 1 3/4 | 3 | 1/4-28 x 5/8 | 2 | 23.60 |
| R2-S-20-20 | R2-S-20-20-KW | 1 1/4 | 1 1/4 | 2 1/16 | 3 1/4 | 1/4-28 x 5/8 | 2 | 28.40 |
| R2-S-22-22 | R2-S-22-22-KW | 1 3/8 | 1 3/8 | 2 1/2 | 3 5/8 | 5/16-24 x 1 | 2 | 37.00 |
| R2-S-24-24 | R2-S-24-24-KW | 1 1/2 | 1 1/2 | 2 5/8 | 3 7/8 | 5/16-24 x 1 | 1 | 49.50 |

Steel With & Without Keyway – R2M Series (Metric)

| Black Oxide Steel | Black Oxide Steel With Keyway | Bore Size (mm) | 2nd Bore Size (mm) | OD (mm) | Length (mm) | Clamp Screw | Box Qty | Weight* (Ounce) |
|-------------------|-------------------------------|----------------|--------------------|---------|-------------|-------------|---------|-----------------|
| R2M-B-6-6 | R2M-B-6-6-KW | 6 | 6 | 18 | 30 | M3 x 8 | 10 | 1.50 |
| R2M-B-8-8 | R2M-B-8-8-KW | 8 | 8 | 24 | 35 | M3 x 10 | 10 | 2.70 |
| R2M-B-10-10 | R2M-B-10-10-KW | 10 | 10 | 29 | 45 | M4 x 12 | 5 | 6.83 |
| R2M-B-12-12 | R2M-B-12-12-KW | 12 | 12 | 29 | 45 | M4 x 12 | 5 | 6.40 |
| R2M-B-14-14 | R2M-B-14-14-KW | 14 | 14 | 34 | 50 | M5 x 16 | 5 | 8.60 |
| R2M-B-15-15 | R2M-B-15-15-KW | 15 | 15 | 34 | 50 | M5 x 16 | 5 | 8.40 |
| R2M-B-16-16 | R2M-B-16-16-KW | 16 | 16 | 34 | 50 | M5 x 16 | 5 | 8.20 |
| R2M-B-20-20 | R2M-B-20-20-KW | 20 | 20 | 42 | 65 | M6 x 16 | 5 | 17.60 |
| R2M-B-25-25 | R2M-B-25-25-KW | 25 | 25 | 45 | 75 | M6 x 16 | 2 | 21.90 |
| R2M-B-30-30 | R2M-B-30-30-KW | 30 | 30 | 53 | 83 | M6 x 16 | 2 | 35.60 |
| R2M-B-35-35 | R2M-B-35-35-KW | 35 | 35 | 67 | 95 | M8 x 25 | 1 | 38.40 |
| R2M-B-40-40 | R2M-B-40-40-KW | 40 | 40 | 77 | 108 | M8 x 25 | 1 | 89.00 |
| R2M-B-50-50 | R2M-B-50-50-KW | 50 | 50 | 85 | 124 | M10 x 25 | 1 | 110.00 |

Stainless Steel With & Without Keyway – R2M Series (Metric)

| Stainless Steel | Stainless Steel With Keyway | Bore Size (mm) | 2nd Bore Size (mm) | OD (mm) | Length (mm) | Clamp Screw | Box Qty | Weight* (Ounce) |
|-----------------|-----------------------------|----------------|--------------------|---------|-------------|-------------|---------|-----------------|
| R2M-S-6-6 | R2M-S-6-6-KW | 6 | 6 | 18 | 30 | M3 x 8 | 10 | 1.50 |
| R2M-S-8-8 | R2M-S-8-8-KW | 8 | 8 | 24 | 35 | M3 x 10 | 10 | 2.70 |
| R2M-S-10-10 | R2M-S-10-10-KW | 10 | 10 | 29 | 45 | M4 x 12 | 5 | 6.83 |
| R2M-S-12-12 | R2M-S-12-12-KW | 12 | 12 | 29 | 45 | M4 x 12 | 5 | 6.40 |
| R2M-S-14-14 | R2M-S-14-14-KW | 14 | 14 | 34 | 50 | M5 x 16 | 5 | 8.60 |
| R2M-S-15-15 | R2M-S-15-15-KW | 15 | 15 | 34 | 50 | M5 x 16 | 5 | 8.40 |
| R2M-S-16-16 | R2M-S-16-16-KW | 16 | 16 | 34 | 50 | M5 x 16 | 5 | 8.20 |
| R2M-S-20-20 | R2M-S-20-20-KW | 20 | 20 | 42 | 65 | M6 x 16 | 5 | 17.60 |
| R2M-S-25-25 | R2M-S-25-25-KW | 25 | 25 | 45 | 75 | M6 x 16 | 2 | 21.90 |
| R2M-S-30-30 | R2M-S-30-30-KW | 30 | 30 | 53 | 83 | M6 x 16 | 2 | 35.60 |
| R2M-S-35-35 | R2M-S-35-35-KW | 35 | 35 | 67 | 95 | M8 x 25 | 1 | 38.40 |
| R2M-S-40-40 | R2M-S-40-40-KW | 40 | 40 | 77 | 108 | M8 x 25 | 1 | 89.00 |
| R2M-S-50-50 | R2M-S-50-50-KW | 50 | 50 | 85 | 124 | M10 x 25 | 1 | 110.00 |

SET SCREW COUPLINGS



- Traditional cost effective rigid coupling design provides torque transmission and alignment

* Dimension: Inch

* Tolerance:

Bore 1/4 to 1/2 +.005/+.0025

Bore 5/8 to 1 1/2 +.005/+.0030

* Weights are approximate

* Screw lengths are for parts without keyway

* Dimension: Millimeter

* Tolerance:

Bore 10 to 12 +.01/+.06mm

Bore 15 to 40 +.01/+.08mm

Steel With & Without Keyway – R Series

| Black Oxide Steel | Black Oxide Steel With Keyway | Bore Size | OD | Length | Set Screw | Box Qty | Weight* (Ounce) |
|-------------------|-------------------------------|-----------|-------|--------|----------------|---------|-----------------|
| R-B-4 | R-B-4-KW | 1/4 | 1/2 | 3/4 | 10-32 x 1/8 | 20 | 0.45 |
| R-B-5 | R-B-5-KW | 5/16 | 5/8 | 1 | 10-32 x 1/8 | 20 | 1.00 |
| R-B-6 | R-B-6-KW | 3/8 | 3/4 | 1 | 1/4-20 x 3/16 | 20 | 1.40 |
| R-B-8 | R-B-8-KW | 1/2 | 1 | 1 1/2 | 1/4-20 x 1/4 | 5 | 3.80 |
| R-B-10 | R-B-10-KW | 5/8 | 1 1/4 | 2 | 5/16-18 x 5/16 | 5 | 8.00 |
| R-B-12 | R-B-12-KW | 3/4 | 1 1/2 | 2 | 5/16-18 x 3/8 | 5 | 11.60 |
| R-B-14 | R-B-14-KW | 7/8 | 1 3/4 | 2 | 5/16-18 x 5/16 | 5 | 16.00 |
| R-B-16 | R-B-16-KW | 1 | 2 | 3 | 5/16-18 x 1/2 | 2 | 32.00 |
| R-B-18 | R-B-18-KW | 1 1/8 | 2 1/8 | 3 | 3/8-16 x 1/2 | 2 | 40.15 |
| R-B-20 | R-B-20-KW | 1 1/4 | 2 1/4 | 4 | 3/8-16 x 1/2 | 2 | 48.30 |
| R-B-22 | R-B-22-KW | 1 3/8 | 2 1/2 | 4 1/2 | 3/8-16 x 1/2 | 1 | 55.15 |
| R-B-24 | R-B-24-KW | 1 1/2 | 2 1/2 | 4 1/2 | 3/8-16 x 1/2 | 1 | 62.00 |

Stainless Steel & Aluminum With & Without Keyway – R Series

| Stainless Steel | Stainless Steel With Keyway | Aluminum | Bore Size | OD | Length | Set Screw | Box Qty | Weight* (Ounce) |
|-----------------|-----------------------------|----------|-----------|-------|--------|----------------|---------|-----------------|
| R-S-4 | R-S-4-KW | R-A-4 | 1/4 | 1/2 | 3/4 | 10-32 x 1/8 | 20 | 0.45 |
| R-S-5 | R-S-5-KW | R-A-5 | 5/16 | 5/8 | 1 | 10-32 x 1/8 | 20 | 1.00 |
| R-S-6 | R-S-6-KW | R-A-6 | 3/8 | 3/4 | 1 | 1/4-20 x 3/16 | 20 | 1.40 |
| R-S-8 | R-S-8-KW | R-A-8 | 1/2 | 1 | 1 1/2 | 1/4-20 x 1/4 | 5 | 3.80 |
| R-S-10 | R-S-10-KW | R-A-10 | 5/8 | 1 1/4 | 2 | 5/16-18 x 5/16 | 5 | 8.00 |
| R-S-12 | R-S-12-KW | R-A-12 | 3/4 | 1 1/2 | 2 | 5/16-18 x 3/8 | 5 | 11.60 |
| R-S-14 | R-S-14-KW | R-A-14 | 7/8 | 1 3/4 | 2 | 5/16-18 x 5/16 | 5 | 16.00 |
| R-S-16 | R-S-16-KW | R-A-16 | 1 | 2 | 3 | 5/16-18 x 1/2 | 2 | 32.00 |
| R-S-20 | R-S-20-KW | R-A-20 | 1 1/4 | 2 1/4 | 4 | 3/8-16 x 1/2 | 2 | 48.30 |

Steel With & Without Keyway – RM Series (Metric)

| Black Oxide Steel | Black Oxide Steel With Keyway | Bore Size | OD | Length | Set Screw | Box Qty | Weight* (Ounce) |
|-------------------|-------------------------------|-----------|----|--------|-----------|---------|-----------------|
| RM-B-10 | RM-B-10-KW | 10 | 19 | 25 | M5 x 5 | 5 | 1.40 |
| RM-B-10 | RM-B-10-KW | 10 | 19 | 25 | M5 x 5 | 5 | 1.40 |
| RM-B-12 | RM-B-12-KW | 12 | 22 | 38 | M6 x 6 | 5 | 3.50 |
| RM-B-15 | RM-B-15-KW | 15 | 31 | 50 | M6 x 6 | 5 | 8.00 |
| RM-B-20 | RM-B-20-KW | 20 | 38 | 50 | M6 x 6 | 5 | 11.60 |
| RM-B-25 | RM-B-25-KW | 25 | 50 | 76 | M8 x 8 | 2 | 32.00 |
| RM-B-30 | RM-B-30-KW | 30 | 57 | 101 | M8 x 8 | 2 | 47.00 |
| RM-B-35 | RM-B-35-KW | 35 | 63 | 114 | M10 x 10 | 1 | 55.00 |

Stainless Steel With & Without Keyway – RM Series (Metric)

| Stainless Steel | Stainless Steel With Keyway | Bore Size (mm) | OD (mm) | Length (mm) | Clamp Screw | Box Qty | Weight* (Ounce) |
|-----------------|-----------------------------|----------------|---------|-------------|-------------|---------|-----------------|
| RM-S-10 | RM-S-10-KW | 10 | 19 | 25 | M5 x 5 | 5 | 1.40 |
| RM-S-12 | RM-S-12-KW | 12 | 22 | 38 | M6 x 6 | 5 | 3.50 |
| RM-S-15 | RM-S-15-KW | 15 | 31 | 50 | M6 x 6 | 5 | 8.00 |
| RM-S-20 | RM-S-20-KW | 20 | 38 | 50 | M6 x 6 | 5 | 11.60 |
| RM-S-25 | RM-S-25-KW | 25 | 50 | 76 | M8 x 8 | 2 | 32.00 |
| RM-S-30 | RM-S-30-KW | 30 | 57 | 101 | M8 x 8 | 2 | 47.00 |
| RM-S-35 | RM-S-35-KW | 35 | 63 | 114 | M10 x 10 | 1 | 55.00 |
| RM-S-40 | RM-S-40-KW | 40 | 63 | 114 | M10 x 10 | 1 | 62.00 |

OTHER GUARDIAN PRODUCTS

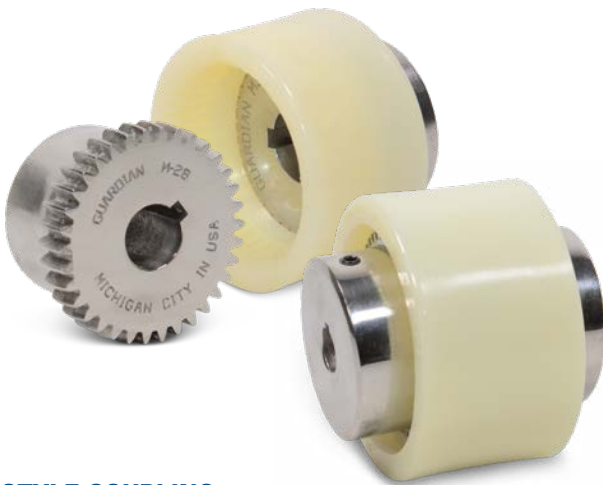


CURVED JAW COUPLING

- Suitable for high torque applications
- Variable durometer urethane elements
- Stainless steel hubs available
- Great misalignment in the torsional, axial, radial and angular directions

STRAIGHT JAW COUPLING

- Perfectly interchangeable with other domestic straight jaw couplings
- Spiders available in a variety of durometers and material types
- Black phosphate treated for superior corrosion resistance
- Change in place spider element available



M-STYLE COUPLING

- Double crowned tooth provides great parallel & angular misalignment
- Optional I-Style provides excellent axial travel for demag motors (up to .500")
- Different sleeve material options for high temp / high torque applications



GEAR GRIP COUPLING

- Flexible sleeves available in a variety of durometers and material types
- Adjustable lengths can be achieved
- Coupling acts as a mechanical fuse due to its "in-shear" design
- Excellent angular and parallel misalignment capabilities (Up to 7.5 degrees angular)

Guardian Couplings Facilities

North America

USA

300 Indiana Highway 212
Michigan City, IN 46360
219-874-5248

Engineered Flywheel Couplings, Engine Housings and Pump Mounts, Flexible Shaft Couplings

Europe

United Kingdom

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Hertfordshire SG13 7BL - England
+44(0)1992 501900

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The Brands of Altra Motion

Couplings

Ameridrives
www.ameridrives.com

Bibby Turboflex
www.bibbyturboflex.com

Guardian Couplings
www.guardiancouplings.com

Huco
www.huco.com

Lamiflex Couplings
www.lamiflexcouplings.com

Stromag
www.stromag.com

TB Wood's
www.tbwoods.com

Linear Systems

Thomson
www.thomsonlinear.com

Warner Linear
www.warnerlinear.com

Geared Cam Limit Switches

Stromag
www.stromag.com

Engineered Bearing Assemblies

Kilian
www.kilianbearings.com

Electric Clutches & Brakes

Matrix
www.matrix-international.com

Stromag
www.stromag.com

Warner Electric
www.warnerelectric.com

Deltran
www.thomsonlinear.com

Belted Drives

TB Wood's
www.tbwoods.com

Heavy Duty Clutches & Brakes

Twiflex
www.twiflex.com

Stromag
www.stromag.com

Svendborg Brakes
www.svendborg-brakes.com

Wichita Clutch
www.wichitaclutch.com

Gearing & Specialty Components

Bauer Gear Motor
www.bauergears.com

Boston Gear
www.bostongear.com

Delevan
www.delevan.com

Delroyd Worm Gear
www.delroyd.com

Nuttall Gear
www.nuttallgear.com

Engine Braking Systems

Jacobs Vehicle Systems
www.jacobsvehiclesystems.com

Precision Motors & Automation

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Miniature Motors

Portescap
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Overrunning Clutches

Formsprag Clutch
www.formsprag.com

Marland Clutch
www.marland.com

Stieber
www.stieberclutch.com

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