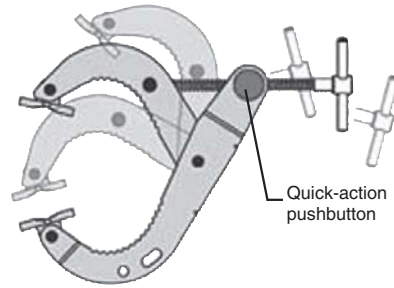


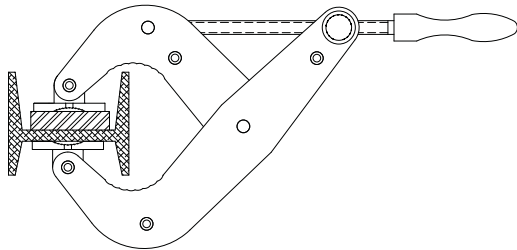
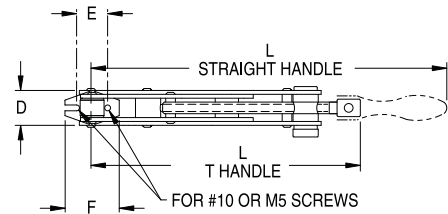
SHARK CLAMPS

BODY: STEEL, ZINC PLATED CLEAR CHROMATE
CLAMPING SCREW: STEEL, COPPER PLATED

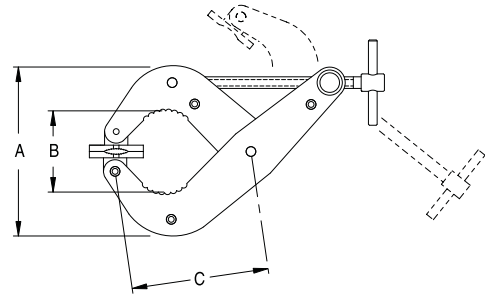


Heavy-duty quick-acting jaw clamp. Simply press the side pushbutton to allow sliding the handle freely in and out. The clamping screw is copper plated to resist spatter in welding applications. The two pivoting contact pads have mounting holes to allow attaching custom clamping pads or for stationary mounting. Optional no-mar rubber pads are available separately. Choose either a T handle (for maximum tightening torque) or a screwdriver-type straight handle (for more comfortable handling). Available in two sizes. Patent no. 6,893,012.

To clamp, simply press the quick-action pushbutton to slide the handle forward, moving the jaws into clamping position, then release the button and turn the handle to apply clamping force. To unclamp, turn the handle to release clamping force, then press the pushbutton to slide the handle back.



Wide throat allows clamping over flanges.



| PART NO. | MAX OPENING | HANDLE TYPE | A | B | C | D | E | F | L | MAXIMUM CLAMPING FORCE (LBS) | NO-MAR PADS (SET OF 4) |
|-------------|-------------|-------------|------|------|------|------|------|------|------|------------------------------|------------------------|
| CL-500-SHRK | 5 | T | 5.50 | 2.64 | 4.40 | 1.12 | 1.00 | 1.75 | 8.5 | 1000 | CL-1-SHRK-P-SETOF4 |
| CL-501-SHRK | | STRAIGHT | | | | | | | 12 | 200 | |
| CL-650-SHRK | 6-1/2 | T | 6.00 | 3.15 | 5.30 | 1.12 | 1.00 | 1.75 | 10.5 | 1000 | |
| CL-651-SHRK | | STRAIGHT | | | | | | | 14 | 200 | |

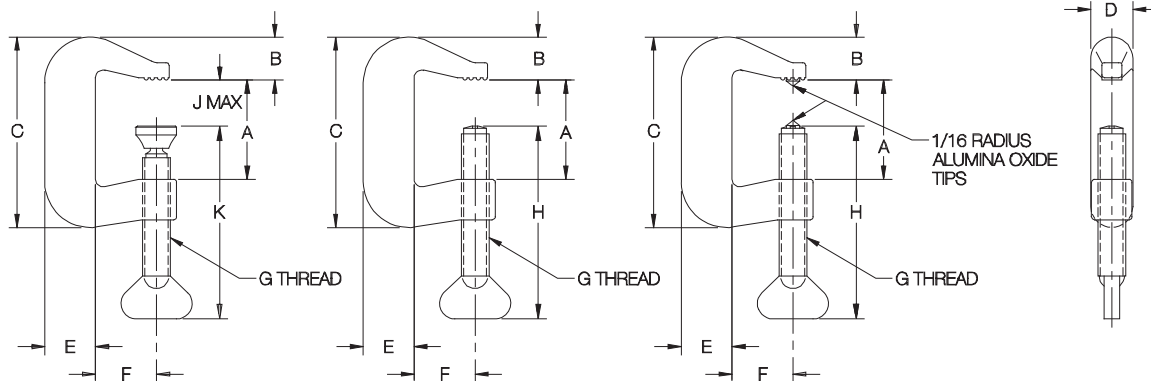
DURACLAMP PLASTIC C CLAMPS

FIBERGLASS-REINFORCED THERMOPLASTIC



High-strength fiberglass-reinforced Plastic C Clamps, ideal for finishing operations and other corrosive environments. Also ideal wherever a lightweight C Clamp is required. Chemically inert and electrically non-conductive. Highly resistant to virtually all acid and alkali solutions, and boiling water (212° F maximum recommended continuous operating temperature, 290° F for intermittent operation). No stripping required after use. Large, comfortable thumbscrew for easy hand tightening. Available in four sizes.

Also available with alumina oxide (Al₂O₃) tips. Well suited for two-step anodizing processes. Dual tips allow rack mounting two parts back-to-back during finishing. These super-hard tips (1/16" radius) reduce contact area to a small point to minimize rack marks, yet still hold parts securely.



Swivel Pad

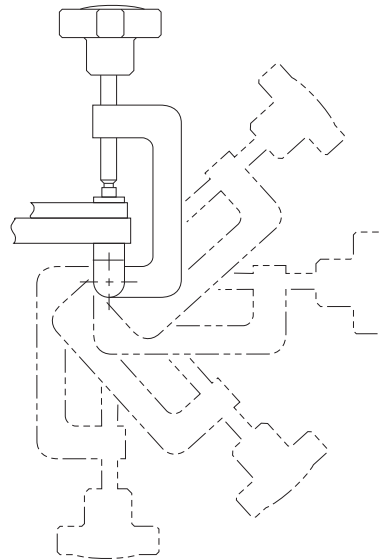
Radius Screw

Alumina Oxide Tips

| PART NO. WITH SWIVEL PAD | PART NO. WITH RADIUS SCREW | PART NO. WITH ALUMINA OXIDE TIPS | A | B | C | D | E | F | G | H | J | K | MAXIMUM TORQUE (IN-LBS) | WEIGHT (LBS) |
|--------------------------|----------------------------|----------------------------------|---------|-------|---------|--------|-------|--------|----------|---------|-------|-------|-------------------------|--------------|
| CL-318-DCS | CL-318-DC | CL-318-DC2T | 1-3/16 | 3/4 | 2-3/4 | 13/16 | 29/32 | 25/32 | 9/16-12 | 2-13/16 | 3/4 | 3 | 125 | .13 |
| CL-476-DCS | CL-476-DC | CL-476-DC2T | 1-13/16 | 1-1/8 | 3-15/16 | 1 | 1 | 1-3/16 | 5/8-12 | 3-13/16 | 1-3/8 | 4 | 160 | .24 |
| CL-635-DCS | CL-635-DC | — | 2-3/8 | 1-1/4 | 4-27/32 | 1-1/16 | 1-1/4 | 1-1/2 | 11/16-11 | 4-3/4 | 1-7/8 | 4-3/4 | 250 | .35 |
| CL-1016-DCS | CL-1016-DC | — | 3-7/8 | 1-3/8 | 6-13/16 | 1-1/4 | 1-1/2 | 1-3/4 | 13/16-10 | 6-1/4 | 3-3/8 | 6-1/4 | 350 | .71 |

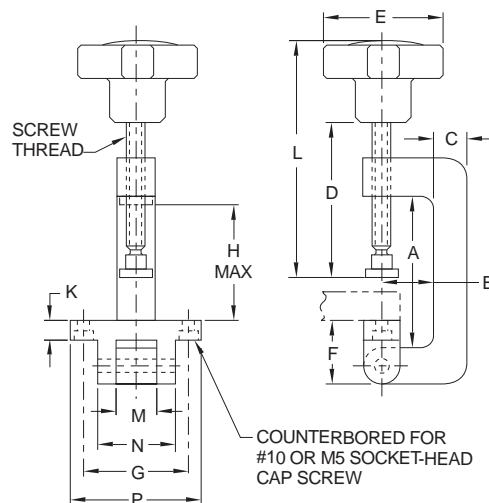
SWING C CLAMPS

FRAME & MOUNTING PAD: MILD STEEL, ZINC PLATED CLEAR CHROMATE
KNOB: 319 ALUMINUM ALLOY
SCREW: 12L14 STEEL, NICKEL PLATED
FOOT: 12L14 STEEL, ZINC PLATED YELLOW CHROMATE



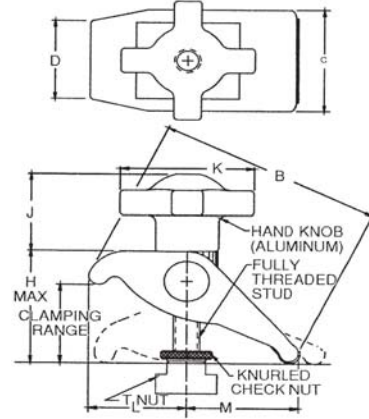
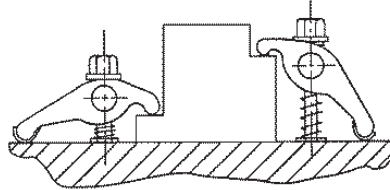
These unique C Clamps have a hinged pad for fastening permanently to a fixture, allowing them to swing clear for workpiece loading. The hinged mounting pad bolts to the fixture with two Socket-Head Cap Screws. Four-Prong Knob provides a firm grip for applications requiring quick tightening and high torque. Clamping screw is cast securely in the knob and has a removable swivel foot. Available in four sizes.

Swing C Clamps use our patented left-hand-thread swivel-foot system. The ball end of the body screws into the foot for easy installation and removal. Once the ball threads pass beyond the foot threads, the foot can rotate and pivot freely (20° total angle). Foot threads are left-hand to positively prevent accidental back out during use. For other foot types, including Delrin® feet, see Feet for Swivel Screws (order separately).



| PART NO. | SCREW THREAD | A | B | C | D | E | F | G | H | K | L | M | N | P |
|------------|--------------|-------|-----|-----|-------------------|-------|-----|-------|--------------------|------|-------------------|-----|-------|-------|
| CL-520-SCC | 5/16-18 | 2 | 3/4 | 1/2 | 2-1/4 | 1-3/4 | 7/8 | 1-1/2 | 1-15/32 1-31/32 | 5/16 | 3-1/4 | 1/2 | 1 | 2 |
| CL-525-SCC | | 2-1/2 | | | | | | | | | | | | |
| CL-625-SCC | 3/8-16 | 2-1/2 | 1 | 5/8 | 2-13/16 3-9/16 | 2-1/8 | 1 | 1-3/4 | 1-15/16 2-15/16 | 5/16 | 4-1/16 4-13/16 | 5/8 | 1-1/4 | 2-1/4 |
| CL-635-SCC | | 3-1/2 | | | | | | | | | | | | |

FORGED ADJUSTABLE DRILL-PRESS CLAMPS



Handy hold-down clamp assembly that includes a Forged Adjustable Clamp, ideal for clamping on T-slotted drill presses and tapped drill-jig plates. This rugged forged steel pivot clamp provides instant height adjustment without blocks or shims. Removable brass heel protects machine table. Available with stud sizes from 5/16-18 to 1/2-13 (M8 to M12 in metric), fitting T-slots from 3/8 to 3/4 (10mm to 18mm in metric). **INFO+:** For additional sizes of Forged Adjustable Clamps, see page 205.

GENERAL DIMENSIONS

| STUD SIZE | CLAMPING RANGE | B | C | D | H | J | K | L | | M | |
|--------------------------------|----------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|
| | | | | | | | | MIN | MAX | MIN | MAX |
| 5/16-18 or M8 3/8-16 or M10 | 0 to 1-3/4 | 3-1/4 | 1-1/4 | 7/8 | 2-1/8 | 1-3/8 | 2-1/8 | 1-1/16 | 1-1/4 | 1-3/4 | 2 |
| 1/2-13 or M12 | 0 to 2/16 | 4 | 1-5/8 | 1-1/8 | 2-5/8 | 1-5/8 | 2-1/2 | 1-3/8 | 1-9/16 | 2-1/8 | 2-7/16 |

ASSEMBLY COMPONENTS (INCH)

| PART NO. | STUD SIZE | TABLE-SLOT SIZE | T NUT | FORGED ADJUSTABLE CLAMP | FULLY THREADED STUD | KNURLED CHECK NUT | HAND KNOB |
|------------------|-----------|-----------------|----------|-------------------------|---------------------|-------------------|------------|
| CL-5-FACA-HKA | 5/16-18 | TAPPED | NONE | CL-6-FAC | CL-5/16-18x3.00-FTS | CL-51618-TSJNI | CL-2-HK-4A |
| CL-5-FACA-HKA-19 | | 3/8 or 10mm | CL-19-TN | | | | |
| CL-5-FACA-HKA-20 | | 7/16 | CL-20-TN | | | | |
| CL-5-FACA-HKA-21 | | 1/2 | CL-21-TN | | | | |
| CL-6-FACA-HKA | 3/8-16 | TAPPED | NONE | CL-6-FAC | CL-3/8-16x3.00-FTS | CL-3816-TSJNI | CL-3-HK-4A |
| CL-6-FACA-HKA-00 | | 7/16 | CL-00-TN | | | | |
| CL-6-FACA-HKA-12 | | 12mm | CL-12-TN | | | | |
| CL-6-FACA-HKA-0 | | 1/2 | CL-0-TN | | | | |
| CL-6-FACA-HKA-1 | | 9/16 or 14mm | CL-1-TN | | | | |
| CL-6-FACA-HKA-16 | | 5/8 or 16mm | CL-16-TN | | | | |
| CL-8-FACA-HKA | 1/2-13 | TAPPED | NONE | CL-8-FAC | CL-1/2-13x4.00-FTS | CL-1213-TSJNI | CL-9-HK-9A |
| CL-8-FACA-HKA-9 | | 9/16 or 14mm | CL-9-TN | | | | |
| CL-8-FACA-HKA-2 | | 5/8 or 16mm | CL-2-TN | | | | |
| CL-8-FACA-HKA-3 | | 11/16 or 18mm | CL-3-TN | | | | |
| CL-8-FACA-HKA-17 | | 3/4 | CL-17-TN | | | | |

ASSEMBLY COMPONENTS (METRIC)

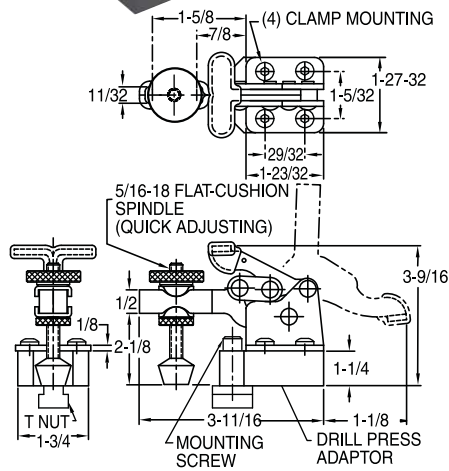
| PART NO. | STUD SIZE | TABLE-SLOT SIZE | T NUT | FORGED ADJUSTABLE CLAMP | FULLY THREADED STUD | KNURLED CHECK NUT | HAND KNOB |
|-------------------|-----------|-----------------|-----------|-------------------------|---------------------|-------------------|-------------|
| CLM-5-FACA-HKA | M8 | TAPPED | NONE | CL-6-FAC | CLM-8x80-FTS | CLM-8-TSJNI | CLM-2-HK-4A |
| CLM-5-FACA-HKA-19 | | 3/8 or 10mm | CLM-19-TN | | | | |
| CLM-6-FACA-HKA | M10 | TAPPED | NONE | CL-6-FAC | CLM-10x80-FTS | CLM-10-TSJNI | CLM-3-HK-4A |
| CLM-6-FACA-HKA-00 | | 12mm | CLM-00-TN | | | | |
| CLM-6-FACA-HKA-0 | | 1/2 | CLM-0-TN | | | | |
| CLM-6-FACA-HKA-1 | | 9/16 or 14mm | CLM-1-TN | | | | |
| CLM-8-FACA-HKA | M12 | TAPPED | NONE | CL-8-FAC | CLM-12x110-FTS | CLM-12-TSJNI | CLM-9-HK-9A |
| CLM-8-FACA-HKA-9 | | 9/16 or 14mm | CLM-9-TN | | | | |
| CLM-8-FACA-HKA-2 | | 5/8 or 16mm | CLM-2-TN | | | | |
| CLM-8-FACA-HKA-3 | | 11/16 or 18mm | CLM-3-TN | | | | |

DRILL-PRESS TOGGLE CLAMPS

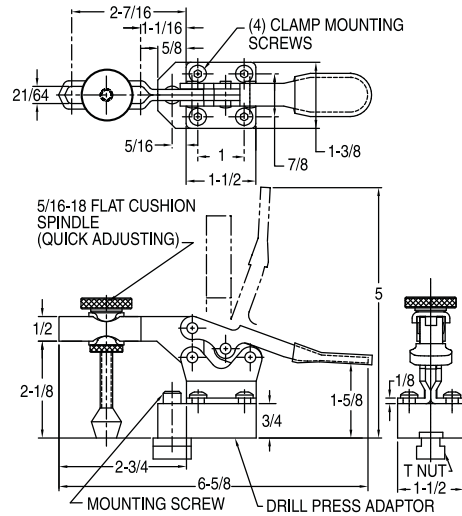
DRILL-PRESS ADAPTOR: 6061 ALUMINUM
OTHER COMPONENTS: SEE CATALOG PAGE
FOR EACH SPECIFIC ITEM



**Vertical
T Handle**



**Horizontal
Handle**



VERTICAL T HANDLE (INCH)

| PART NO. | MOUNTING SCREW SIZE | TABLE-SLOT SIZE | T NUT | DRILL-PRESS ADAPTOR | MOUNTING SCREW | CLAMP MOUNTING SCREW(4) | QUICK-ADJUSTING SPINDLE | HOLDING CAPACITY (LBS) |
|------------------|---------------------|-----------------|----------|---------------------|----------------------|-------------------------|-------------------------|------------------------|
| CL-300-VTCD-5 | 5/16-18 | TAPPED | NONE | CL-300-VTCA-6 | CL-5/16-18x1.75-SHCS | CL-1/4-20x.50-BHCS | CL-516212-FCQA | 350 |
| CL-300-VTCD-5-19 | | 3/8 or 10mm | CL-19-TN | | CL-5/16-18x1.50-SHCS | | | |
| CL-300-VTCD-5-20 | | 7/16 | CL-20-TN | | | | | |
| CL-300-VTCD-5-21 | | 1/2 | CL-21-TN | | | | | |
| CL-300-VTCD-6 | 3/8-16 | TAPPED | NONE | CL-300-VTCA-6 | CL-3/8-16x1.75-SHCS | CL-1/4-20x.50-BHCS | CL-516212-FCQA | 350 |
| CL-300-VTCD-6-00 | | 7/16 | CL-00-TN | | CL-3/8-16x1.50-SHCS | | | |
| CL-300-VTCD-6-12 | | 12mm | CL-12-TN | | | | | |
| CL-300-VTCD-6-0 | | 1/2 | CL-0-TN | | | | | |
| CL-300-VTCD-6-1 | | 9/16 or 14mm | CL-1-TN | | | | | |
| CL-300-VTCD-6-16 | | 5/8 or 16mm | CL-16-TN | | | | | |

HORIZONTAL HANDLE (INCH)

| PART NO. | MOUNTING SCREW SIZE | TABLE-SLOT SIZE | T NUT | DRILL-PRESS ADAPTOR | MOUNTING SCREW | CLAMP MOUNTING SCREW(4) | QUICK-ADJUSTING SPINDLE | HOLDING CAPACITY (LBS) |
|------------------|---------------------|-----------------|----------|---------------------|----------------------|-------------------------|-------------------------|------------------------|
| CL-450-HTCD-5 | 5/16-18 | TAPPED | NONE | CL-450-HTCA-6 | CL-5/16-18x1.75-SHCS | CL-1/4-20x.50-BHCS | CL-516212-FCQA | 500 |
| CL-450-HTCD-5-19 | | 3/8 or 10mm | CL-19-TN | | CL-5/16-18x1.50-SHCS | | | |
| CL-450-HTCD-5-20 | | 7/16 | CL-20-TN | | | | | |
| CL-450-HTCD-5-21 | | 1/2 | CL-21-TN | | | | | |
| CL-450-HTCD-6 | 3/8-16 | TAPPED | NONE | CL-450-HTCA-6 | CL-3/8-16x1.75-SHCS | CL-1/4-20x.50-BHCS | CL-516212-FCQA | 500 |
| CL-450-HTCD-6-00 | | 7/16 | CL-00-TN | | CL-3/8-16x1.50-SHCS | | | |
| CL-450-HTCD-6-12 | | 12mm | CL-12-TN | | | | | |
| CL-450-HTCD-6-0 | | 1/2 | CL-0-TN | | | | | |
| CL-450-HTCD-6-1 | | 9/16 or 14mm | CL-1-TN | | | | | |
| CL-450-HTCD-6-16 | | 5/8 or 16mm | CL-16-TN | | | | | |