Continuous Hinge

Typical hinge properties

- **Gauge:** 0.02” [0.5mm] to 0.250” [6.3mm]
- **Open Width:** 0.75” [19mm] to 8.0” [203mm]
- **Pin Diameter:** 0.062” [1.5mm] to 0.50” [12.7mm]
- **Knuckle Length:** 1/4” [6.3mm] to 2.0” [50mm], 1/2” [12.7mm] is the most common.
- **Standard Lengths:** 72” [1828mm], 84” [2133mm] & 96” [2438mm]
- **Standard Materials:** Steel, Stainless Steel and Aluminum
- **Standard Finishes:** Plain (bare metal), Zinc plate, Black (either black zinc plate or black powder coat)

Hinge Geometry

- **Standard**
  - Open leaves lay flat in the same plane, offset from the pin axis.
- **Reverse Swaged**
  - Simulates reversed assembly, closed leaves are not parallel.
- **Both Leaves Half-Swaged**
  - Open leaves lie in the same plane as the pin axis.
- **One Leaf Half-Swaged**
  - Open leaves are not coplanar, and both lie below the pin axis. The swage is half the pin diameter.
- **One Leaf Full-Swaged**
  - Closed leaves lie closely parallel. The swage is equal to the pin diameter.

*SWAGING is the forming of one or both leaves toward or beyond the centre of the pin.*

Formed and Unequal Leaves

Formed hinge leaves can be supplied in a variety of configurations. Width dimensions (W) should be taken from the pin centre line to the inside edge of the formed leaf. Height dimensions (H) of each formed leaf should be taken from the outside edge of the leaf, to the edge to the formed tip.

For unequal leaves, the widths are measured from the pin centre line, to the outer edge of each leaf.
Customise Your Hinge

### Length
Continuous hinges can be cut to exact lengths as required. Hinges should, however, be designed to a length that is a multiple of the knuckle length to eliminate partial knuckles. If a partial knuckle length cannot be avoided, please keep the following in mind:

1. Partial knuckle lengths should be the same as, or larger than, the knuckle diameter.
2. When partial knuckles are required on both ends, they should be on the same leaf.
3. Please be advised that continuous hinges with partial-end knuckles on one leaf may not rotate as freely as ones with full-end knuckles.

### Pin Retention
All standard continuous hinges are stocked with loose pins and flush cut ends, with the exception of steel and stainless steel hinges in thicknesses of .025" and .035", which will be staked to retain the pin. The following are among the methods used to retain the pins.

**Flush Pin Staked** - The most economical way to retain a pin is by staking it on the topside or backside of the knuckle.

**Pin Spun Both Ends** - This method is normally used only for tamper-proofing or for applications with severe vibrations.

### Pin Material
All standard hinges are supplied with like pin and leaf materials. However, a hinge can be ordered with a pin material different from the leaf. For example, a steel hinge with a brass pin.

### Piercing
Many designs for piercing are available. When ordering or requesting a quotation, include: hinge dimensions, hole diameter and type, hole centres, edge dimensions, and end dimensions. Ask about our standard hole patterns.

#### Common Piercing Designs

- **Round**
- **Obround (Vertical)**
- **Obround (Horizontal)**
- **Rectangular (Vertical)**
- **Rectangular (Horizontal)**
- **Square**
- **Notch-Radius End**
- **Notch-Square End**
- **Countersunk or Coined Holes**

**Note:** Countersinking is the removal of metal, whereas coining is the displacement of metal, and in some cases will leave a slight bulge on the leaf edge.
Common Continuous Hinge Sizes

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Gauge</th>
<th>Open Width</th>
<th>Length</th>
<th>Pin Diameter</th>
<th>Knuckle Size</th>
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Please contact TCH Customer Service (800.465.6281) for availability and price information

Slip Joint Hinges

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For “in-stock” information, contact TCH customer service 800.465.6281

Slip Joint Hinges

Slip-joint or “take apart” hinges are normally used when requirements call for doors to be removed.

- Available in left handed and right handed configurations, in plain steel (802), stainless steel (805), and aluminum (806).
- Leaves and Pin are supplied in the same type of material unless otherwise specified. Steel or aluminum hinges can be supplied with either stainless steel or brass pins.
- Can be pierced, swaged, formed, notched, or plated.
- Can be made to order in other gauges, widths, and lengths.

Example: 505-2825R805, is right handed stainless steel.
Butt Hinges

- Available in a wide range of sizes
- Available in plain steel, stainless steel, and aluminum.
- Available with or without holes.

Lead times and minimum order quantities may apply. Please speak to customer service (800.465.6281) or your sales representative for information.

Triangle Strap Hinges

505-2002800
2" Triangle Strap Hinge
Material: Steel | Color/Finish: Zinc plate | Weight: 0.05 lbs
- All Steel Construction.
- Zinc Plated
- Countersunk Mounting Holes
- Fixed Pin
- Available in sizes ranging from 2" to 12”.

505-2003800
3" Triangle Strap Hinge
Material: Steel | Color/Finish: Zinc plate | Weight: 0.08 lbs
- All Steel Construction.
- Zinc Plated
- Countersunk Mounting Holes
- Fixed Pin
- Available in sizes ranging from 2" to 12”.

505-2005800
5" Triangle Strap Hinge
Material: Steel | Color/Finish: Zinc plate | Weight: 0.37 lbs
- All Steel Construction.
- Zinc Plated
- Countersunk Mounting Holes
- Fixed Pin
- Available in sizes ranging from 2" to 12”.

505-2008800
8" Triangle Strap Hinge
Material: Steel | Color/Finish: Zinc plate | Weight: 0.95 lbs
- All Steel Construction.
- Zinc Plated
- Countersunk Mounting Holes
- Fixed Pin
- Available in sizes ranging from 2" to 12”.

See website for detailed drawings.
Specifications are subject to change without notice.
Formed Strap Hinges

505-2116800
16" Offset Mount Formed Strap Hinge
Material: Steel | Color/Finish: Zinc plate | Weight: 2.19 lbs
- Polished stainless steel construction.
- Large 16" x 2" strap.
- Offset overlapping flush mount.
- Washer spacers for easy movement.
- Reversed mounting plate for limited space applications.
- Available as a special order item.

505-2108800
8" Formed Strap Hinge
Material: Steel | Color/Finish: Zinc plate | Weight: 1.68 lbs
- Polished stainless steel construction.
- 8" x 2" strap.
- Straight flush mount.
- Washer spacers for easy movement.
- Available as a special order item.

505-21085800
8" Offset mount Formed strap hinge (not shown)
Material: Steel | Color/Finish: Zinc plate | Weight: 1.68 lbs
- Polished stainless steel construction.
- 8" x 2" strap.
- Straight flush mount.
- Washer spacers for easy movement.
- Available as a special order item.

505-2103805
Small Gusset Hinge
Material: Stainless Steel | Finish: Bright Polish | Weight: 0.25 lbs
- Polished stainless steel construction.
- 3" strap length.
- Flush mount.
- Available in left and right hand configurations.
- Countersunk mounting holes.
- Available as a special order item.

505-2105805
Large Gusset Hinge
Material: Stainless Steel | Finish: Bright polish | Weight: 0.69 lbs
- Polished stainless steel construction.
- 5" strap length.
- Flush mount.
- Available in left and right hand configurations.
- Countersunk mounting holes.
- Available as a special order item.
Polished Stainless Steel Strap Hinges

**505-2203805**
Small Flat Strap Hinge
Material: Stainless Steel | Finish: Bright Polish | Weight: 0.19 lbs
- Polished stainless steel construction.
- Available with round or square holes.
- 3” strap length.

**505-2205805**
Medium Flat Strap Hinge
Material: Stainless Steel | Finish: Bright Polish | Weight: 0.58 lbs
- Polished stainless steel construction.
- Available with round or square holes.
- 5” strap length.

**505-2208805**
Large Flat Strap Hinge
Material: Stainless Steel | Finish: Bright Polish | Weight: 1.59 lbs
- Polished stainless steel construction.
- Available with round or square holes.
- 8” strap length.
- Washer spacers for easy movement.
- Available as a special order item.

Polished Stainless Steel Butt Hinges

**Removable Slip Hinge**
Material: Stainless Steel | Finish: Bright Polish | Weight: 0.78 lbs
- Polished stainless steel construction.
- Lift-off style hinge.
- Available in left and right hand configurations.
- Washer spacer for easy movement.
- Countersunk mounting holes.
- Available as a special order item.

**Overlapping Butt Hinge**
Material: Stainless Steel | Finish: Bright Polish | Weight: 0.46 lbs
- Polished stainless steel construction.
- Decorative styling.
- Reversed mounting plate for limited space applications.
- Washer spacers for easy movement.
- Countersunk mounting holes.
- Available as a special order item.
Die-Cast and Plastic Hinges

555-96-50-500 & 555-96-10-500 Series
In-Line Lift-Off hinges
Material: Die-Cast, Stainless Steel or Plastic | Color/Finish: Black or Polish (SS only)
- Lift-off style allows for removable or fixed applications.
- All mounting hardware is concealed.
- Zinc die-cast construction. Also available in stainless steel, and plastic versions.
- M5 or UNC 10-32 tapped thread holes.

555-96-50-510 & 555-96-50-520 series
Offset Lift-Off hinges
Material: Die-Cast, Stainless Steel or Plastic | Color/Finish: Black or Polish (SS only)
- Lift-off style allows for removable or fixed applications.
- All mounting hardware is concealed.
- Zinc die-cast construction.
- Available in right or left pin placement.
- M5 or UNC 10-32 tapped thread holes.

555-96-111 & 555-96-112 Series
Mini Offset Lift-Off hinges
Material: Die-Cast | Color/Finish: Black
- Lift-off style allows for removable or fixed applications.
- All mounting hardware is concealed.
- Zinc die-cast construction.
- Available in right or left pin placement.
- Also available in an in-line configuration.
- M4x0.7 or UNC 6-32 tapped thread holes.

555-96-700 Series
Decorative Lift-Off hinges
Material: Plastic | Color/Finish: Black or Chrome plate
- Lift-off style allows for removable or fixed applications.
- All mounting hardware is concealed.
- Plastic construction in black or chrome plate.
- Mounts with 4 blind mounting holes.
- Use thread forming screws. (Available, not included)

555-EH-8 Series
Bolt-On Hinge
Material: Brass | Color/Finish: Chrome plate
- Easy to install.
- Zinc die-cast construction.
- 180 degree swing.
- Quick, stud mount for panel/door.
- Threaded stud.

555-G6 series
Positioning-Advantage Hinge
Material: Plastic | Color/Finish: Black
- Holds door open without secondary mechanical support.
- Holds position at 0, 120, and 170 degrees.
- Snap on covers conceal hardware.
- Free Swinging style available.
- All plastic construction.
555-E6-200 & 400 series
Constant Torque Friction Hinge
Material: Die-Cast, Steel pin | Color/Finish: Black
- Holds door in any position.
- Constant torque through full range of motion.
- Die-cast aluminum construction with steel pin.
- Available in different torque and weight ratings.
- Available in black or natural aluminum.

555-E6-10-101 series
Adjustable Friction Hinge
Material: Plastic | Color/Finish: Black or White
- Holds door in any position.
- Adjust the holding tension with the turn of a screw.
- Concealed mounting hardware.
- All plastic construction
- Uses zinc plated steel nuts, included.

Concealed Hinges

505-321635900
Concealed Hinge Removable Pin
Material: Die-cast | Color/Finish: Black | Weight: 0.12 lbs
- Easy to install.
- Zinc die-cast construction.
- Removable pin.
- 180 degree swing.
- Quick, stud mount for panel/door.
- Threaded stud.

505-312109800
Concealed Adjustable Hinge
Material: Steel | Color/Finish: Zinc plate | Weight: 0.19 lbs

505-312109805
Material: Stainless Steel | Color/Finish: Plain | Weight: 0.19 lbs
- Concealed, adjustable hinge with 120 degree opening angle.
- Removable pin for quick door removal.
- Reversible left and right, 6 mm of vertical adjustment.

505-312111800
Offset Concealed Adjustable Hinge
Material: Steel | Color/Finish: Zinc plate | Weight: 0.18 lbs

505-312111805
Material: Stainless Steel | Color/Finish: Plain | Weight: 0.18 lbs
- Concealed, adjustable hinge with 120 degree opening angle.
- Removable pin for quick door removal.
- Reversible left and right, 6 mm of vertical adjustment.
- Offset for more compact design

505-1867800
Light Duty Hinge with Removable Pin
Material: Steel | Color/Finish: Zinc plate | Weight: 0.30 lbs
- Zinc plated steel construction.
- Adjustable mounting holes.
- Removable pin with e-clip for quick door removal.
Spring Bolt Hinges

555-F6-23 Series
Concealed Removable Hinge
Material: Steel or Stainless Steel | Color/Finish: Zinc plate or Plain

- Mounts inside the frame of formed doors.
- Allows the door to be removed from the hinge side.
- Hinge and hardware are concealed.
- Spring loaded pins slide for removal.
- Available in plain steel and stainless steel.

555-F6-23 Series
Removable Spring Pin Hinge
Material: Steel or Stainless Steel | Color/Finish: Zinc plate or Plain

- Zinc plated low carbon steel with a stainless steel spring.
- Easy to install and operate.
- Spring loaded pin slides for easy and quick removal.
- Functions as a hinge or a latch.

CONSTANT-TORQUE HINGES PROVIDE SMOOTH, RELIABLE POSITIONING FOR DISPLAY SCREENS, PANELS, AND COMPACT APPLICATIONS

CEMA Positioning Technology provides the most versatile range of innovative positioning solutions. It’s applications include such industries as: automotive, telecommunications, computers and electronics, and medical.

Choose from frictional-torque, dampening, and stored-energy technologies – in standard or custom designs – for refined ergonomic motion and reliable long-lasting performance in positioning control.

- Available in a broad selection of torque values to satisfy a variety of applications ranging from small antenna adjustment and covers on hand-held electronics, to larger video screens, headrests, and overhead doors.
- Space-efficient designs are available with symmetric torque or asymmetric torque, or counterbalanced to compensate for the weight of a door or panel.
- Rugged construction for long life cycle.
- Smooth operation with zero backlash.
Weld-on Hinges are widely used for electrical enclosures, cab doors, tool boxes, wood stoves, roof hatches, utility and dump bodies, trailers, food service carts, etc. Made from low carbon steel, stainless steel, and aluminum alloy to service a wide range of applications. Available with fixed pins, and fixed pins with a grease fitting for lubrication.

### STEEL - with steel pin

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### STEEL - with brass pin

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### ALUMINUM - with stainless steel pin

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