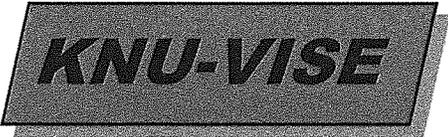
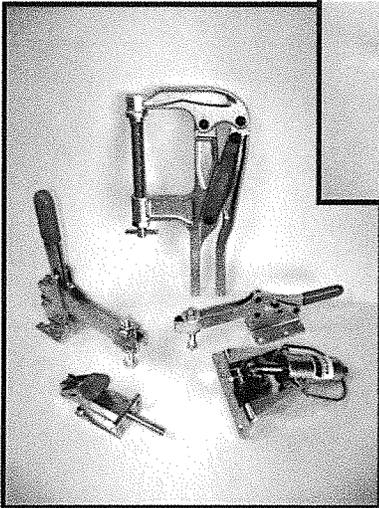
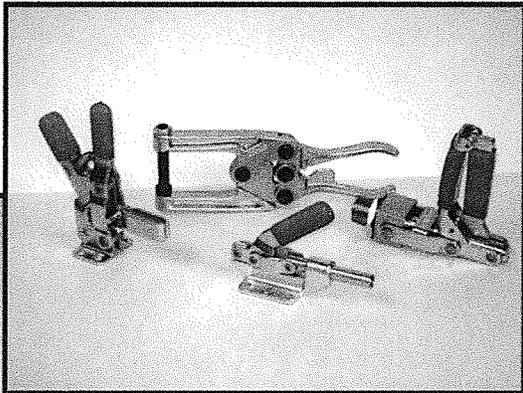


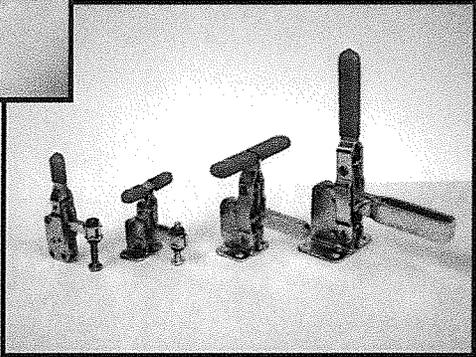
KNU-VISE



INDUSTRY'S TOUGHEST CLAMPS



THE AMERICAN CLAMP LINE



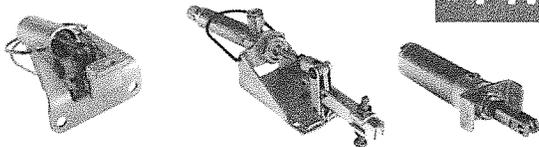
Pneumatic & Hydraulic Clamps

Hand Toggle Clamps

Push & Pull Clamps

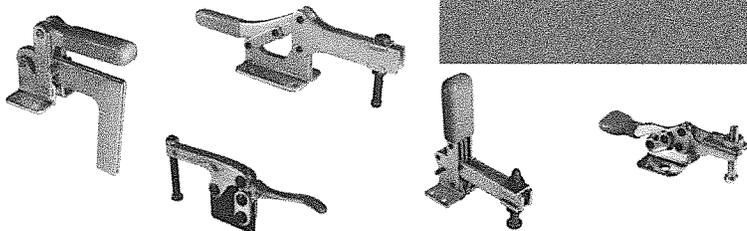
Pliers & "C" Clamps

PNEUMATIC & HYDRAULIC CLAMPS



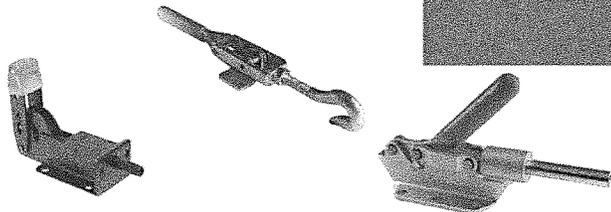
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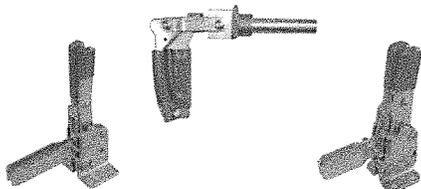
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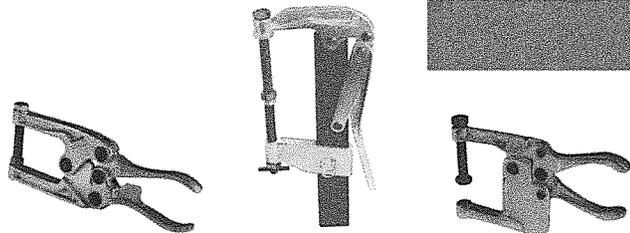
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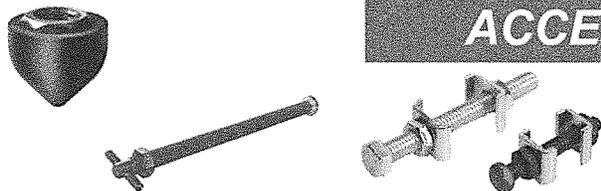
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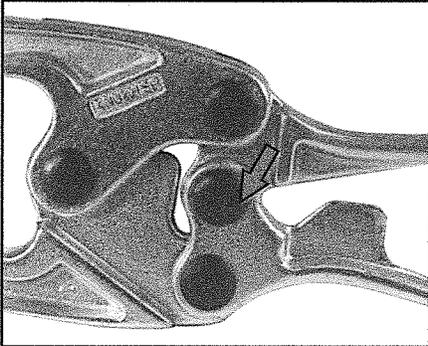
KNU-VISE

THE AMERICAN CLAMP LINE

INDUSTRY'S TOUGHEST CLAMPS

Lapeer Manufacturing Company was established in 1946 to meet the growing need for flexible fixturing in the post WWII era aerospace industry. Since that time the company has worked tirelessly to support a wide range of industries that require innovative and flexible solutions to a variety of workholding and clamping challenges. Today, toggle clamps can be found in a nearly endless variety of applications across an equally broad range of industries. From basic welding and fabricating, to mining and agriculture, to quality control and defense, it is difficult to find an industry where toggle clamps have not proven their versatility and economy.

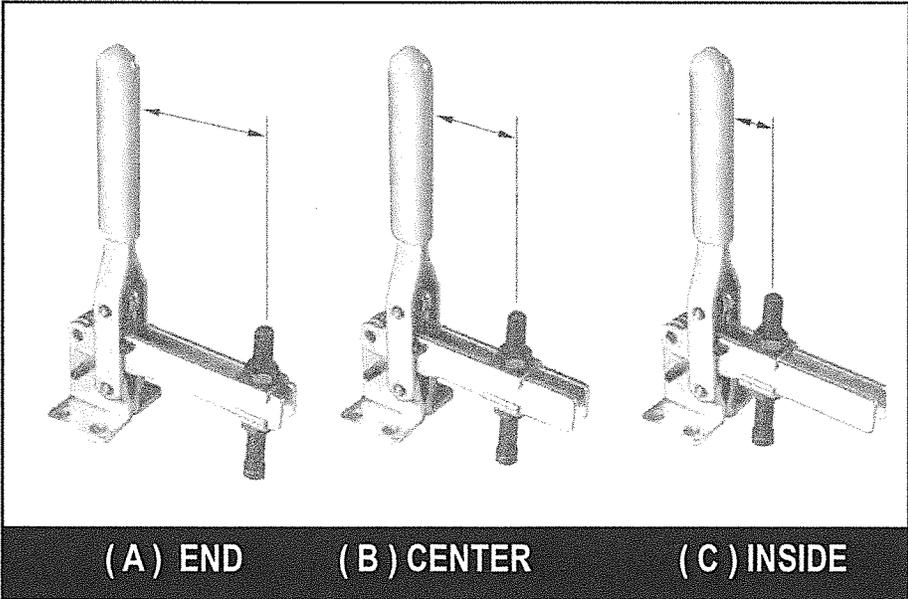
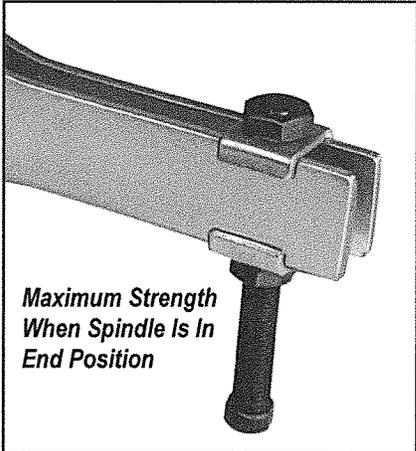
The rigorous demands of such a wide variety of customers has driven Lapeer Manufacturing Company to continuously refine and improve our Knu-Vise brand of toggle clamps. With so many challenges brought to the marketplace by the global economy, the last thing a customer wants



Heat-Treated Wear Components

to worry about is the performance and reliability of a fundamental component like a toggle clamp. To achieve that kind of worry-free performance, the Knu-Vise line of toggle clamps is manufactured with only the highest quality and time proven materials processed and assembled to exacting specifications. All critical components are heat-treated and each clamp is carefully inspected and tested throughout the manufacturing process to ensure reliability, performance and long life.

Perhaps the surest sign that our clamps are the toughest around can be found in how we rate their workholding force. When determining a clamp's holding force, most companies measure this with the spindle at the inside, or in the center, of the clamping arm (photo B & C below). However, that's the point at which a clamp's holding force is the strongest... clamps rated in this manner usually operate with much less holding force with the spindle down near the end of the bar (photo A below).



In contrast, Knu-Vise is committed to producing the toughest clamps around. As a result, we test the holding force of our clamps with the spindle at the end of the clamping arm (photo A)...where the workholding force is at the minimum. That means that, unlike our competitors, all Knu-Vise clamps perform with the holding force they are rated for, or better, regardless of where the spindle is located on the clamping arm.

TECHNICAL INFORMATION

Knu-vise clamps are designed to give our users the longest-lasting, most productive life possible, even in the harshest shop environments. Following is technical information common to our entire clamp lineup.

Engineering Drawings/ Templates

WWW.KNU-VISE.COM

Visit our website to download engineering drawings/templates in DXF, IGES and STEP formats. 2D files are available for all products and new 3D files are being added as they become available.

Clamping Force

The range of toggle action clamping needs is conveniently covered by the 50, 100, 200, 300, 400, 600, 800, 1000, 1200, 1600, 1800, and 2000 fixed mounted clamp series. These identifying clamp numerals represent the recommended clamping forces in pounds at the end of the toggle bar or jaw.

The recommended clamping forces represent the forces for actual clamping; not holding force at failure of the clamp, or the maximum force. The recommended clamping forces can be increased by 15% - 20% for maximum loading, or "holding force." In the case of heavy-duty clamps, the increase may be 115% - 120%; i.e., the V-400 clamp has a maximum clamping force of $400 + 80 = 480$ lbs. The heavy-duty model V-400-HD has a maximum clamping force of $400 + 480 = 880$ lbs.

Stainless Steel

Lapeer offers sturdy stainless steel construction in some of its clamps. This is a very strong, heat-resistant, non-magnetic steel used often in the food processing industries because of its resistance to chemical and acid deterioration.

Heavy-Duty Models

Heavy-duty clamps are made from C.R.S. bar stock and include hardened, high-grade alloy bearing bolts with self-locking nuts. These nuts permit the maintaining of minimum side play, and allow for the replacement of any part.

Custom & Special Clamps

In addition to the complete line of application engineered products in our catalog, Knu-Vise has pre-engineered designs on file for special builds. Our engineering department can offer engineering assistance on any unique toggle clamp or toggle plier application you may have need of.

Heat Treatment

All parts, according to their mechanical functions, stresses, strains, and wear are scientifically heat treated. This process provides the needed mechanical properties for proper operation and longer life.

Finishes

The plating on most Knu-Vise steel toggle clamp parts is Blue-Brite zinc, which conforms to government specification QQZ325 Type I, Class III for environmental standards.

NOTE:

The manufacturer reserves the right to change or modify the materials, finishes, engineering dimensions and specifications in this catalog without prior notification to improve the performance and reliability of its products.

ABOUT CLAMPING/ACTIONS

Holding Force

Holding force is the maximum strength of a clamp in its closed position (without deflection considerations). It is the capacity of the clamp to operate without loss of function or creating damage to the clamp components. While many clamp manufacturers measure holding force with the spindle at the front of the clamping arm, Knu-Vise clamps are rated for holding force with the spindle at the end of the bar - where holding capacity is most critical. This means Knu-Vise clamps double and sometimes triple their force rating when measured toward the front of the bar.

Clamping Force

The clamping force applied by a clamp as it is closing is less than its holding capacity. A variety of factors can influence the force of a manually-operated clamp, including:

- ◆ The position of the spindle
- ◆ The adjustment of the spindle between the clamp arm and workpiece
- ◆ The force exerted by the operator

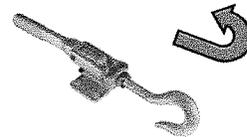
Holding Force

The Knu-Vise/Lapeer lineup of various toggle clamp systems can be broken down into four types of clamping action:

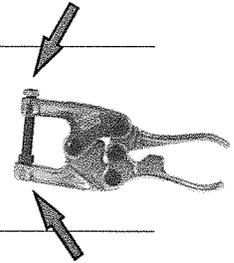
◆ DOWN-FORCING ACTION



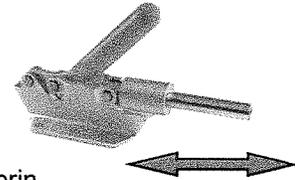
◆ PULL ACTION



◆ SQUEEZE (PLIER) ACTION



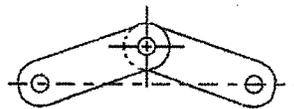
◆ STRAIGHT LINE ACTION



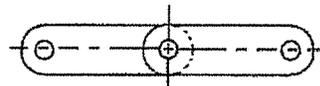
Each Knu-Vise clamp uses the over-center locking-toggle principle to achieve tremendous force multiplication.

Toggle Operation Principle

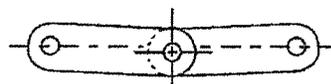
The maximum attainable pressure for any clamp system comes when the three pivot points are in a straight line. However, various factors (such as vibration and intermittent loading) in an industrial environment can break or interrupt the lock of such a design. Therefore, over-center travel is designed into the toggle clamp by allowing one pivot to move beyond the straight line position. To assure this locked condition, the amount of over-center travel has been accurately calculated through years of proven research and experimentation to yield maximum clamping pressure while still achieving a positive locking position.



◆ TYPICAL TWO LINK MECHANISM



◆ THEORETICAL LOCK



◆ POSITIVE LOCK (OVER THE CENTER)

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*P-804.....	80632	74
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*P-1206-2S.....	80710	78
*P-1600-2S.....	80750	75
*P-1603-2S.....	80752	78
*P-1604-2S.....	80754	78
*P-1606-2S.....	80756	78
*P-1800-2S.....	80766	75
*P-2400-2S.....	80776	75

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*P-1203X4.....	80662	76
*P-1204X4.....	80682	76
*P-1206X4.....	80702	76
*P-1200X6.....	80644	76
*P-1203X6.....	80664	76
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*P-1206X6.....	80704	76
*P-1200X8.....	80646	76
*P-1203X8.....	80666	76
*P-1204X8.....	80686	76
*P-1206X8.....	80706	76
*P-1200X4-2S.....	80652	76
*P-1203X4-2S.....	80672	76
*P-1204X4-2S.....	80692	76
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*P-1200X6-2S.....	80654	76
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*P-1204X4-L.....	80688	76
*P-1206X4-L.....	80703	76
*P-1203X6-L.....	80665	76
*P-1204X6-L.....	80685	76
*P-1206X6-L.....	80705	76
*P-1203X8-L.....	80667	76
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* Available with Lever Unlocking

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V-200-SS.....	80127	35
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V-375.....	80116	37
V-400.....	80104	38
V-600.....	80117	39
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V-1200.....	80112	40

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REPLACEMENT PARTS**

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ORDERING INFORMATION**CONDITIONS OF SALE:**

Sales are made in accordance with our standard conditions of sale which is current at the time orders are accepted. All specifications and prices are subject to change without notice.

QUOTATIONS:

All quotations will be subject to acceptance within thirty days from the date of quotation unless otherwise specified.

TERMS OF PAYMENT:

All invoices dated 1st —15th are offered a 1% discount if paid by the 25th of same month. Invoices dated 16th—31st are offered a 1% discount if paid by the 10th of the following month. All invoices are net in 30 days. Overdue accounts are subject to a 1.5% service charge per month.

DELIVERY TERMS:

Shipped per customer's request and expense. Commonly carried via UPS (or similar) unless specified.

RESTOCKING CHARGE:

All sales are final, however, under certain conditions permission to return standards may be taken subject to a restocking charge. Please contact our customer service department.

OVER AND UNDERSHIPMENTS:

Unless otherwise agreed upon, all specials and non-stocked standards will be subject to +/- 10% over or under shipment.

SPECIAL ORDERS:

Custom engineered and manufactured products are available. Call us with your special application and request for quote.

PNEUMATIC & HYDRAULIC CLAMPS

Clamps in this lineup are activated by pneumatic or hydraulic cylinders, and are available in holding capacities from 50-2000 lbs. (at the end of the toggle bar). These clamps feature very durable construction and smooth operation, making them excellent for use in high-repetition production and automation. A double-acting design means these clamps remain locked closed even with the loss of air or oil pressure. Cylinders and clamp assemblies are available individually. Knu-Vise pneumatic and hydraulic clamps are available in various configurations, including:

Front mount For use with rotary indexing tables and injection molding operations.

Straight line The straight-ahead "pushing" or "plunging" action of this clamp utilizes the power from the cylinder. Excellent for remote or automated control applications.

Vertical air-operated The narrow side profile of this clamp makes it perfect for use on thermo-forming machines.

Note: To operate, air pressure of 80-85 psi is required, or the equivalent hydraulic pressure.

Features:

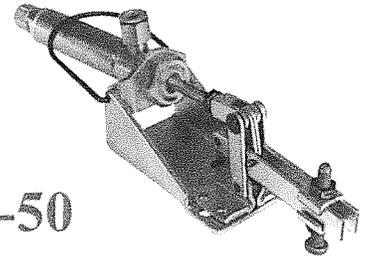
- ◆ A double-acting design means Knu-Vise Pneumatic and Hydraulic clamps will not release work should the air or oil pressure fail. (Note: Model numbers followed with an "SA" designation employ a single action with a spring return.)
- ◆ The Air-Operated Vertical (AOV) clamp lineup for thermo-forming machines offers narrow side profile, which save floor and machine space and protects cylinders and air lines from damage.
- ◆ Pneumatic and Hydraulic cylinders are available without the clamp assembly for your replacement needs. Welded, high-quality cylinders are equipped with: high quality "O" rings, large phosphor-bronze piston-rod bearings; chrome plated piston rods.
- ◆ Clamp proper is available individually, without cylinder.
- ◆ Seals capable of withstanding temperatures of 450 degrees Fahrenheit are optional.
- ◆ Heavy-duty models available with solid toggle bars.

Pneumatic Operation

When operated pneumatically, restrictor fittings control the opening/closing speed of the clamp, and provide a cushioning effect that eliminates hammerlike action.

Hydraulic Operation

When operated hydraulically, the hole in each restrictor fitting must be enlarged to the same diameter as the hole in the cylinder end cap, or the fittings must be replaced by adapters with such holes, to obtain the same opening/closing speed, as when operated by air.



AO-50

UPC No. 81100

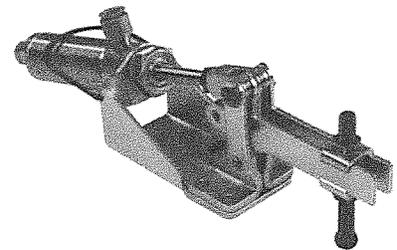
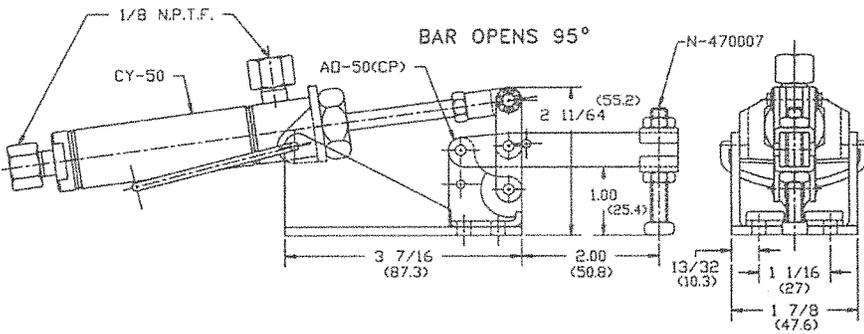
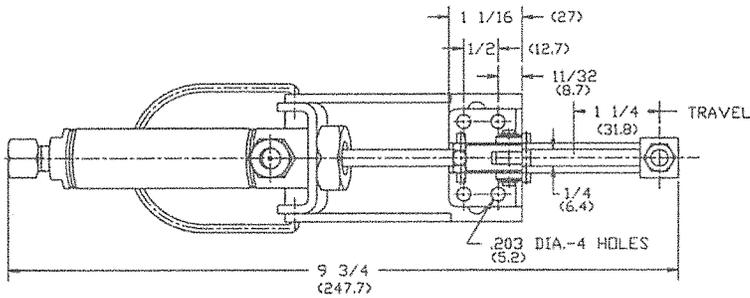
Holding Capacity:

At End of
 Toggle Bar..... 50 lbs/23 kg
 3/4" in Front
 of Base..... 130 lbs/0.60 kg
Weight..... 0.94lb/0.43 kg
Included..... Spindle Assembly
 (N-470007)

AO-50-CP

UPC No. 81101

Note: Clamp Proper Only



AO-101

UPC No. 81103

Holding Capacity:

At End of
 Toggle Bar..... 100 lbs/45 kg
 15/16" in Front
 of Base..... 185 lbs/84 kg
Weight..... 2.0 lbs/0.91 kg
Included..... Spindle Assembly
 (N-470005)

AO-101-CP

UPC No. 81104

Note: Clamp Proper Only

AO-101-SA

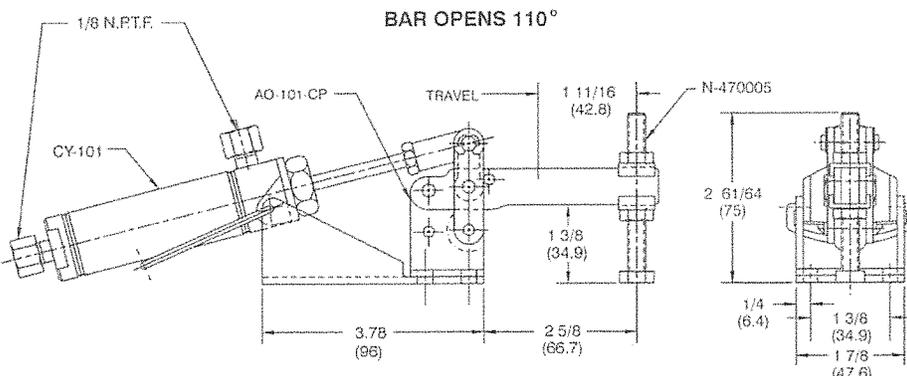
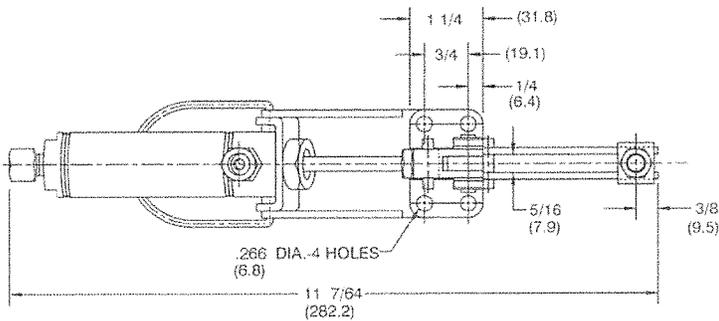
UPC No. 81106

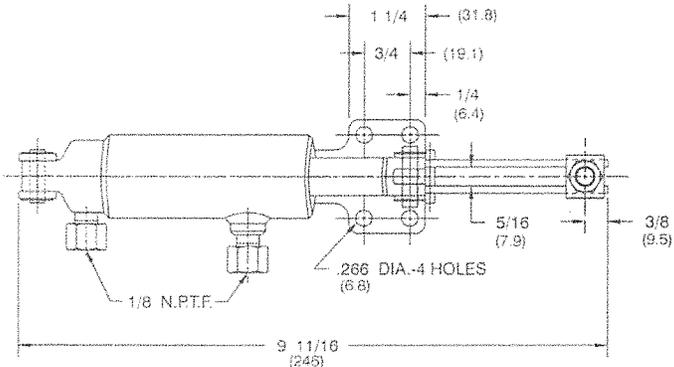
Note: Single Acting Spring Return

AO-101-SA-CP

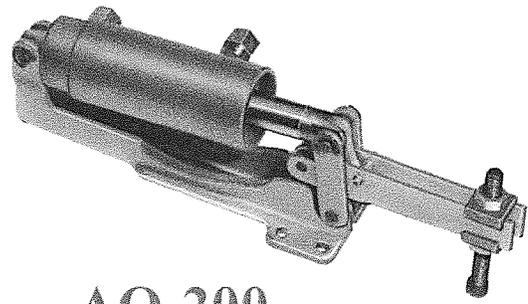
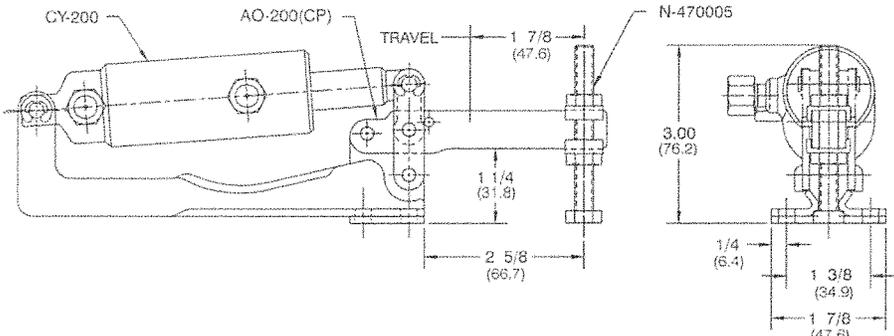
UPC No. 81107

Note: Clamp Proper Only





BAR OPENS 110°



AO-200

UPC No. 81110

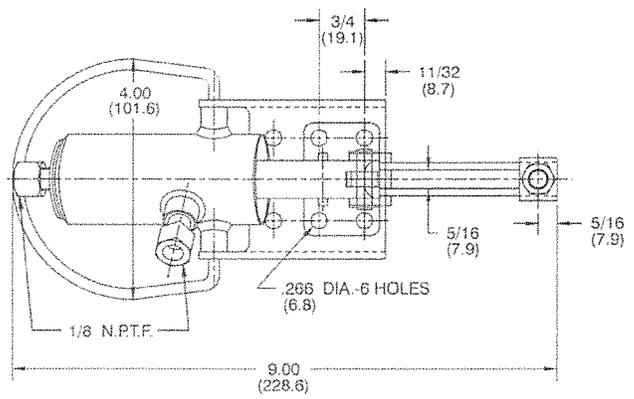
Holding Capacity:

- At End of Toggle Bar.....200 lbs/90 kg
- 5/16" in Front of Base.....380 lbs/172 kg
- Weight.....2.30 lbs/1.04 kg
- Included.....Spindle Assembly (N-470005)

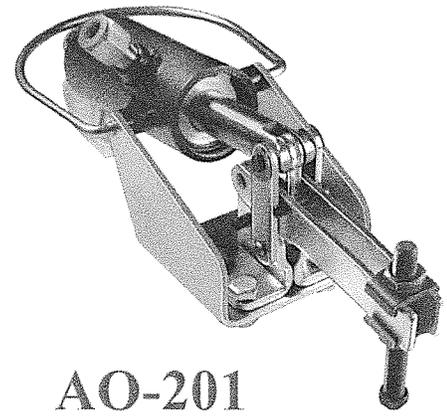
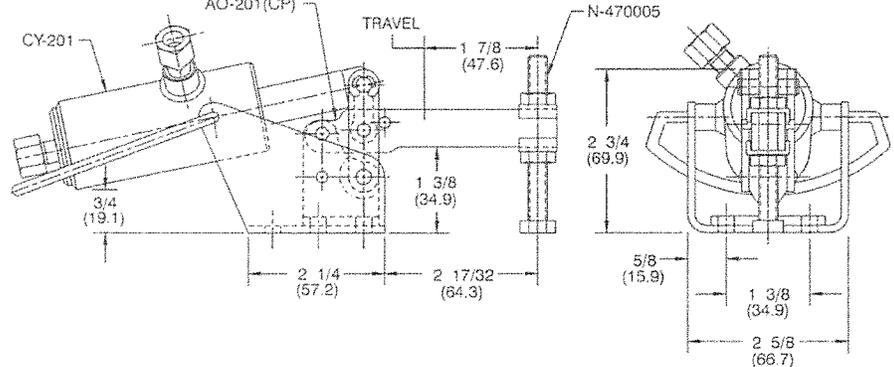
AO-200-CP

UPC No. 81111

Note: Clamp Proper Only



BAR OPENS 110°



AO-201

UPC No. 81120

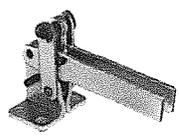
Holding Capacity:

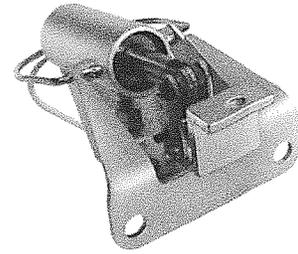
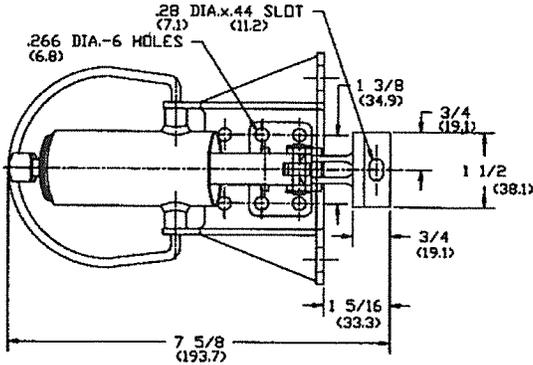
- At End of Toggle Bar.....200 lbs/90 kg
- 3/4" in Front of Base.....380 lbs/172 kg
- Weight.....2.42 lbs/1.10 kg
- Included.....Spindle Assembly (N-470005)

AO-201-CP

UPC No. 81121

Note: Clamp Proper Only; Available with Front Mount





AO-201-SP

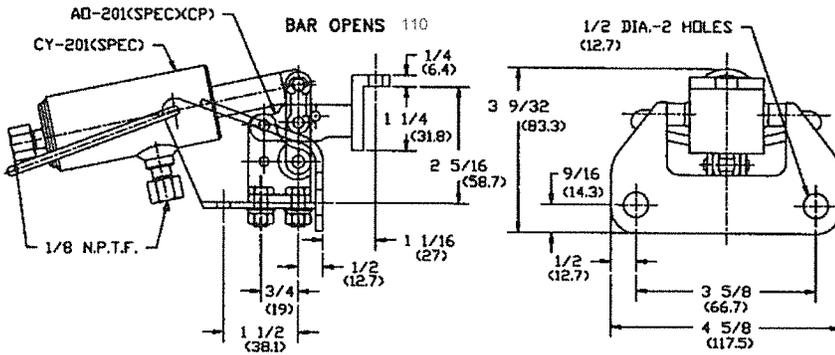
UPC No. 81201

Holding Capacity:

At End of Bracket..... 300 lbs/135 kg

Weight..... 2.98 lbs/1.35 kg

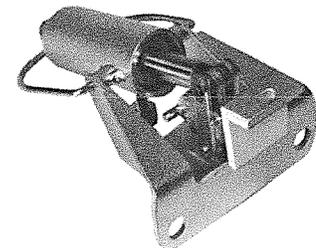
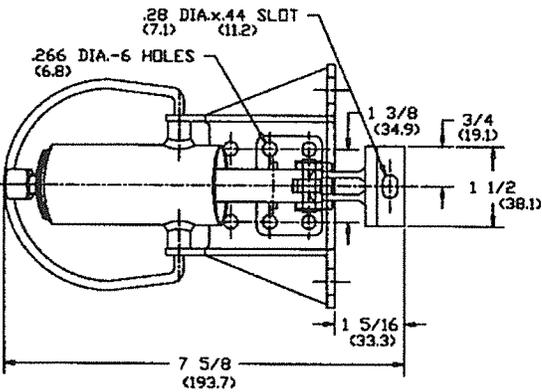
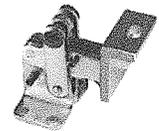
Note: For thermo-forming machine clamping. Cylinders are supplied with silicone "O" rings in order to withstand up to 450 degrees F.



AO-201-SP-CP

UPC No. 81123

Note: Clamp Proper Only



AO-202-SP

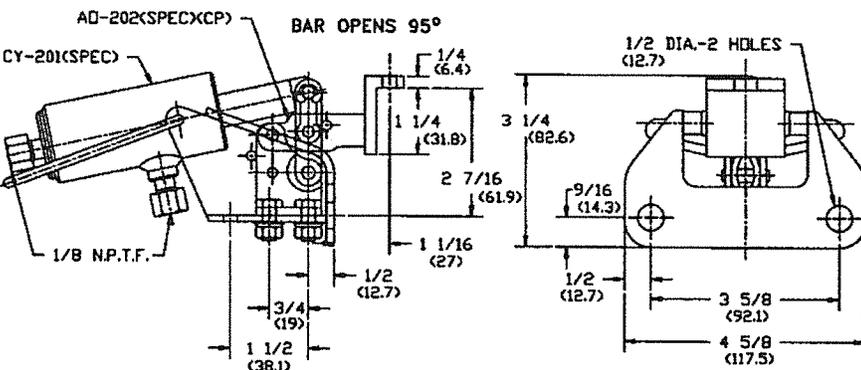
UPC No. 81202

Holding Capacity:

At End of Bracket..... 300 lbs/135 kg

Weight..... 2.98 lbs/1.35 kg

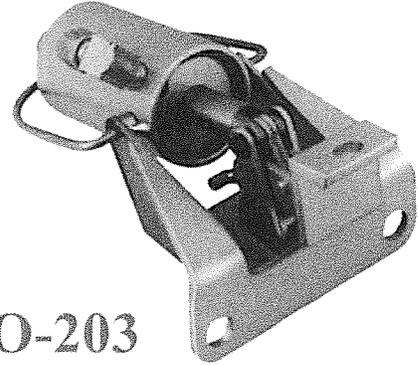
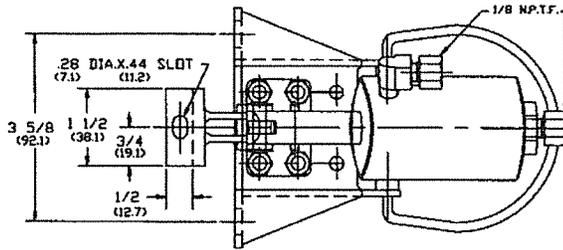
Note: For thermo-forming machine clamping. Cylinders are supplied with silicone "O" rings in order to withstand up to 450 degrees F.



AO-202-SP-CP

UPC No. 81133

Note: Clamp Proper Only



AO-203

UPC No. 81134

Holding Capacity:

At End of Plate..... 300 lbs/135 kg

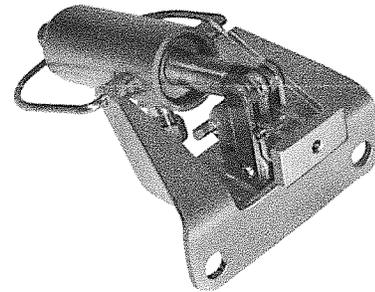
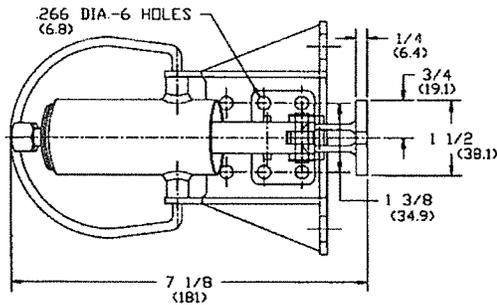
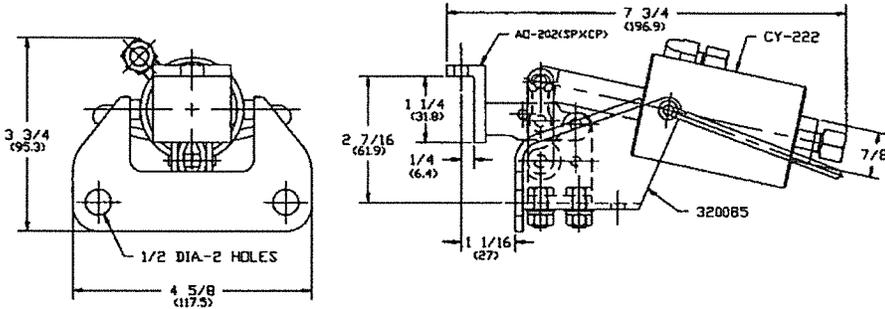
Weight..... 3.52 lbs/1.60 kg

Note: For thermo-forming machine clamping. Cylinders are supplied with silicone "O" rings in order to withstand up to 450 degrees F. Larger bore cylinder for increased clamping force.

AO-203-CP

UPC No. 81136

Note: Clamp Proper Only



AO-219

UPC No. 81132

Holding Capacity:

At End of Plate..... 300 lbs/135 kg

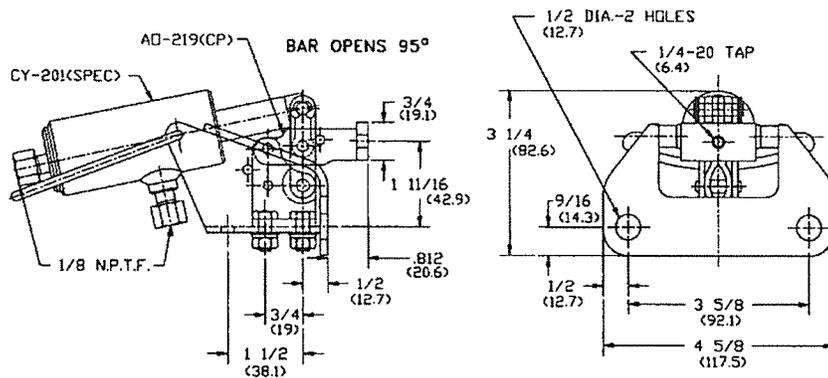
Weight..... 2.88 lbs/1.31 kg

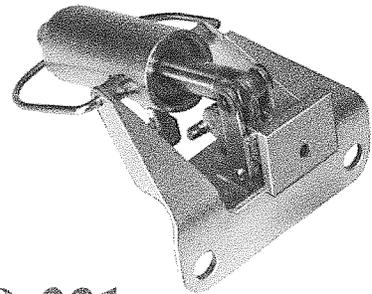
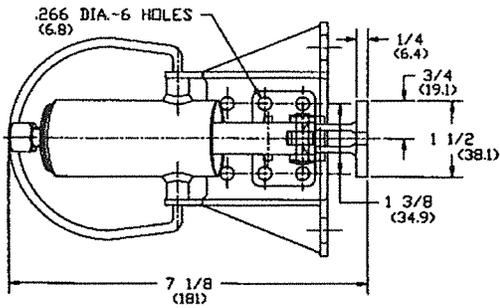
Note: For thermo-forming machine clamping. Cylinders are supplied with silicone "O" rings in order to withstand up to 450 degrees F.

AO-219-CP

UPC No. 81138

Note: Clamp Proper Only





AO-221

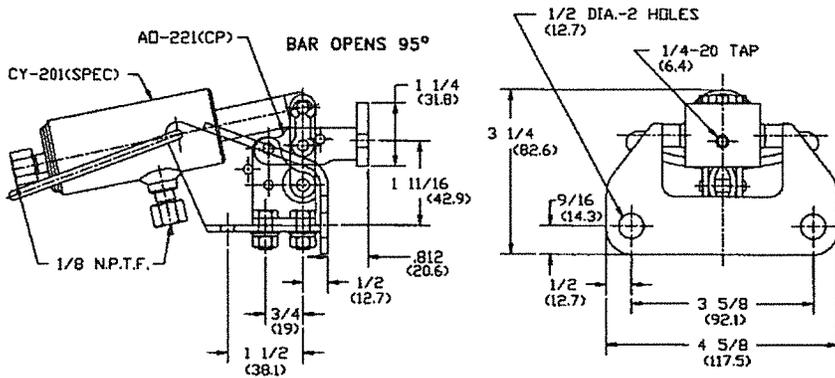
UPC No. 81135

Holding Capacity:

At End of Plate..... 300 lbs/135 kg

Weight..... 2.94 lbs/1.33 kg

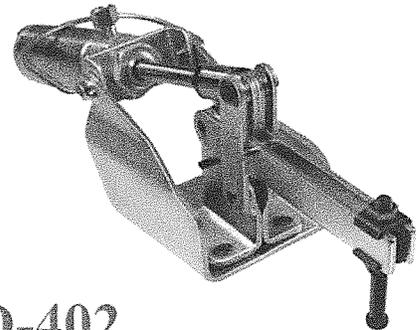
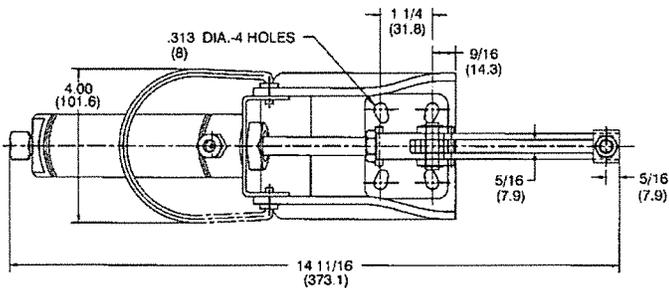
Note: For thermo-forming machine clamping. Cylinders are supplied with silicone "O" rings in order to withstand up to 450 degrees F.



AO-221-CP

UPC No. 81142

Note: Clamp Proper Only



AO-402

UPC No. 81146

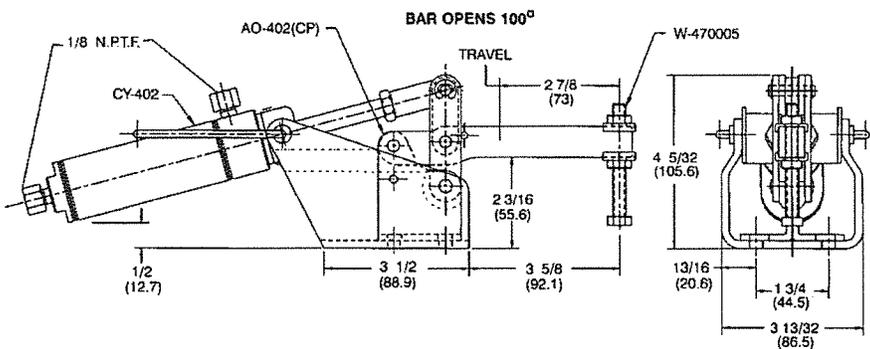
Holding Capacity:

At End of Toggle Bar..... 400 lbs/180 kg

1 - 1/8" in Front of Base..... 760 lbs/345 kg

Weight..... 3.87 lbs/1.76 kg

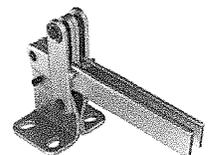
Included..... Spindle Assembly (W-470005)

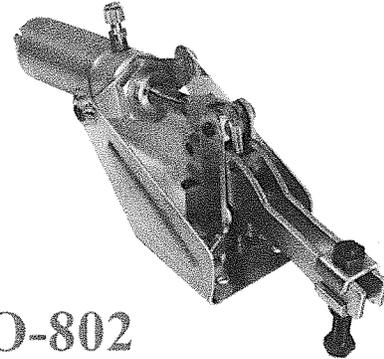
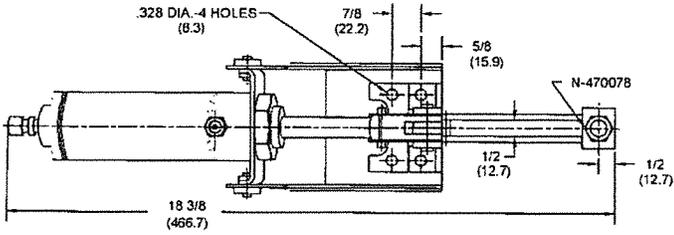


AO-402-CP

UPC No. 81147

Note: Clamp Proper Only





AO-802

UPC No. 81159

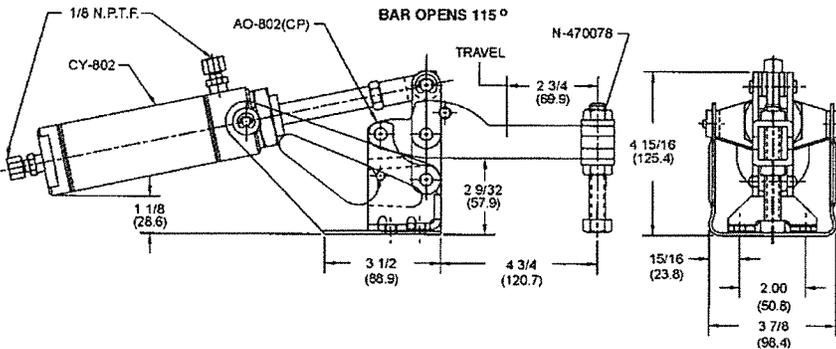
Holding Capacity:

At End of
Toggle Bar..... 800 lbs/360 kg
2" in Front

of Base..... 1300 lbs/590 kg

Weight..... 6 lbs/2.75kg

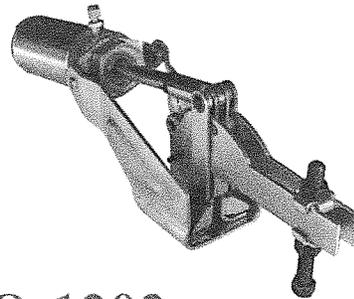
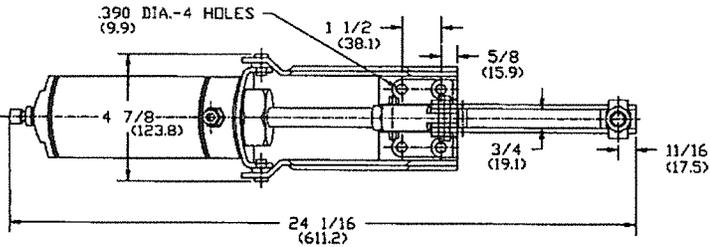
Included..... Spindle Assembly
(N-470078)



AO-802-CP

UPC No. 81259

Note: Clamp Proper
Only



AO-1203

UPC No. 81179

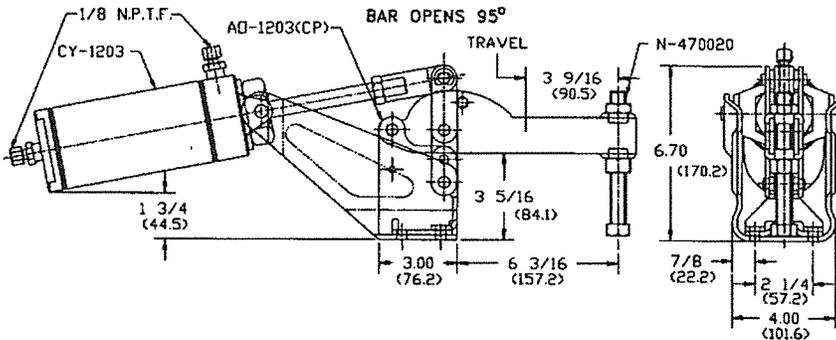
Holding Capacity:

At End of
Toggle Bar..... 1200 lbs/540 kg
2 - 5/8" in Front

of Base..... 2040 lbs/925 kg

Weight..... 20.13 lbs/9.13kg

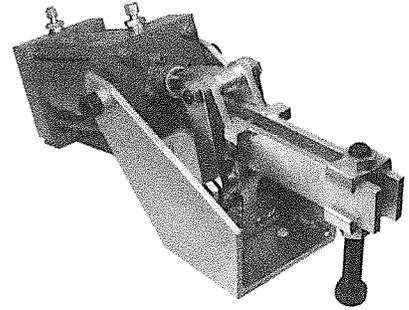
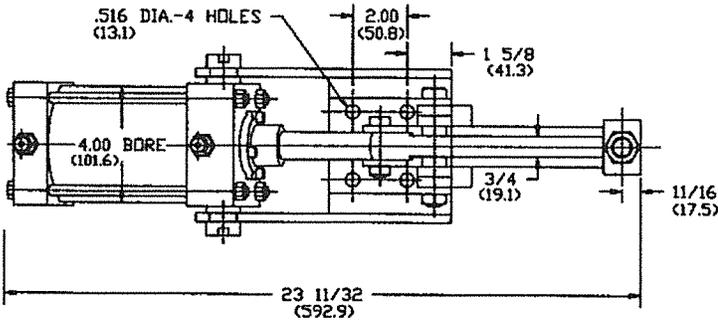
Included..... Spindle Assembly
(N-470020)



AO-1203-CP

UPC No. 81277

Note: Clamp Proper Only



AO-2001

UPC No. 81183

Holding Capacity:

At End of

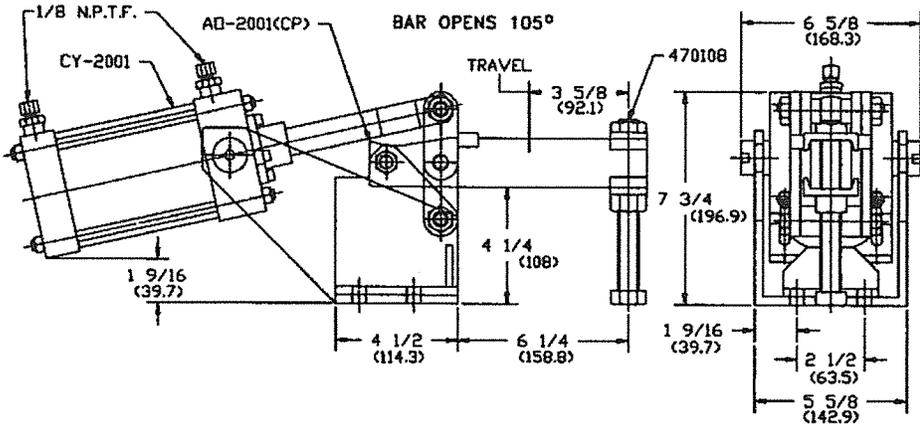
Toggle Bar.....2000 lbs/900 kg

2 - 5/8" in Front

Of Base.....3380 lbs/1533 kg

Weight.....46.69 lbs/21.18 kg

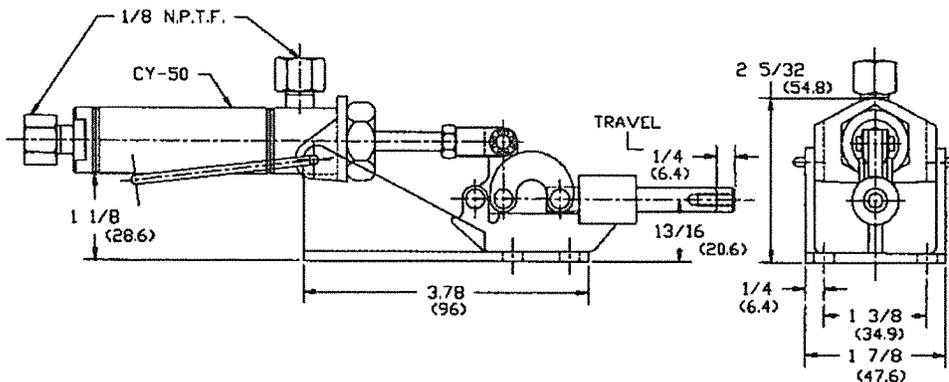
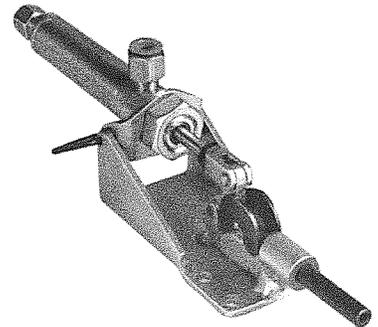
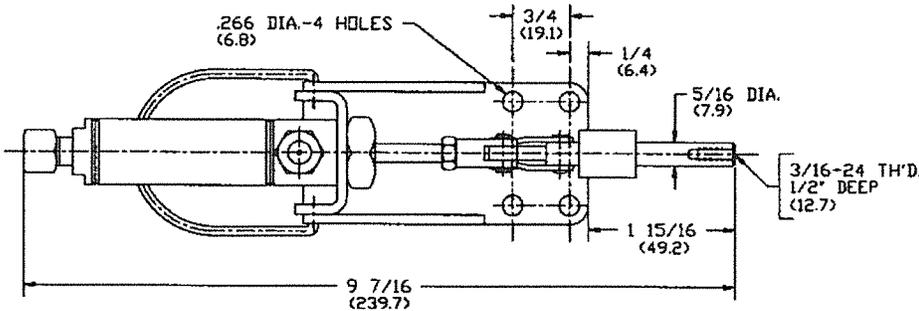
Included.....Spindle Assembly (470108)



AO-2001-CP

UPC No. 81184

Note: Clamp Proper Only



AOP-200

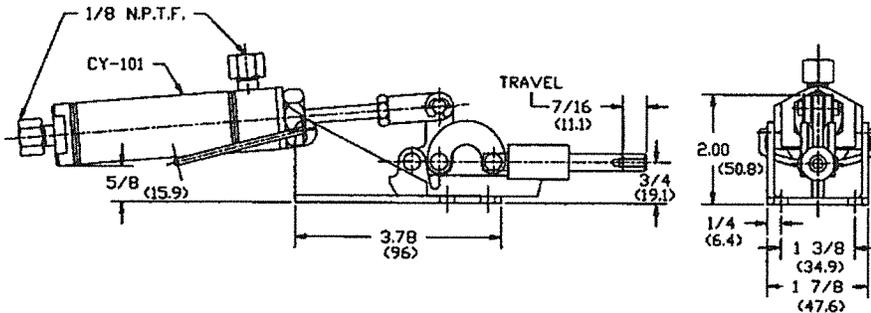
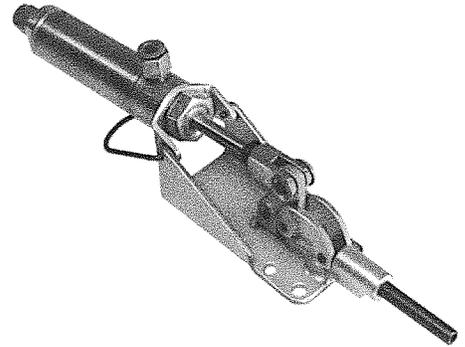
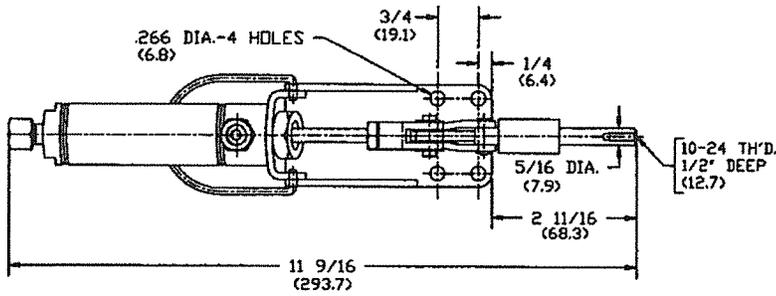
UPC No. 81220

Holding Capacity:

In Push.....200 lbs/90 kg

Travel.....1/4"/6.4 mm

Weight.....1.00 lbs/0.45kg



AOP-400

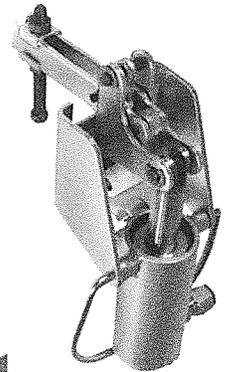
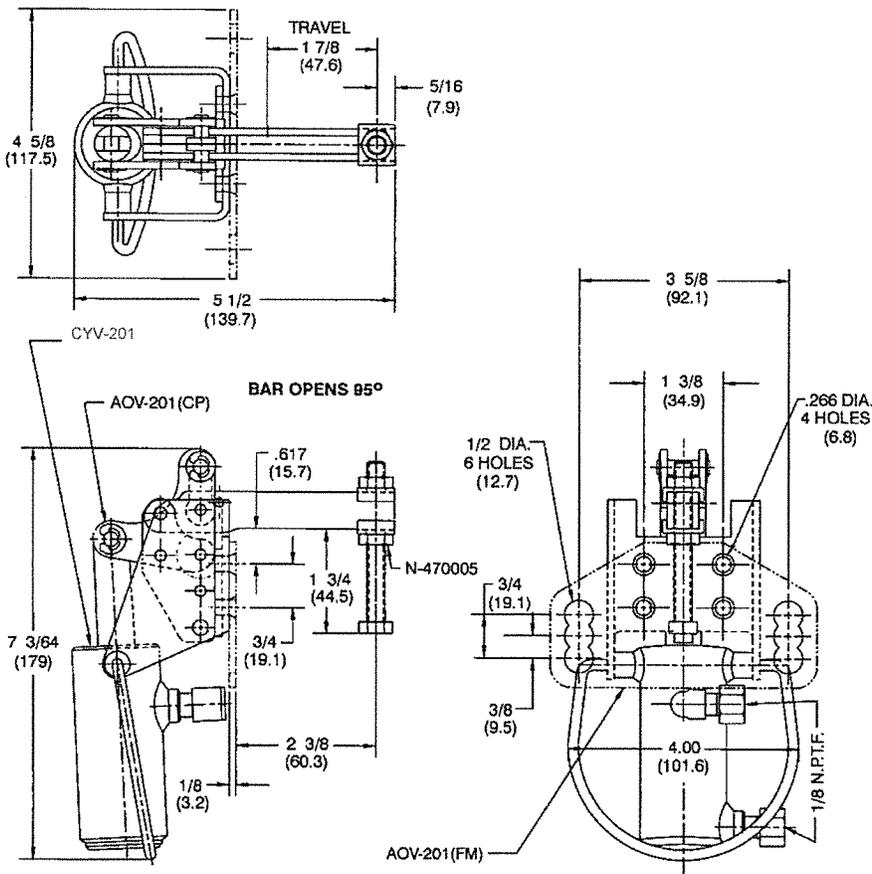
UPC No. 81240

Holding Capacity:

In Push..... 400 lbs/180 kg

Travel..... 7/16"/11.1 mm

Weight..... 1.25 lbs/0.57kg



AOV-201

UPC No. 81223

Holding Capacity:

At End of

Toggle Bar..... 200 lbs/90 kg

29/32" in Front

of Base..... 380 lbs/172 kg

Weight..... 3.03 lbs/1.37 kg

Included..... Spindle Assembly (N-470005)

AOV-201-FM

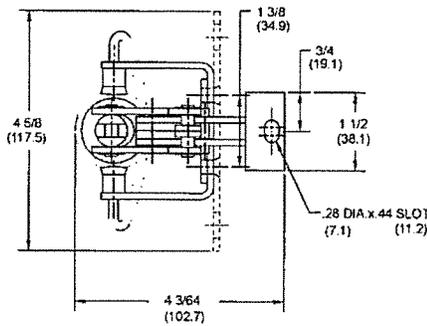
UPC No. 81221

Note: With Front Mount

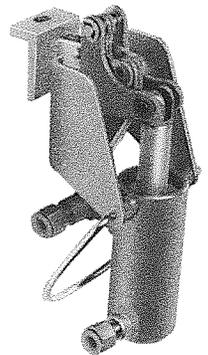
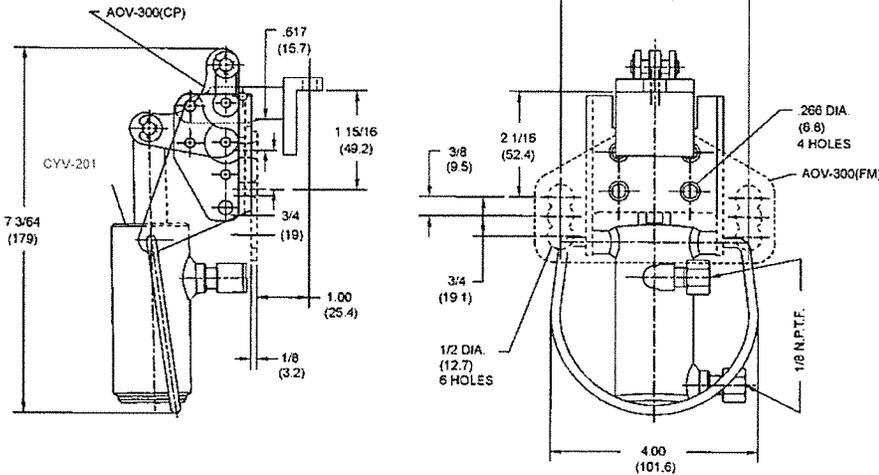
AOV-201-CP

UPC No. 81126

Note: Clamp Proper Only



BAR OPENS 95°



AOV-300

UPC No. 81230

Holding Capacity:

At End of

Toggle Bar..... 300 lbs/135 kg

Weight..... 2.67 lbs/1.21 kg

Note: For thermo-forming machine clamping. Cylinders are supplied with silicone "O" rings in order to withstand up to 450 degrees F.

AOV-300-FM

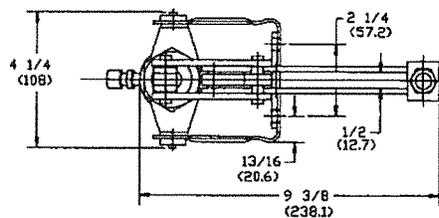
UPC No. 81231

Note: With Front Mount

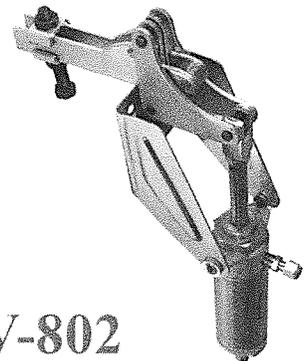
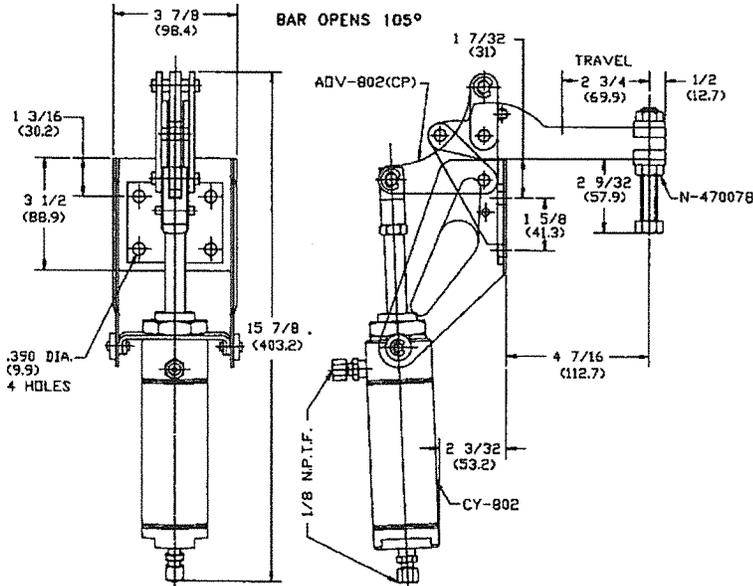
AOV-300-CP

UPC No. 81229

Note: Clamp Proper Only



BAR OPENS 105°



AOV-802

UPC No. 81256

Holding Capacity:

At End of

Toggle Bar..... 800 lbs/360 kg

2" in Front

of Base..... 1380 lbs/625 kg

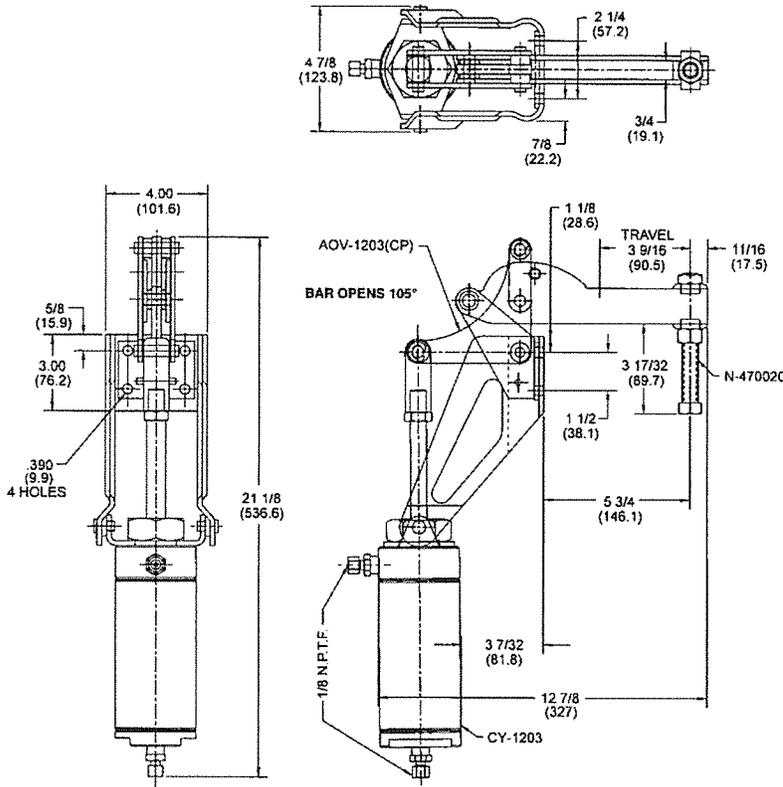
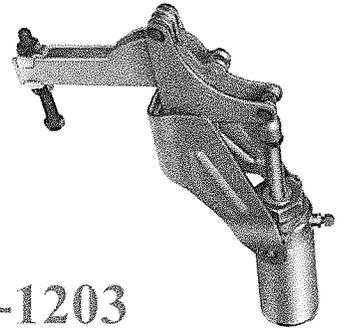
Weight..... 6.10 lbs/2.77kg

Included..... Spindle Assembly (N-470078)

AOV-802-CP

UPC No. 81261

Note: Clamp Proper Only



AOV-1203

UPC No. 81276

Holding Capacity:

At End of
Toggle Bar..... 1200 lbs/540 kg

2 - 5/8" in Front

Of Base.....2040 lbs/925 kg

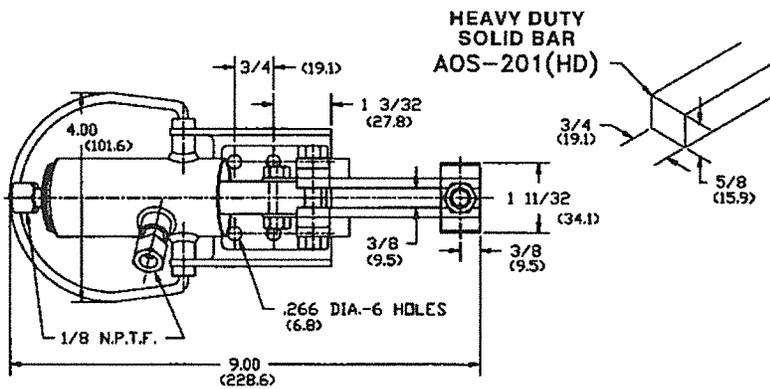
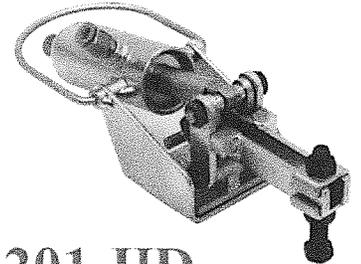
Weight..... 13.50 lbs/6.12 kg

Included.....Spindle Assembly
(N-470020)

AOV-1203-CP

UPC No. 81278

Note: Clamp Proper Only



AO-201-HD

UPC No. 81130

Holding Capacity:

At End of

Toggle Bar..... 200 lbs/90 kg

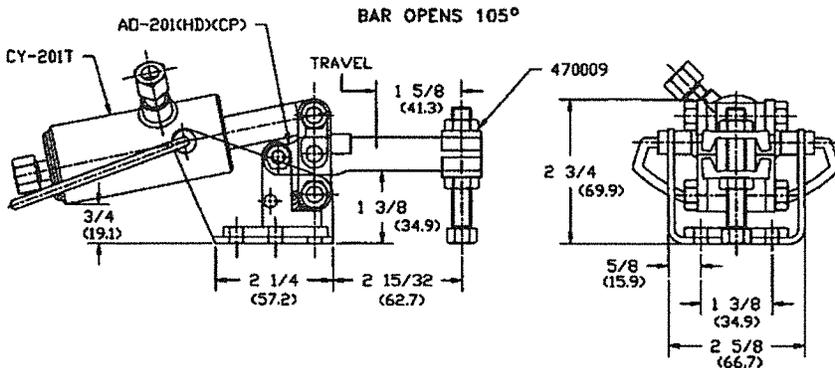
29/32" in Front

of Base.....380 lbs/172 kg

Weight..... 3.04 lbs/1.38 kg

Included.....Spindle Assembly
(470009)

Note: Heavy Duty



AO-201-HD-CP

UPC No. 81131

Note: Heavy Duty/Clamp Proper

AO-201-HD-FM

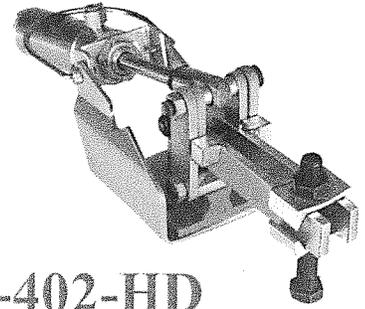
UPC No. 81129

Note: Heavy Duty/Front Mount

AOS-201-HD

UPC No. 81224

Note: Heavy Duty with Solid Toggle Bar



AO-402-HD

UPC No. 81246

Holding Capacity:

At End of

Toggle Bar..... 400 lbs/180 kg

1 - 1/8" in Front

of Base.....760 lbs/345 kg

Weight.....5.67 lbs/2.57 kg

Included.....Spindle Assembly
(470072)

Note: Heavy Duty

AOS-402-HD

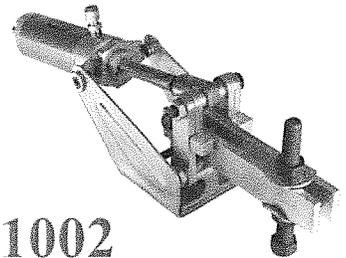
UPC No. 81247

Note: Heavy Duty w/ Solid Toggle Bar

AO-402-HD-CP

UPC No. 81248

Note: Heavy Duty/Clamp Proper



AO-1002

UPC No. 81166

Holding Capacity:

At End of

Toggle Bar..... 800 lbs/360 kg

1 - 11/16" in Front

of Base.....1480 lbs/670 kg

Weight.....10 lbs/4.54 kg

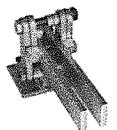
Included.....Spindle Assembly
(HD-470020)

Note: Heavy duty

AO-1002-CP

UPC No. 81164

Note: Heavy Duty/
Clamp Proper Only

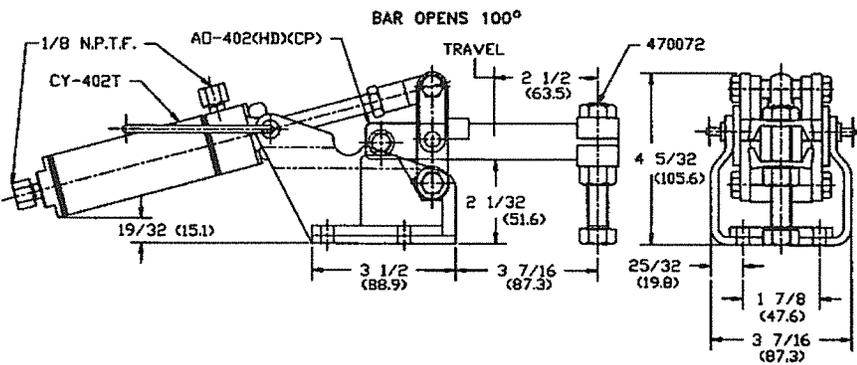
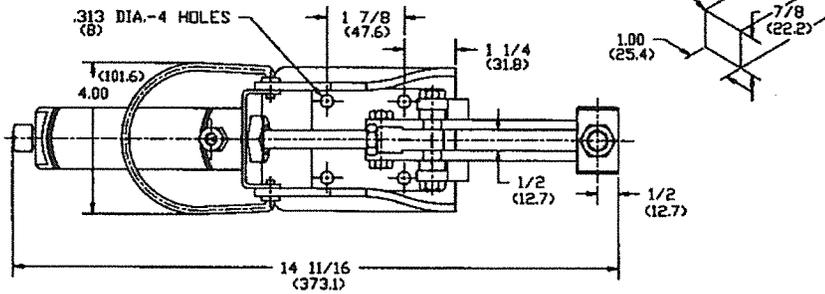


AOS-1002

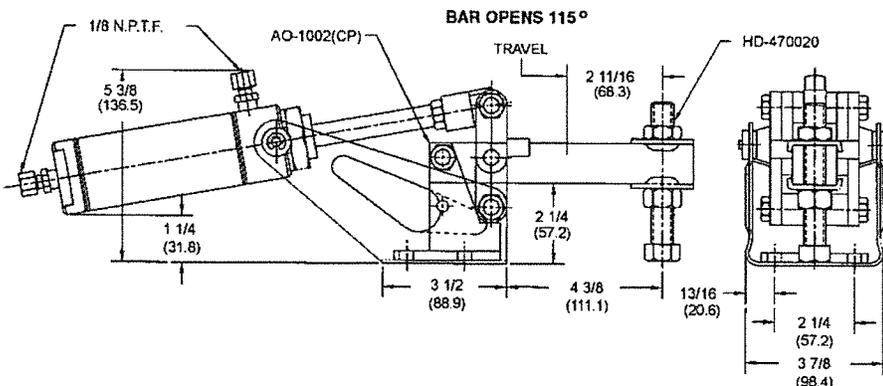
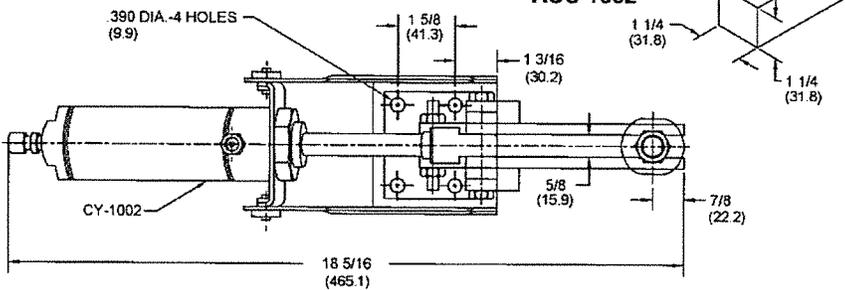
UPC No. 81167

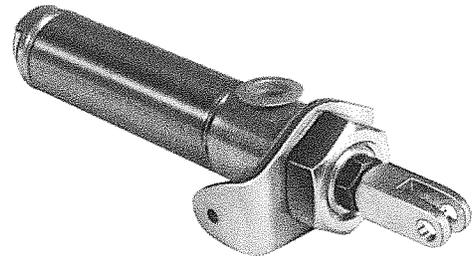
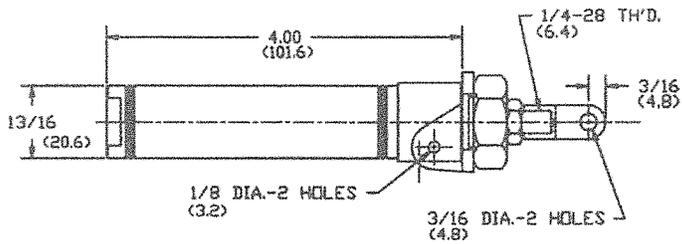
Note: Heavy Duty
Solid Toggle Bar

HEAVY DUTY SOLID BAR AOS-402(HD)



HEAVY DUTY SOLID BAR AOS-1002





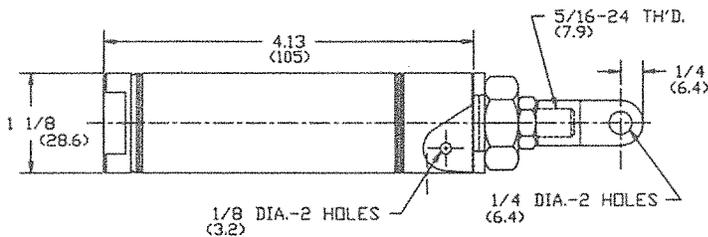
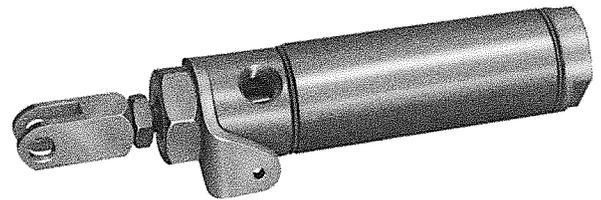
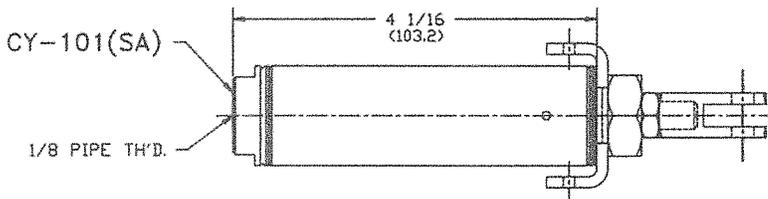
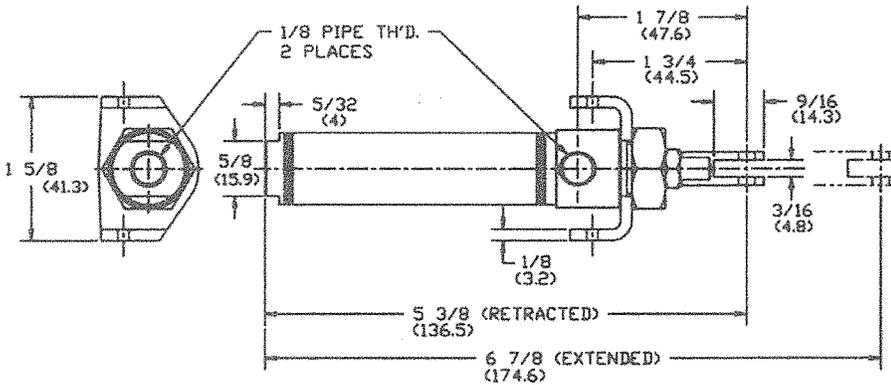
CY-50

UPC No. 81000

Weight.....0.33 lbs/0.15 kg

Bore.....3/4"/19.1mm

Travel1 - 1/2"/38.1mm



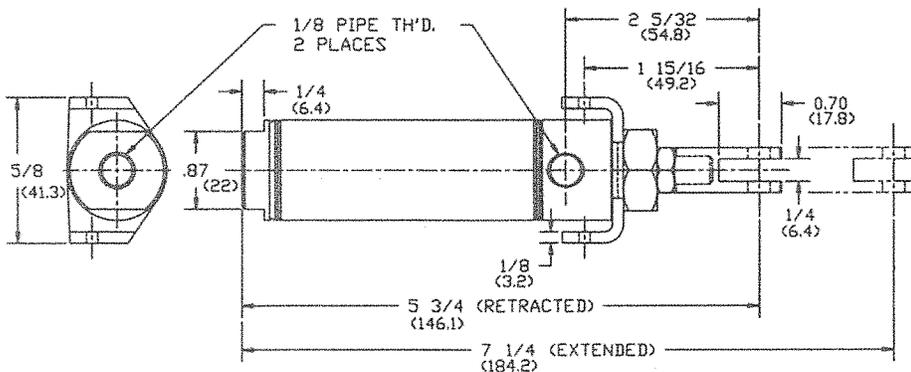
CY-101

UPC No. 81003

Weight.....1.15 lbs/0.52 kg

Bore.....1 - 1/16"/27 mm

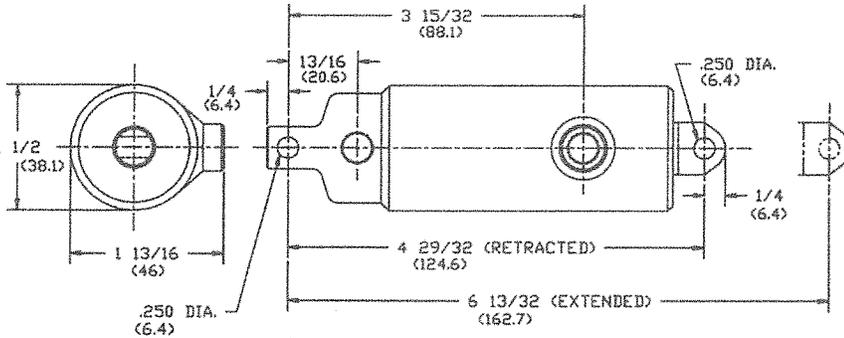
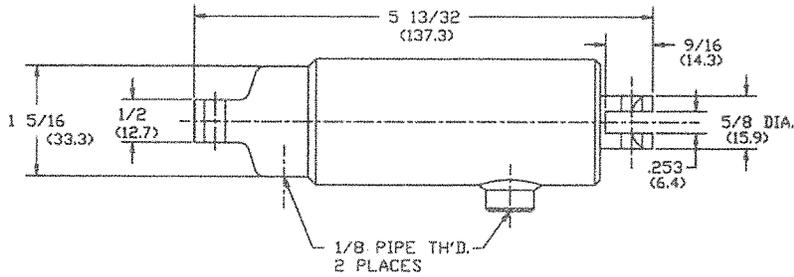
Travel.....1 - 1/2"/38.1 mm



CY-101-SA

UPC No. 81004

Note: Single Acting Spring Return



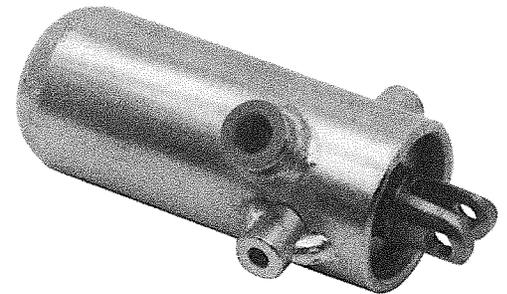
CY-200

UPC No. 81020

Weight.....1.18 lbs/0.54 kg

Bore.....1 - 1/4"/31.8mm

Travel1 - 1/2"/38.1mm



CY-201

UPC No. 81023

Weight.....1.18 lbs/0.54 kg

Bore.....1 - 1/4"/31.8 mm

Travel.....1 - 1/2"/38.1 mm

Push.....0.98 lbs/0.44 kg

CY-201-SP

UPC No. 81024

Note: Silicone "O" Rings/
Thermo-forming Models

CY-201-T

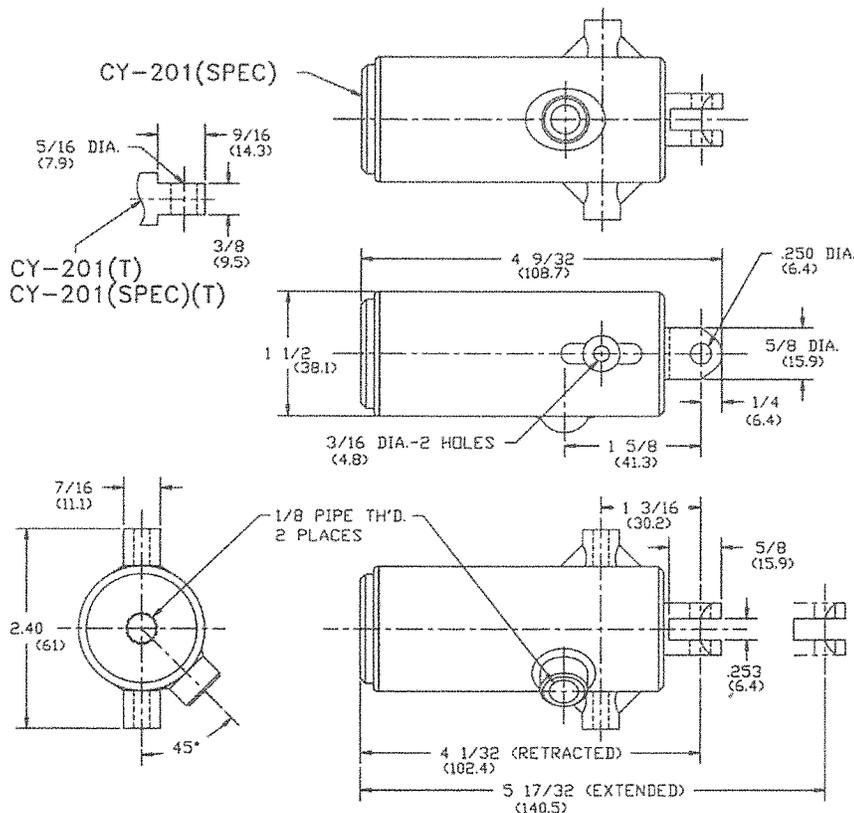
UPC No. 81025

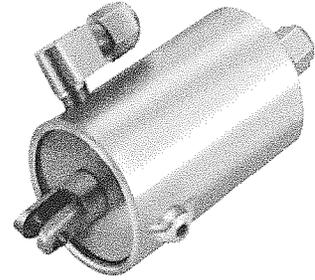
Note: For Heavy Duty AO-201 Model

CY-201-SP-T

UPC No. 81026

Note: For Heavy Duty
Thermo-forming Models





CY-222

UPC No. 81028

Holding Capacity:

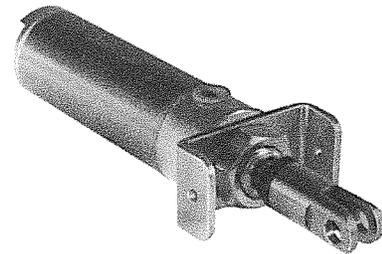
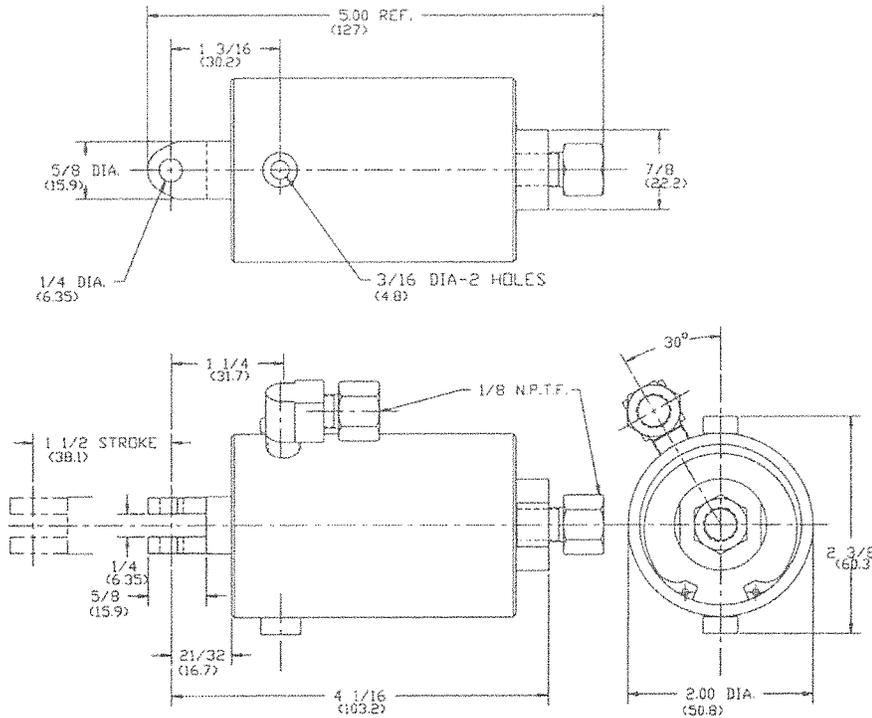
Weight.....1.90 lbs/0.86 kg

Bore.....1 - 5/8"/41.3 mm

Travel.....1 - 1/2"/38.1 mm

Push.....166 lbs/75.30 kg
(with 80 PSI)

Note: Silicone "O" Rings, fittings and restrictors are included.



CY-402

UPC No. 81046

Holding Capacity:

Weight.....1.16 lbs/0.53 kg

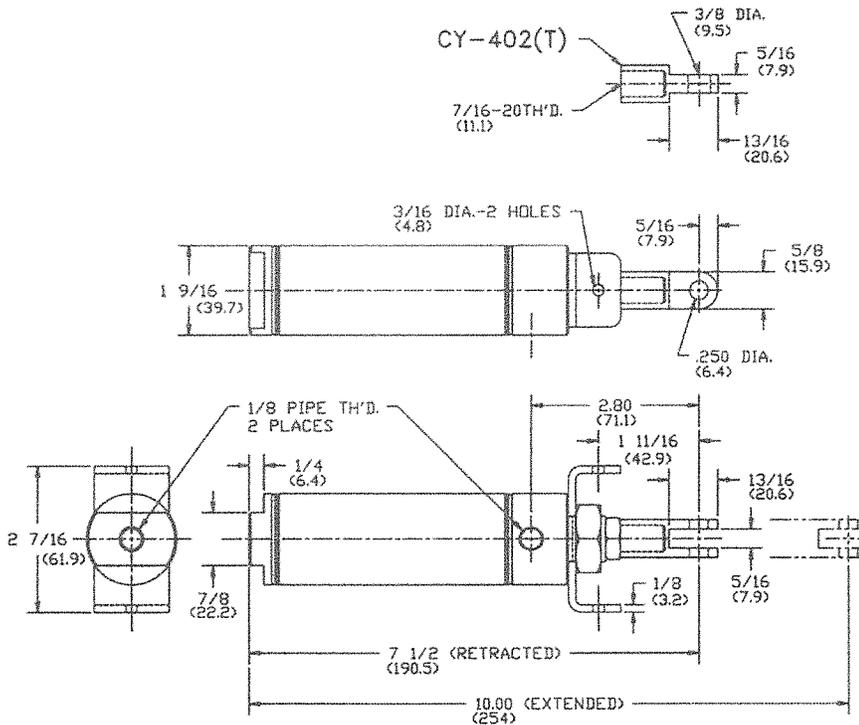
Bore.....1 - 1/2"/38.1 mm

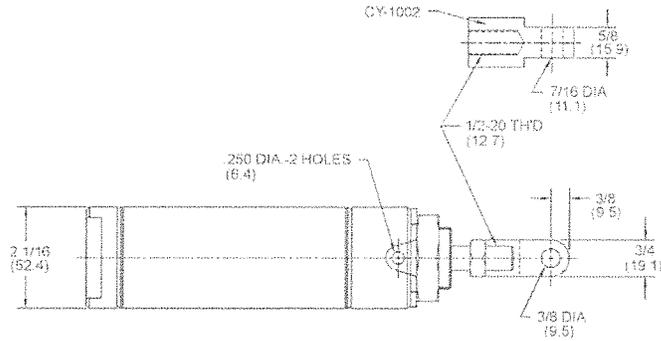
Travel.....2 - 1/2"/63.5 mm

CY-402-T

UPC No. 81048

Note: For Heavy Duty AO-402-HD





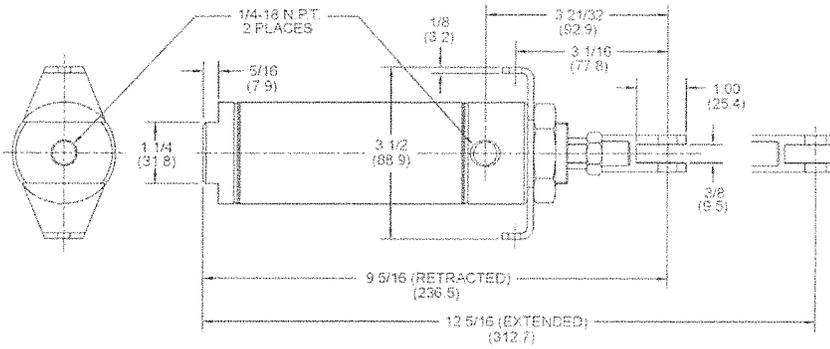
CY-802

UPC No. 81056

Weight.....2.33 lbs/1.06 kg

Bore.....2"/50.8 mm

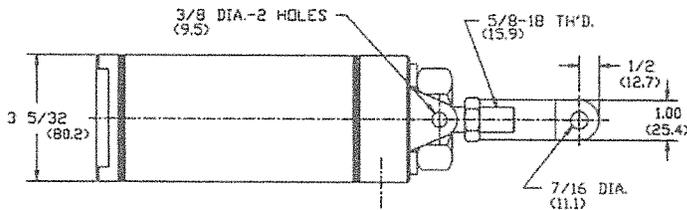
Travel.....3"/76.2 mm



CY-1002

UPC No. 81054

Note: For Air Clamp AO-1002



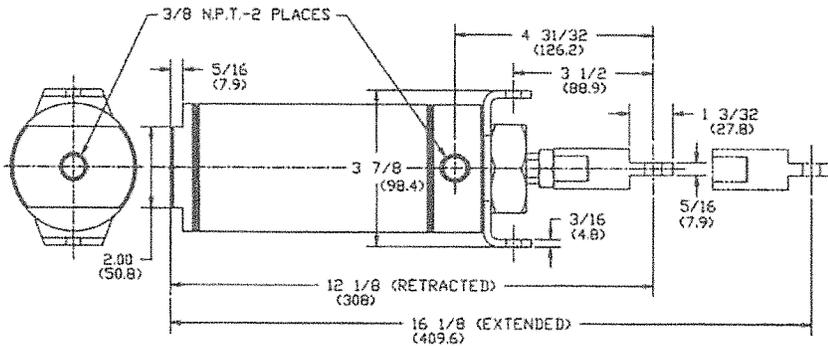
CY-1203

UPC No. 81079

Weight.....5.96 lbs/2.70 kg

Bore.....3"/76.2 mm

Stroke.....4"/101.6 mm



HAND CLAMPS

Knu-Vise's Manual/Hand-Toggle series clamps are used for a wide variety of applications, including assemblies, fixturing and woodworking. Knu-Vise hand clamps are available in holding capacities from 50-2000 lbs. Designs include: Cam-Action/Hold Down; Double Toggle; Horizontal Handle; Vertical Handle; T-handle and Machine T-slot; Welded-on; and Push & Pull (see next section). Features common to the entire Knu-Vise manual clamp lineup follow.

Features:

- ◆ Optional bar configurations include:
 - Solid
 - Open end
 - Closed
- ◆ Optional Straight/side mounting configuration on 100, 200, 400 and 600 series clamps enables mounting on a vertical surface, or when there is no room for a flanged base.
- ◆ Optional Swivel Base mounting configuration on 800 and 1200 series clamps permits angular location of the toggle bar within 180 degrees. The swivel plate is permanently held in place by installation of the two furnished bolts.
- ◆ Dipped or slip-on plastic handle are provided for an easy, solid grip. The handles are orange in color for quick identification.
- ◆ Angular clamping bolt bushing assemblies are available on some models.

Individual Features

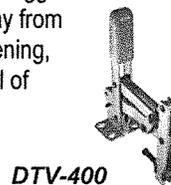
Cam-Action

Designed to automatically compensate for variation in thickness of parts to be held, eliminating time-consuming manual readjustments. Cam-action design resists loosening due to vibration.



Double Toggle

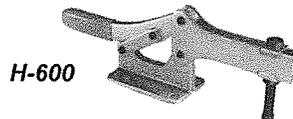
Ideal for around-the-corner clamping applications. Toggle mechanism swings away from the workpiece upon opening, facilitating easy removal of workpiece.



Horizontal Handle

Gives a low overhead profile, ideal where overhead space is a consideration.

- ◆ Available in optional stainless steel on some models.
- ◆ Optional straight mounting available.



Vertical Handle

Most common clamp for easy grip and hold down workpieces.

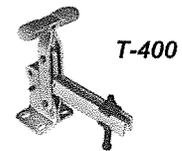
- ◆ Available in optional stainless steel on some models.
- ◆ Heavy-duty models with solid toggle bar available.
- ◆ Optional flange, straight mount or swivel base available.



T-Handle

T-Handle clamps give a low overhead profile.

- ◆ Available in optional stainless steel on some models.



Machine T-Slot

- ◆ Black oxide cast base and plated forged parts for corrosion resistance.
- ◆ Custom setting provided.
- ◆ Use with existing locator and T-Slot bolt and nuts.

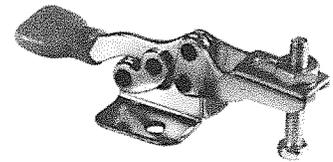
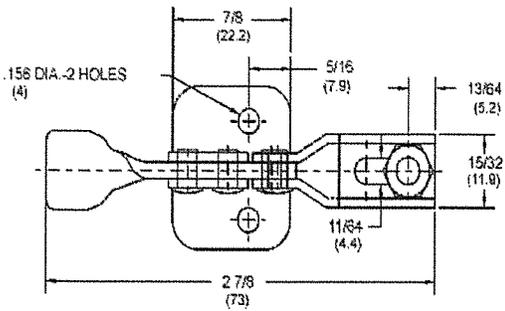


Welded-On

Locate this clamp exactly where you want it - and then weld it into place. Ideal for rugged applications such as ship building, steel fabricating and welding.

- ◆ Heavy-duty construction for excessive use.
- ◆ Welds into place; save and retrieve by cutting off.
- ◆ No measuring, drilling or tapping required.
- ◆ Can be actuated by hand or foot pressure.
- ◆ Available with optional copper-plated spindles to help eliminate welding splatter.





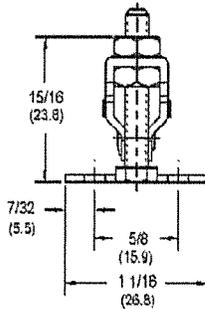
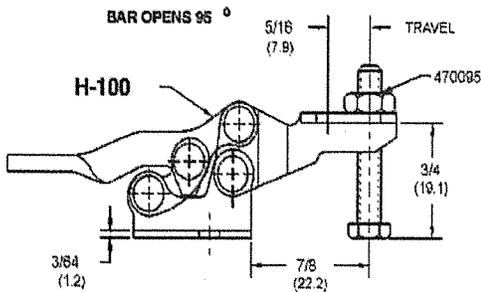
H-100

UPC No. 80201

Holding Capacity:

At End of Toggle Bar.....100 lbs/45 kg
9/16" in Front of Base.....150 lbs/68 kg

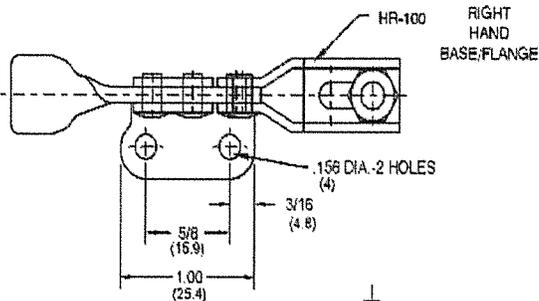
Weight......068 lbs/.03 kg
Included.....Spindle Assembly (470095)



H-100-SS

UPC No. 80211

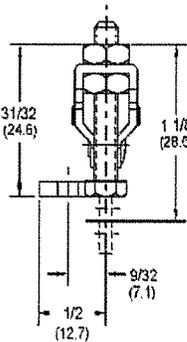
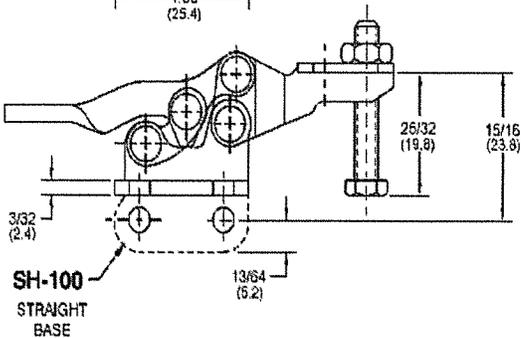
Note: From Stainless Steel



HR-100

UPC No. 80221

Weight......065 lbs/.029 kg
Note: Right Hand Flange Mount



HR-100-SS

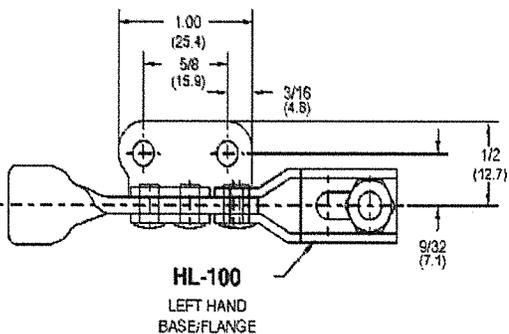
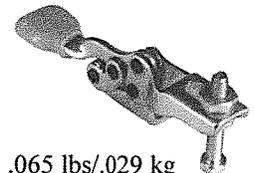
UPC No. 80231

Note: From Stainless Steel/
Right Hand Flange Mount

HL-100

UPC No. 80220

Weight......065 lbs/.029 kg
Note: Left hand flange mount



HL-100-SS

UPC No. 80230

Note: From Stainless Steel/
Left hand flange mount

SH-100

UPC No. 80190

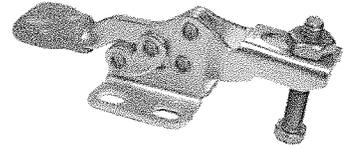
Weight......068 lbs/.03 kg
Note: Straight Base



SH-100-SS

UPC No. 80194

Note: Straight Base/
Stainless Steel



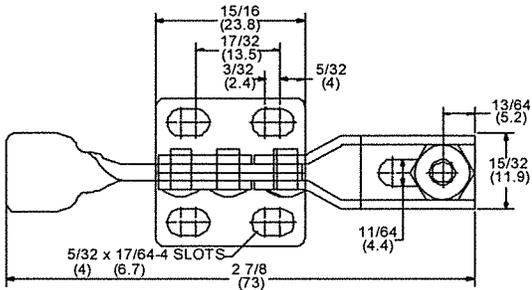
H-101

UPC No. 80199

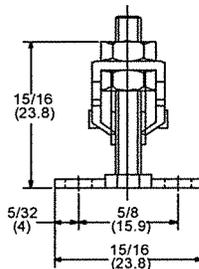
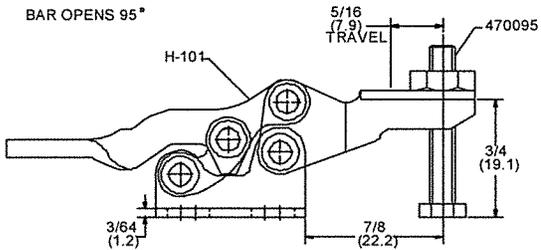
Holding Capacity:

At end of Toggle Bar.....100 lbs/45 kg
9/16" in Front of Base.....150 lbs/68 kg

Weight.....068 lbs/.03 kg
Included.....Spindle Assembly
(470095)



BAR OPENS 95°

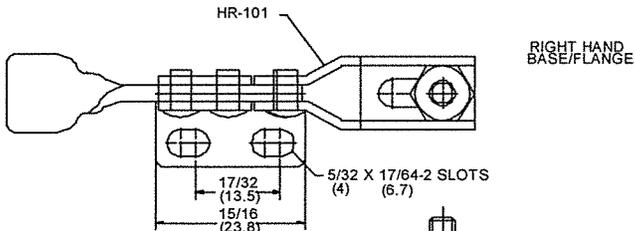


HR-101

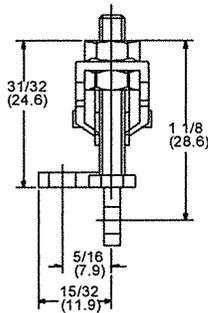
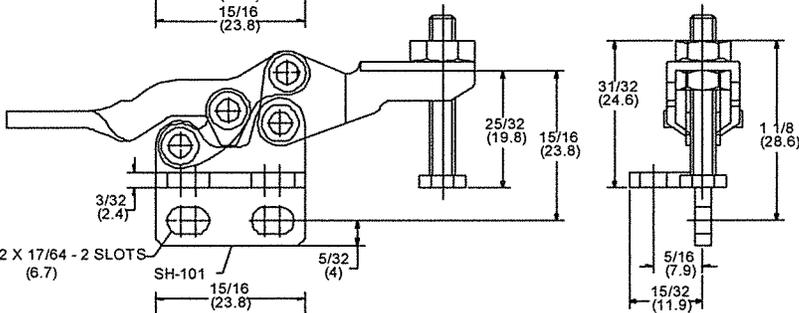
UPC No. 80223

Note: Right Hand Flange Mount

Weight......065 lbs/.029 kg
Included.....Spindle Assembly
(470095)



RIGHT HAND
BASE/FLANGE

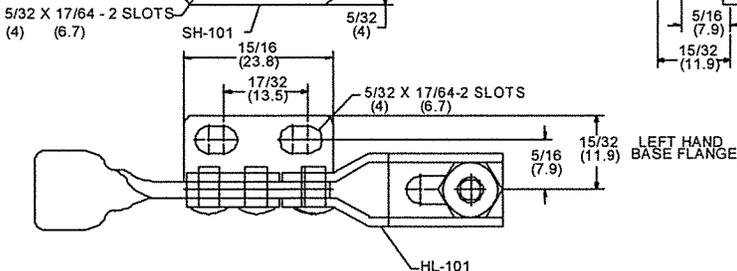


HL-101

UPC No. 80222

Note: Left Hand Flange Mount

Weight......065 lbs/.029 kg
Included.....Spindle Assembly
(470095)



LEFT HAND
BASE FLANGE

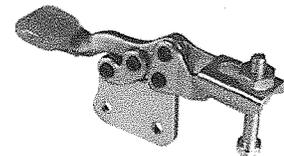


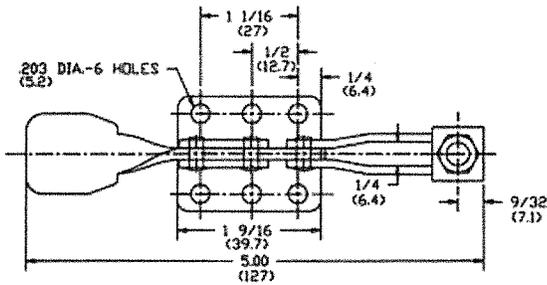
SH-101

UPC No. 80188

Note: Straight Base

Weight......068 lbs/.03 kg
Included.....Spindle Assembly
(470095)





H-200

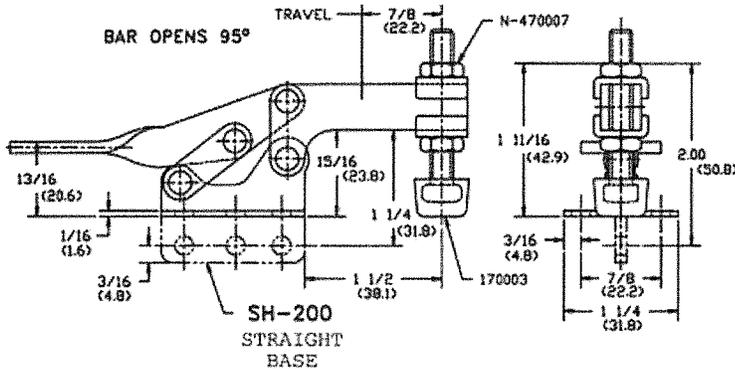
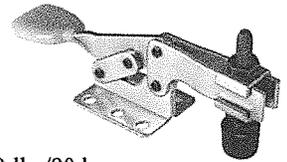
UPC No. 80202

Holding Capacity:

At end of Toggle Bar.....200 lbs/90 kg
 3/4" in front of base.360 lbs/160 kg

Weight..... 24 lbs/11 kg
 Included.....Spindle Assembly
 (N-470007-RC)

Included.....Spindle Cap
 (170003)



H-200-SS

UPC No. 80212

Note: From Stainless Steel

SH-200

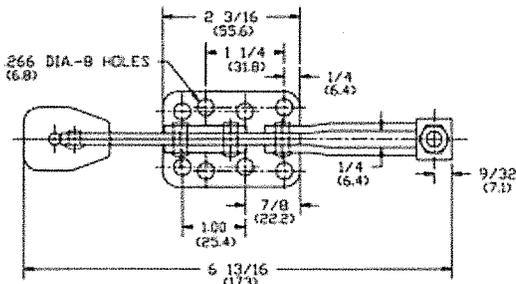
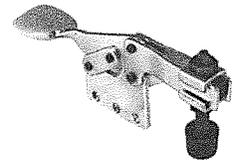
UPC No. 80191

Note: Straight Base

SH-200-SS

UPC No. 80195

Note: Straight Base/Stainless Steel



H-400

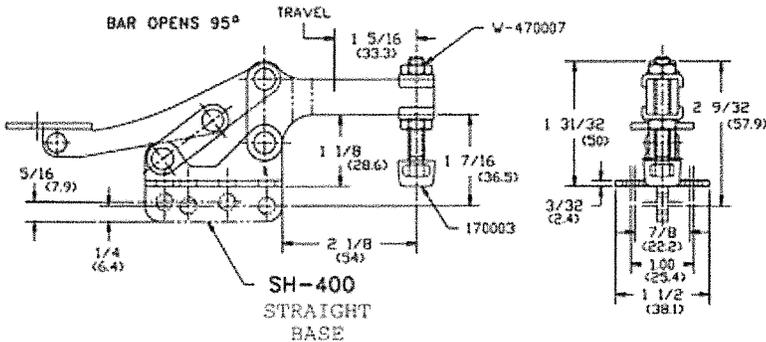
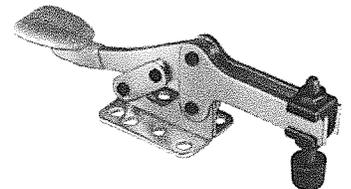
UPC No. 80204

Holding Capacity:

At End of Toggle Bar.... 400 lbs/180 kg
 3/16" in Front of Base. ...880 lbs/400 kg

Weight..... 51 lbs/23 kg
 Included.....Spindle Assembly
 (W-470007)

Included.....Spindle Cap
 (170003)



H-400-SS

UPC No. 80214

Note: From Stainless Steel

SH-400

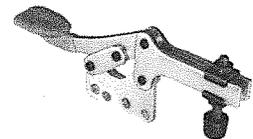
UPC No. 80192

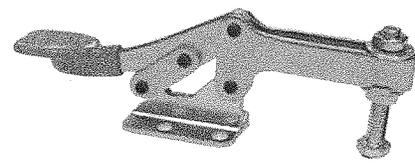
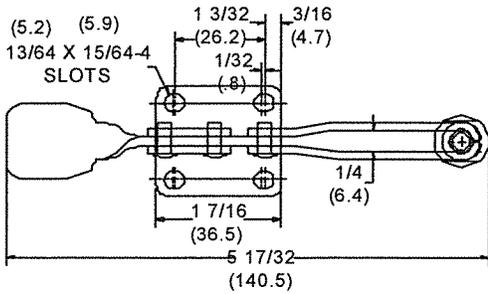
Note: Straight Base

SH-400-SS

UPC No. 80196

Note: Straight Base/Stainless Steel





H-201

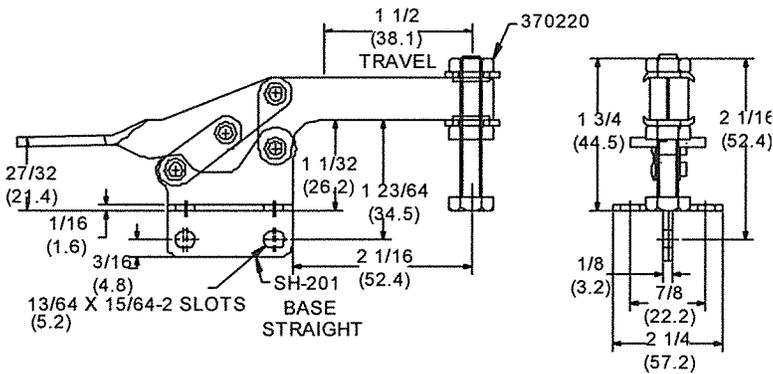
UPC No. 80200

Holding Capacity:

At End of Toggle Bar.... 150 lbs/67 kg
 3/4" in Front of Base....360 lbs/160 kg

Weight.....27 lbs/12 kg
 Included.....Spindle Assembly
 (370220)

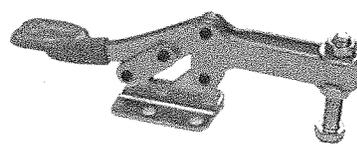
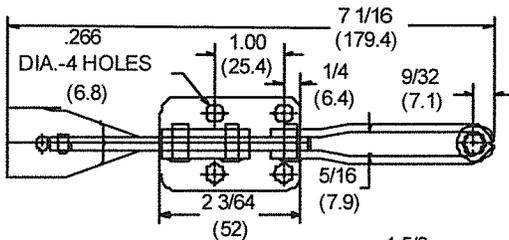
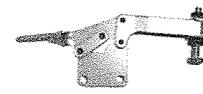
BAR OPENS 95°



SH-201

UPC No. 80189

Note: Straight Base



H-401

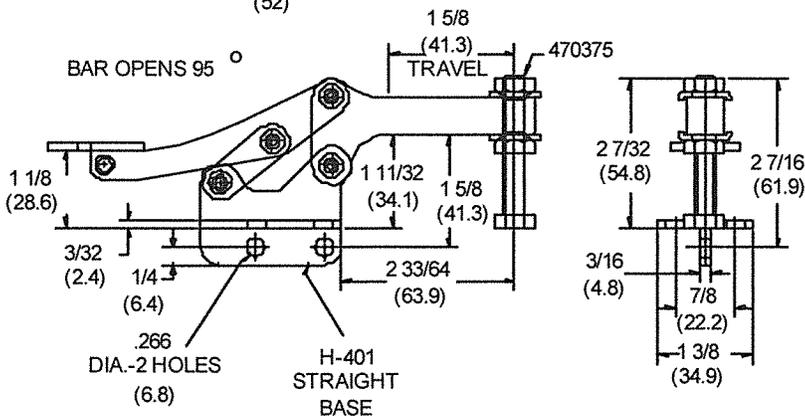
UPC No. 80203

Holding Capacity:

At end of Toggle Bar....350 lbs/156 kg
 3/4" in front of base....880 lbs/400 kg

Weight.....561 lbs/251 kg
 Included.....Spindle Assembly
 (470375)

BAR OPENS 95°

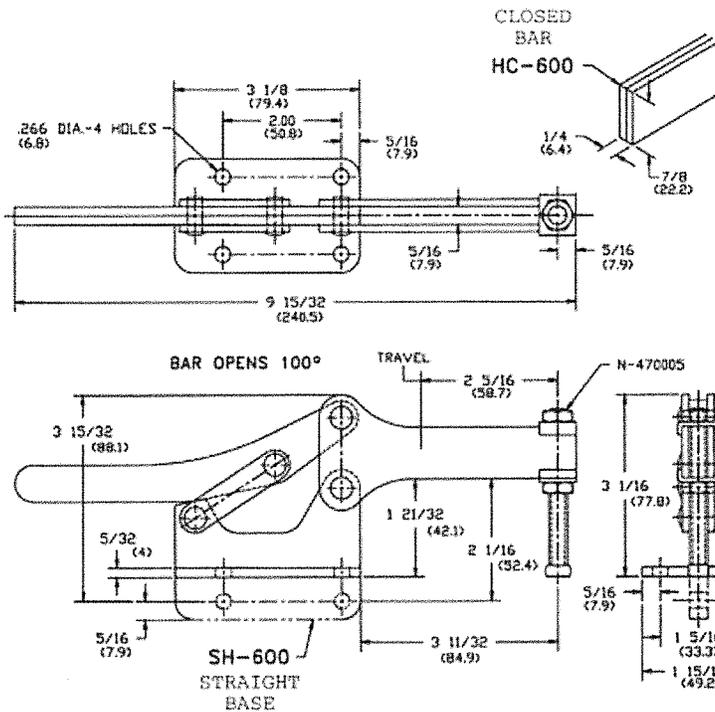


SH-401

UPC No. 80197

Note: Straight Base



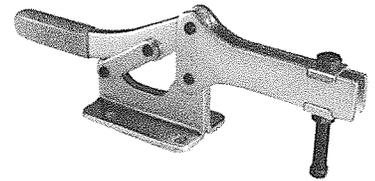


H-600

UPC No. 80206
Holding Capacity:

At End of Toggle Bar.... 600 lbs/270 kg
1" in Front of Base.1600 lbs/725 kg

Weight.....1.18 lbs/0.54 kg
Included.....Spindle Assembly
(N-470005)

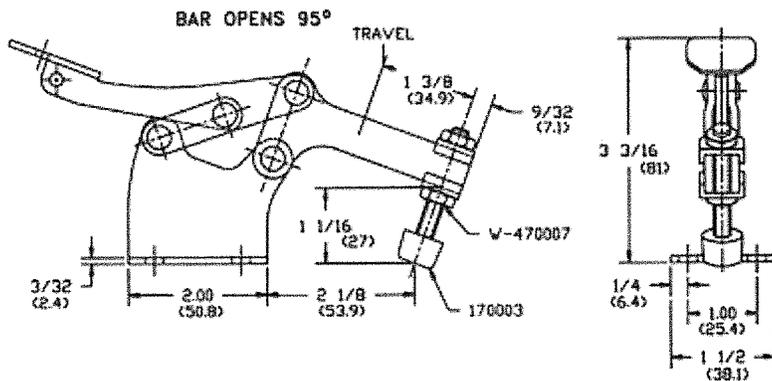
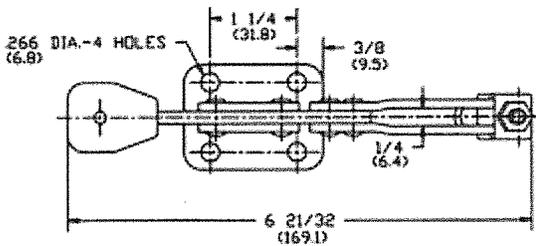
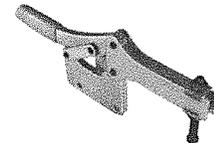


SH-600

UPC No. 80193
Note: Straight Base

HC-600

UPC No. 80208
Note: Has Closed Toggle Bar

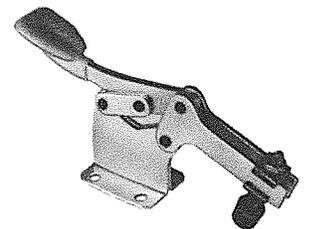


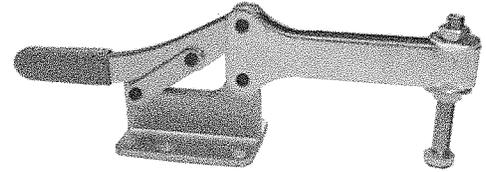
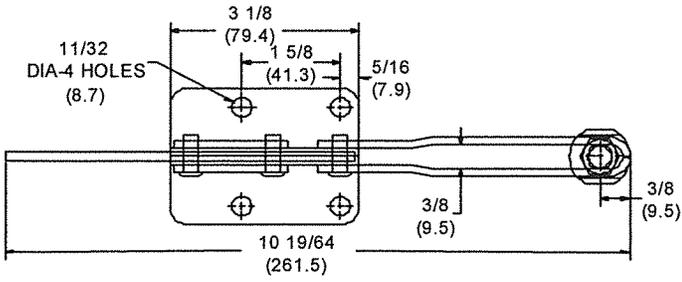
H-400x20

UPC No. 80205
Holding Capacity:

At End of Toggle Bar.... 400 lbs/180 kg
1-3/32" in Front of
Centerline of Toggle
Bar Rivets.....880 lbs/400 kg

Weight......62 lbs/.28 kg
Included.....Spindle Assembly
(W-470007)
Included.....Spindle Cap
(170003)





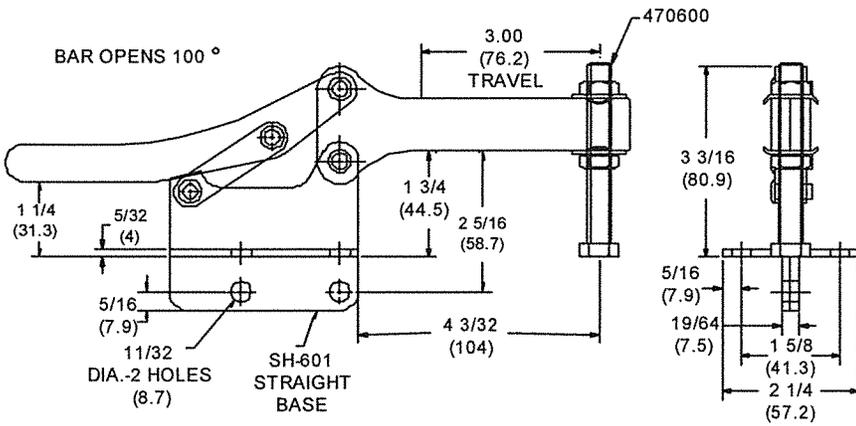
H-601

UPC No. 80209

Holding Capacity:

At End of Toggle Bar.....500 lbs/223 kg
 1 1/8" in Front of Base....1500 lbs/668 kg

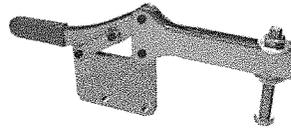
Weight..... 1.471 lbs/.65 kg
 Included.....Spindle Assembly
 (470600)



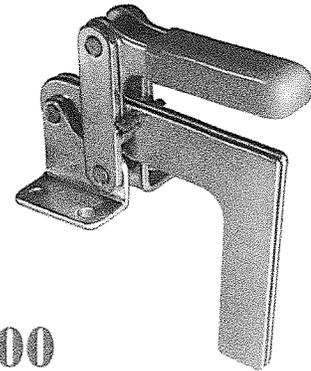
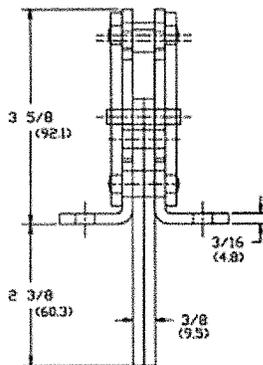
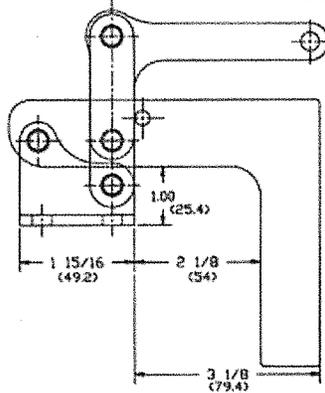
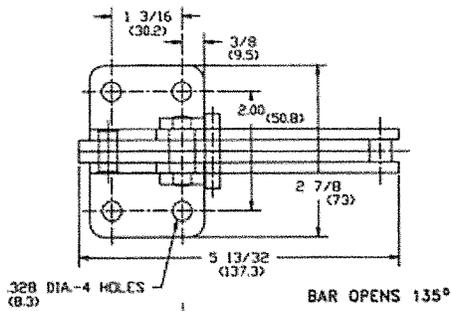
SH-601

UPC No. 80198

Note: Straight Base



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HLC-600

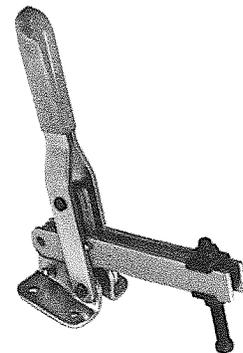
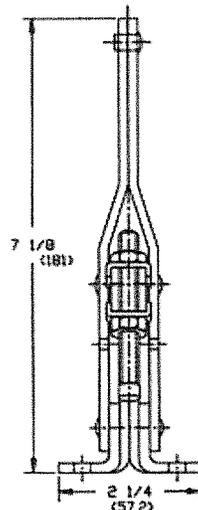
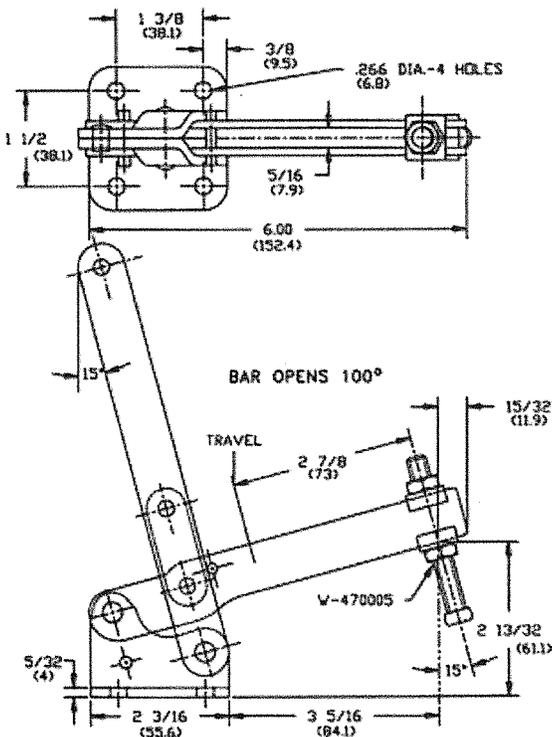
UPC No. 80207

Holding Capacity:

At End of Toggle Bar..... 600 lbs/270 kg

Weight.....1.82 lbs/0.83 kg

Note: L-Shaped 90 degree closed toggle bar with low profile horizontal handle. For angular clamping bolt retainer assembly use R-470078-F.



VA-400

UPC No. 80130

Holding Capacity:

Near End of Toggle Bar..... 400 lbs/180 kg

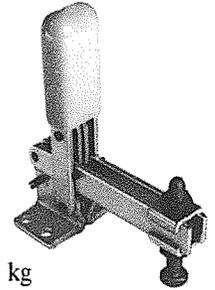
1-1/8" in Front

Of Base..... 1050 lbs/480 kg

Weight.....1.38 lbs/.63 kg

Included.....Spindle Assembly (W-470005)

Note: Angular Toggle Bar



V-100

UPC No. 80102

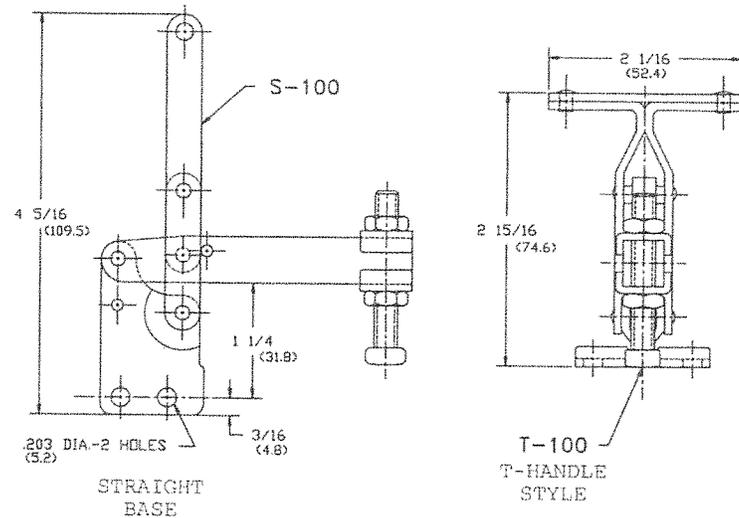
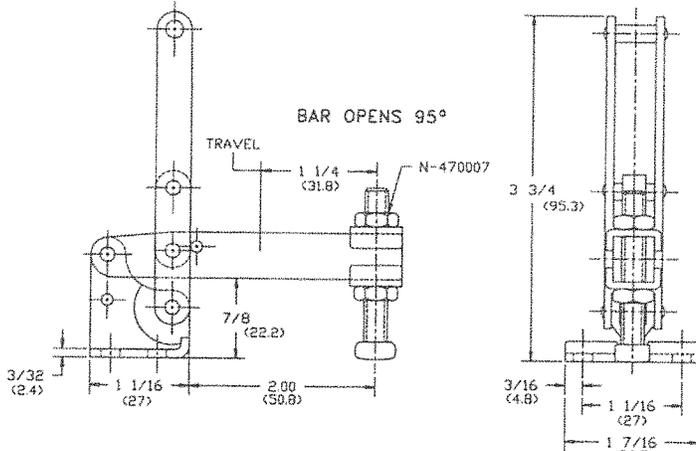
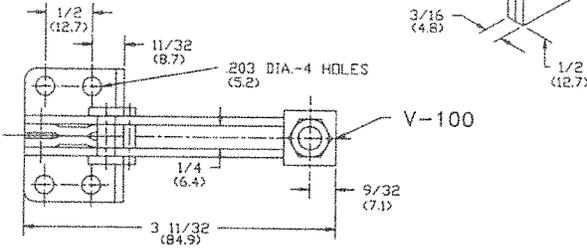
Holding Capacity:

At end of Toggle Bar.....100 lbs/45 kg
 3/4" in front of base.....230 lbs/100 kg

Weight.....0.33 lbs/.15 kg
 Included.....Spindle Assembly
 (N-470007)

CLOSED BAR
 MODELS

- VC-100
- TC-100
- SC-100



V-100-SS

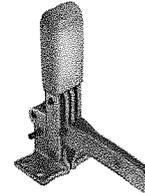
UPC No. 80101

Note: From Stainless Steel

VC-100

UPC No. 80106

Note: Closed Toggle Bar



T-100

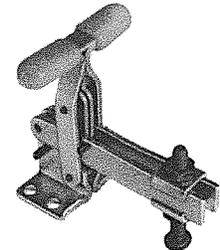
UPC No. 80150

Note: T-Handle Style

T-100-SS

UPC No. 80154

Note: Stainless Steel/
 T-Handle Style



TC-100

UPC No. 80153

Note: T-Handle Style with
 Closed Toggle Bar

S-100

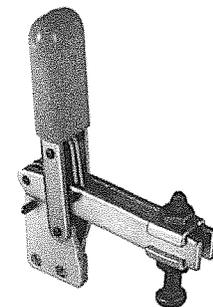
UPC No. 80170

Note: Straight Base

S-100-SS

UPC No. 80177

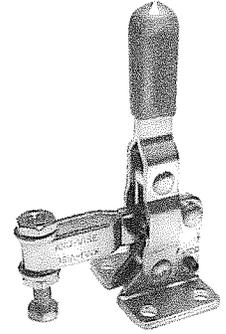
Note: Straight Base/
 Stainless Steel



SC-100

UPC No. 80173

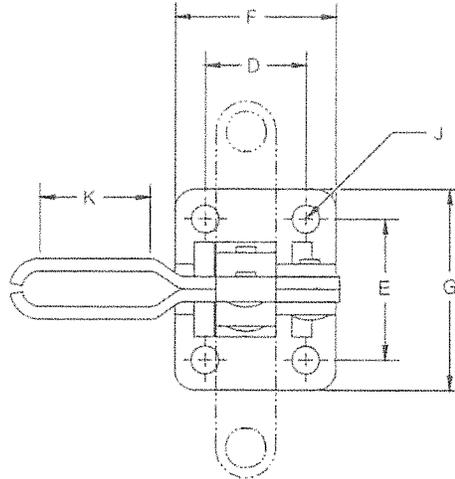
Note: Straight Base with
 Closed Toggle Bar



V-120

UPC No. 80114

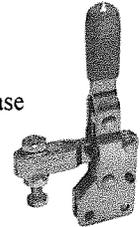
Included.....Spindle Assembly (470120)



S-120

UPC No. 80179

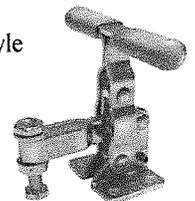
Note: Straight Base



T-120

UPC No. 80157

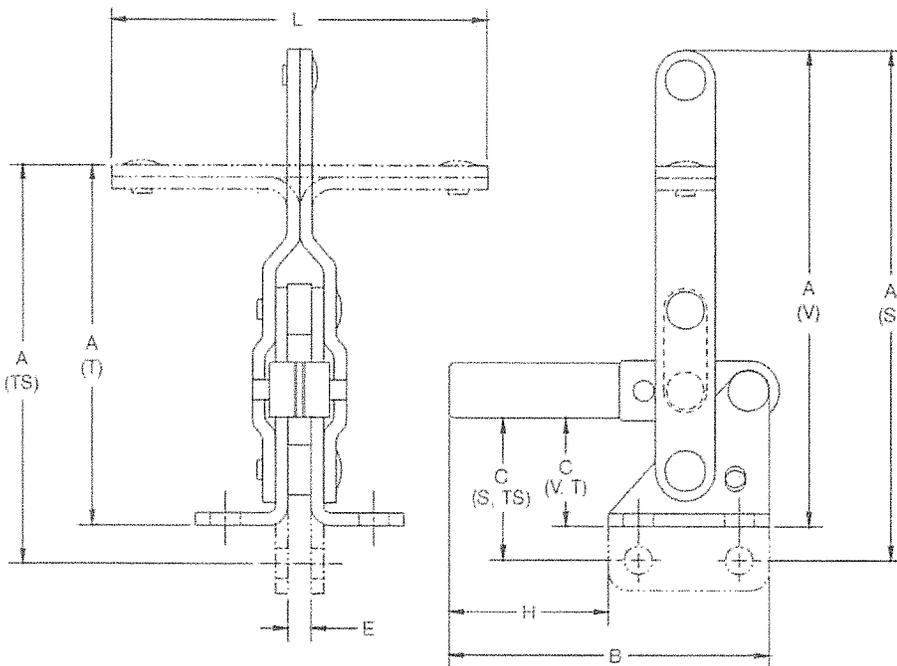
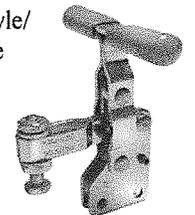
Note: T-Handle Style



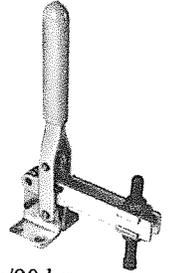
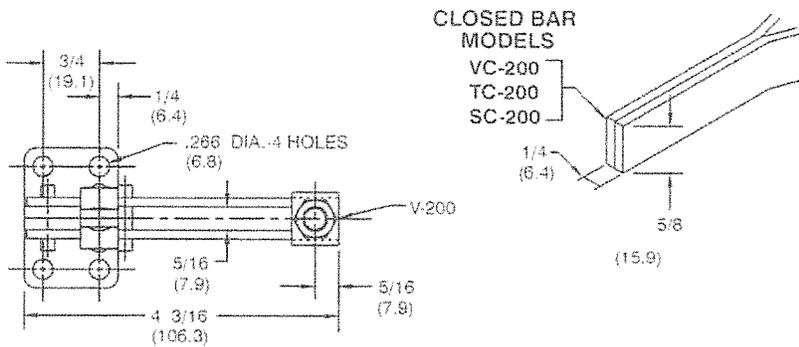
TS-120

UPC No. 80158

Note: T-Handle Style/
Straight Base



Model No.	UPC NO.	HOLDING CAPACITY	WEIGHT	HANDLE MOVES	BAR OPENS	DIMENSIONS										
						A	B	C	D	E	F	G	H	J	K	L
V-120	80114	100 lbs	0.130 lbs	60 deg.	110 deg.	2.97	2.00	0.672	0.625	0.937	1.00	1.25	0.995	0.172	0.825	-
S-120	80179	100 lbs	0.130 lbs	60 deg.	110 deg.	3.22	2.00	0.945	0.625	0.157	1.00	-	0.995	0.172	0.825	-
T-120	80157	100 lbs	0.155 lbs	60 deg.	110 deg.	2.25	2.00	0.672	0.625	0.937	1.00	1.25	0.995	0.172	0.825	2.34
TS-120	80158	100 lbs	0.155 lbs	60 deg.	110 deg.	2.53	2.00	0.945	0.625	0.157	1.00	-	0.995	0.172	0.825	2.34

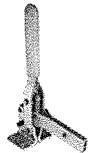
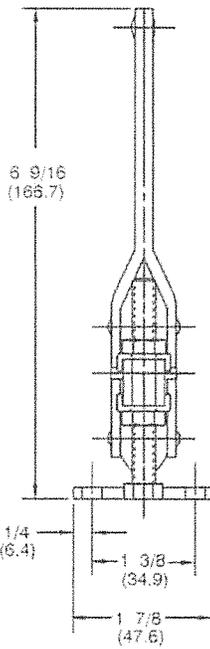
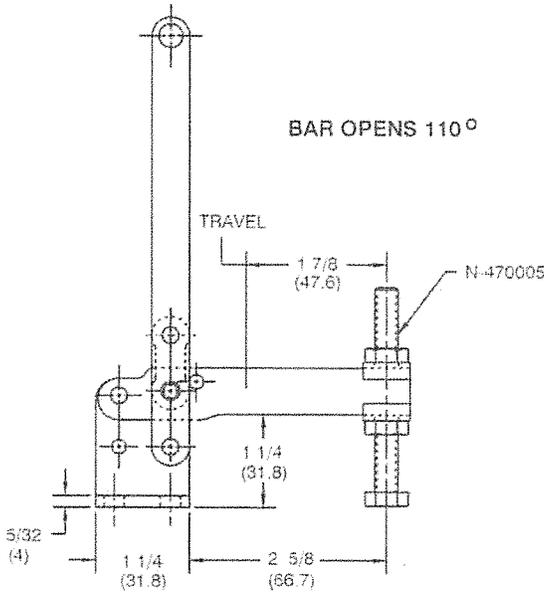


V-200

UPC No. 80103
 Holding Capacity:

At End of Toggle Bar....200 lbs/90 kg
 15/16" in Front
 Of Base.....480 lbs/220 kg
 Weight.....0.74 lbs/0.34 kg
 Included.....Spindle Assembly
 (N-470005)

BAR OPENS 110°



V-200-SS

UPC No. 80127
 Note: From Stainless Steel

VC-200

UPC No. 80107
 Note: Closed Toggle Bar

T-200

UPC No. 80151
 Note: T-Handle Style

T-200-SS

UPC No. 80155
 Note: T-Handle Style/
 Straight Base



TC-200

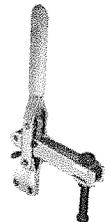
UPC No. 80156
 Note: T-Handle Style with
 Closed Toggle Bar

S-200

UPC No. 80171
 Note: Straight Base

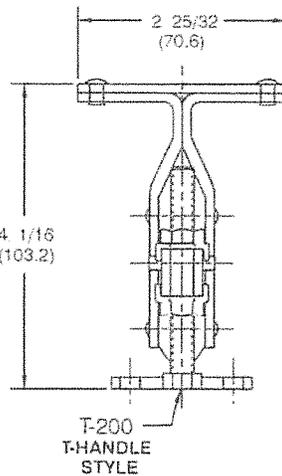
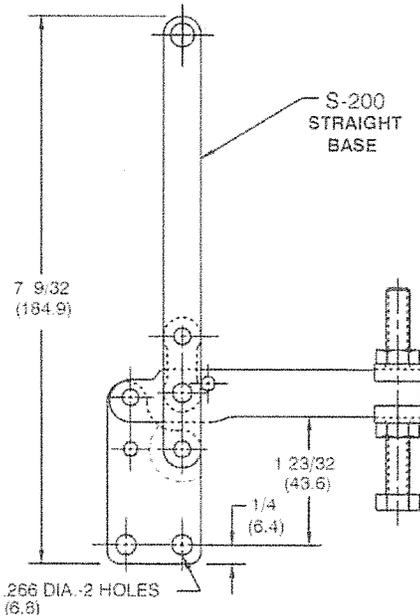
S-200-SS

UPC No. 80178
 Note: Straight Base/
 Stainless Steel



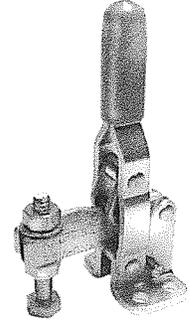
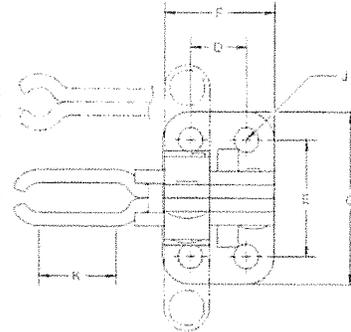
SC-200

UPC No. 80175
 Note: Straight Base with
 Closed Toggle Bar



CLAMPING ARM STYLE
(TST, TSST, SST, VST)
STATIONARY SPINDLE

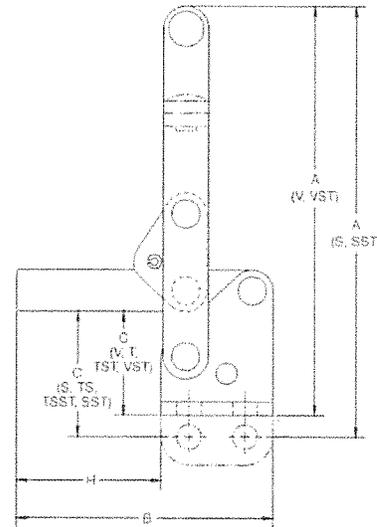
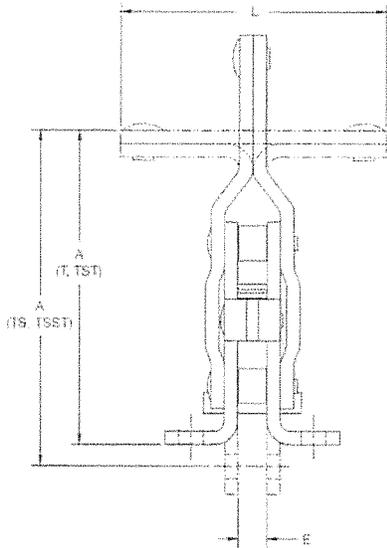
(V, S, T, T9)



V-220

UPC No. 80115

Included.....Spindle Assembly
(470220)



S-220

UPC No. 80181

Note: Straight Base



T-220

UPC No. 80161

Note: T-Handle Style



TS-220

UPC No. 80162

Note: T-Handle Style/
Straight Base



TST-220

UPC No. 80159

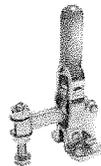
Note: T-Handle Style/
Stationary Spindle



VST-220

UPC No. 80140

Note: Stationary Spindle



SST-220

UPC No. 80180

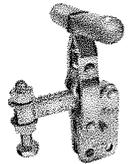
Note: Straight Base/
Stationary Spindle



TSST-220

UPC No. 80160

Note: T-Handle Style/
Straight Base/
Stationary Spindle

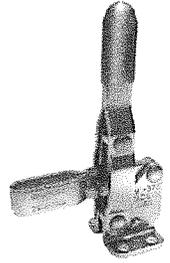
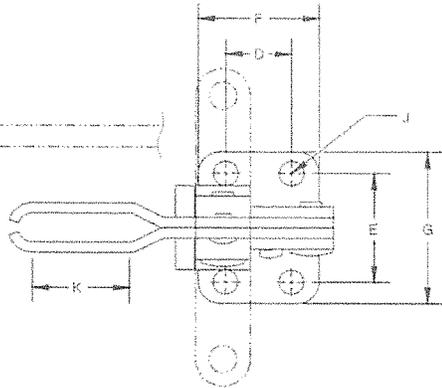


Model No.	UPC NO.	HOLDING CAPACITY	WEIGHT	HANDLE MOVES	BAR OPENS	DIMENSIONS										
						A	B	C	D	E	F	G	H	J	K	L
V-220	80115	200 lbs	0.33 lbs	64 deg.	110 deg.	3.69	2.64	0.963	0.500	1.06	1.00	1.56	1.64	0.218	1.00	-
S-220	80181	200 lbs	0.33 lbs	64 deg.	110 deg.	3.88	2.64	1.12	0.500	0.256	1.00	-	1.64	0.218	1.00	-
T-220	80161	200 lbs	0.36 lbs	64 deg.	110 deg.	2.81	2.64	0.963	0.500	1.06	1.00	1.56	1.64	0.218	1.00	2.40
TS-220	80162	200 lbs	0.36 lbs	64 deg.	110 deg.	3.00	2.64	1.12	0.500	0.256	1.00	-	1.64	0.218	1.00	2.40
TST-220	80159	200 lbs	0.38 lbs	64 deg.	110 deg.	2.81	2.29	0.963	0.500	1.06	1.00	1.56	1.29	0.218	-	2.40
TSST-220	80160	200 lbs	0.38 lbs	64 deg.	110 deg.	3.00	2.29	1.12	0.500	0.256	1.00	-	1.29	0.218	-	2.40
SST-220	80180	200 lbs	0.35 lbs	64 deg.	110 deg.	3.88	2.29	1.12	0.500	0.256	1.00	-	1.29	0.218	-	-
VST-220	80140	200 lbs	0.35 lbs	64 deg.	110 deg.	3.69	2.29	0.963	0.500	1.06	1.00	1.56	1.29	0.218	-	-

CLAMPING ARM STYLE

(TST, TSST, SST, VST)

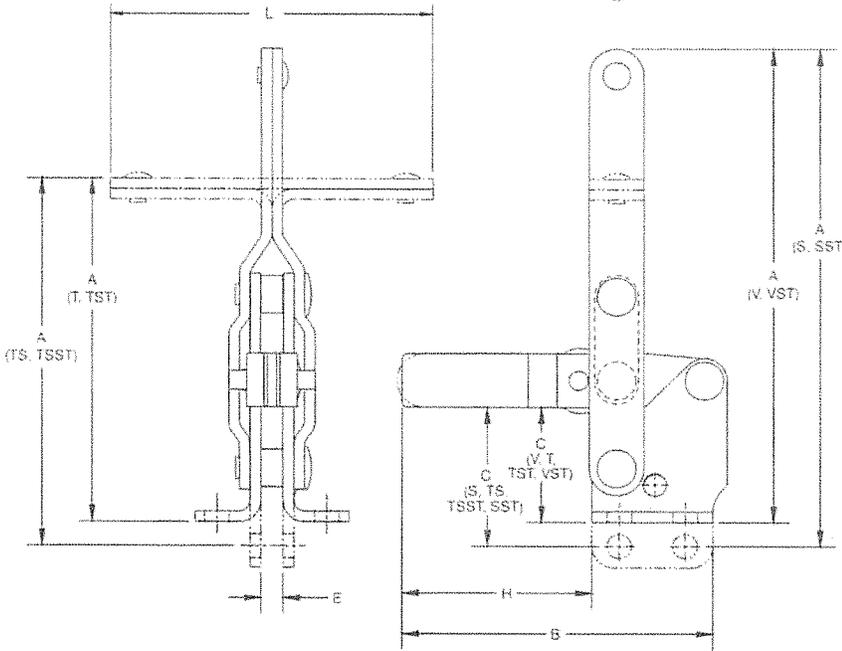
(V, S, T, TS)



V-375

UPC No. 80116

Note: Two Spindle Clips (171123) supplied. Accommodates 5/16" spindle (370375), not included. See accessories on page 82.



S-375

UPC No. 80183

Note: Straight Base



T-375

UPC No. 80163

Note: T-Handle Style



TS-375

UPC No. 80164

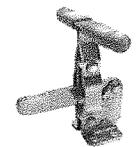
Note: T-Handle Style/
Solid Toggle



TST-375

UPC No. 80165

Note: T-Handle Style/
Solid Toggle



VST-375

UPC No. 80141

Note: Solid Toggle



SST-375

UPC No. 80182

Note: Straight Base/
Solid Toggle



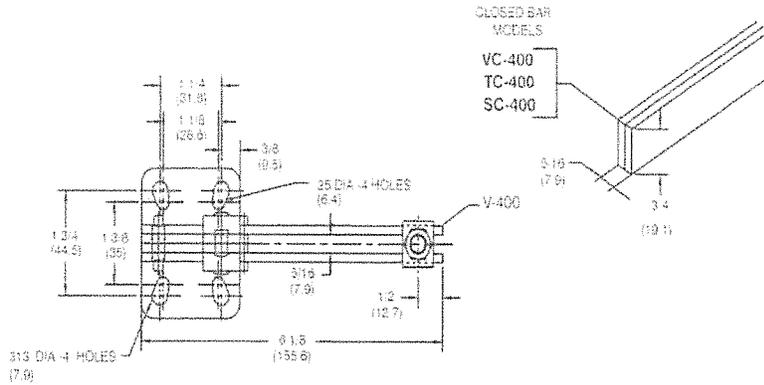
TSST-375

UPC No. 80166

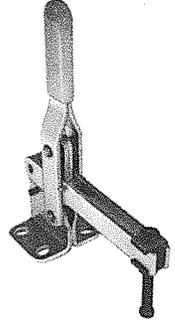
Note: T-Handle Style/
Straight Base/
Solid Toggle



Model No.	UPC NO.	HOLDING CAPACITY	WEIGHT	HANDLE MOVES	BAR OPENS	DIMENSIONS										
						A	B	C	D	E	F	G	H	J	K	L
V-375	80116	375 lbs	0.715 lbs	68 deg.	119 deg.	5.50	3.70	1.34	0.750	1.25	1.38	1.75	2.16	0.280	1.31	-
S-375	80183	375 lbs	0.720 lbs	68 deg.	119 deg.	5.75	3.70	1.62	0.750	0.250	1.38	-	2.16	0.280	1.31	-
T-375	80163	375 lbs	0.800 lbs	68 deg.	119 deg.	4.00	3.70	1.34	0.750	1.25	1.38	1.75	2.16	0.280	1.31	3.68
TS-375	80164	375 lbs	0.800 lbs	68 deg.	119 deg.	4.25	3.70	1.62	0.750	0.250	1.38	-	2.16	0.280	1.31	3.68
TST-375	80165	475 lbs	0.730 lbs	68 deg.	119 deg.	4.00	3.76	1.34	0.750	1.25	1.38	1.75	2.22	0.280	-	3.68
TSST-375	80166	475 lbs	0.730 lbs	68 deg.	119 deg.	4.25	3.76	1.62	0.750	0.250	1.38	-	2.22	0.280	-	3.68
SST-375	80182	475 lbs	0.650 lbs	68 deg.	119 deg.	5.75	3.76	1.62	0.750	0.250	1.38	-	2.22	0.280	-	-
VST-375	80141	475 lbs	0.630 lbs	68 deg.	119 deg.	5.50	3.76	1.34	0.750	1.25	1.38	1.75	2.22	0.280	-	-



CLOSED BAR MODELS
VC-400
TC-400
SC-400

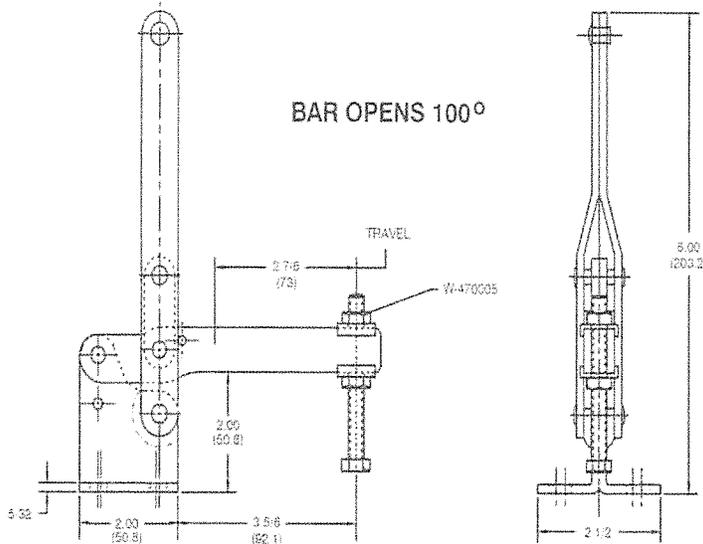


V-400

UPC No. 80104
Holding Capacity:

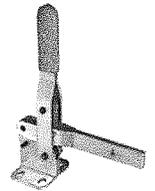
At end of Toggle Bar....400 lbs/180 kg
1 - 1/8" in Front
Of Base.....1050 lbs/480 kg
Weight.....1.50 lbs/0.68 kg
Included.....Spindle Assembly (W-470005)

BAR OPENS 100°



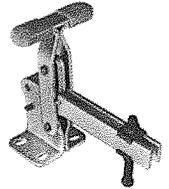
VC-400

UPC No. 80110
Note: Closed Toggle Bar



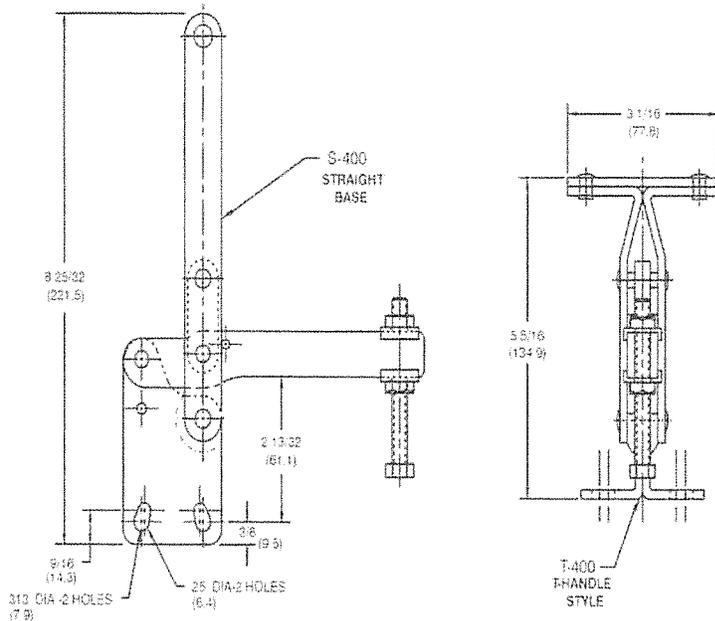
T-400

UPC No. 80152
Note: T-Handle Style



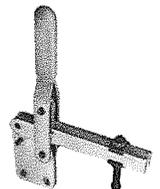
TC-400

UPC No. 80157
Note: T-Handle Style with Closed Toggle Bar



S-400

UPC No. 80172
Note: Straight Base



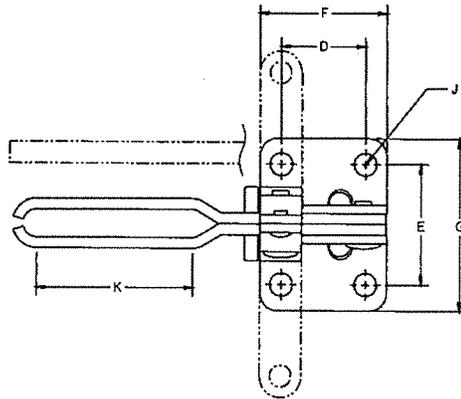
SC-400

UPC No. 80176
Note: Straight Base with Closed Toggle Bar

CLAMPING ARM STYLE

(TST, TSST, SST, VST)

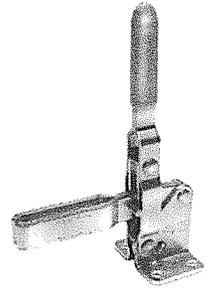
(V, S, T, TS)



V-600

UPC No. 80117

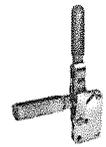
Note: Two spindle clips (171124) supplied. Accommodates 3/8" spindle (370600), not included. See accessories on page 82.



S-600

UPC No. 80187

Note: Straight Base



T-600

UPC No. 80149

Note: T-Handle Style



TS-600

UPC No. 80169

Note: T-Handle Style/
Straight Base



TST-600

UPC No. 80167

Note: T-Handle Style/
Solid Toggle



TSST-600

UPC No. 80168

Note: T-Handle Style/
Straight Base/
Solid Toggle



VST-600

UPC No. 80142

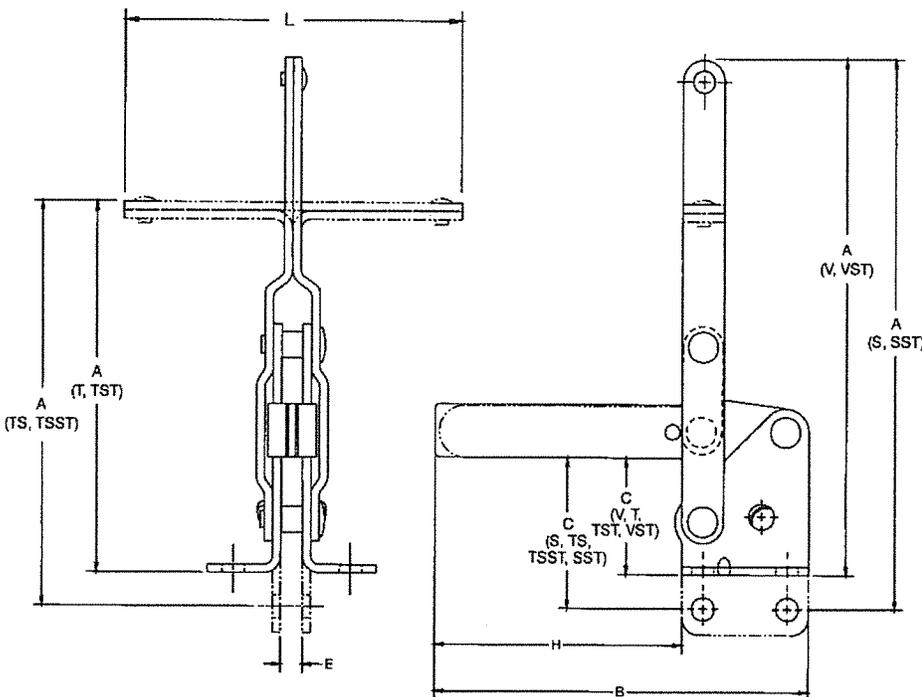
Note: Solid Toggle



SST-600

UPC No. 80185

Note: Straight Base/
Solid Toggle



A (TS, TSST)

A (T, TST)

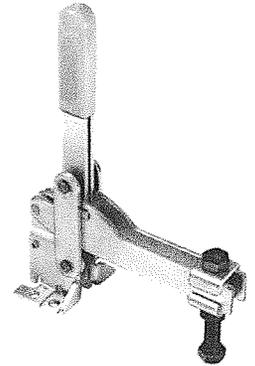
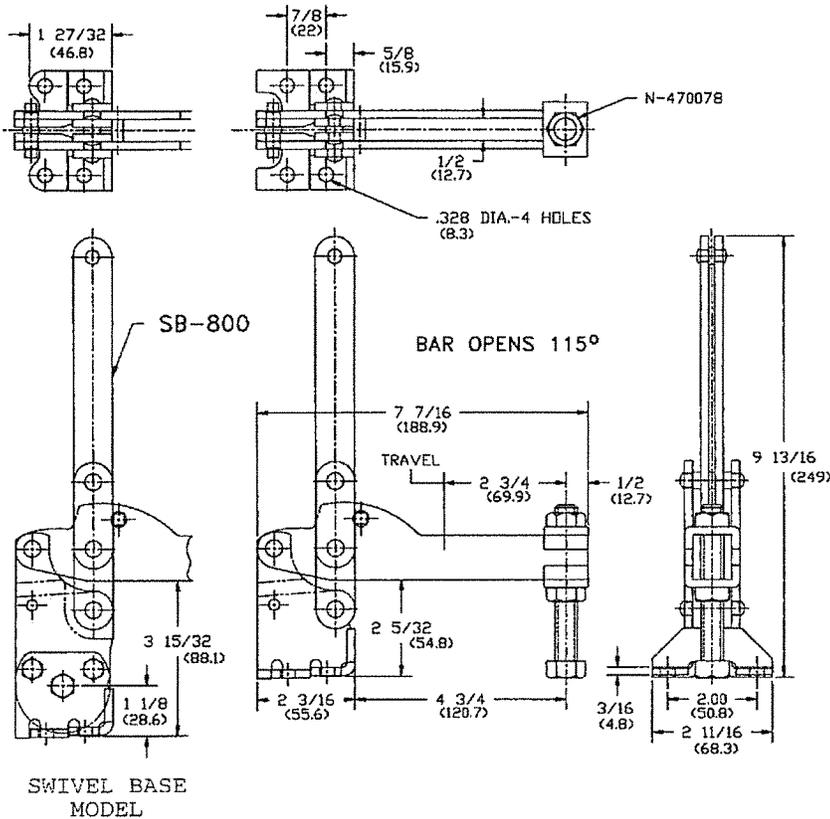
A (V, VST)

A (S, SST)

C (S, TS, TSST, SST)

C (V, T, TST, VST)

Model No.	UPC NO.	HOLDING CAPACITY	WEIGHT	HANDLE MOVES	BAR OPENS	DIMENSIONS										
						A	B	C	D	E	F	G	H	J	K	L
V-600	80117	600 lbs	1.115 lbs	57 deg.	106 deg.	7.44	5.53	1.69	1.25	1.75	1.88	2.50	3.66	0.330	2.56	-
S-600	80187	600 lbs	1.115 lbs	57 deg.	106 deg.	7.94	5.53	2.16	1.25	0.312	1.88	-	3.66	0.330	2.56	-
T-600	80149	600 lbs	1.230 lbs	57 deg.	106 deg.	5.38	5.53	1.69	1.25	1.75	1.88	2.50	3.66	0.330	2.56	5.00
TS-600	80169	600 lbs	1.245 lbs	57 deg.	106 deg.	5.84	5.53	2.16	1.25	0.312	1.88	-	3.66	0.330	2.56	5.00
TST-600	80167	700 lbs	1.095 lbs	57 deg.	106 deg.	5.38	5.47	1.69	1.25	1.75	1.88	2.50	3.59	0.330	-	5.00
TSST-600	80168	700 lbs	1.215 lbs	57 deg.	106 deg.	5.84	5.47	2.16	1.25	0.312	1.88	-	3.59	0.330	-	5.00
SST-600	80185	700 lbs	1.095 lbs	57 deg.	106 deg.	7.94	5.47	2.16	1.25	0.312	1.88	-	3.59	0.330	-	-
VST-600	80142	700 lbs	1.095 lbs	57 deg.	106 deg.	7.44	5.47	1.69	1.25	1.75	1.88	2.50	3.59	0.330	-	-



V-800

UPC No. 80108

Holding Capacity:

At End of

Toggle Bar.....800 lbs/360 kg

2" in Front

Of Base..... 1700 lbs/770 kg

Weight.....3.00 lbs/1.36 kg

Included.....Spindle Assembly

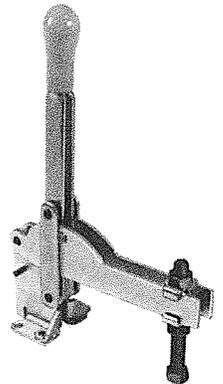
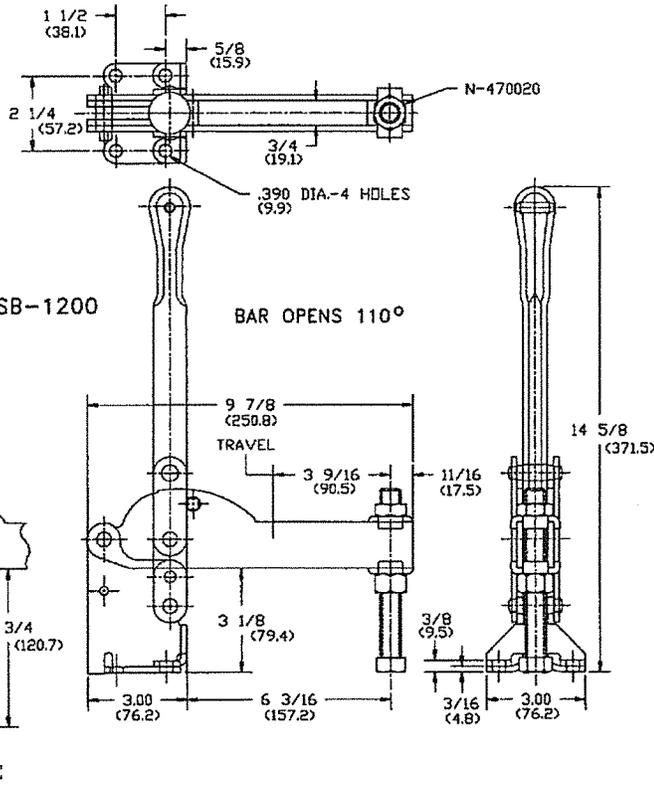
(N-470078)

SB-800

UPC No. 80184

Weight.....3.70 lbs/1.68 kg

Note: Swivel Base Style



V-1200

UPC No. 80112

Holding Capacity:

At End of

Toggle Bar.....1200 lbs/540 kg

2-5/8" in Front

Of Base..... 2570 lbs/1170 kg

Weight.....6.00 lbs/2.72 kg

Included.....Spindle Assembly

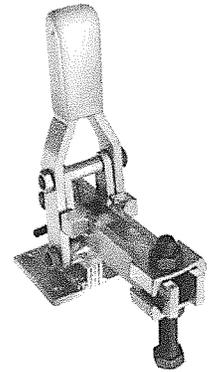
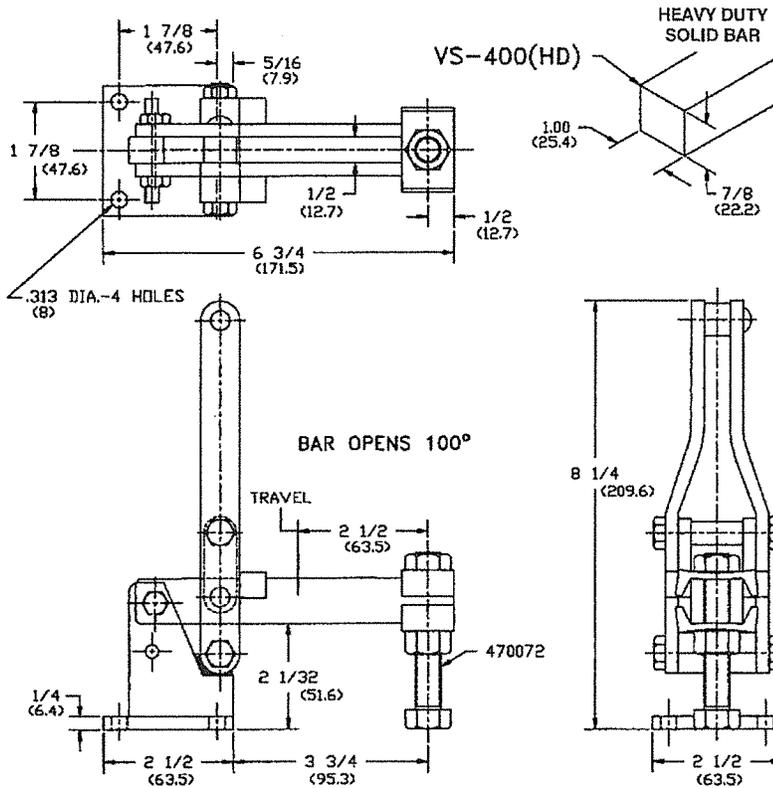
(N-470020)

SB-1200

UPC No. 80186

Weight.....6.35 lbs/2.88 kg

Note: Swivel Base Style



V-400-HD

UPC No. 80105

Heavy Duty Holding Capacity:

At End of
Toggle Bar.....400 lbs/180 kg
1-1/8" in Front

Of Base..... 1050 lbs/480 kg
Weight.....3.55 lbs/1.61 kg

Included.....Spindle Assembly
(470072)

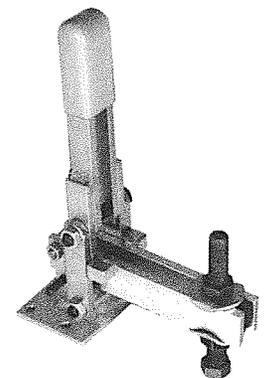
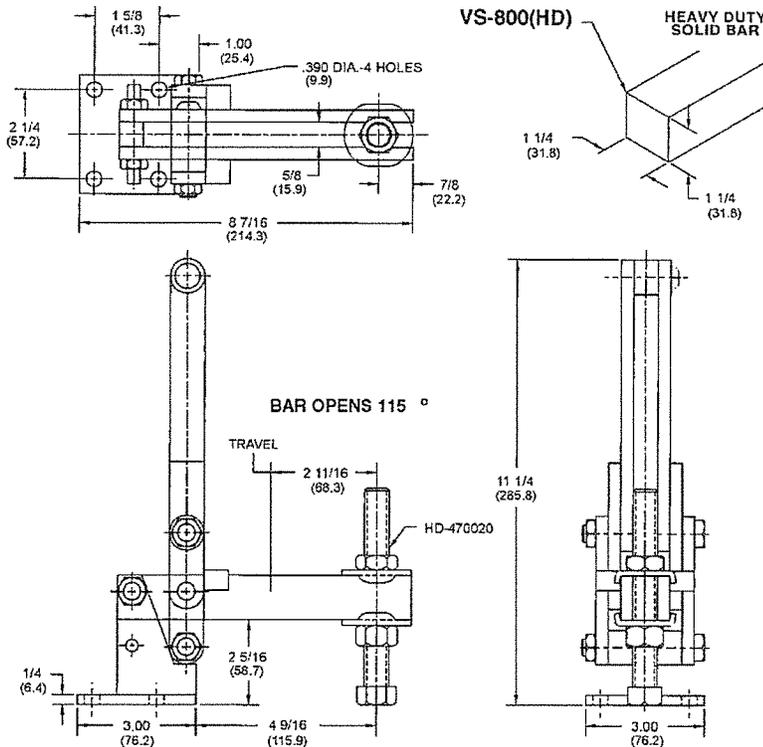
Note: Heavy Duty

VS-400-HD

UPC No. 80134

Weight.....3.90 lbs/1.77 kg

Note: Heavy Duty with Solid Toggle Bar



V-800-HD

UPC No. 80109

Heavy Duty Holding Capacity:

At End of
Toggle Bar.....800 lbs/360 kg
1-11/16" in Front

Of Base..... 1900 lbs/860 kg
Weight.....6.80 lbs/3.10 kg

Included.....Spindle Assembly
(HD-470020)

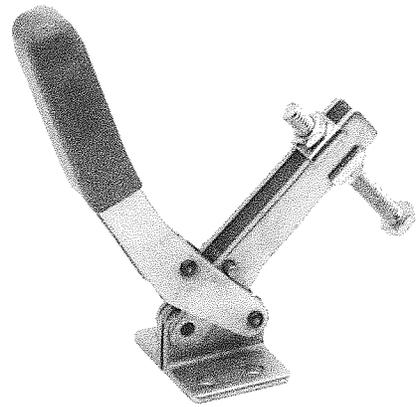
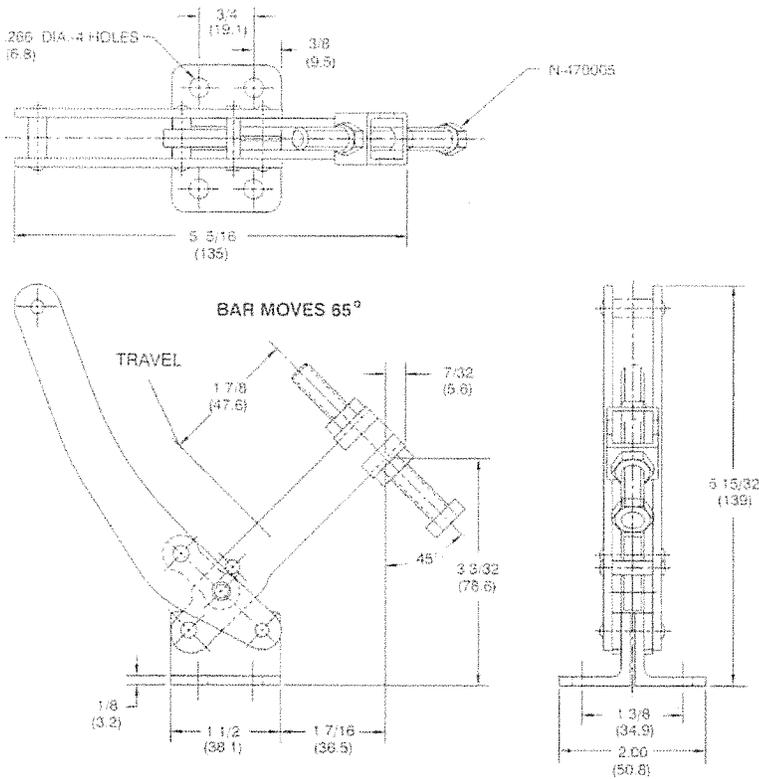
Note: Heavy Duty

VS-800-HD

UPC No. 80139

Weight.....7.66 lbs/3.48 kg

Note: Heavy Duty with Solid Toggle Bar



J-200

UPC No. 80240

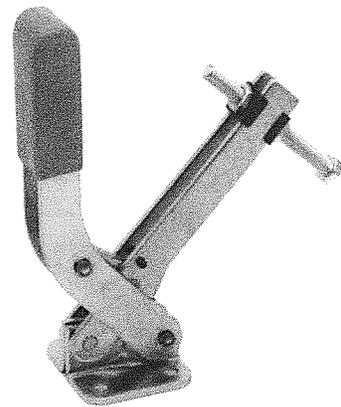
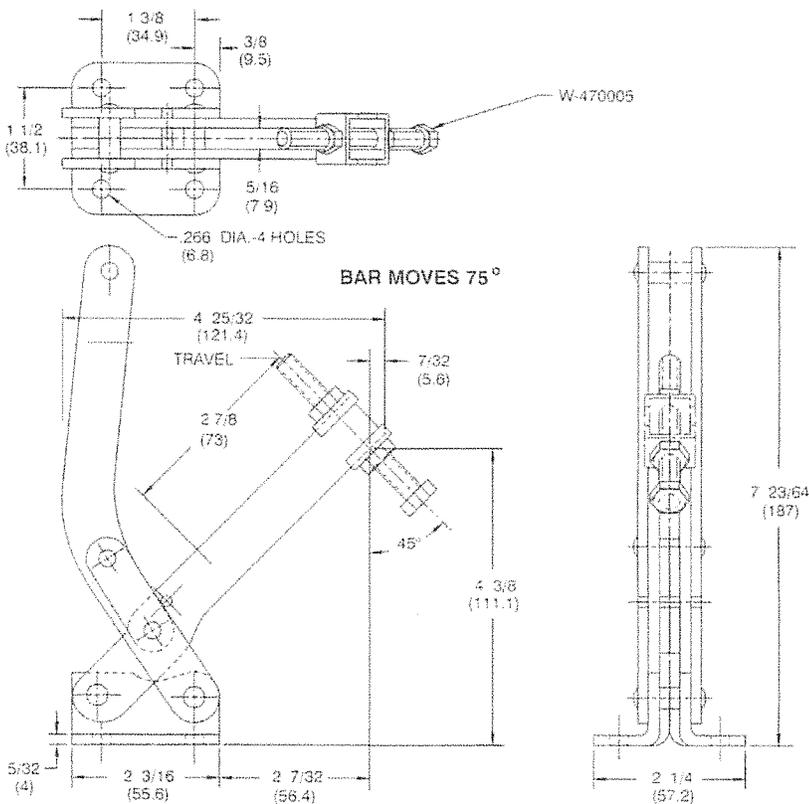
Holding Capacity:

At End of
Toggle Bar.....200 lbs/90 kg

Weight.....0.79 lbs/0.36 kg

Included.....Spindle Assembly
(N-470005)

Note: Angular Toggle Bar



J-400

UPC No. 80242

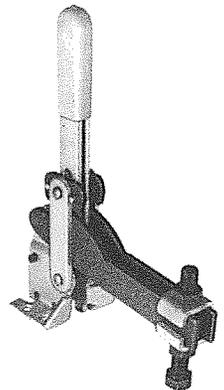
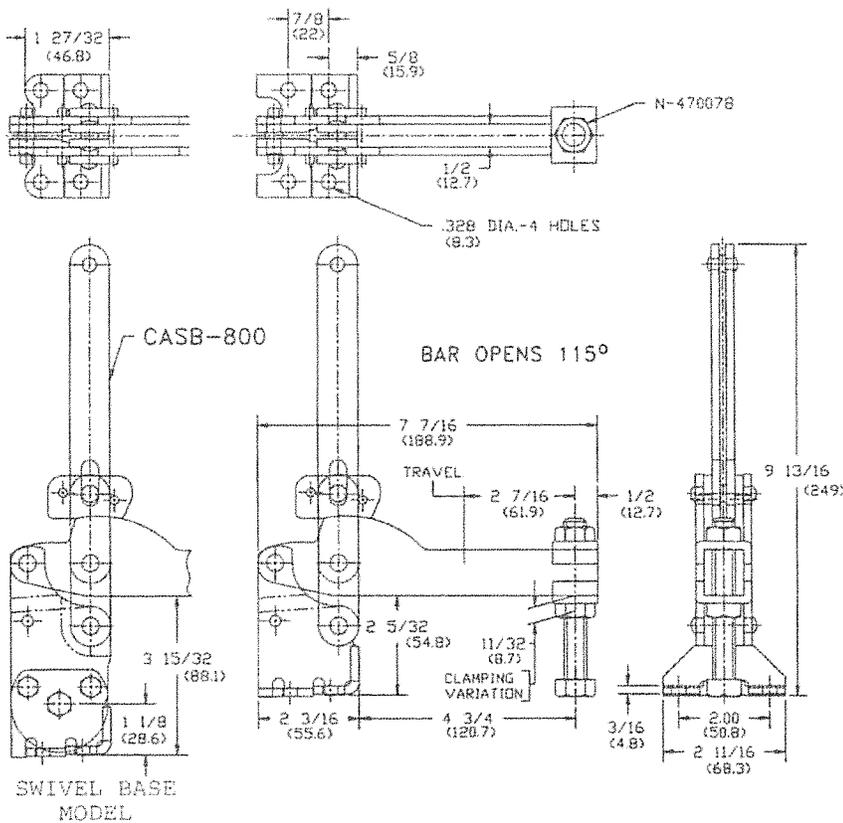
Holding Capacity:

At End of
Toggle Bar.....400 lbs/180 kg

Weight.....1.42 lbs/0.64 kg

Included.....Spindle Assembly
(W-470005)

Note: Angular Toggle Bar



CAV-800

UPC No. 80308

Holding Capacity:

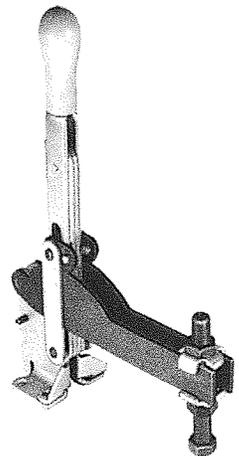
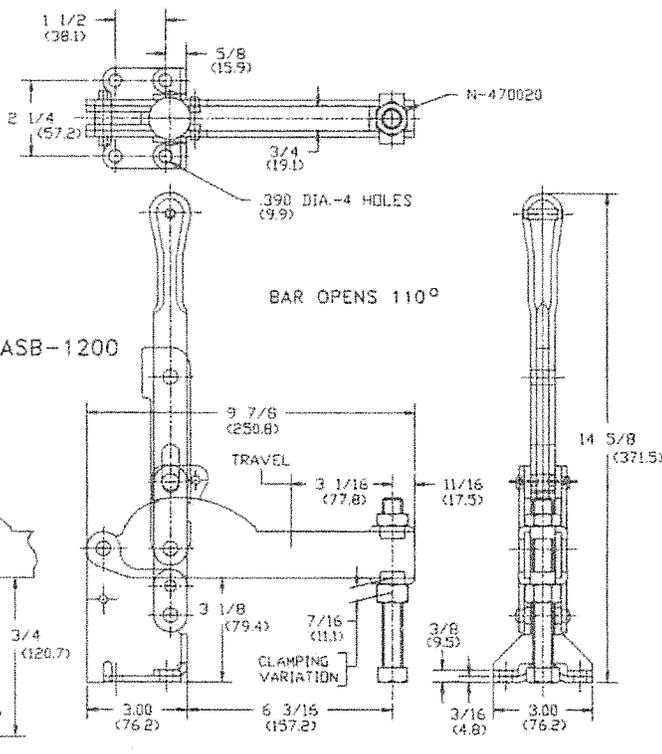
At End of
Toggle Bar.....800 lbs/360 kg
2-5/16" in Front
Of Base..... 1500 lbs/680 kg
Weight.....3.10 lbs/1.41 kg
Included.....Spindle Assembly
(N-470078)

Note: Cam Action

CASB-800

UPC No. 80340

Weight.....3.85 lbs/1.75 kg
Note: Cam Action with Swivel
Base



CAV-1200

UPC No. 80312

Holding Capacity:

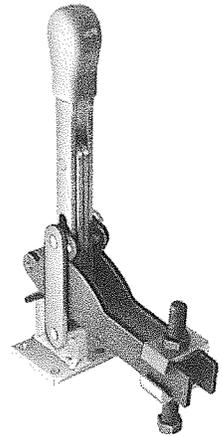
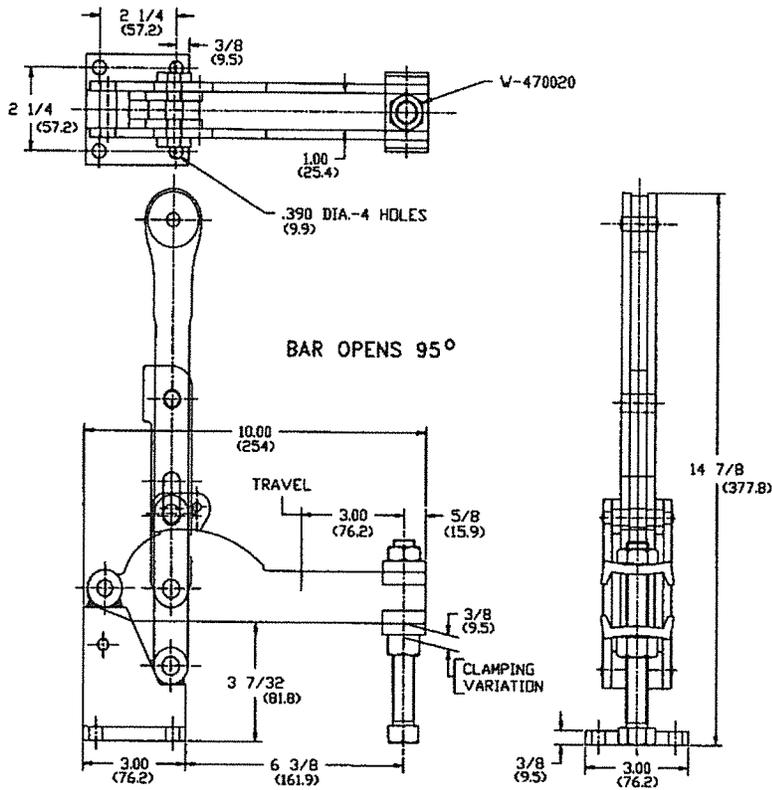
At End of
Toggle Bar.....1200 lbs/540 kg
3-1/8" in Front
Of Base..... 2200 lbs/1000 kg
Weight.....6.70 lbs/3.04 kg
Included.....Spindle Assembly
(N-470020)

Note: Cam Action

CASB-1200

UPC No. 80350

Weight.....7.90 lbs/3.58 kg
Note: Cam Action with Swivel
Base



CAV-2000

UPC No. 80320

Holding Capacity:

At End of

Toggle Bar.....2000 lbs/900 kg

3-1/4" in Front

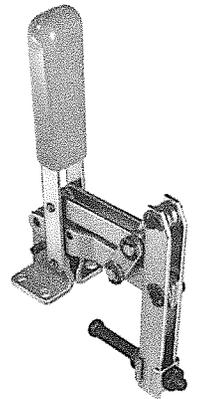
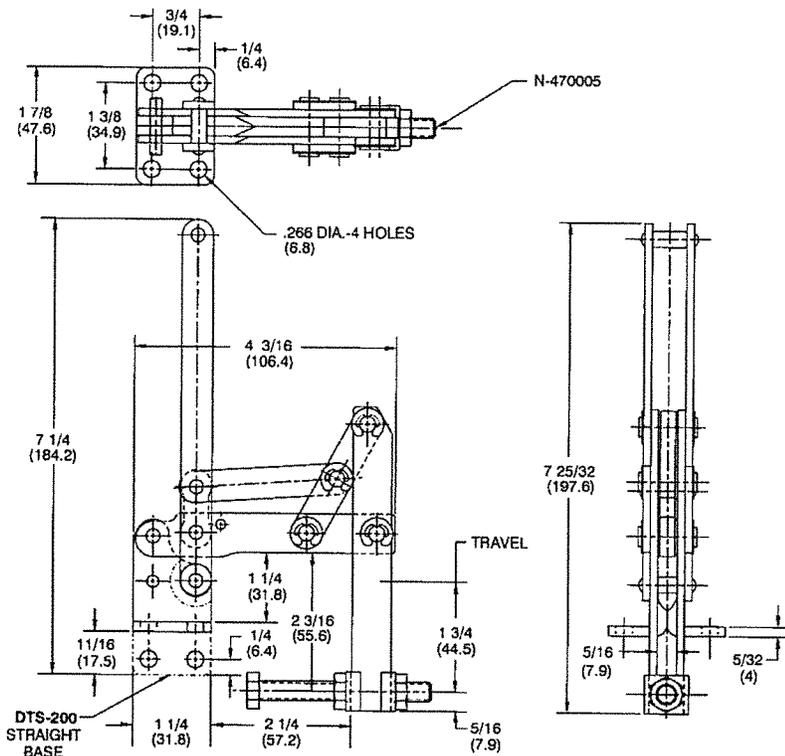
Of Base.....600 lbs/1630 kg

Weight.....10.40 lbs/4.72 kg

Included.....Spindle Assembly
(W-470020)

Note: Cam Action

Note: For angular clamping, bolt
bushing assembly MB-
470020 is available.



DTV-200

UPC No. 80402

Holding Capacity:

15/16" From Bottom of

Toggle Bar.....300 lbs/135 kg

1-9/16" From Bottom of

Toggle Bar.....200 lbs/90 kg

2-3/16" From Bottom of

Toggle Bar.....150 lbs/68 kg

Weight.....1.18 lbs/0.54 kg

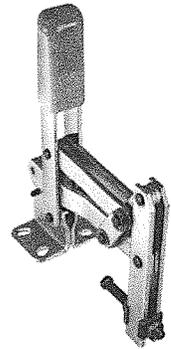
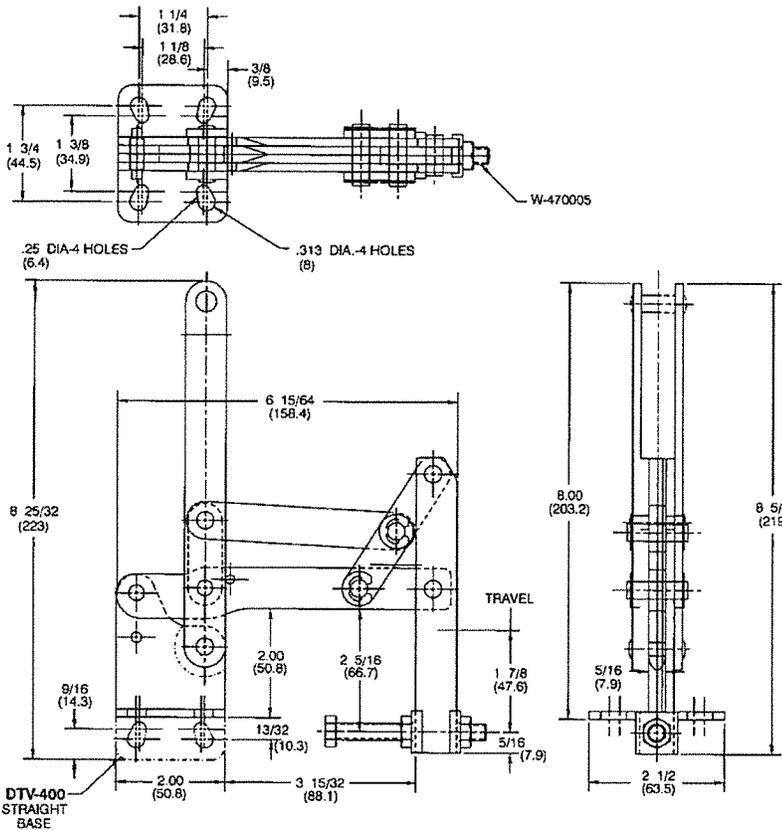
Included.....Spindle Assembly
(N-470005)

Note: Double Toggle Action

DTS-200

UPC No. 80430

Note: Double Toggle with Straight
Base



DTV-400

UPC No. 80464

Holding Capacity:

- 15/16" From Bottom of Toggle Bar.....600 lbs/270 kg
- 1-5/8" From Bottom of Toggle Bar..... 400 lbs/180 kg
- 2-5/16" From Bottom of Toggle Bar.....300 lbs/135 kg

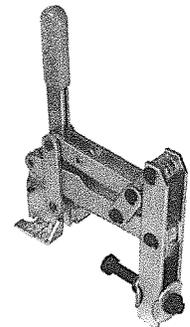
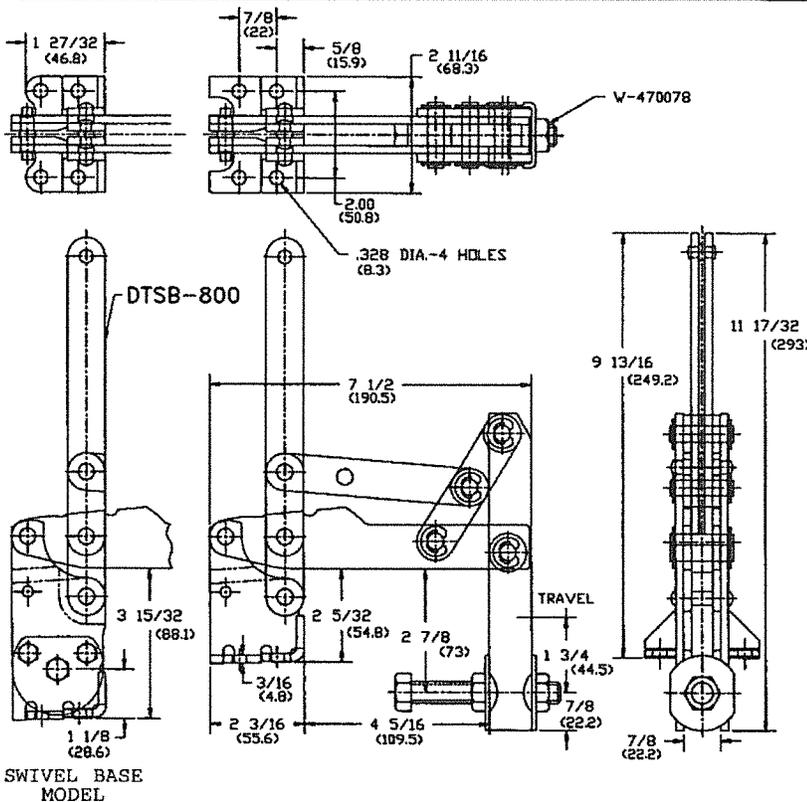
Weight.....2.35 lbs/1.07 kg
Included.....Spindle Assembly (W-470005)

Note: Double Toggle Action

DTS-400

UPC No. 80404

Note: Double Toggle with Straight Base



DTV-800

UPC No. 80408

Holding Capacity:

- 1-3/8" From Bottom of Toggle Bar.....1200 lbs/540 kg
- 2-1/4" From Bottom of Toggle Bar..... 800 lbs/360 kg
- 3-1/8" From Bottom of Toggle Bar.....600 lbs/270 kg

Weight.....4.90 lbs/2.22 kg
Included.....Spindle Assembly (W-470078)

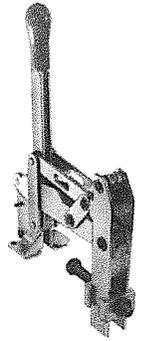
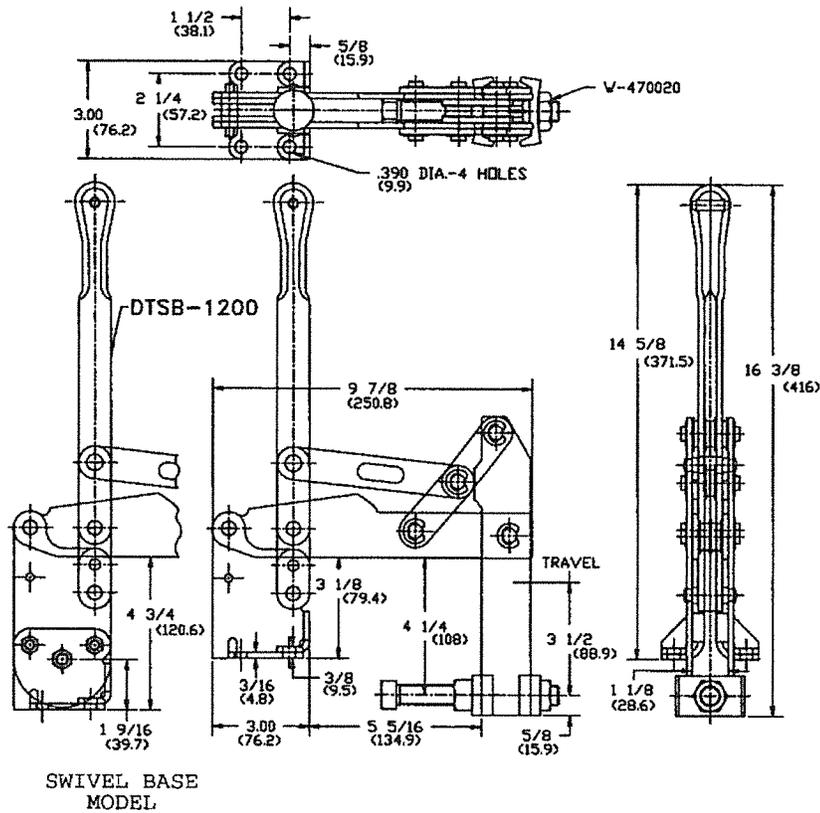
Note: Double Toggle Action

Note: For angular clamping, bolt bushing assembly B-470078 is available.

DTSB-800

UPC No. 80448

Weight.....5.35 lbs/2.43 kg
Note: Double Toggle with Swivel Base



DTV-1200

UPC No. 80412

Holding Capacity:

1-3/4" From Bottom of
Toggle Bar..... 1800 lbs/820 kg

3" From Bottom of
Toggle Bar..... 1200 lbs/540 kg

4-1/4" From Bottom of
Toggle Bar..... 900 lbs/410 kg

Weight..... 8.80 lbs/4.00 kg

Included..... Spindle Assembly
(W-470020)

Note: Double Toggle Action

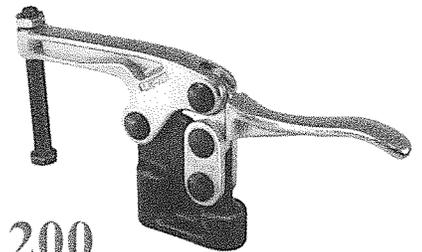
Note: For angular clamping, bolt
bushing assembly HB-
470020 is available.

DTSB-1200

UPC No. 80450

Weight..... 9.86 lbs/4.47 kg

Note: Double Toggle with Swivel
Base



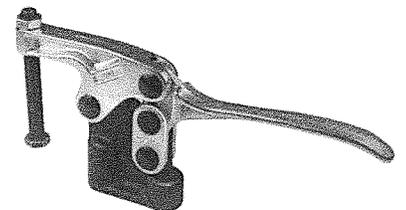
MH-1200

UPC No. 80950

Holding Capacity..... 1200 lbs/540 kg

Weight..... 1.50 lbs/0.68 kg

Included..... Spindle Assembly
(370052)



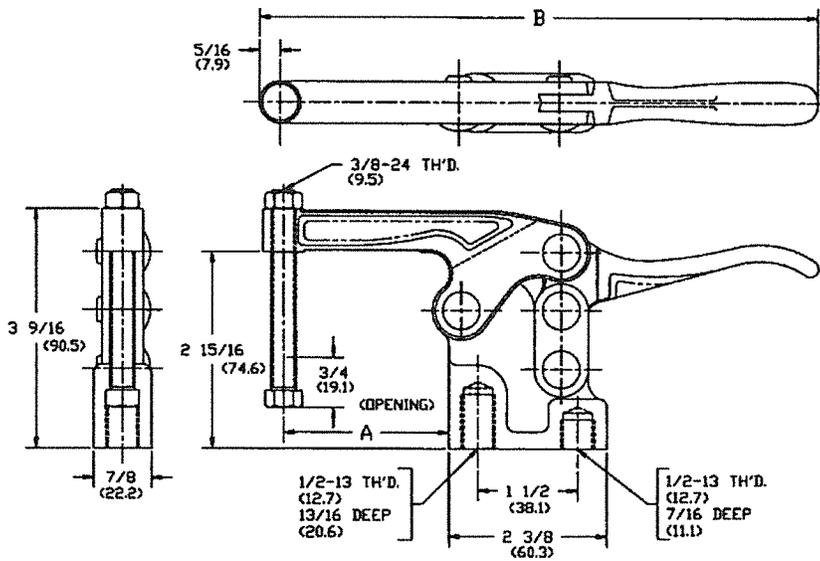
MH-2400

UPC No. 80951

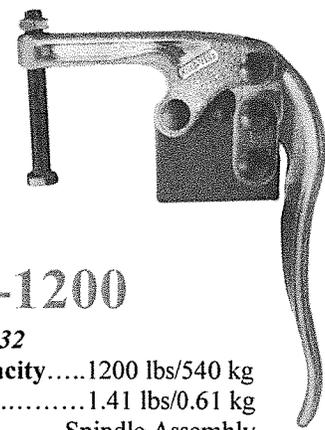
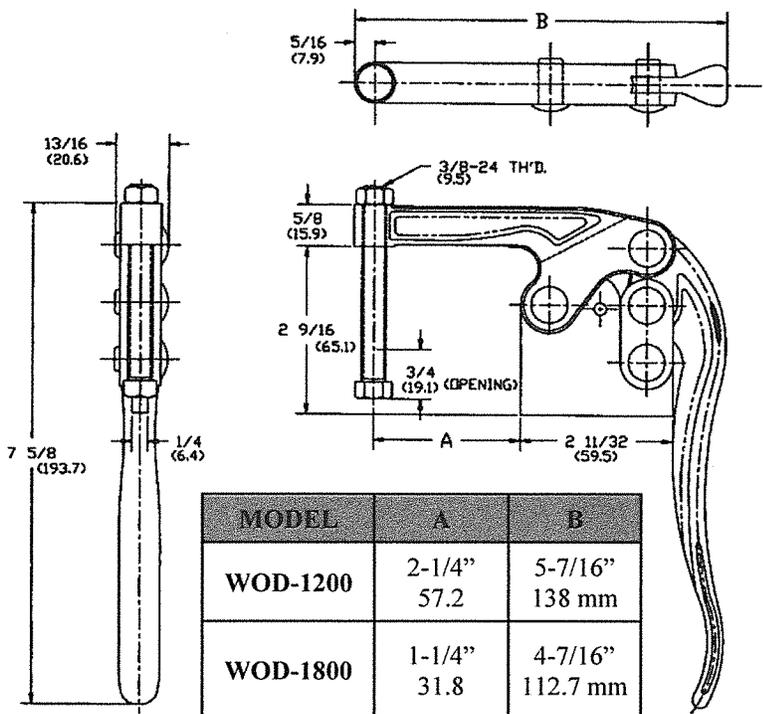
Holding Capacity... 2400 lbs/1100 kg

Weight..... 1.47 lbs/0.67 kg

Included..... Spindle Assembly
(370052)



MODEL	A	B
MH-1200	2-1/4" 57.2	8-1/16" 205 mm
MH-2400	1-1/4" 31.8	8-7/16" 214 mm

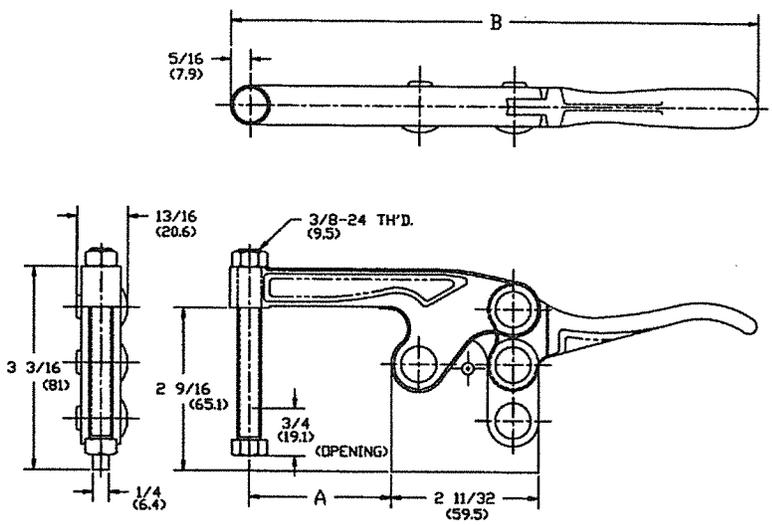


WOD-1200

UPC No. 80932
Holding Capacity.....1200 lbs/540 kg
Weight.....1.41 lbs/0.61 kg
Included.....Spindle Assembly (370052)

WOD-1800

UPC No. 80938
Holding Capacity.....1800 lbs/820 kg
Weight.....1.34 lbs/0.61 kg
Included.....Spindle Assembly (370052)



WOH-1200

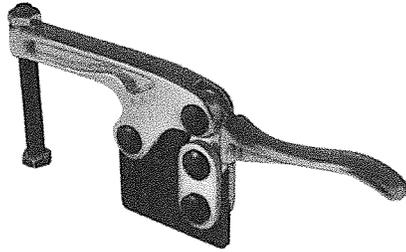
UPC No. 80912
Holding Capacity.....1200 lbs/540 kg
Weight.....1.26 lbs/0.57 kg
Included.....Spindle Assembly (370052)

WOH-1600

UPC No. 80916
Holding Capacity.....1600 lbs/725 kg
Weight.....1.33 lbs/0.60 kg
Included.....Spindle Assembly (370052)

WOH-1800

UPC No. 80918
Holding Capacity.....1800 lbs/820 kg
Weight.....1.29 lbs/0.59 kg
Included.....Spindle Assembly (370052)



MODEL	A	B
WOH-1200	2-1/4"	8-1/16" 205 mm
WOH-1600	57.2	9-7/16" 240 mm
WOH-1800	1-1/4"	7-1/16" 179 mm
WOH-2400	31.8	8-7/16" 214 mm

WOH-2400

UPC No. 80924
Holding Capacity...2400 lbs/1100 kg
Weight.....1.22 lbs/0.55 kg
Included.....Spindle Assembly (370052)

PUSH & PULL CLAMPS

Widely used for woodworking, electronic assemblies, fixturing, and a variety of other applications. Push and pull clamps are designed to exert a continuous pushing or pulling force during the entire plunger travel, and hold workpieces in pushing or pulling position at end of rod travel. Holding capacities from 100-8000 lbs. are available.

Features:

Push & Pull Clamps

- ◆ Straight base version available on some models.
- ◆ P&P-800 available with internal/external threads in/on plunger rod.

Pull Clamps

Offer three standard end configuration selections in various sizes.

- ◆ U-Bolt
- ◆ Hook
- ◆ Threaded rod

Latches to accommodate these end configurations for pull-only modes are also available.

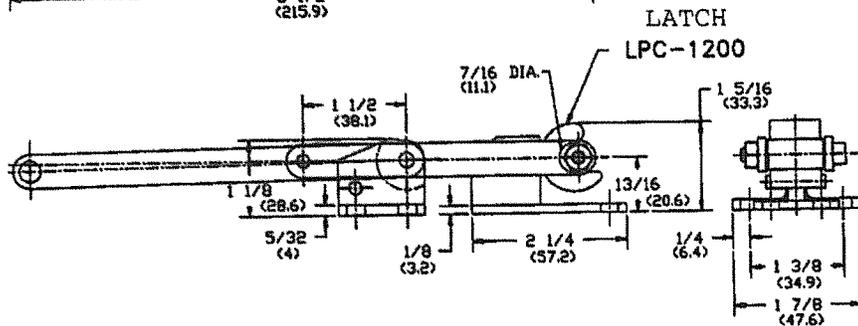
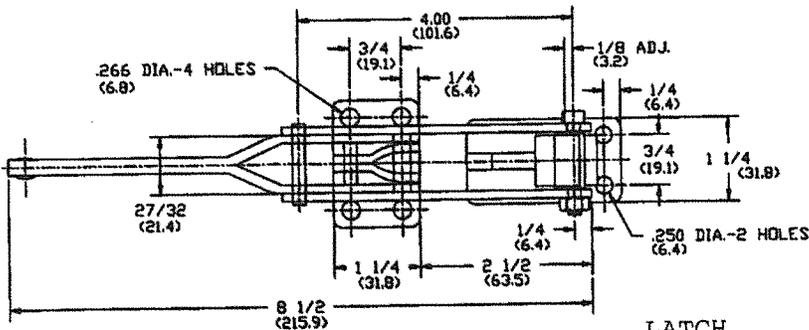
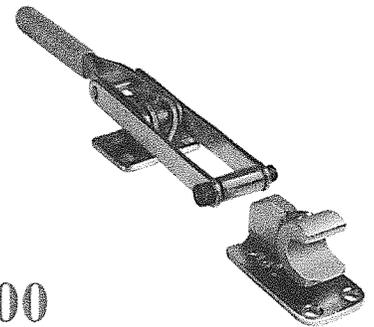
Safety Locking Feature

Knu-Vise offers an optional safety locking device on most of its pull clamps, and on the PHL-2500 push and pull clamp.

A safety locking device prevents the clamp from accidental or involuntary opening or release. When it is engaged in a locked position, it will secure the clamp and prevent it from releasing its load.

The safety locking option, in addition to the standard toggle action of the clamp, assures you of a truly secured operation.

To order the optional safety locking feature, add the letter "S" to the end of the selected pull clamp. Example: PC-8000-S.



PC-1200

UPC No. 80513

Pull.....1200 lbs/540 kg

Weight.....0.58 lbs/0.26 kg

Travel.....3.00"/76.2 mm

Note: Latch Optional

PC-1200-S

UPC No. 80517

Note: Safety Lock Feature/Latch Optional

PC-1200-SS

UPC No. 80516

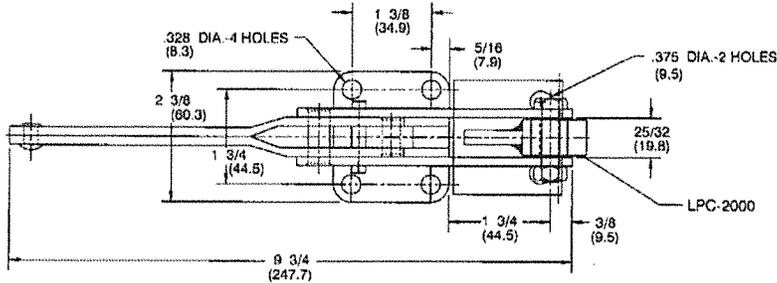
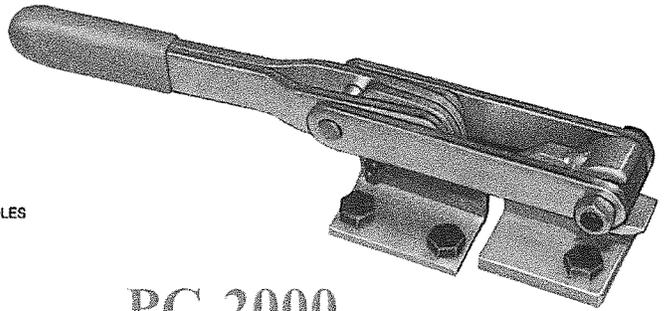
Note: Stainless Steel Clamp Only

LPC-1200

UPC No. 80071

Weight.....0.26 lbs/0.12 kg

Note: Latch Only



PC-2000

UPC No. 80521

Pull.....2000 lbs/900 kg
 Weight.....1.56 lbs/0.71 kg
 Travel.....2.50"/63.5 mm

Note: Latch Optional

PC-2000-S

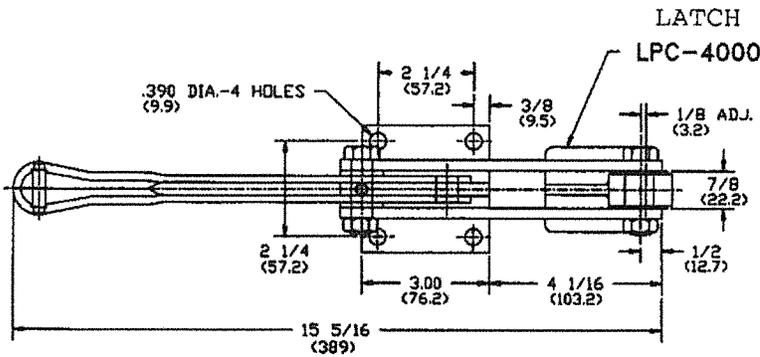
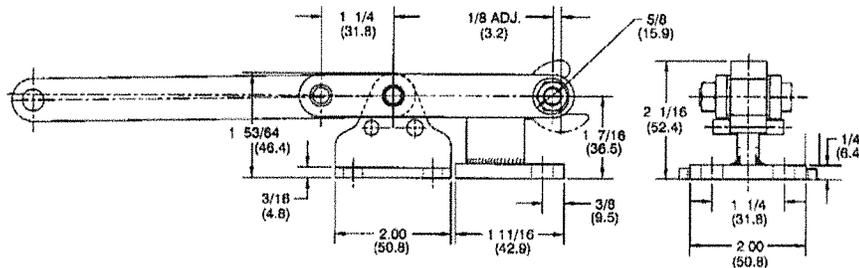
UPC No. 80531

Note: Safety Lock Feature/Latch Optional

LPC-2000

UPC No. 80073

Weight.....0.26 lbs/0.12 kg
 Note: Latch Only



PC-4000

UPC No. 80524

Pull.....4000 lbs/1800 kg
 Weight.....3.94 lbs/1.79 kg
 Travel.....4.00"/102 mm

Note: Latch Optional

PC-4000-S

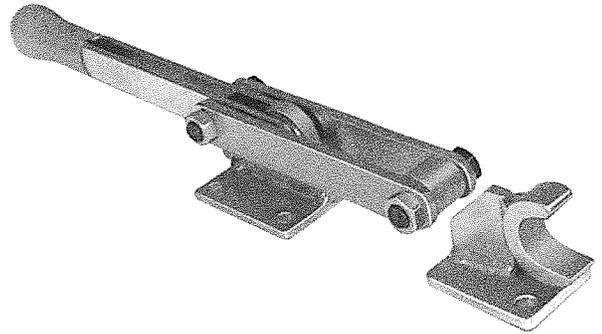
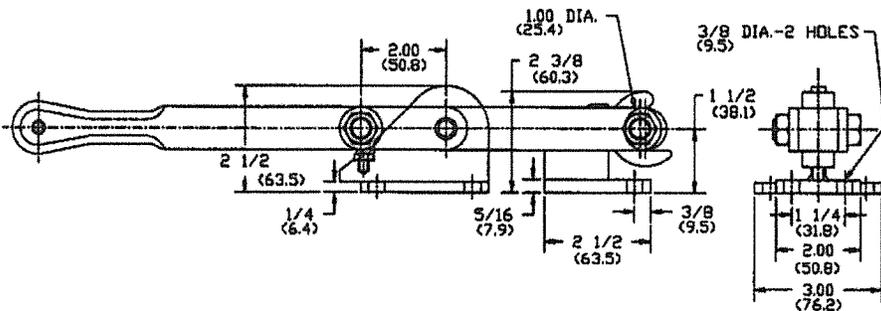
UPC No. 80525

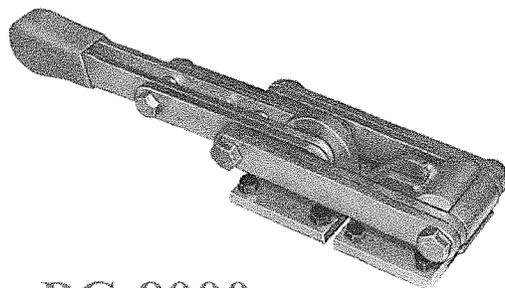
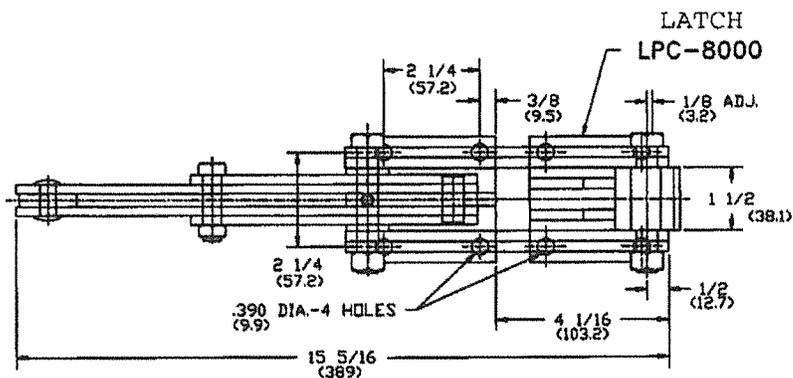
Note: Safety Lock Feature/Latch Optional

LPC-4000

UPC No. 80076

Weight.....0.84 lbs/0.38 kg
 Note: Latch Only





PC-8000

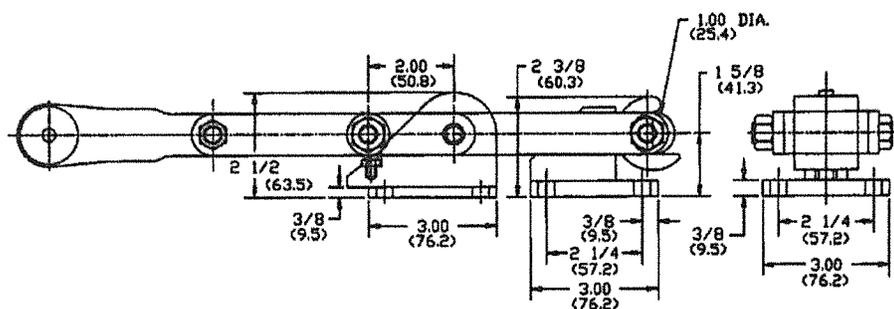
UPC No. 80518

Pull.....8000 lbs/3600 kg

Weight.....7.00 lbs/3.18 kg

Travel.....4.00"/102 mm

Note: Latch Optional



PC-8000-S

UPC No. 80519

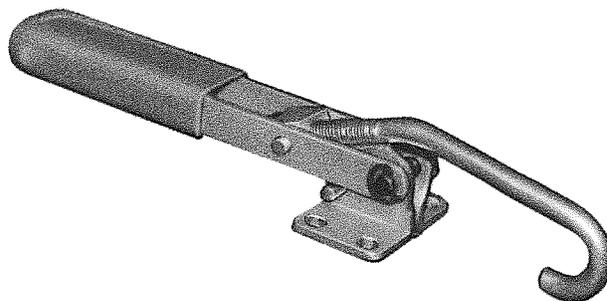
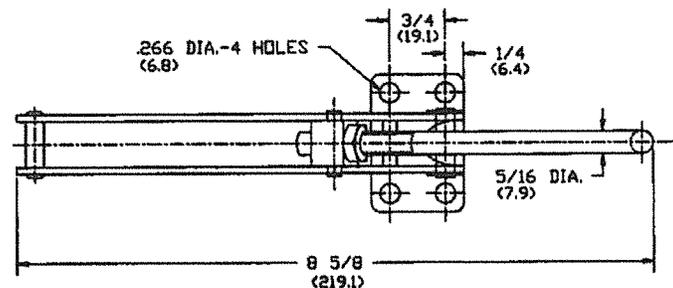
Note: Safety Lock Feature/Latch Optional

LPC-8000

UPC No. 80078

Weight.....1.80 lbs/0.82 kg

Note: Latch Only



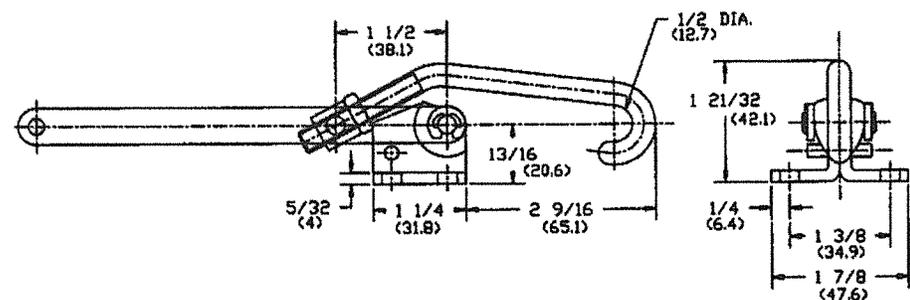
PCH-101

UPC No. 80501

Pull.....100 lbs/45 kg

Weight.....9.00 oz/0.26 kg

Travel.....3.00"/76.2 mm



PCH-200

UPC No. 80502

Pull:

At Hook Center.....200 lbs/90 kg

At Hook End.....100 lbs/45 kg

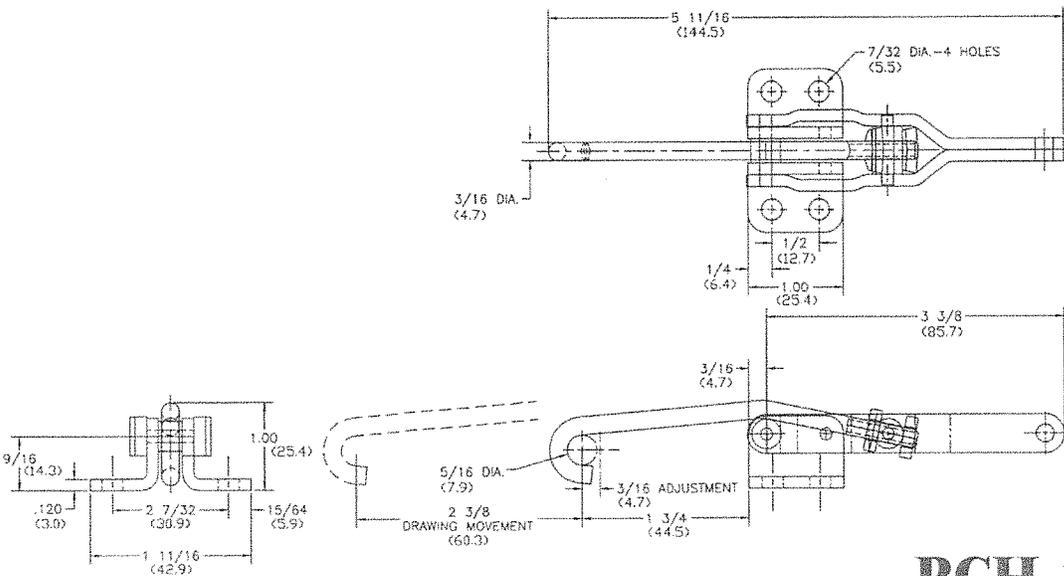
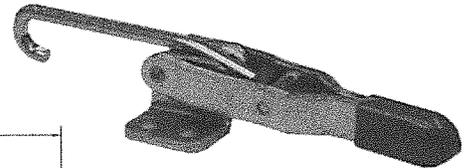
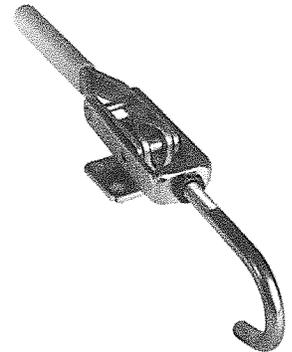
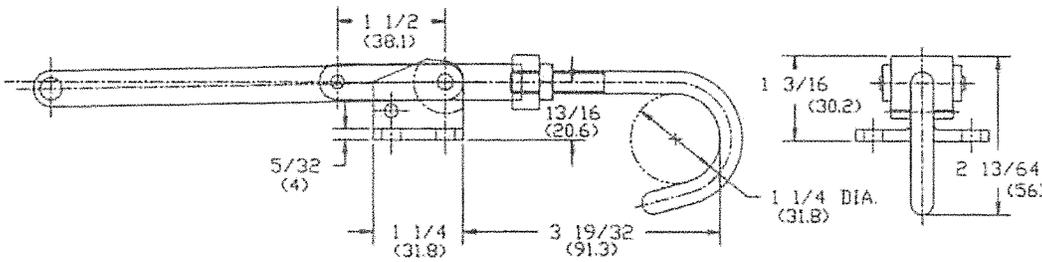
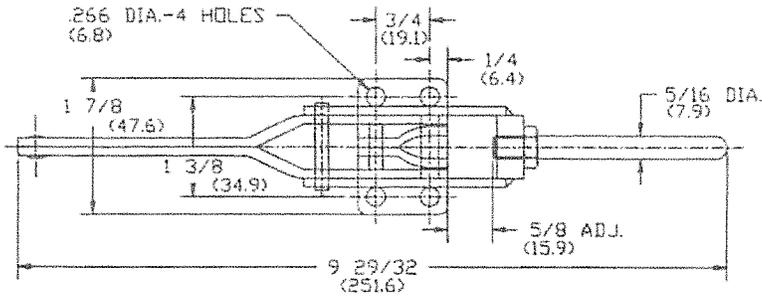
Weight.....0.75 lbs/0.26 kg

Travel.....3.00"/76.2 mm

PCH-200-SS

UPC No. 80506

Note: From Stainless Steel



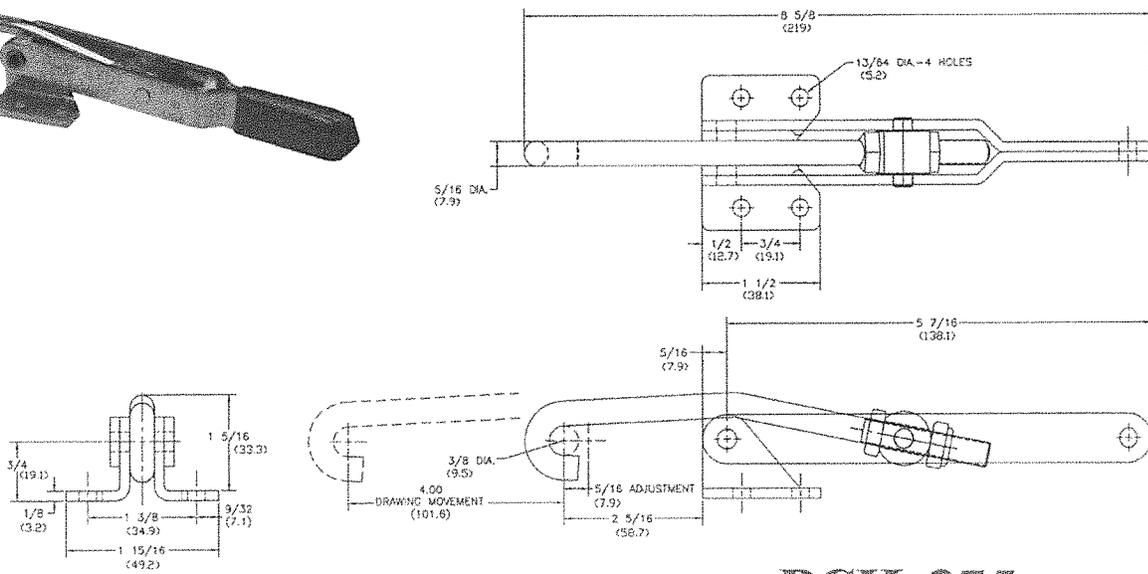
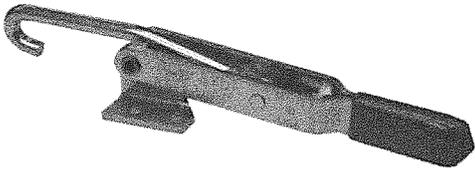
PCH-210

UPC No. 80498

Pull.....200 lbs/90 kg

Weight.....226 lbs/101 kg

Travel.....2 3/8"/60.3 mm



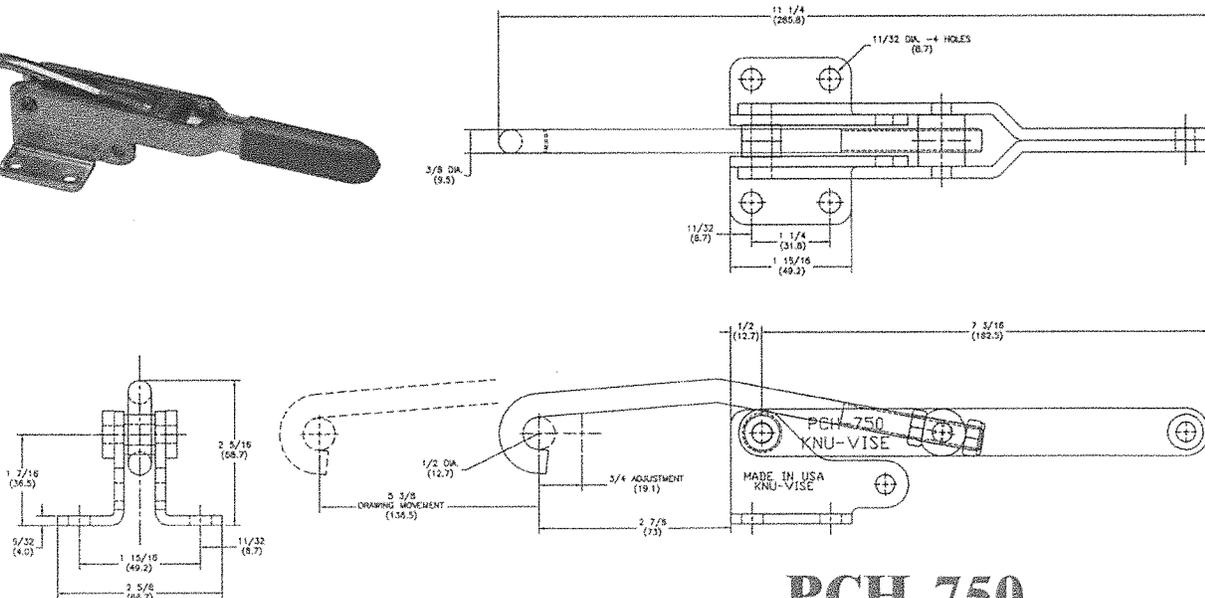
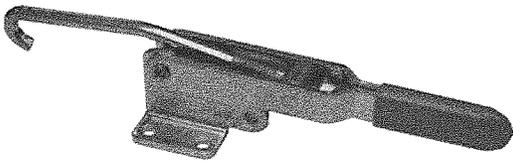
PCH-375

UPC No. 80499

Pull.....375 lbs/169 kg

Weight......576 lbs/.256 kg

Travel.....4.00"/101.6 mm



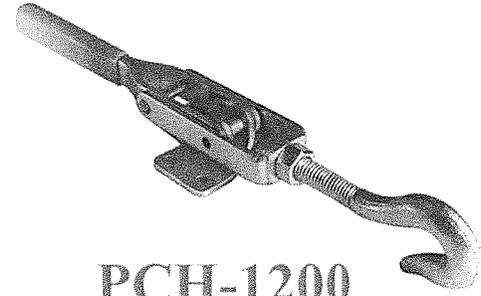
PCH-750

UPC No. 80500

Pull.....750 lbs/ 337 kg

Weight.....1.40 lbs/0.63 kg

Travel.....5 3/8"/136.5 mm

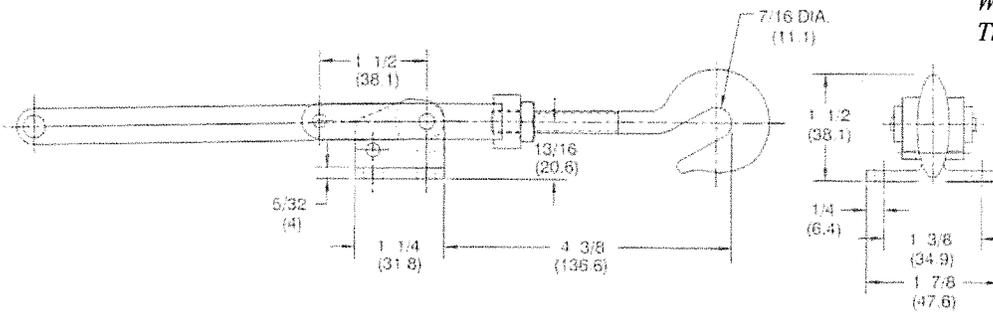
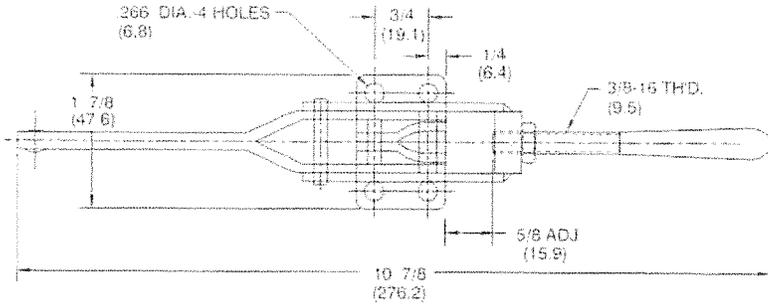


PCH-1200

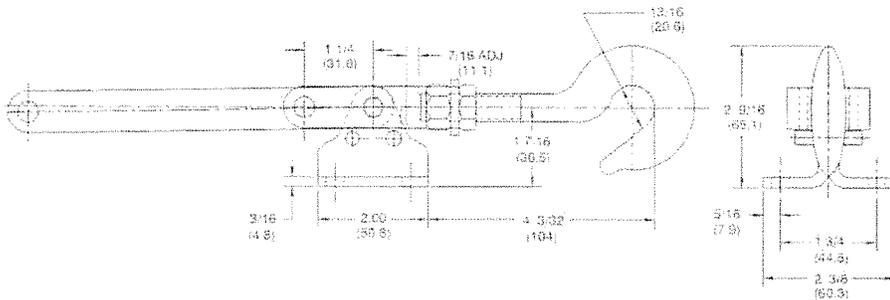
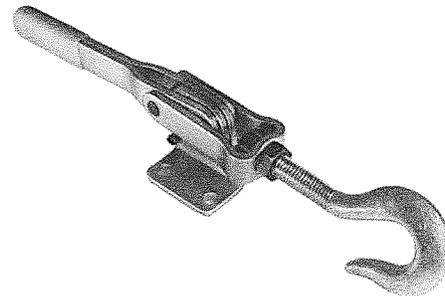
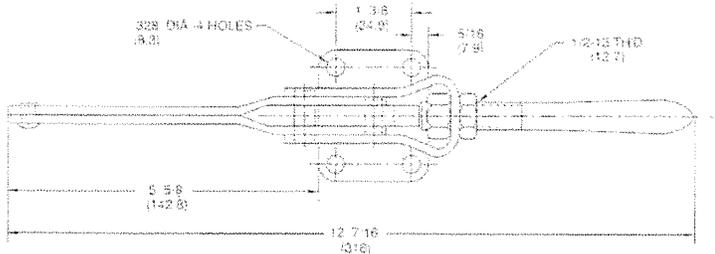
UPC No. 80512

Pull:

- At Hook Center*.....1200 lbs/540 kg
- At Hook End*.....600 lbs/270 kg
- Weight*.....0.58 lbs/0.26 kg
- Travel*.....3.00"/76.2 mm



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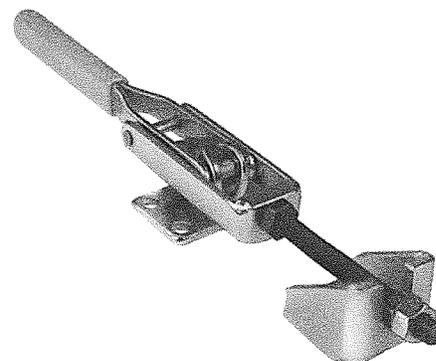
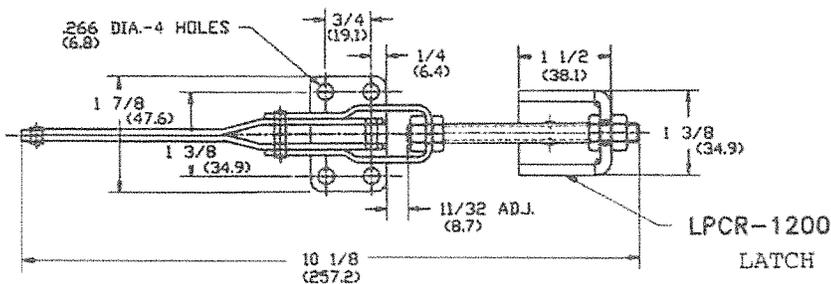


PCH-2000

UPC No. 80520

Pull:

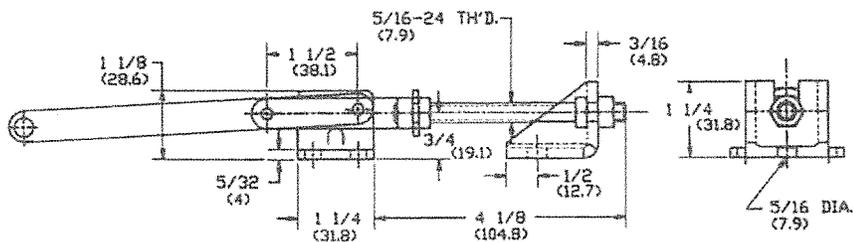
At Hook Center.....2000 lbs/900 kg
 At Hook End.....1000 lbs/450 kg
 Weight.....2.75 lbs/1.25 kg
 Travel.....2.50"/63.5 mm



LPCR-1200

UPC No. 80514

Pull.....1200 lbs/540 kg
 Weight.....0.59 lbs/0.39 kg
 Travel.....3.00"/76.2 mm
 Included.....Threaded Rod/
 Latch Optional



PCR-1200-S

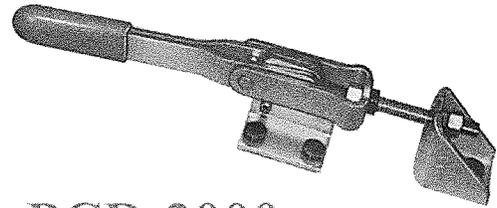
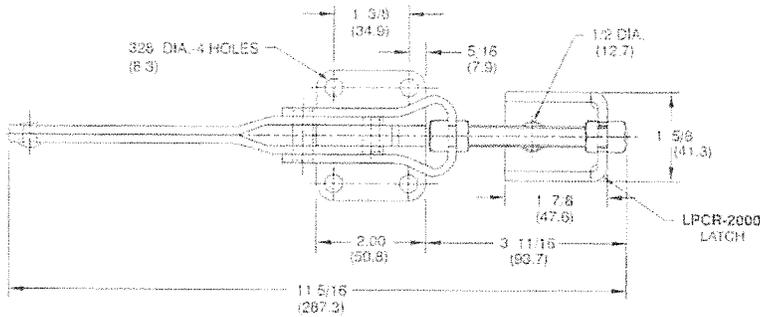
UPC No. 80515

Note: Safety Lock Feature

LPCR-1200

UPC No. 80081

Weight.....0.23 lbs/0.39 kg
 Note: Latch Only for Threaded Rod



PCR-2000

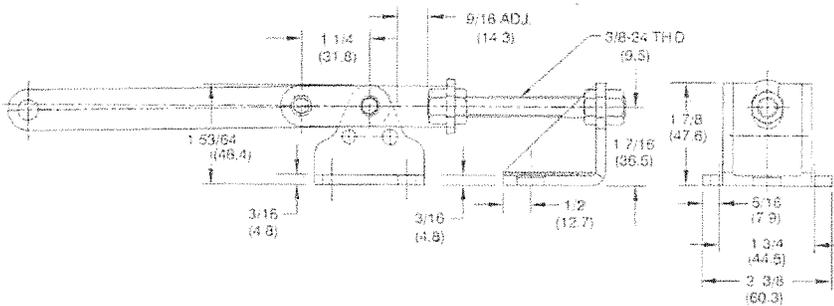
UPC No. 80522

Pull.....2000 lbs/900 kg

Weight.....1.50 lbs/0.68 kg

Travel.....2.50"/64.0 mm

Included.....Threaded Rod/
Latch Optional



PCR-2000-S

UPC No. 80523

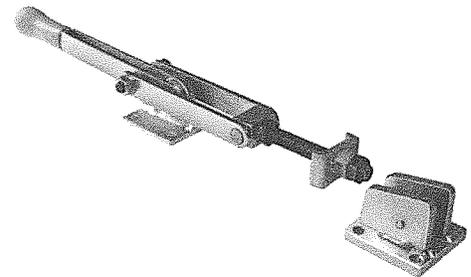
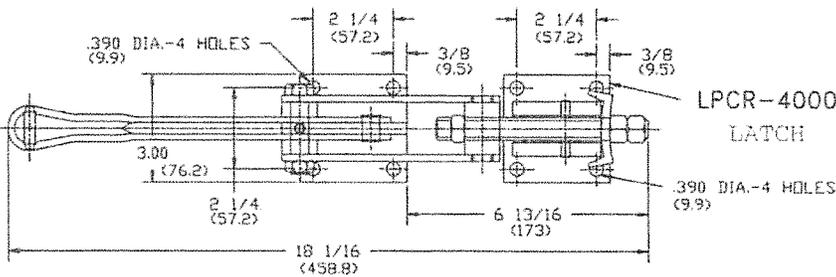
Note: Safety Lock Feature/Latch Optional

LPCR-2000

UPC No. 80083

Weight.....0.39 lbs/0.18 kg

Note: Latch Only for Threaded Rod



PCR-4000

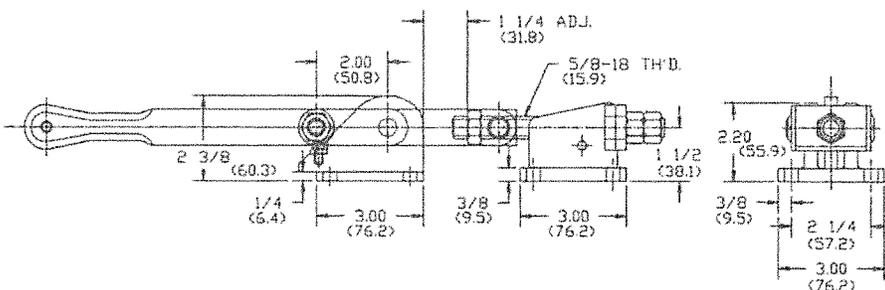
UPC No. 80544

Pull.....4000 lbs/1800 kg

Weight.....4.63 lbs/2.10 kg

Travel.....4.00"/102 mm

Note: Latch Optional



PCR-4000-S

UPC No. 80545

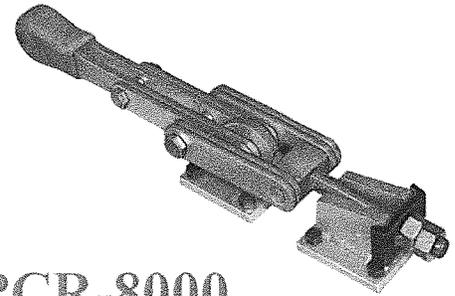
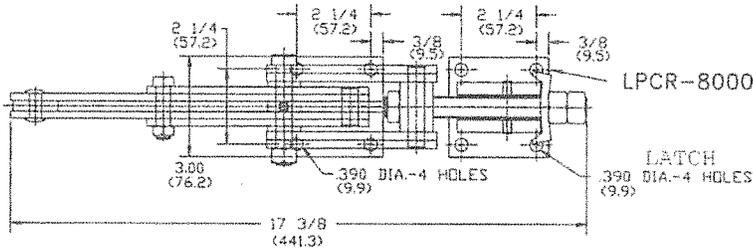
Note: Safety Lock Feature/Latch Optional

LPCR-4000

UPC No. 80085

Weight.....1.81 lbs/0.82 kg

Note: Latch Only for Threaded Rod



PCR-8000

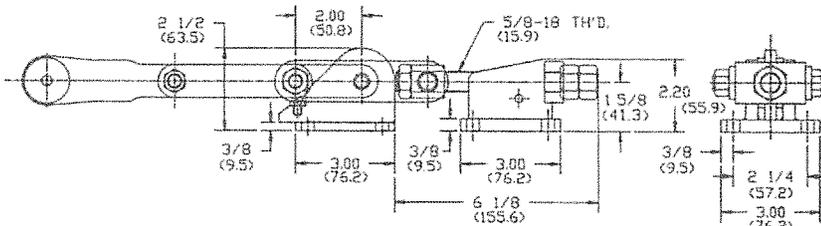
UPC No. 80548

Pull.....8000 lbs/3600 kg

Weight.....7.50 lbs/3.40 kg

Travel.....4.00"/102 mm

Note: Latch Optional



PCR-8000-S

UPC No. 80549

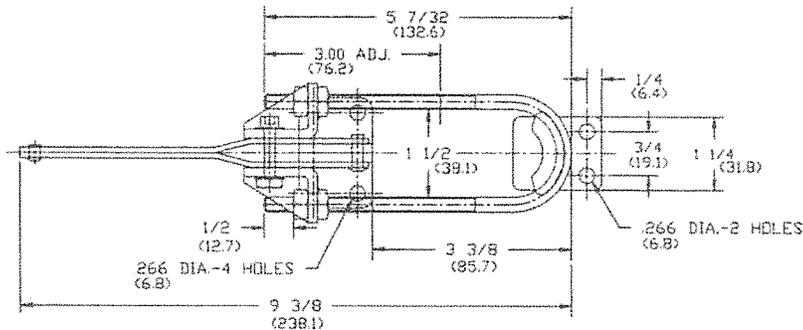
Note: Safety Lock Feature/Latch Optional

LPCR-8000

UPC No. 80086

Weight.....1.81 lbs/0.82 kg

Note: Latch Only for Threaded Rod



PCU-200

UPC No. 80550

Pull.....200 lbs/90 kg

Weight.....0.88 lbs/0.40 kg

Travel.....2-15/16"/75.0 mm

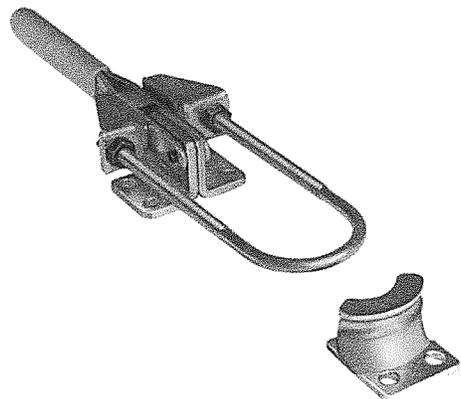
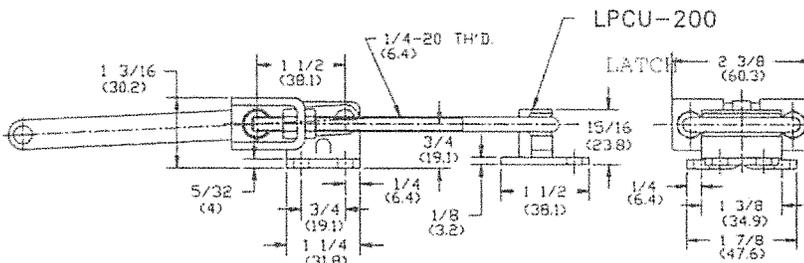
Note: Latch Included

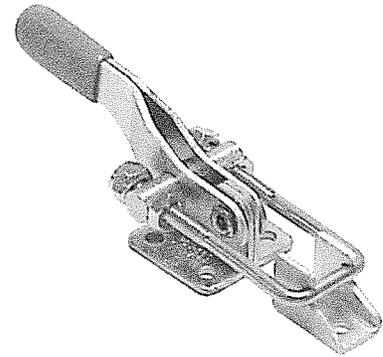
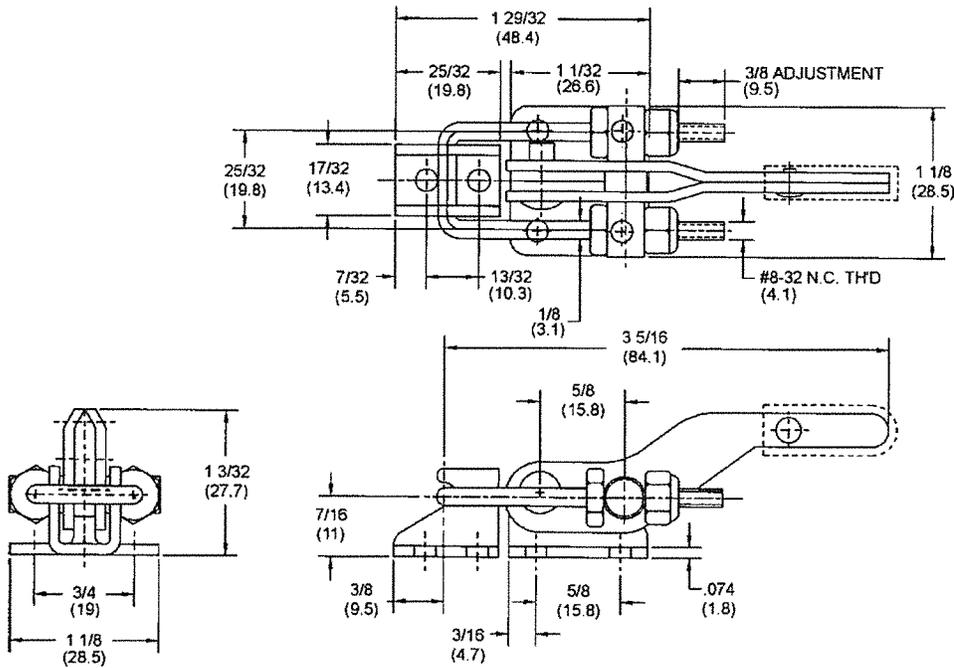
LPCU-200

UPC No. 80090

Weight.....0.19 lbs/0.086 kg

Note: Latch Only for "U" Bolt Style





PCU-360

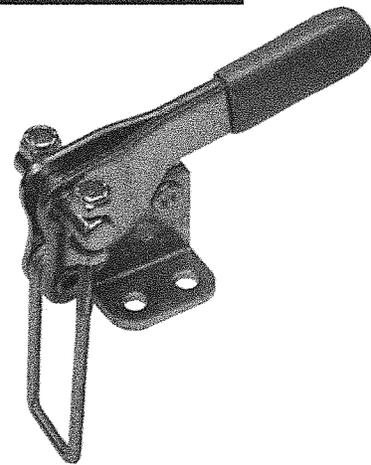
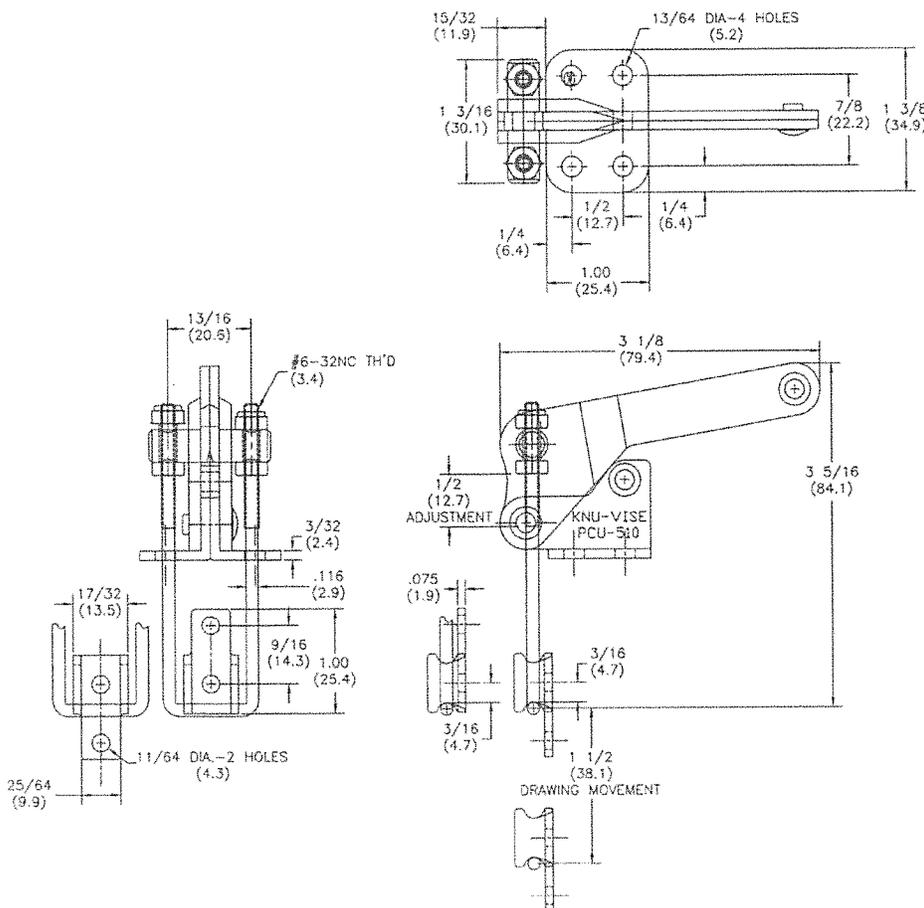
UPC No. 80565

Pull.....360 lbs/162 kg

Weight.....0.17 lbs/0.08 kg

Travel.....1.10"/27.9 mm

Note: Latch Included



PCU-510

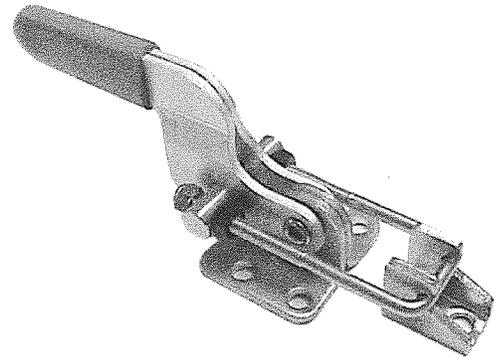
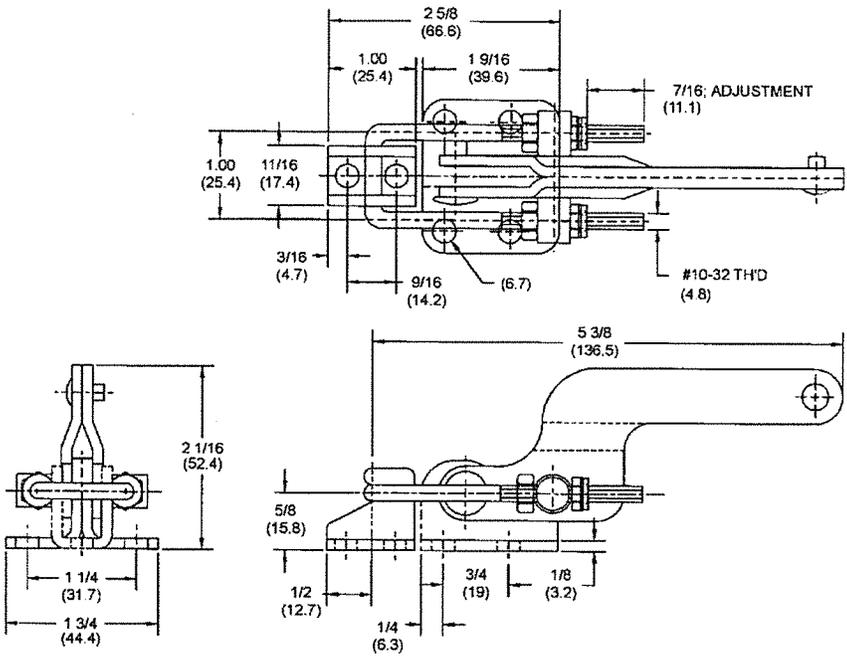
UPC No. 80555

Pull.....500 lbs/225 kg

Weight.....0.25 lbs/0.113 kg

Travel.....1.50"/38.1 mm

Note: Latch Included



PCU-700

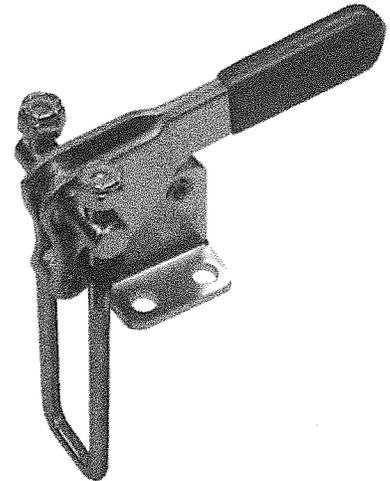
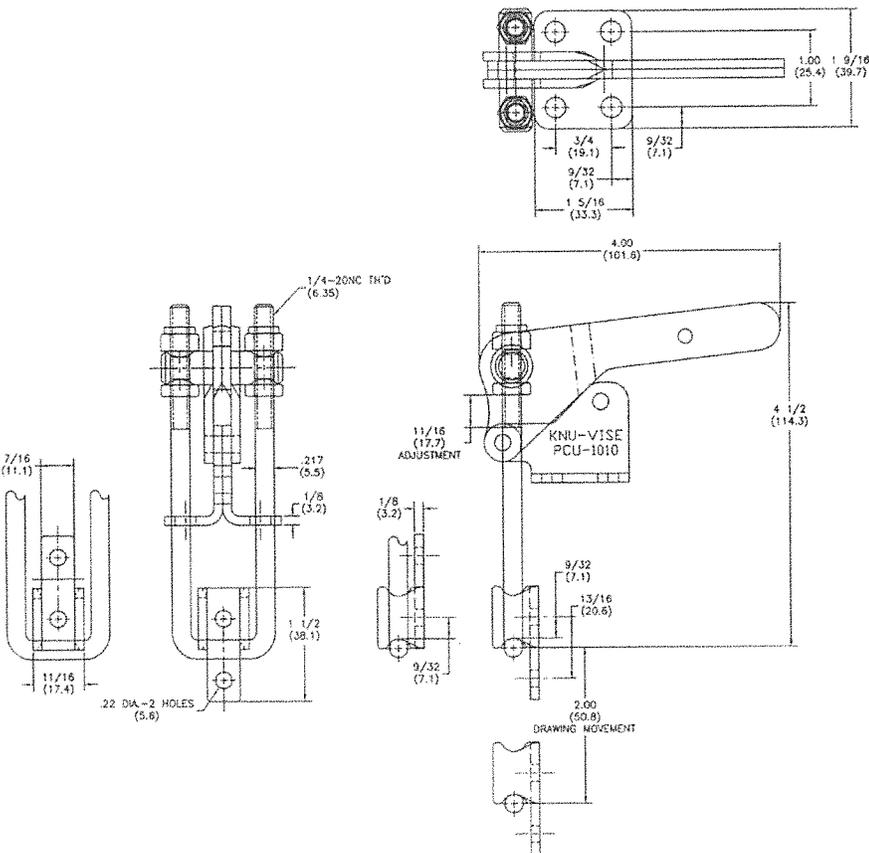
UPC No. 80566

Pull.....700 lbs/315 kg

Weight.....0.56 lbs/0.26 kg

Travel.....1-3/4"/44.4 mm

Note: Latch Included



PCU-1010

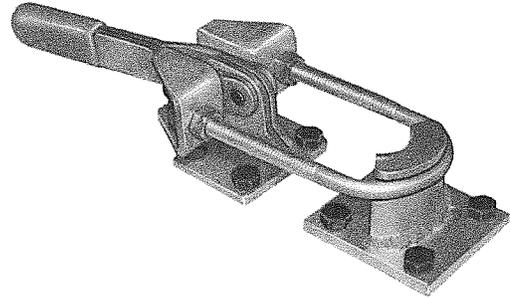
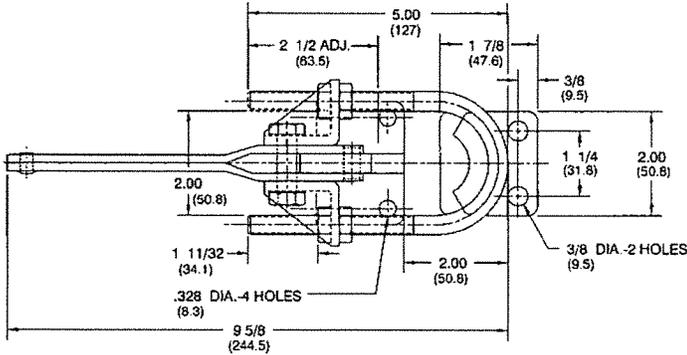
UPC No. 80556

Pull.....1000 lbs/450 kg

Weight.....0.60 lbs/0.272 kg

Travel.....2.00"/50.8 mm

Note: Latch Included



PCU-2000

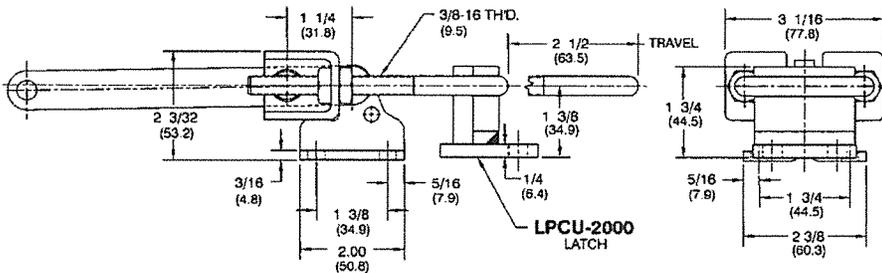
UPC No. 80552

Pull.....2000 lbs/900 kg

Weight.....1.94 lbs/0.88 kg

Travel.....2-1/4"/57 mm

Note: Latch Included

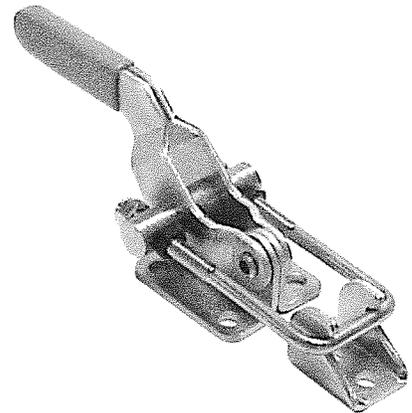
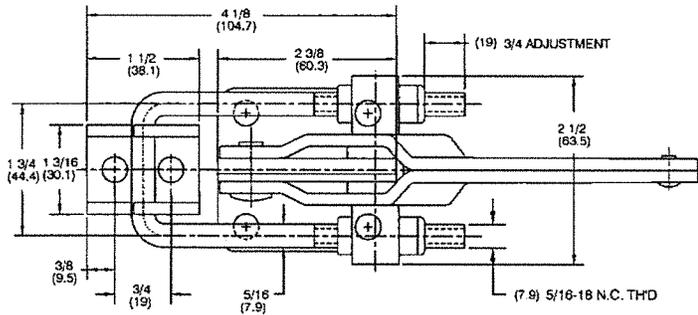


LPCU-2000

UPC No. 80094

Weight.....0.94 lbs/0.88 kg

Note: Latch Only for "U" Bolt Style



PCU-2001

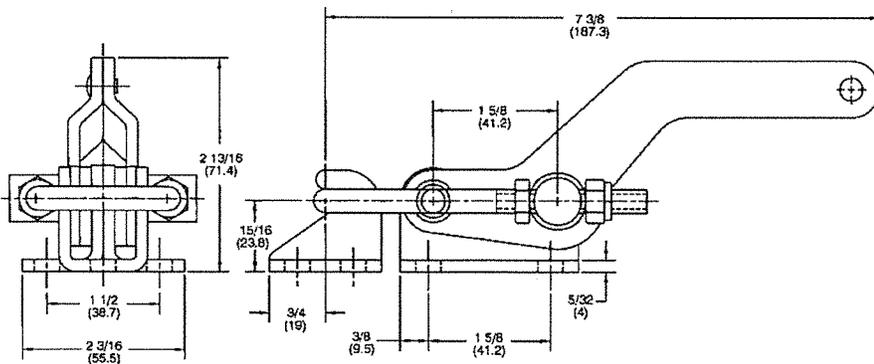
UPC No. 80567

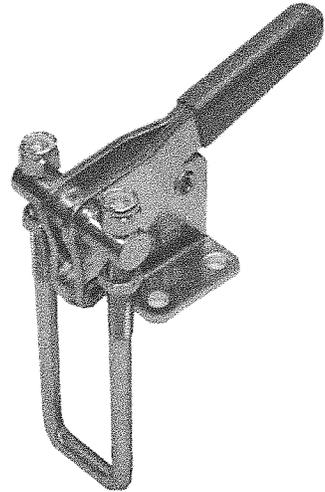
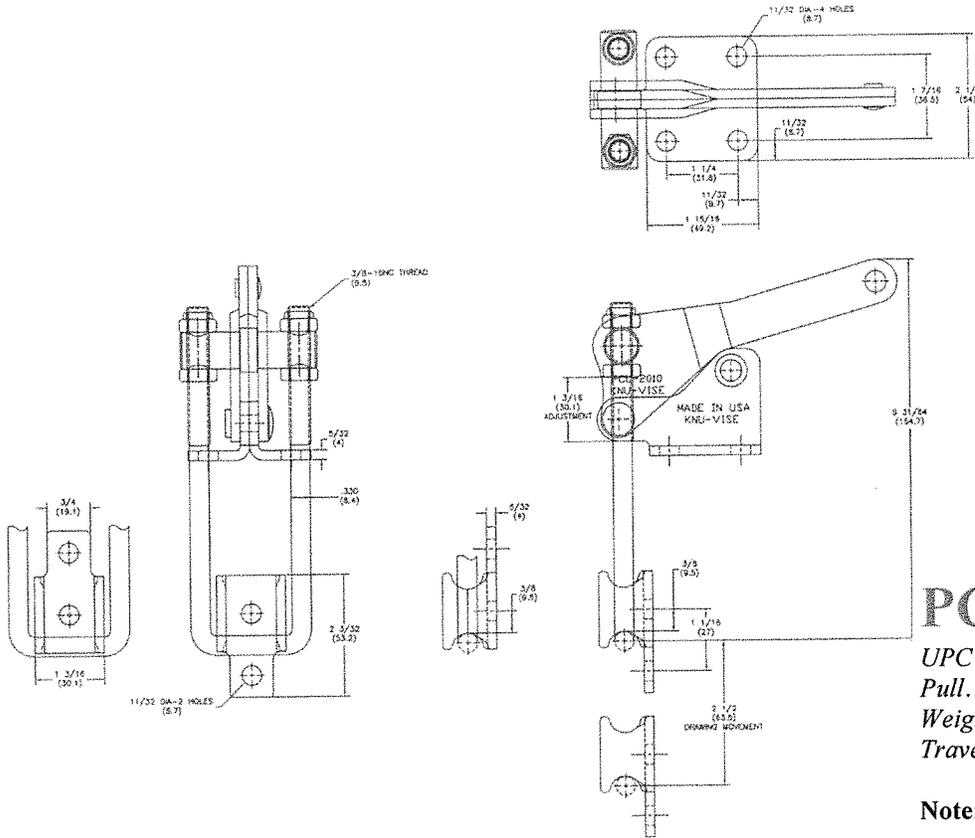
Pull.....2001 lbs/900 kg

Weight.....1.45 lbs/0.66 kg

Travel.....2-1/2"/63.5 mm

Note: Latch Included





PCU-2010

UPC No. 80557

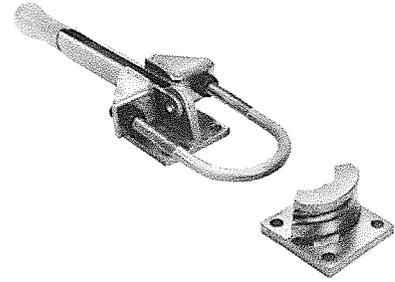
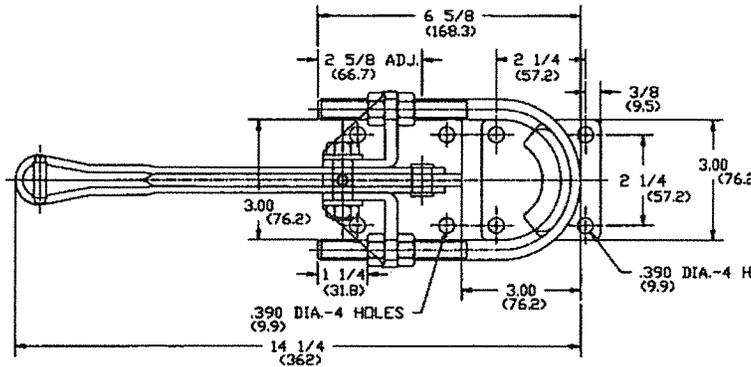
Pull.....2000 lbs/900 kg

Weight.....1.50 lbs/0.68 kg

Travel.....2-1/2"/63.5 mm

Note: Latch Included

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PCU-4000

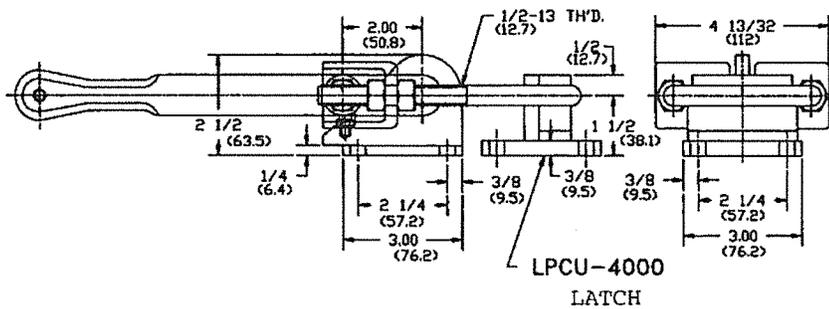
UPC No. 80554

Pull.....4000 lbs/1800 kg

Weight.....4.50 lbs/2.04 kg

Travel.....3-3/4"/95 mm

Note: Latch Optional

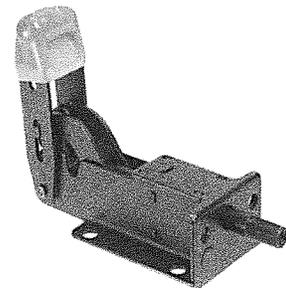
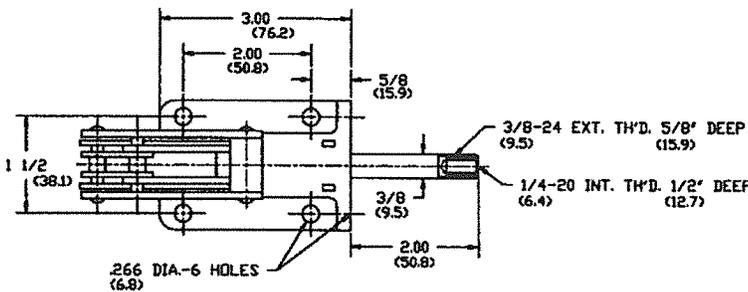


LPCU-4000

UPC No. 80096

Weight.....1.94 lbs/0.88 kg

Note: Latch Only for "U" Bolt Style



P&P-800

UPC No. 80508

During Entire

Travel.....800 lbs/360 kg

At Ends of

Travel.....1200 lbs/540 kg

Weight.....0.81 lbs/0.37 kg

Travel.....1.25"/31.8 mm

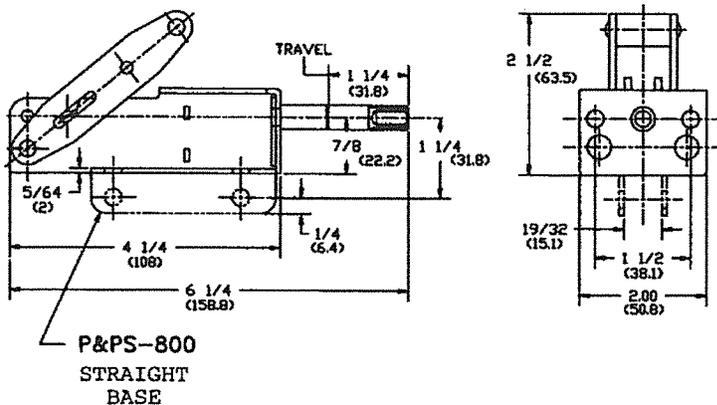
Spindle (Optional).....370004

Note: Clamps with only internal threads

in plunger—Add suffix *IT*

Clamps with only external threads

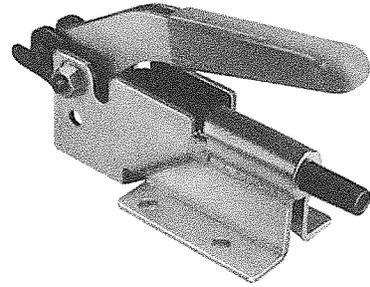
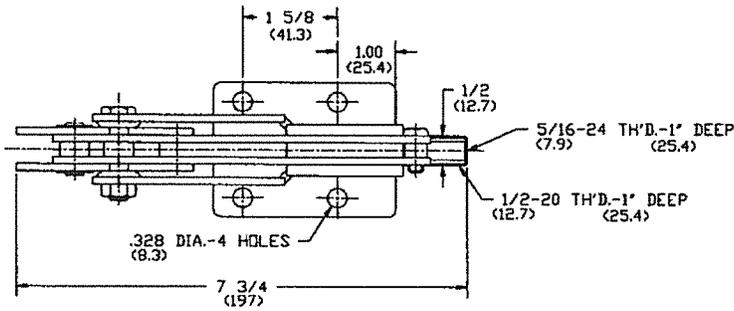
on plunger—Add suffix *ET*



P&PS-800

UPC No. 80509

Note: Straight Base Model



P&P-1600

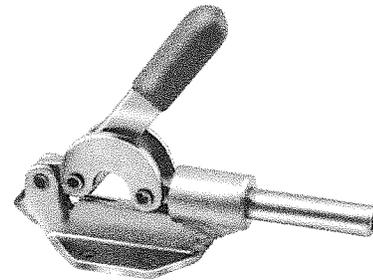
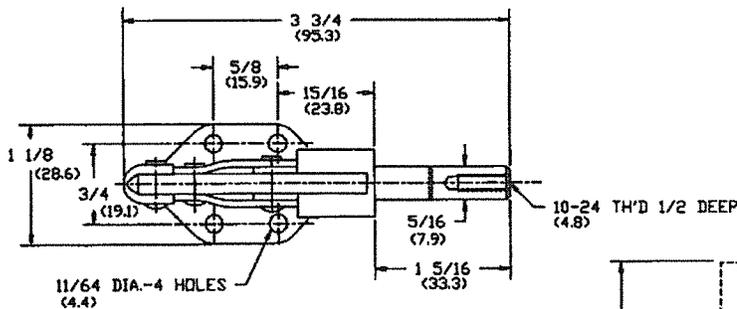
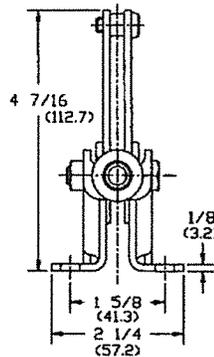
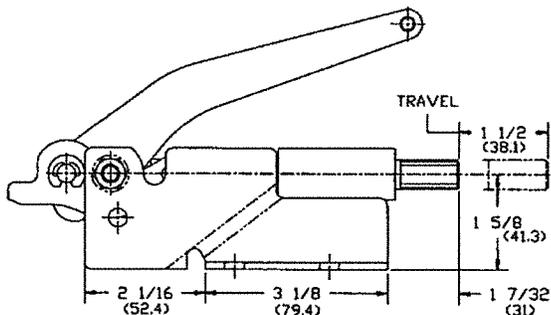
UPC No. 80543

Push & Pull.....1600 lbs/725 kg

Weight.....1.96 lbs/0.89 kg

Travel.....1-1/2"/38.1 mm

Spindle (Optional).....370202



PHL-250

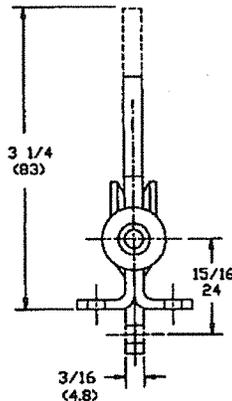
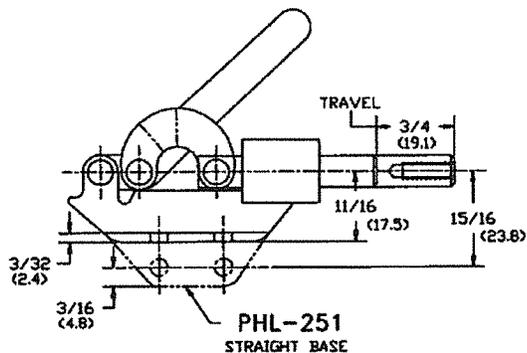
UPC No. 80532

Push & Pull.....250 lbs/113 kg

Weight.....0.38 lbs/0.17 kg

Travel.....0.75"/19 mm

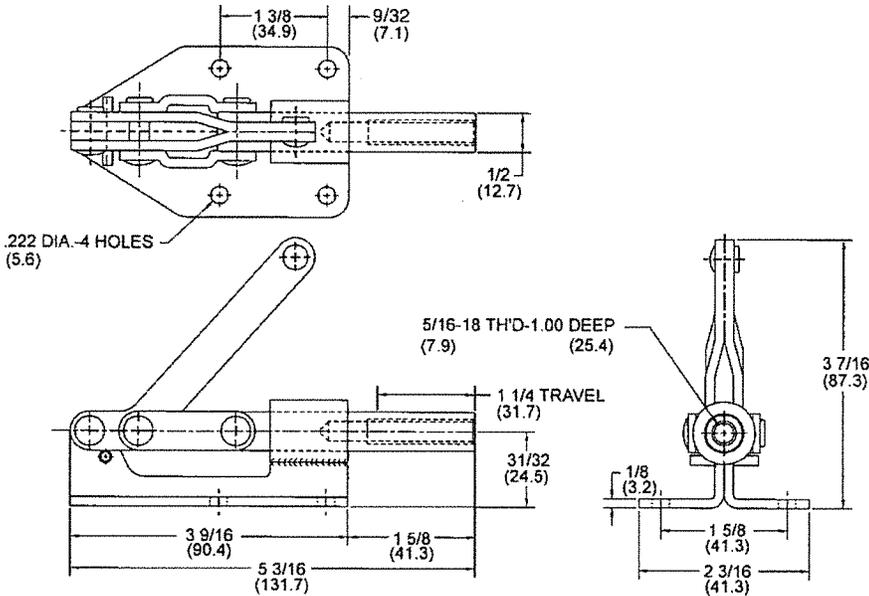
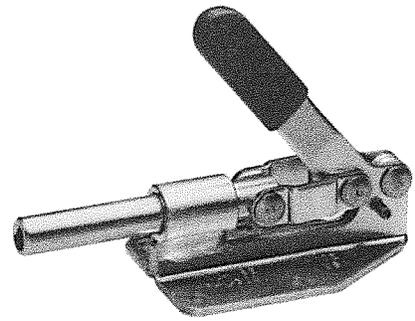
Spindle (Optional).....370201



PHL-251

UPC No. 80537

Note: Straight Base Model



PHL-300

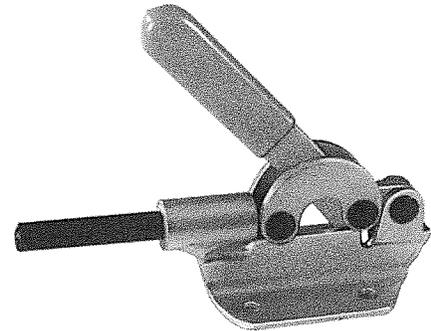
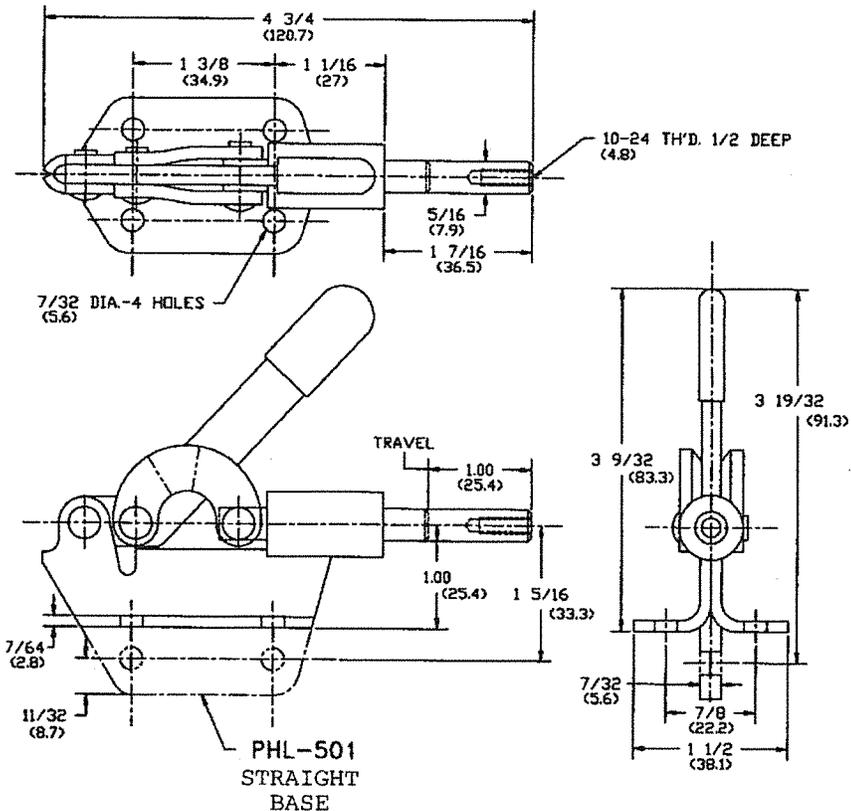
UPC No. 80570

Push & Pull.....300 lbs/135 kg

Weight.....0.79 lbs/0.35 kg

Travel.....1-1/4"/32 mm

Spindle (Optional).....370202



PHL-500

UPC No. 80535

Push & Pull.....500 lbs/225 kg

Weight.....0.63 lbs/0.28 kg

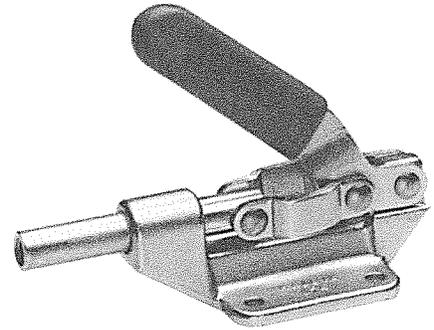
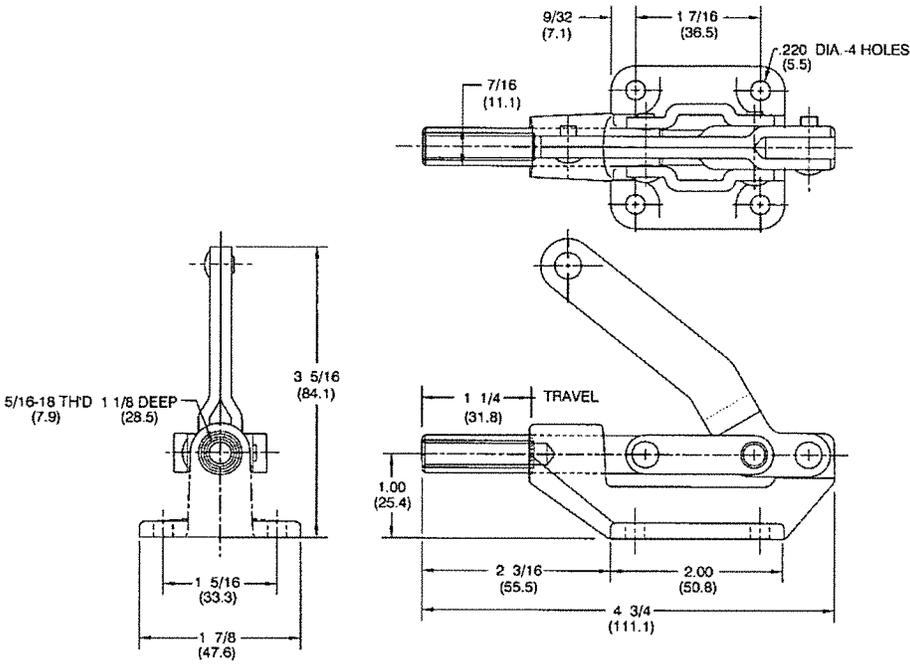
Travel.....1.00"/25.4 mm

Spindle (Optional).....370201

PHL-501

UPC No. 80538

Note: Straight Base Model



PHL-600

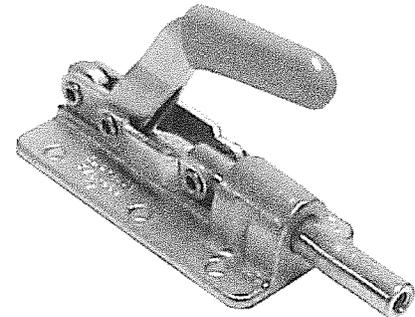
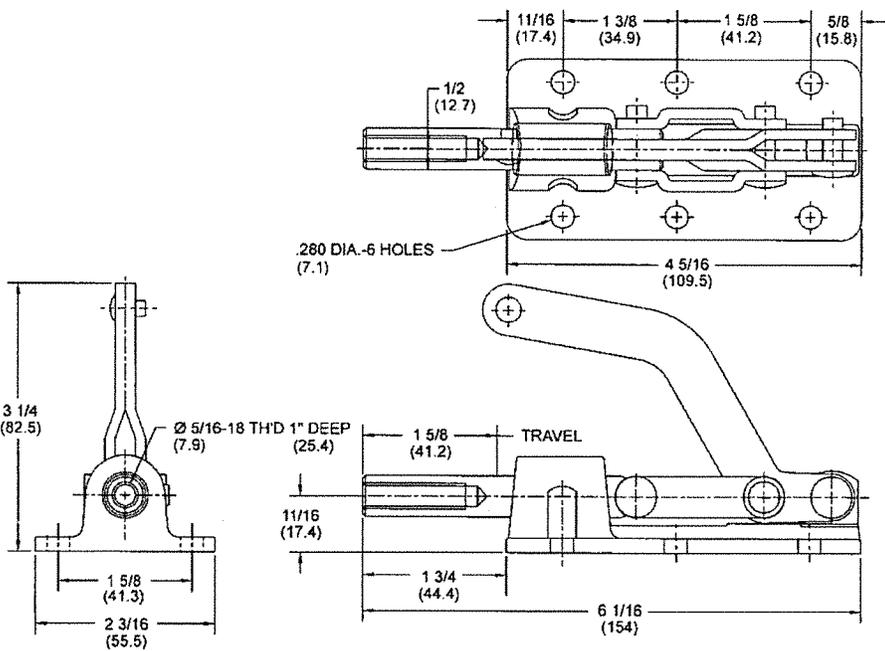
UPC No. 80513

Push & Pull.....600 lbs/270 kg

Weight.....0.78 lbs/0.35 kg

Travel.....1-1/4"/35 mm

Spindle (Optional).....370202



PHL-800

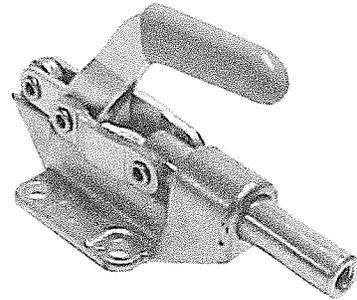
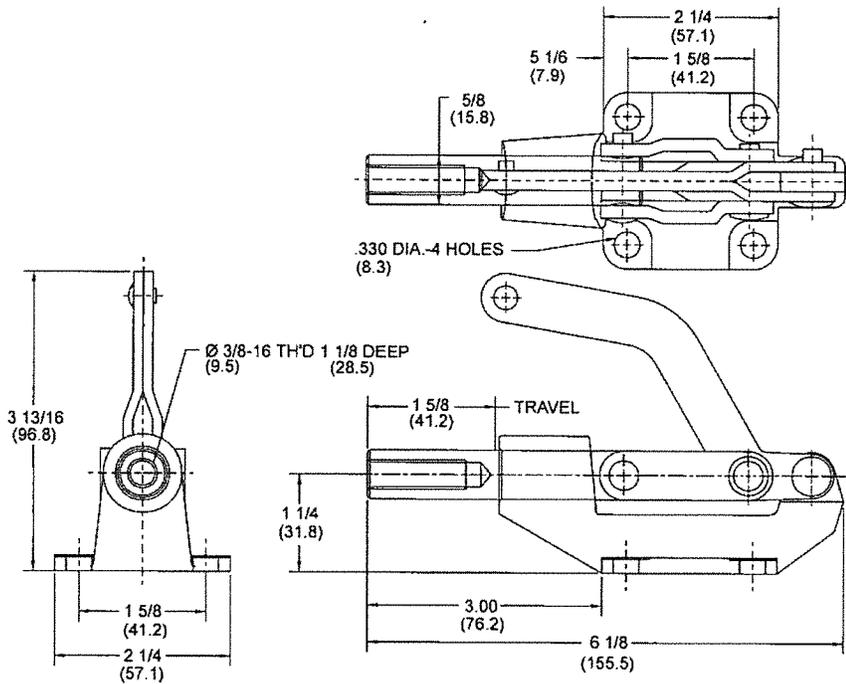
UPC No. 80572

Push & Pull.....800 lbs/360 kg

Weight.....1.28 lbs/0.57 kg

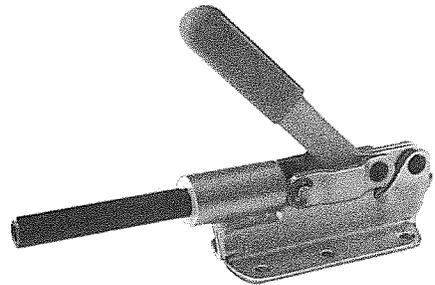
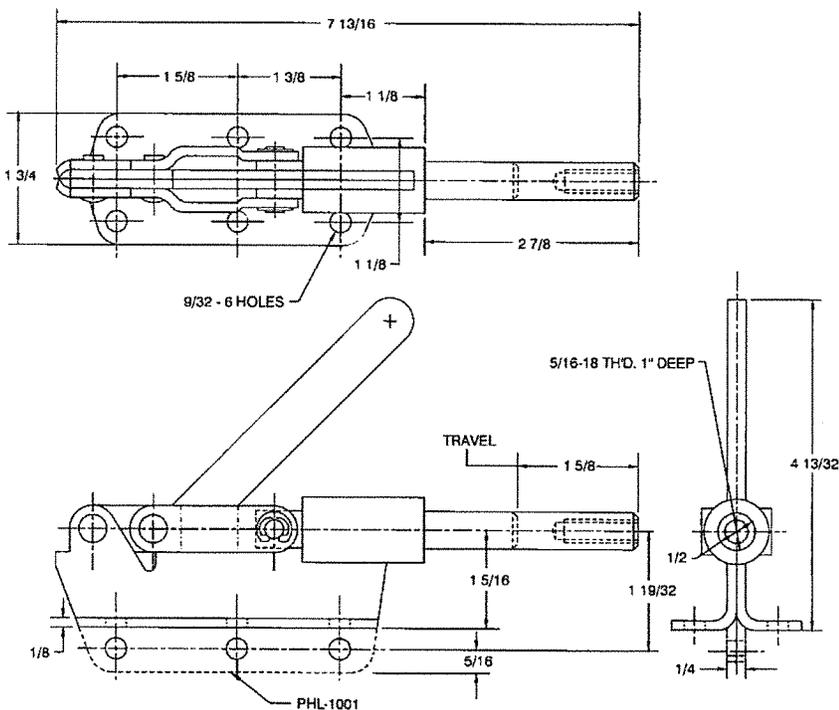
Travel.....1-5/8"/41.3 mm

Spindle (Optional).....370202



PHL-850

UPC No. 80573
 Push & Pull.....850 lbs/382.5 kg
 Weight.....1.56 lbs/0.71 kg
 Travel.....1-5/8"/41.3 mm
 Spindle (Optional).....370250

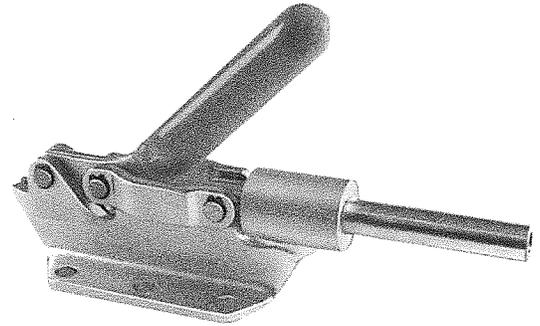
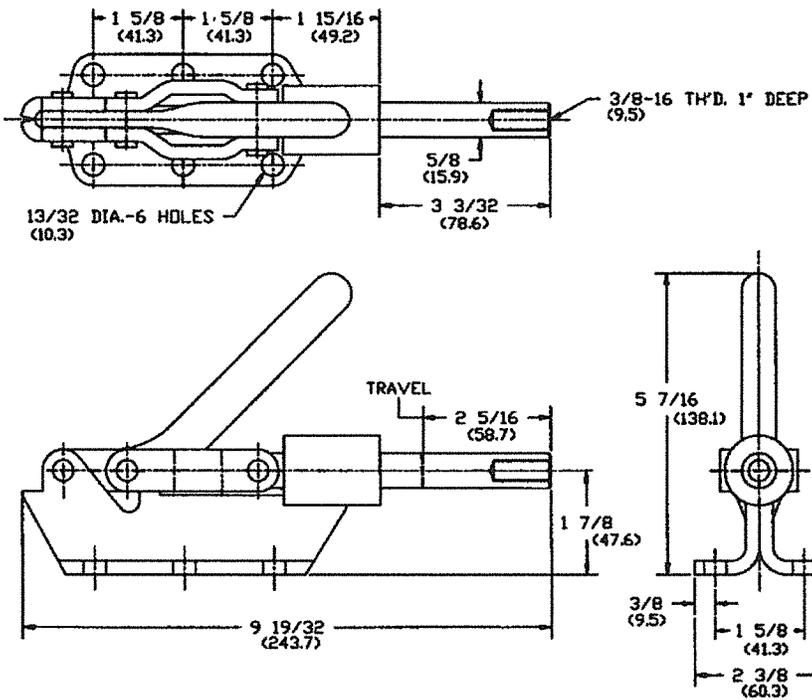


PHL-1000

UPC No. 80540
 Push & Pull.....1000 lbs/450 kg
 Weight.....1.87 lbs/0.84 kg
 Travel.....1-5/8"/41.3 mm
 Spindle (Optional).....370202

PHL-1001

UPC No. 80542
 Note: Straight Base Model

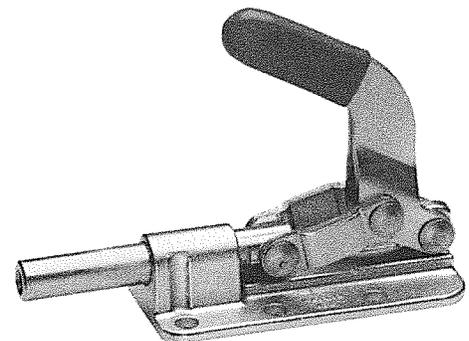
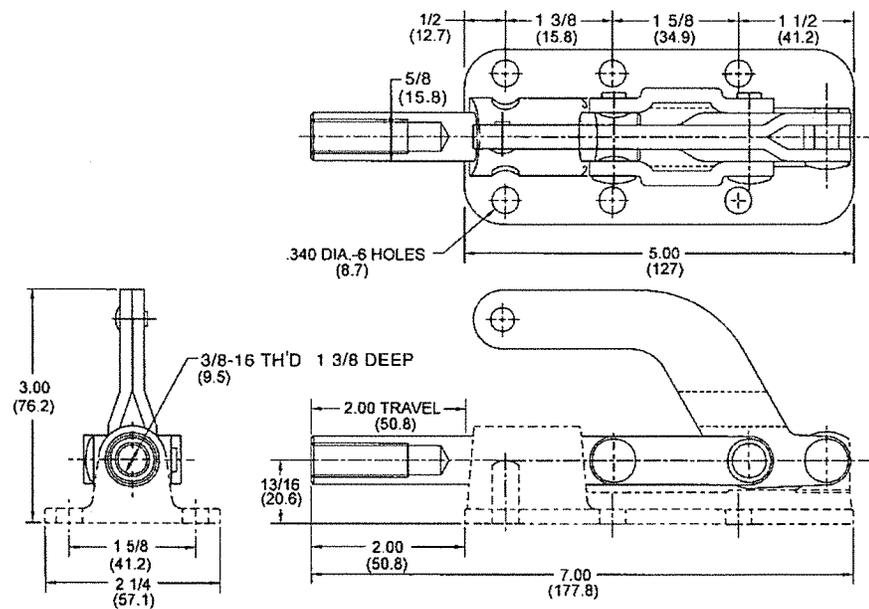


PHL-2500

UPC No. 80560
 Push & Pull.....2500 lbs/1130 kg
 Weight.....3.90 lbs/1.50 kg
 Travel.....2-5/16"/59 mm
 Spindle (Optional).....370250

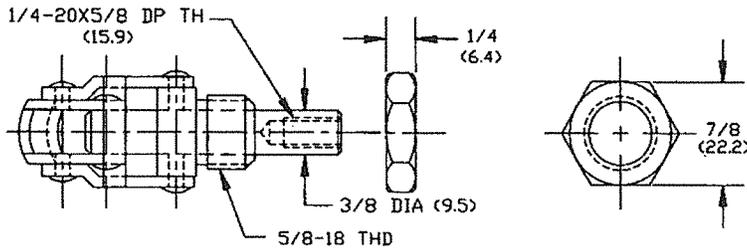
PHL-2500-S

UPC No. 80562
 Note: Safety Lock Feature



PHL-2501

UPC No. 80574
 Push & Pull.....2500 lbs/1125 kg
 Weight.....1.90 lbs/0.86 kg
 Travel.....2.00"/50.8 mm
 Spindle (Optional).....370250



PHL-253

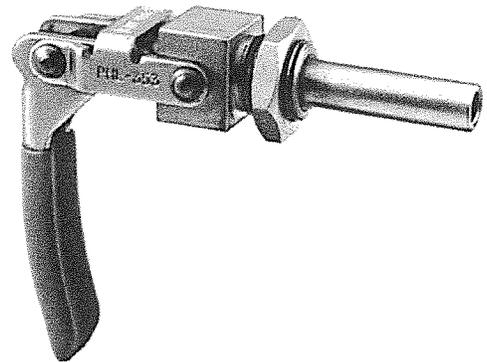
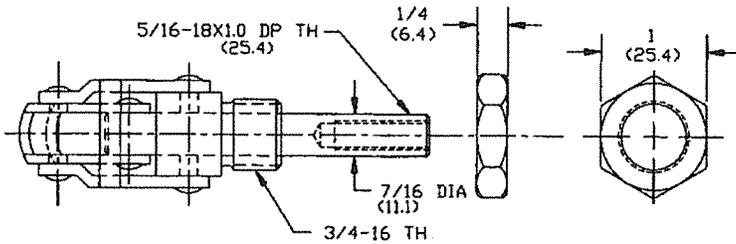
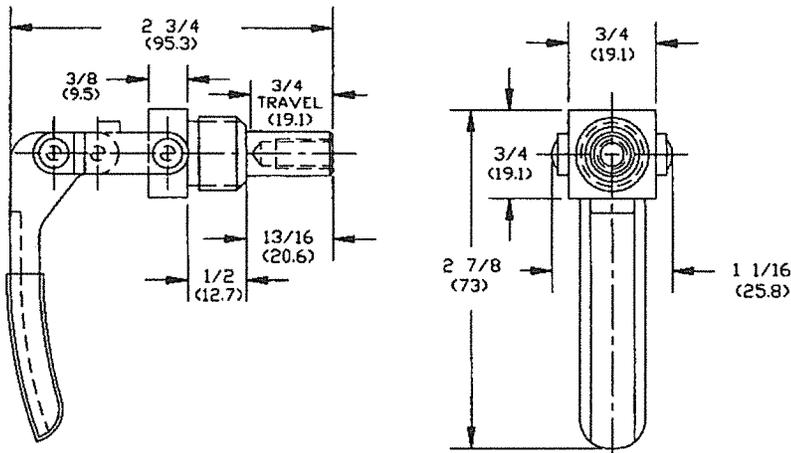
UPC No. 80533

Push & Pull.....250 lbs/113 kg

Travel.....3/4"/19 mm

Spindle (Optional).....370004

Note: Locators fully retract. Locks in both extended and retracted positions. Wider handle with clearance for fingers.



PHL-353

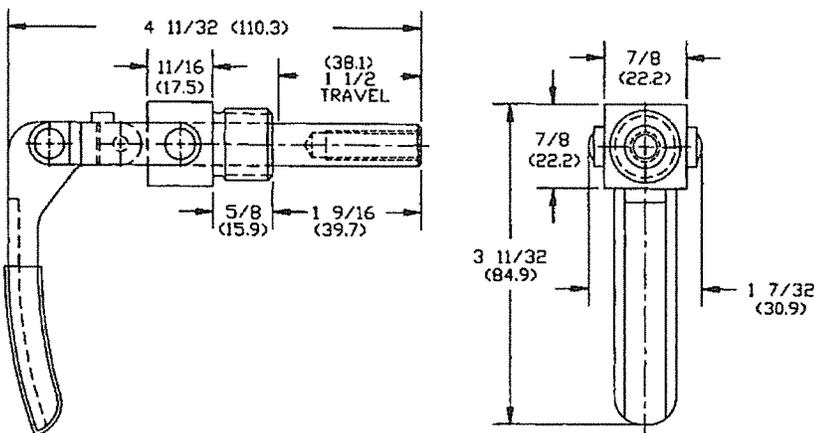
UPC No. 80536

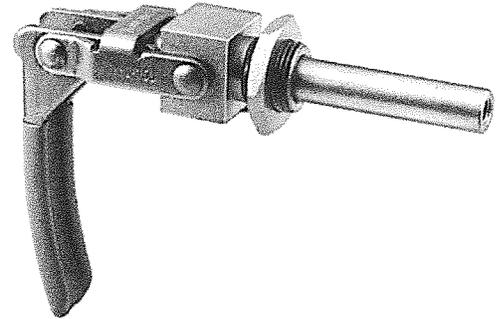
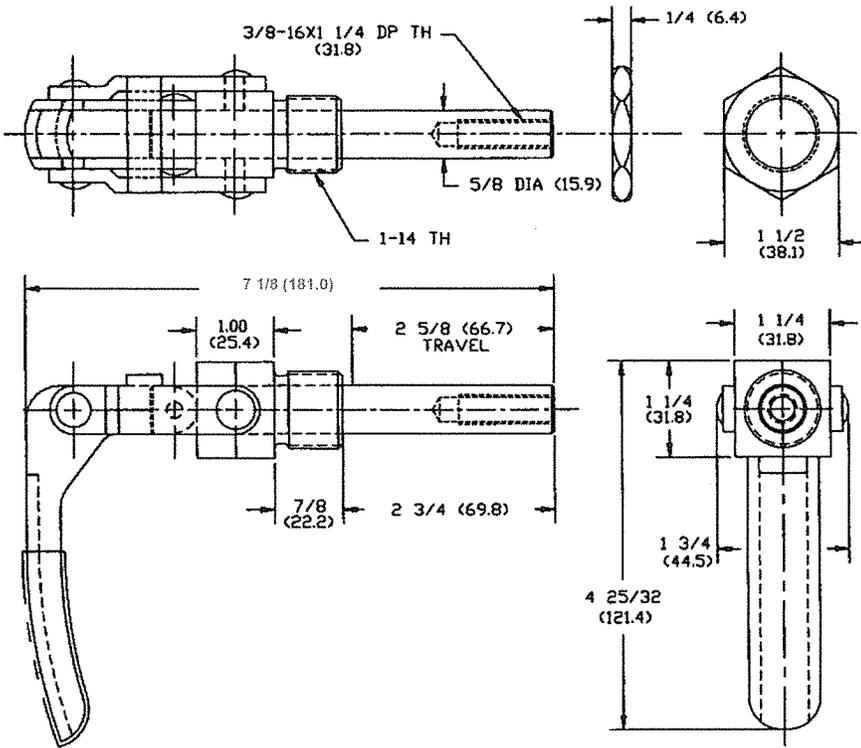
Push & Pull.....350 lbs/158 kg

Travel.....1-1/2"/38.1 mm

Spindle (Optional).....370202

Note: Locators fully retract. Locks in both extended and retracted positions. Wider handle with clearance for fingers.





PHL-753

UPC No. 80541

Push & Pull.....750 lbs/340 kg

Travel.....2-5/8"/66.7 mm

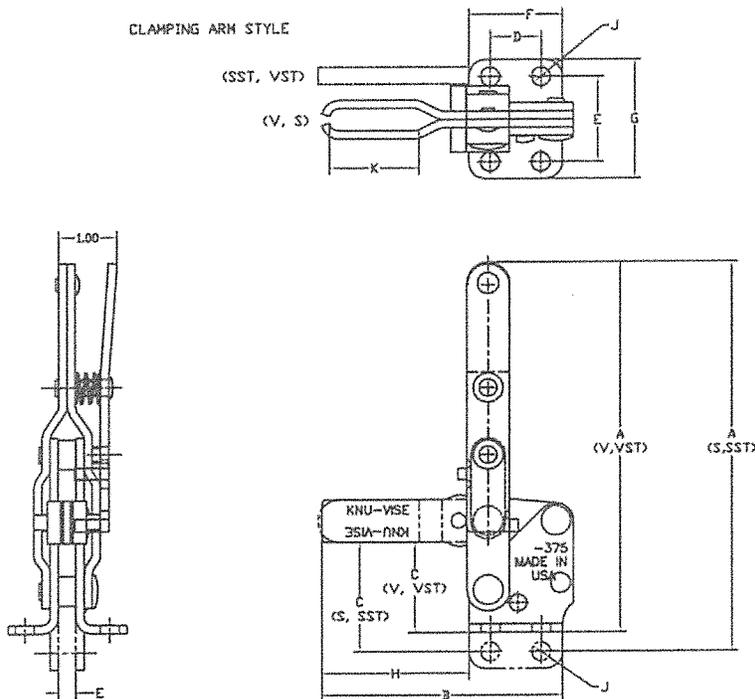
Spindle (Optional).....370250

Note: Locators fully retract. Locks in both extended and retracted positions. Wider handle with clearance for fingers.

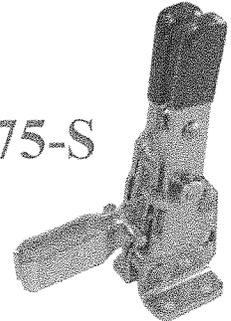
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POSITIVE LOCKING CLAMPS

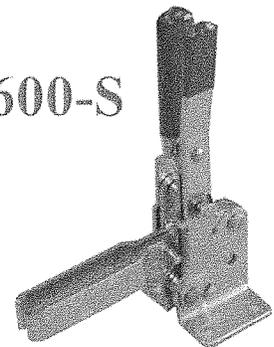
Clamps featuring our Posi-loc option require the clamp operator to activate a release lever before the clamp's primary over-the-center locking mechanism can be released. This prevents the unintended opening of the clamp under extreme conditions or by accident. Most models lock in both the open and closed positions which makes them ideal for applications where the clamp must not only remain closed, but where the accidental closing of the clamp must be avoided once opened.



V-375-S

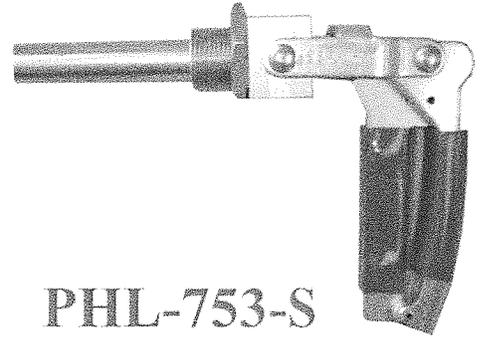
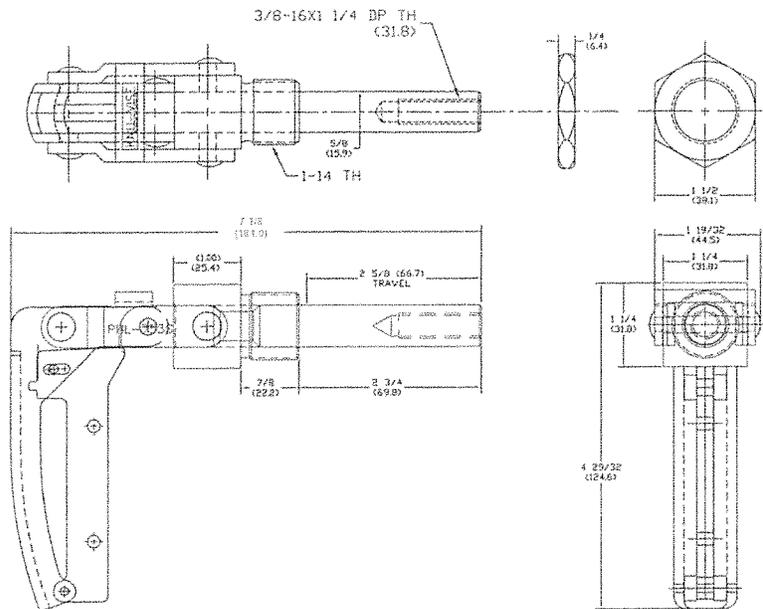


V-600-S



Note: Locks in both extended and retracted positions.

Model No.	UPC NO.	HOLDING CAPACITY	WEIGHT	HANDLE MOVES	BAR OPENS	DIMENSIONS									
						A	B	C	D	E	F	G	H	J	K
V-375-S	80118	375 lbs	0.715 lbs	68 deg.	119 deg.	5.50	3.70	1.34	0.750	1.25	1.38	1.75	2.16	0.280	1.31
S-375-S	80119	375 lbs	0.720 lbs	68 deg.	119 deg.	5.75	3.70	1.62	0.750	0.250	1.38	-	2.16	0.280	1.31
SST-375-S	80121	475 lbs	0.650 lbs	68 deg.	119 deg.	5.75	3.76	1.62	0.750	0.250	1.38	-	2.22	0.280	-
VST-375-S	80122	475 lbs	0.630 lbs	68 deg.	119 deg.	5.50	3.76	1.34	0.750	1.25	1.38	1.75	2.22	0.280	-
V-600-S	80123	600 lbs	1.115 lbs	57 deg.	106 deg.	7.44	5.53	1.69	1.25	1.75	1.88	2.5	3.66	0.330	2.56
S-600-S	80124	600 lbs	1.115 lbs	57 deg.	106 deg.	7.94	5.53	2.16	1.25	0.312	1.88	-	3.66	0.330	2.56
SST-600-S	80125	700 lbs	1.095 lbs	57 deg.	106 deg.	7.94	5.47	2.16	1.25	0.312	1.88	-	3.59	0.330	-
VST-600-S	80126	700 lbs	1.095 lbs	57 deg.	106 deg.	7.44	5.47	1.69	1.25	1.75	1.88	2.5	3.59	0.330	-



PHL-753-S

UPC No. 80539

Push & Pull.....750 lbs/340 kg

Travel.....2-5/8"/66.7 mm

Spindle (Optional).....370250

Note:

Locators fully retract. Locks in extended position only.

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PLIERS & "C" CLAMPS

PLIERS

These tools offer excellent workholding capacity because they are portable, adaptable to many applications, and highly versatile. Knu-Vise pliers are virtually indestructible. Our satisfied customers will support this claim. This is a popular clamp in the aircraft, ship-building and steel fabrication industries. A wide range of Knu-Vise plier configurations are readily available.

Features:

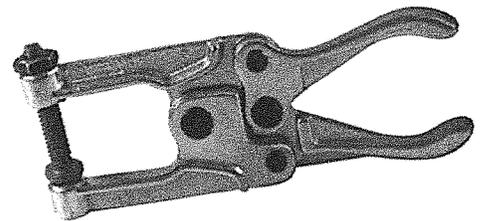
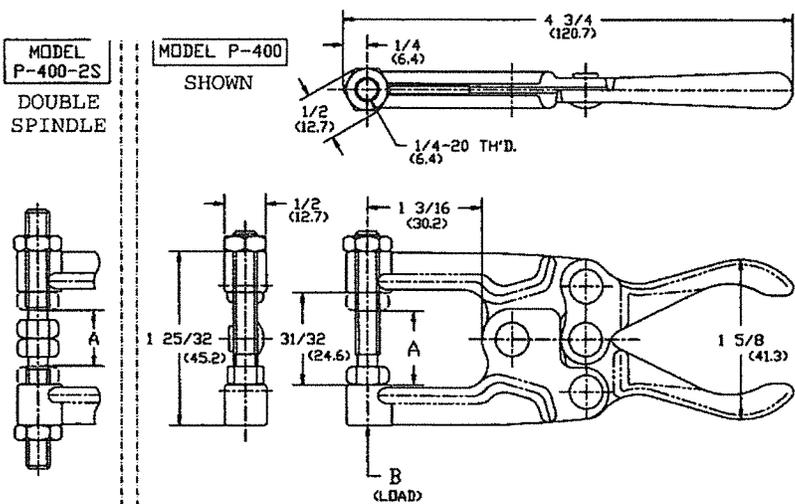
- ◆ Longer handles for better leverage on P-1600 and P-2400 models.
- ◆ Extended pliers on P-1200 series for increase throat depth applications.
- ◆ FGP series offers self adjusting plier option to automatically compensate for variation in workpiece thickness.
- ◆ Double spindle pliers available with or without rubber caps on 400 series.
- ◆ HLP(hole locating toggle pliers) series also available. When ordering HLP series, you must specify:
 - Diameter of pin on spindle
 - Diameter of pin on anvil, or whether anvil is to have hole to receive spindle pin.
 - Thickness of each individual part to be clamped together, and overall thickness of combined parts to be clamped.
- ◆ Lever unlocking feature optional on most models.

"C" CLAMPS

Our largest portable clamp. This line offers toggle action advantage over other manufacturers' regular "C" clamps because each Knu-Vise "C" clamp locks and has quick release. Each "C" clamp offers up to a 2400 lb. load at spindle. The "C" clamp enjoys wide-spread use in the railroad industry.

Features:

- ◆ Load ratings from 1200-2400 lbs.
- ◆ Carbon steel forgings and case hardened parts.
- ◆ Long and short spindles and double spindles available on 2400 series.
- ◆ Long spindles and double spindles available on 1200 series.
- ◆ Double spindles available on CA-2400.
- ◆ Anvil standard on C-1200 series.
- ◆ Throat depth and height can be extended.
- ◆ Adjustable clamp jaw, from 0"-24", available on CA series.
- ◆ Swivel feet optional.
- ◆ Hardened rivets.

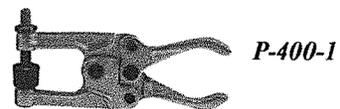


P-400 SHOWN

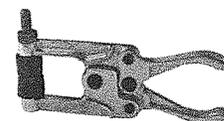
UPC No. 80600

Holding Capacity.....400 lbs/180 kg
 Maximum Clamping
 Thickness.....23/32"/18.3 mm
 Weight.....0.30 lbs/0.14 kg
 Included.....Spindle Assembly
 (370001)

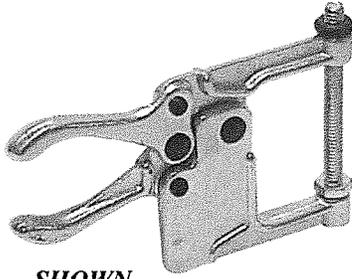
MODEL/ UPC	MAX CLAMP THICK. A	RECOMMENDED LOAD B (lbs)	SPINDLE ASSEMBLY	SPINDLE CAP
P-400 80600	23/32" 18 mm	400 lbs 180 kg	370001	—
P-400-2S 80606	19/32" 15 mm		370004 (2) (double spindle)	
P-400-1 80602	9/16" 14 mm	100 lbs 45 kg	370001	170003
P-400-2S-1 80607	7/16" 11 mm		370004 (2) (double spindle)	
P-400-2 80604	5/16" 8 mm		370004	
P-400-2S-2 80609	3/16" 4.8 mm		370004 (2) (double spindle)	



P-400-1



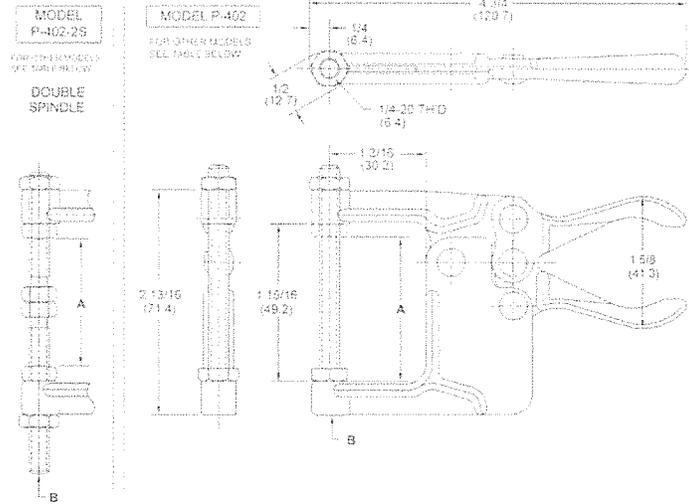
P-400-2



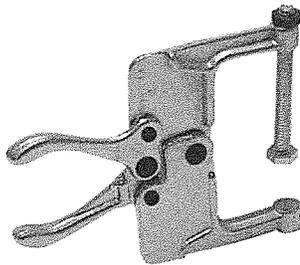
P-402 SHOWN

UPC No. 80610

Holding Capacity.....400 lbs/180 kg
 Maximum Clamping
 Thickness.....1-3/4"/44.5 mm
 Weight.....0.36 lbs/0.16 kg
 Included.....Spindle Assembly
 (370118)



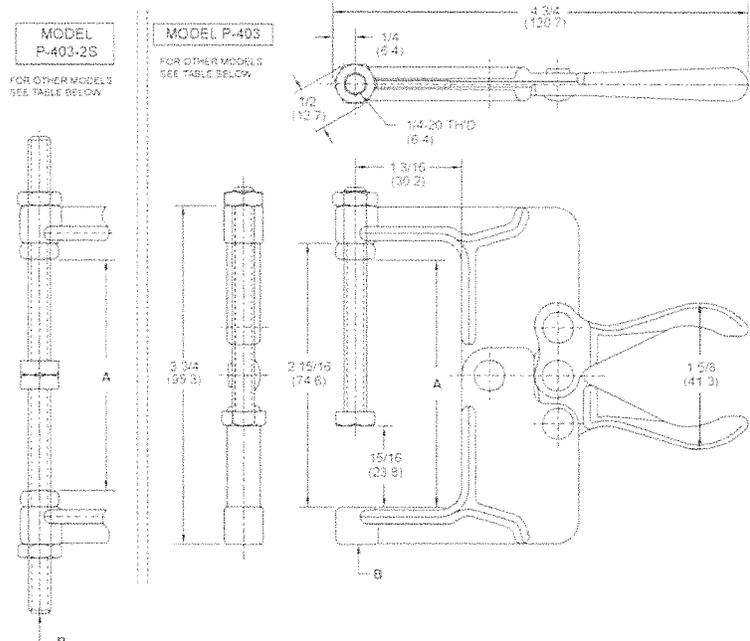
MODEL/ UPC	MAX. CLAMP THICK. A	LOAD B	WEIGHT C	SPINDLE ASSEMBLY	SPINDLE CAP
P-402 80610	1 3/4" 45.5 mm	400 lbs 180 kg	0.36 lbs 0.16 kg	370118	—
P-402-1 80612	1 1/2" 38.1 mm	100 lbs 45 kg	0.36 lbs 0.16 kg		170003
P-402-2S 80616	1 1/2" 38.1 mm	400 lbs 180 kg	0.38 lbs 0.17 kg	370118 (2) (Double Spindle)	—
P-402-2S-2 80617	1 1/8" 28.6 mm	100 lbs 45 kg	0.39 lbs 0.18 kg		170003



P-403 SHOWN

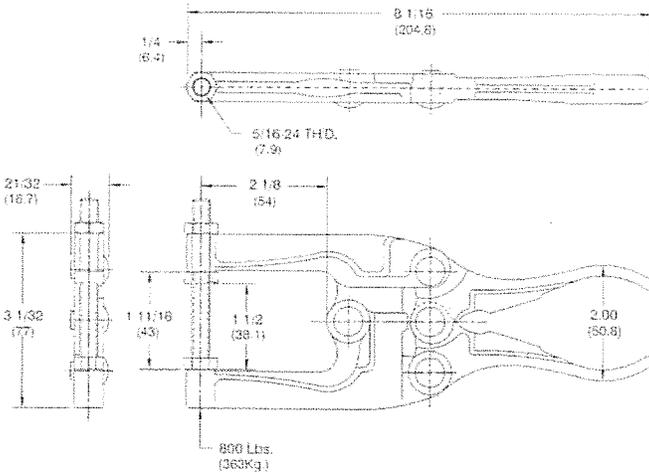
UPC No. 80620

Holding Capacity.....400 lbs/180 kg
 Maximum Clamping
 Thickness.....2-3/4"/69.9 mm
 Weight.....0.42 lbs/0.19 kg
 Included.....Spindle Assembly
 (370118)



MODEL/ UPC	MAX. CLAMP THICK. A	LOAD B	WEIGHT C	SPINDLE ASSEMBLY	SPINDLE CAP
P-403 80620	2 3/4" 69.9 mm	400 lbs 180 kg	0.42 lbs 0.19 kg	370118	—
P-403-1 80622	2 1/2" 63.5 mm	100 lbs 45 kg	0.42 lbs 0.19 kg		170003
P-403-2S 80626	2 5/8" 66.7 mm	400 lbs 180 kg	0.44 lbs 0.20 kg	370118 (2) (Double Spindle)	—
P-403-2S-2 80627	2 1/8" 54.0 mm	100 lbs 45 kg	0.45 lbs 0.20 kg		170003

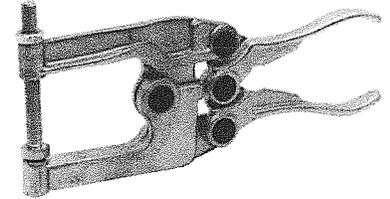
MODEL
P-800-2S



SHOWN

P-800

UPC No. 80630



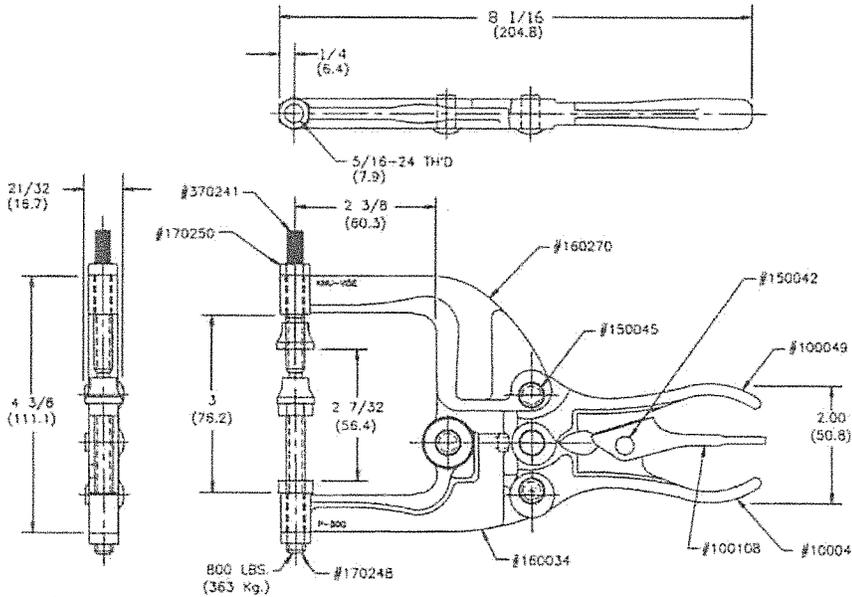
Holding Capacity.....800 lbs/360 kg
Weight.....1.06 lbs/0.48 kg
Included.....Spindle Assembly
(370005)

P-800-2S (Double Spindle)

UPC No. 80636

Included.....Spindle Assembly
(370005) (370102)

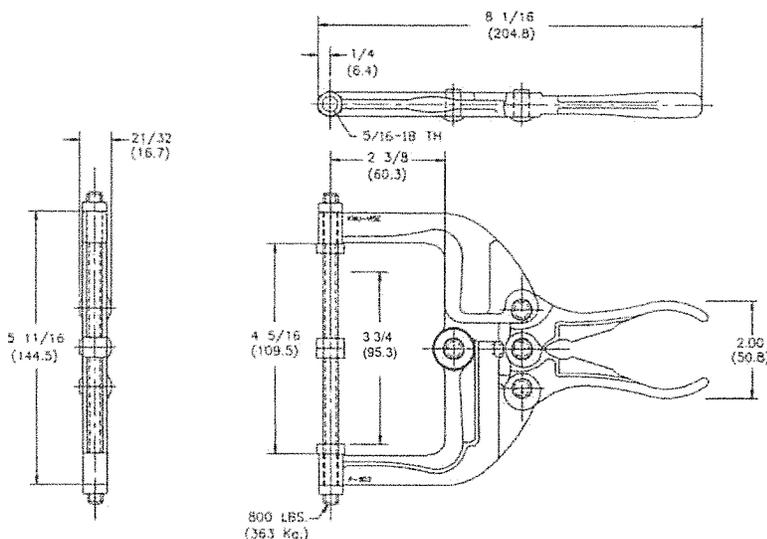
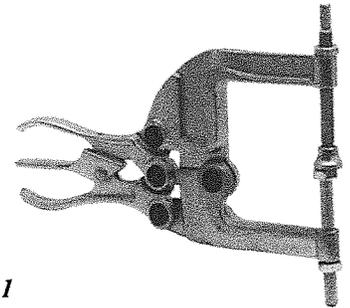
Note: Available with
Lever Unlocking.



P-803

UPC No. 80631

Holding Capacity.....800 lbs/360 kg
Weight.....1.28 lbs/0.58 kg
Included.....Quick Release Lever
(100108)
Swivel Foot Spindle (370241)
Hex Head Spindle (370005)

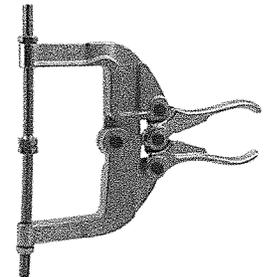


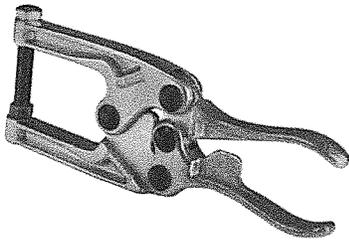
P-804

UPC No. 80632

Holding Capacity.....800 lbs/360 kg
Maximum Clamping
Thickness.....3-1/2"/88.9 mm
Weight.....1.36 lbs/0.62 kg
Included.....2 Hex Head Spindles
(370235)

Note: Available with Quick Release Lever
Unlocking.





P-1200 SHOWN

UPC No. 80640

Holding Capacity.....1200 lbs/540 kg

Maximum Clamping

Thickness.....1-7/32"/31 mm

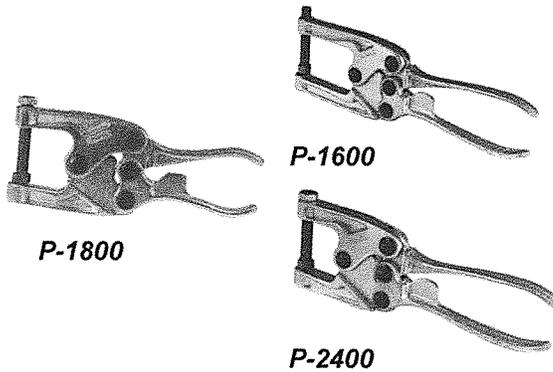
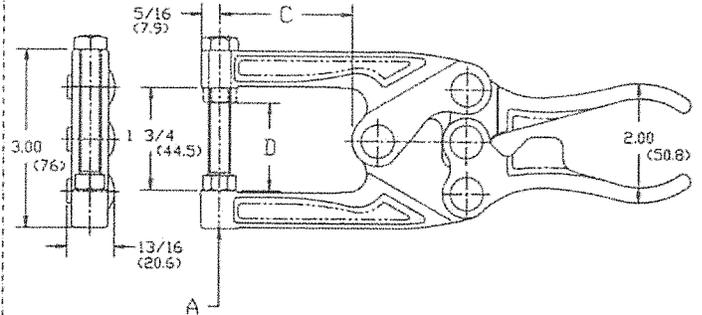
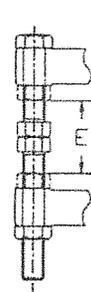
Weight.....1.56 lbs/0.71 kg

Included.....Spindle Assembly
(370009)

Note: Available with Quick Release Lever
Unlocking. Not available on HD models.

MODEL
P-1200-2S
DOUBLE
SPINDLE

MODEL P-1200
FOR OTHER MODELS
SEE TABLE BELOW

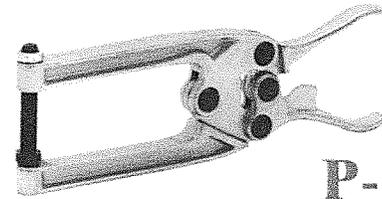
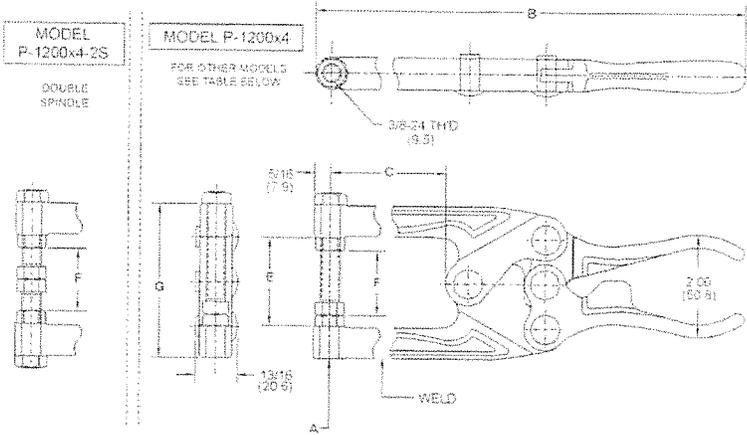


Double Spindle Pliers

MODEL/ UPC	LOAD A	MAX. CLAMP THICK. E	WEIGHT	SPINDLE ASSEMBLY
P-1200-2S 80650	1200 lbs 540 kg	1 1/32" 26.2 mm	1.60 lbs 0.73 kg	370009 & 370051
P-1200-HD2-2S 80651	1200 lbs 540 kg		1.98 lbs 0.90 kg	
P-1600-2S 80750	1600 lbs 725 kg		1.68 lbs 0.76 kg	
P-1800-2S 80766	1800 lbs 820 kg	1 1/16" 27 mm	1.50 lbs 0.68 kg	
P-1800-HD2-2S 80767	1800 lbs 820 kg		1.88 lbs 0.85 kg	
P-2400-2S 80776	2400 lbs 1100 kg		1.58 lbs 0.72 kg	

Single Spindle Pliers

MODEL/ UPC	LOAD A	LENGTH B	THROAT DEPTH C	MAX. CLAMP THICK. D	WEIGHT	SPINDLE ASSEMBLY
P-1200-HD2 80641	1200 lbs 540 kg	9" 228.6 mm	2 1/4" 57.2 mm	1 7/32" 31 mm	1.94 lbs 0.88 kg	370009
P-1200 80640	1200 lbs 540 kg	8 3/8" 212.7 mm			1.56 lbs 0.71 kg	
P-1600 80740	1600 lbs 725 kg	9 3/4" 247.7 mm			1.64 lbs 0.74 kg	
P-1800 80760	1800 lbs 820 kg	7 3/8" 187.3 mm	1 1/4" 31.8 mm	1.46 lbs 0.66 kg		
P-1800-HD2 80761	1800 lbs 820 kg	8" 203.2 mm		1.84 lbs 0.83 kg		
P-2400 80770	2400 lbs 1100 kg	8 3/4" 222.2 mm		1.54 lbs 0.70 kg		



P-1200X4

SHOWN

UPC No. 80642

Holding Capacity.....600 lbs/270 kg
 Maximum Clamping
 Thickness.....1-17/64"/32.2 mm
 Weight.....2.01 lbs/0.91 kg
 Included.....Spindle Assembly
 (370009)

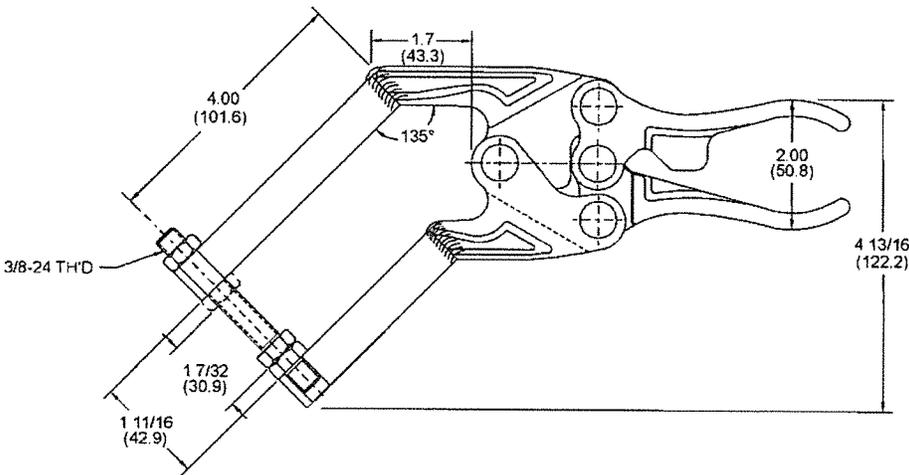
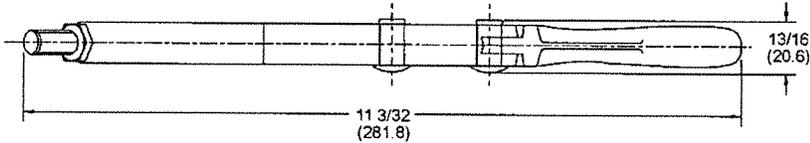
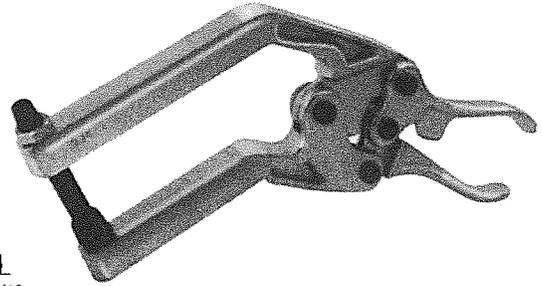
MODEL UPC	LOAD A	LENGTH B	THROAT DEPTH C	WEIGHT	JAW OPENING E	MAX. CLAMP THICK. F	HEIGHT G	MIN. CLAMP THICK.	SPINDLE ASSEMBLY
P-1200X4 80642	600 lbs 270 kg	10 7/16" 265 mm	4" 101.6 mm	2.01 lbs 0.91 kg	1 3/4" 44.5 mm	1 7/32" 31 mm	3" 76 mm	0	370009
P-1203X4 80662				2.31 lbs 1.05 kg	3 17/32" 89.7 mm	2 13/16" 71.4 mm	5" 127 mm	1 19/32 " 40.5 mm	
P-1204X4 80682				2.41 lbs 1.09 kg	4 17/32" 115 mm	3 13/16" 96.8 mm	6" 152.4 mm	3 19/32" 91.3 mm	
P-1206X4 80702				2.60 lbs 1.18 kg	6 17/32" 166 mm	5 13/16" 147.6 mm	8" 203.2 mm	5 19/32" 142.1 mm	
P-1200X6 80644	400 lbs 180 kg	12 7/16" 316 mm	6" 152.4 mm	2.48 lbs 1.13 kg	1 3/4" 44.5 mm	1 7/32" 31 mm	3" 76 mm	0	
P-1203X6 80664				2.78 lbs 1.26 kg	3 17/32" 89.7 mm	2 13/16" 71.4 mm	5" 127 mm	1 19/32 " 40.5 mm	
P-1204X6 80684				2.88 lbs 1.31 kg	4 17/32" 115 mm	3 13/16" 96.8 mm	6" 152.4 mm	3 19/32" 91.3 mm	
P-1206X6 80704				3.07 lbs 1.39 kg	6 17/32" 166 mm	5 13/16" 147.6 mm	8" 203.2 mm	5 19/32" 142.1 mm	
P-1200X8 80646	300 lbs 135 kg	14 7/16" 366 mm	8" 203.2 mm	2.94 lbs 1.33 kg	1 3/4" 44.5 mm	1 7/32" 31 mm	3" 76 mm	0	
P-1203X8 80666				3.24 lbs 1.47 kg	3 17/32" 89.7 mm	2 13/16" 71.4 mm	5" 127 mm	1 19/32 " 40.5 mm	
P-1204X8 80686				3.34 lbs 1.52 kg	4 17/32" 115 mm	3 13/16" 96.8 mm	6" 152.4 mm	3 19/32" 91.3 mm	
P-1206X8 80706				3.53 lbs 1.60 kg	6 17/32" 166 mm	5 13/16" 147.6 mm	8" 203.2 mm	5 19/32" 142.1 mm	

MODEL/ UPC	DOUBLE SPINDLE	WEIGHT
P-1200X4-2S 80652	370009 & 370051	2.05 lbs 0.93 kg
P-1203X4-2S 80672	370009 & 370028	2.41 lbs 1.09 kg
P-1204X4-2S 80692	370029 & 370052	2.65 lbs 1.20 kg
P-1206X4-2S 80712	370028 & 370030	2.70 lbs 1.19 kg
P-1200X6-2S 80654	370009 & 370051	2.52 lbs 1.40 kg
P-1203X6-2S 80674	370009 & 370028	2.88 lbs 1.31 kg
P-1204X6-2S 80694	370029 & 370052	3.12 lbs 1.42 kg
P-1206X6-2S 80714	370028 & 370030	3.17 lbs 1.44 kg

MODEL/ UPC	FULL LENGTH SPINDLE - L	WEIGHT
P-1203X4-L 80663	370028	2.35 lbs 1.07 kg
P-1204X4-L 80688	370029	2.48 lbs 1.13 kg
P-1206X4-L 80703	370030	2.72 lbs 1.23 kg
P-1203X6-L 80665	370028	2.92 lbs 1.33 kg
P-1204X6-L 80685	370029	2.95 lbs 1.34 kg
P-1206X6-L 80705	370030	3.19 lbs 1.45 kg
P-1203X8-L 80667	370028	3.28 lbs 1.49 kg
P-1204X8-L 80687	370029	3.41 lbs 1.55 kg
P-1206X8-L 80707	370030	3.65 lbs 1.66 kg

MODEL/ UPC	DOUBLE SPINDLE	WEIGHT
P-1200X8-2S 80656	370009 & 370051	2.98 lbs 1.35 kg
P-1203X8-2S 80676	370009 & 370028	3.34 lbs 1.52 kg
P-1204X8-2S 80696	370029 & 370052	3.58 lbs 1.63 kg
P-1206X8-2S 80716	370028 & 370030	3.63 lbs 1.65 kg

Specials: These pliers are available in a wide range of custom sizes ranging from 4" to 10".



P-1200X4X45

UPC No. 80653

Holding Capacity.....600 lbs/270 kg

Maximum Clamping
Thickness.....1-33/64"/38.5 mm

Included.....Spindle Assembly (370009)
Anvil (170026)

Note: Can be extended to different lengths. Angled for better clearance in tight places.

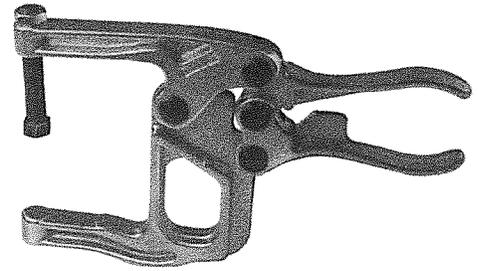
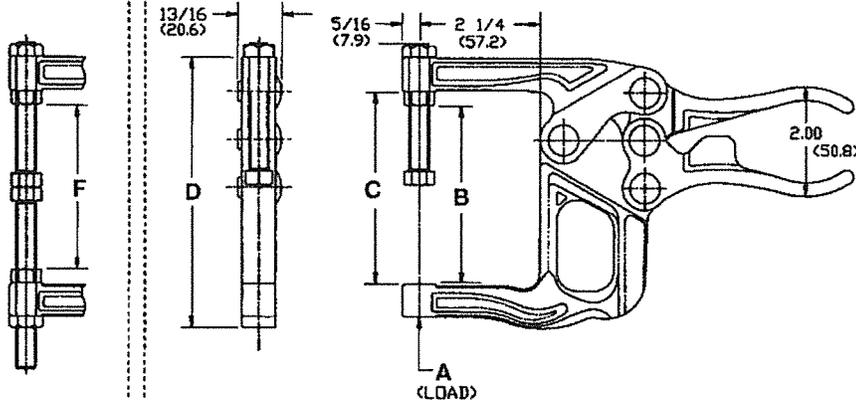
Specials: These pliers are available in a wide range of custom sizes ranging from 4" to 10". Holding capacity will vary with length of extensions.

MODEL P-1203-2S

FOR OTHER MODELS SEE TABLE BELOW

MODEL P-1203

FOR OTHER MODELS SEE TABLE BELOW



P-1203 SHOWN

UPC No. 80660

Holding Capacity.....1200 lbs/540 kg

Maximum Clamping

Thickness.....3.00"/76.2 mm

Weight.....1.86 lbs/0.84 kg

Included.....Short Spindle

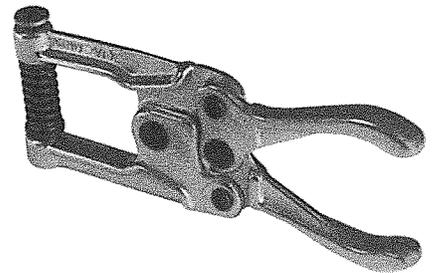
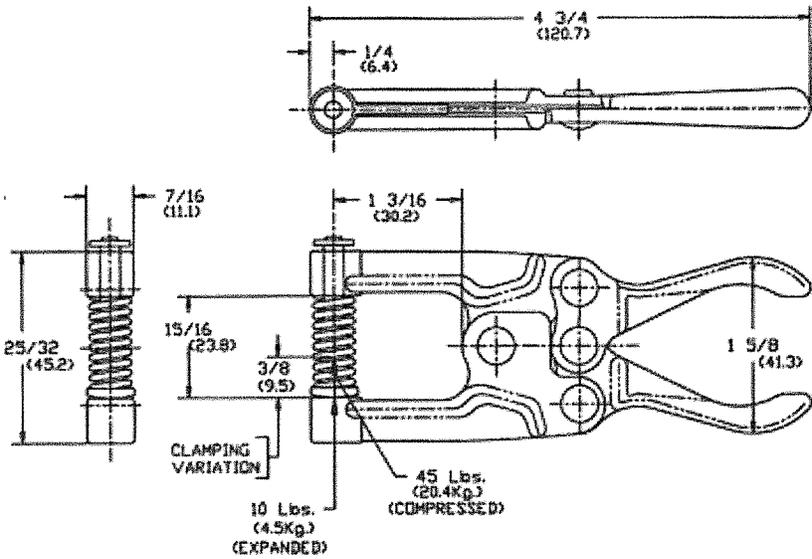
Assembly (370009)

Also available.....Long Spindle

Assembly (370028)

MODEL UPC	LOAD A	MIN. CLAMP THICK. G	MAX. CLAMP THICK. B	JAW OPEN- ING C	HEIGHT D	LENGTH E	WEIGHT	SPINDLE ASSEMBLY	
								SHORT	LONG
P-1203 80660	1200 lbs 540 kg	1 25/32" 45.2 mm	3" 76.2 mm	3 17/32" 89.7 mm	5" 127 mm	8 3/8" 212.7 mm	1.86 lbs 0.84 kg	370009	370028
P-1603 80742	1600 lbs 725 kg								
P-1204 80680	1200 lbs 540 kg	4 25/32" 121.4 mm	6" 152.4 mm	6 17/32" 166 mm	8" 203.2 mm	8 3/8" 212.7 mm	1.96 lbs 0.89 kg		370029
P-1604 80744	1600 lbs 725 kg								
P-1206 80700	1200 lbs 540 kg	9 3/4" 247.7 mm	2.23 lbs 1.01 kg	370030					
P-1606 80746	1600 lbs 725 kg								

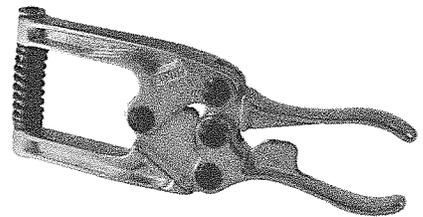
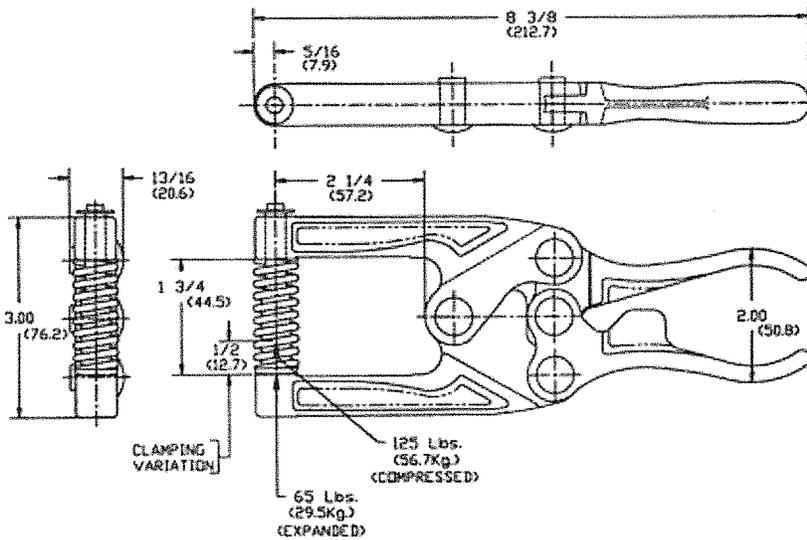
MODEL/ UPC	LOAD A	MAX. CLAMP THICK. F	WEIGHT	SPINDLE ASSEMBLY
P-1203-2S 80670	1200 lbs 540 kg	2 13/16" 71.4 mm	1.96 lbs 0.89 kg	370009 & 370028
P-1603-2S 80752	1600 lbs 725 kg		2.04 lbs 0.93 kg	
P-1204-2S 80690	1200 lbs 540 kg	3 13/16" 96.8 mm	2.20 lbs 0.94 kg	370052 & 370029
P-1604-2S 80754	1600 lbs 725 kg		2.28 lbs 0.98 kg	
P-1206-2S 80710	1200 lbs 540 kg	5 13/16" 147.6 mm	2.25 lbs 1.03 kg	370028 & 370030
P-1606-2S 80756	1600 lbs 725 kg		2.33 lbs 1.06 kg	



FGP-400

UPC No. 80618

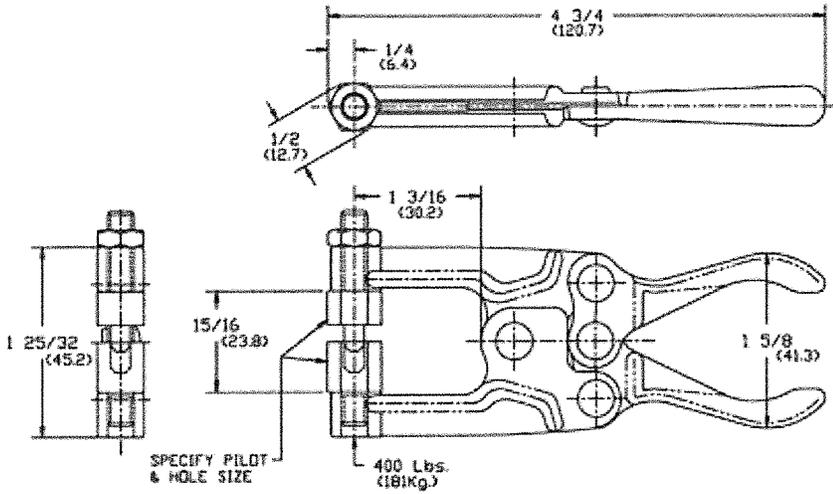
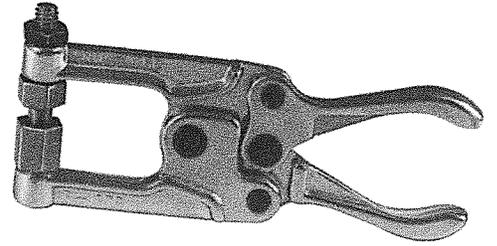
Weight.....0.31 lbs/0.14 kg
 Spring Load.....10-45 lbs/4.5-20 kg
 Included.....Spring Assembly



FGP-1200

UPC No. 80658

Weight.....1.60 lbs/0.73 kg
 Spring Load.....65-125 lbs/30-57 kg
 Included.....Spring Assembly



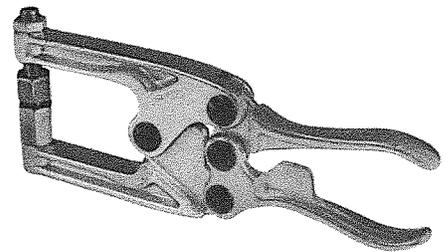
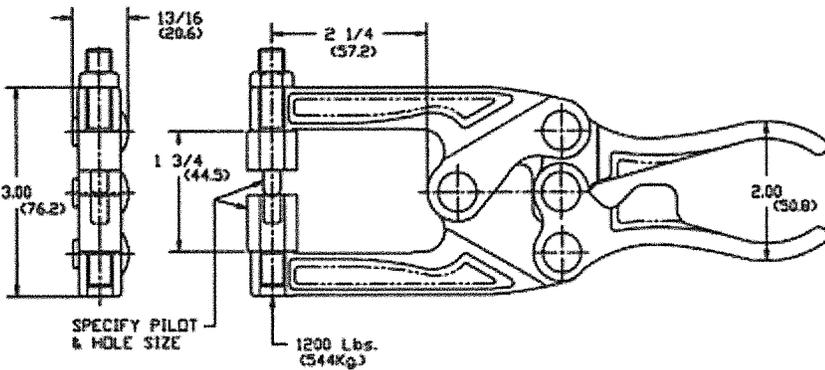
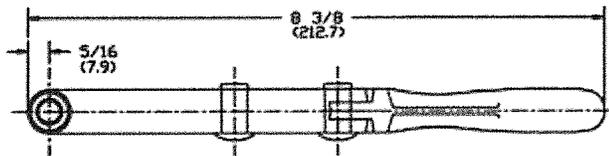
HLP-400

UPC No. 80608

Holding Capacity..... 400 lbs/180 kg

Weight.....0.34 lbs/0.15 kg

Note: Hole Locating
(Specify Pilot & Hole Size)



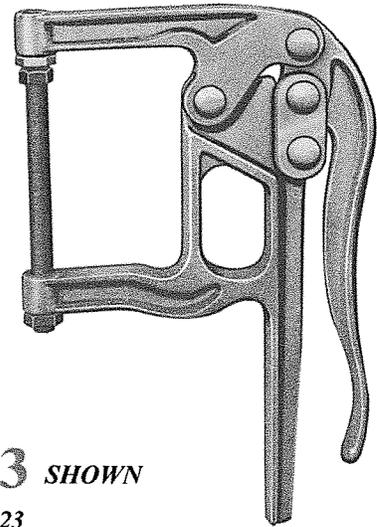
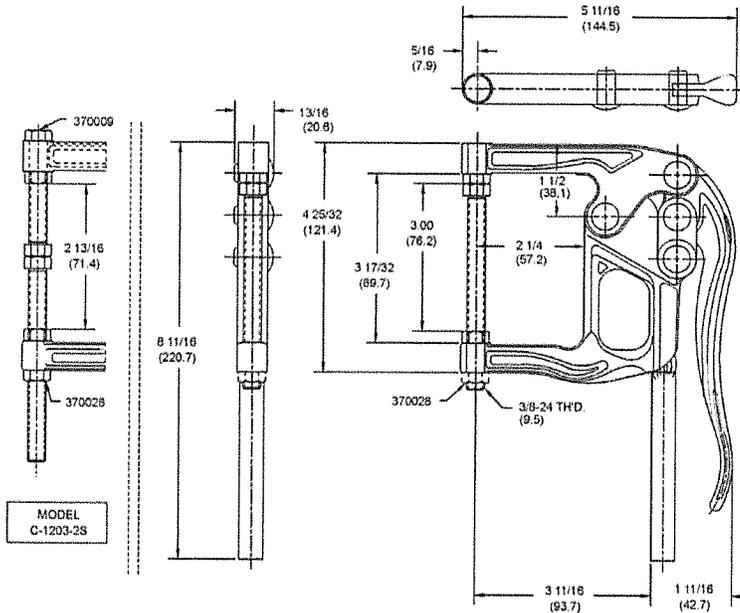
HLP-1200

UPC No. 80648

Holding Capacity..... 1200 lbs/540 kg

Weight.....1.72 lbs/0.78 kg

Note: Hole Locating
(Specify Pilot & Hole Size)



C-1203 SHOWN

UPC No. 80823

Holding Capacity..... 1200 lbs/540 kg

Weight.....2.05 lbs/0.93 kg

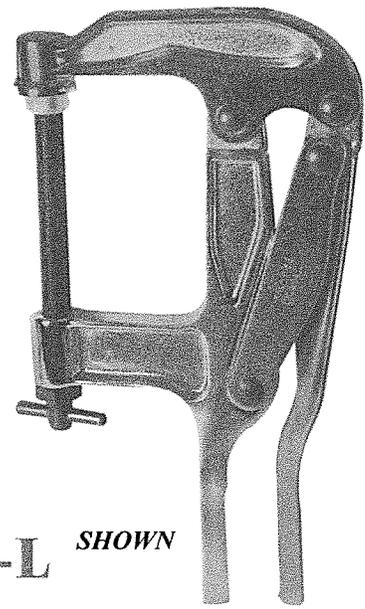
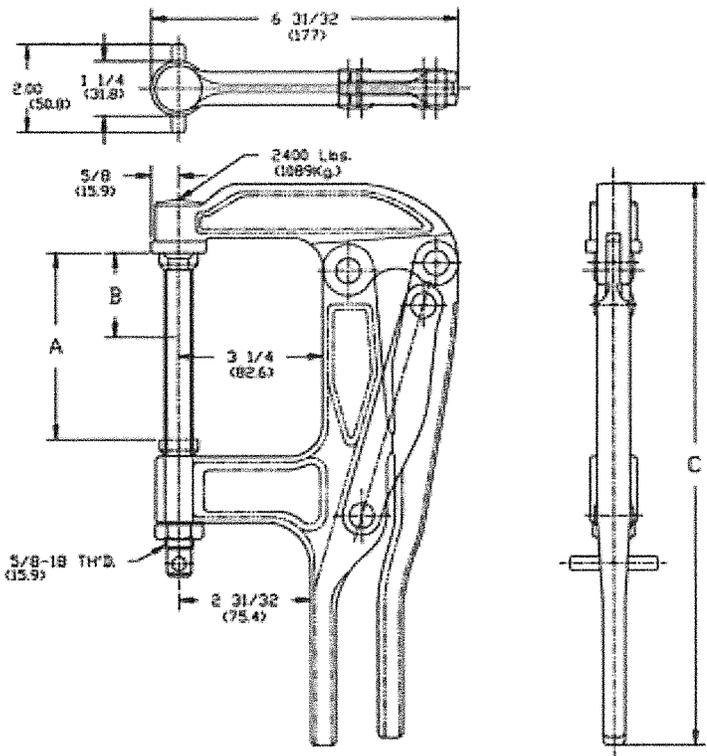
Note: C-1203 shown, for other models see table

Single Spindle "C" Clamp

MODEL /UPC	LOAD AT SPINDLE	MAX. CLAMP THICK. A	JAW OPENING B	C	D	WEIGHT	SPINDLE ASSEMBLY
C-1200 80820	1200 lb 540 kg	1 7/32" 31 mm	1 3/4" 44.5 mm	3" 76.2 mm	7/8" 22.2 mm	1.76 lbs 0.80 kg	370009
C-1203 80823		3" 76.2 mm	3 17/32" 89.7 mm	4 25/32" 121.4 mm	2 21/32" 67.5 mm	2.05 lbs 0.93 kg	370028
C-1204 80824		4" 101.6 mm	4 17/32" 115 mm	5 25/32" 146.8 mm	3 21/32" 93 mm	2.15 lbs 0.98 kg	370029
C-1206 80826		6" 152.4 mm	6 17/32" 166 mm	7 25/32" 197.6 mm	5 21/32" 143.7 mm	2.35 lbs 1.07 kg	370030
C-1800 80850	1800 lbs 820 kg	1 1/4" 31.8 mm	1 3/4" 44.5 mm	3" 76.2 mm	7/8" 22.2 mm	1.66 lbs 0.75 kg	370009

Double Spindle "C" Clamp

MODEL /UPC	LOAD AT SPINDLE	MAX. CLAMP THICK. E	WEIGHT	SPINDLE ASSEMBLY	
				SHORT	LONG
C-1200-2S 80830	1200 lbs 540 kg	1 1/32" 26.2 mm	1.80 lbs 0.82 kg	370051	370009
C-1203-2S 80833		2 13/16" 71.4 mm	2.10 lbs 0.95 kg	370009	370028
C-1204-2S 80834		3 13/16" 96.8 mm	2.25 lbs 1.02 kg	370052	370029
C-1206-2S 80836		5 13/16" 147.6 mm	2.45 lbs 1.11 kg	370028	370030
C-1800-2S 80851	1800 lbs 820 kg	1 1/16" 27 mm	1.71 lbs 0.78 kg	370051	370009



C-2404-L *SHOWN*

UPC No. 80864

Holding Capacity..... 2400 lbs/1100 kg

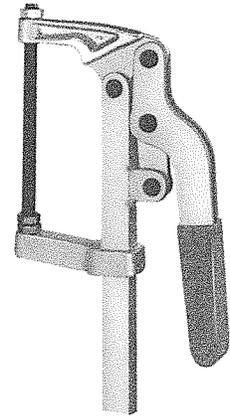
Weight.....5.42 lbs/2.46 kg

Note: C-2404-L shown, for other models see table

MODEL	UPC	LOAD AT SPINDLE	A (S) & (L) SERIES	MIN. CLAMP THICK. B FOR (S) SERIES	C (S) & (L) SERIES	WEIGHT LBS—KGS		SPINDLE ASSEMBLY (L) SERIES	SPINDLE ASSEMBLY (S) SERIES
						SHORT	LONG		
C-2404	80864 (L) 80854 (S)	2400 lbs 1100 kg	4 1/8" 104.8 mm	1 29/32" 48.4 mm	12 3/4" 324 mm	5.42 lbs 2.46 kg	5.56 lbs 2.52 kg	470010	470008
C-2405	80865 (L) 80855 (S)		5 1/8" 130.2 mm	2 29/32" 73.8 mm	13 3/4" 349.3 mm	5.76 lbs 2.61 kg	5.97 lbs 2.71 kg	470013	
C-2406	80866 (L) 80856 (S)		6 1/8" 155.6 mm	3 29/32" 99.2 mm	14 3/4" 374.7 mm	5.64 lbs 2.56 kg	5.93 lbs 2.69 kg	470097	
C-2407	80867 (L) 80857 (S)		7 1/8" 181 mm	4 29/32" 124.6 mm	15 3/4" 400 mm	5.98 lbs 2.71 kg	6.35 lbs 2.88 kg	470076	
C-2408	80868 (L) 80858 (S)		8 1/8" 206.4 mm	5 29/32" 150 mm	16 3/4" 425.5 mm	6.33 lbs 2.87 kg	6.78 lbs 3.08 kg	470056	
C-2410	80870 (L) 80860 (S)		10 1/8" 257.2 mm	7 29/32" 200.8 mm	18 3/4" 476.3 mm	6.95 lbs 3.15 kg	7.56 lbs 3.43 kg	470062	
C-2412	80872 (L) 80862 (S)		12 1/8" 308 mm	9 29/32" 251.6 mm	20 3/4" 527 mm	7.58 lbs 3.44 kg	8.34 lbs 3.78 kg	470063	
C-2414	80884 (L) 80874 (S)		14 1/8" 358.8 mm	11 29/32" 302.4 mm	22 3/4" 578 mm	8.20 lbs 3.72 kg	9.12 lbs 4.14 kg	470064	

Note: L - Long Spindle
S - Short Spindle
470008 is the Short Spindle for all the above

MODEL	UPC	LOAD AT SPINDLE	A	B	C	D
CA-1200	80852	1200 lbs	12"	3"	6-1/2"	13-1/2"
CA-1200X6	80876	400 lbs	12"	6"	9-1/2"	13-1/2"
CA-1200X8	80877	300 lbs	12"	8"	11-1/2"	13-1/2"
CA-1218	80878	1200 lbs	18"	3"	6-1/2"	19-1/2"
CA-1218X6	80879	400 lbs	18"	6"	9-1/2"	19-1/2"
CA-1218X8	80881	300 lbs	18"	8"	11-1/2"	19-1/2"
CA-1224	80882	1200 lbs	24"	3"	6-1/2"	25-1/2"
CA-1224X6	80883	400 lbs	24"	6"	9-1/2"	25-1/2"
CA-1224X8	80885	300 lbs	24"	8"	11-1/2"	25-1/2"
CA-1800	80853	1800 lbs	12"	2"	5-1/2"	13-1/2"
CA-1818	80887	1800 lbs	18"	2"	5-1/2"	19-1/2"
CA-1824	80888	1800 lbs	24"	2"	5-1/2"	25-1/2"



CA-1200

UPC No. 80852

Holding Capacity..... 1200 lbs/540 kg

Weight.....1.81 lbs/0.82kg

Note: Slide Jaw Optional
(360221) UPC No. 80062

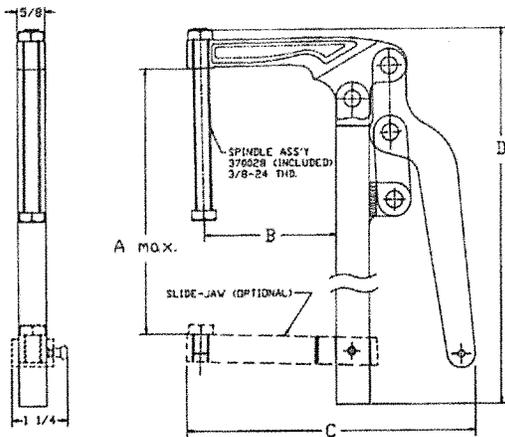
CA-1800

UPC No. 80853

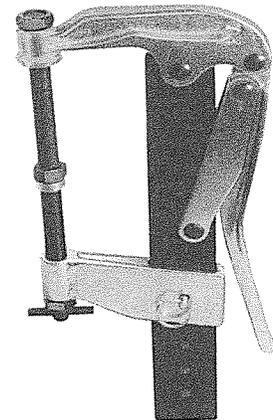
Holding Capacity.....1800 lbs/820 kg

Weight.....1.74 lbs/0.79kg

Note: Slide Jaw Optional
(360118) UPC No. 80063



MODEL / UPC	LOAD AT SPINDLE	MAX. CLAMP THICK. A	HEIGHT B	WEIGHT	SPINDLE ASSEMBLY
CA-2410 80880	2400 lbs 1100 kg	10" 254 mm	15" 381 mm	8.09 lbs 3.67 kg	370020 & 470008
CA-2416 80886	2400 lbs 1100 kg	16" 406.4 mm	21" 533.4 mm	9.09 lbs 4.12 kg	
CA-2420 80890	2400 lbs 1100 kg	20" 508 mm	25" 635 mm	9.78 lbs 4.44 kg	
CA-2424 80894	2400 lbs 1100 kg	24" 609.6 mm	29" 736.6 mm	10.47 lbs 4.75 kg	



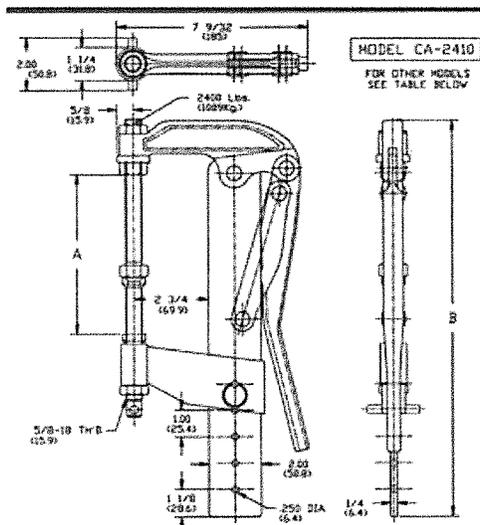
CA-2410

UPC No. 80880

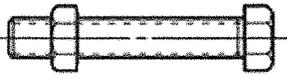
Holding Capacity.....2400 lbs/1100 kg

Weight..... 8.09 lbs/3.67 kg

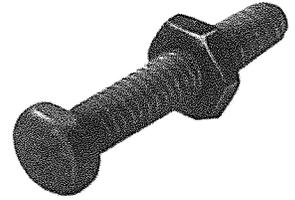
Note: For Other Models See Table



ACCESSORIES/REPLACEMENT PARTS



SPINDLE ASSEMBLIES
"C" CLAMPS & PLIERS SPINDLE WITH NUT

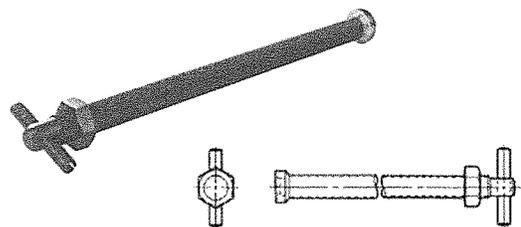


PART NO.	UPC	DIMENSIONS	MODELS				
			"C" CLAMPS	PLIERS			
370001	80020	1/4-20 x 1-9/16 O.A.		P-400	P-400-1		
370004	80021	1/4-20 x 1-5/16 O.A.		P-400-2	P-400-2S		
370005	80022	5/16-18 x 2-7/8 O.A.		P-800			
370009	80023	3/8-24 x 2 19/32 O.A.	C-1200 C-1200-2S C-1203-2S C-1800 C-1800-2S	P-1200 P-1203 P-1204 P-1206	P-1600 P-1800 P-2400 P-1200-2S	P-1203-2S P-1600-2S P-1603-2S P-1800-2S	P-2400-2S PJP-1203 PJP-1204 PJP-1206
370028	80024	3/8-24 x 4-9/32 O.A.	C-1203 C-1203-2S C-1206-2S CA-1200 PJC-1203	P-1203-2S P-1206-2S	P-1603-2S P-1606-2S	AS FULL LENGTH SPINDLE IN PLIERS: P-1203, P-1603	
370029	80025	3/8-24 x 5-9/32 O.A.	C-1204 C-1204-2S PJC-1204	P-1204-2S	P-1604-2S	AS FULL LENGTH SPINDLE IN PLIERS: P-1204, P-1604	
370030	80026	3/8-24 x 7-9/32 O.A.	C-1206 C-1206-2S PJC-1206	P-1206-2S	P-1606-2S	AS FULL LENGTH SPINDLE IN PLIERS: P-1206, P-1606	
370051	80027	3/8-24 x 1-3/4 O.A.	C-1200-2S C-1800-2S	P-1200-2S P-1600-2S	P-1800-2S P-2400-2S		
370052	80028	3/8-24 x 3-1/4 O.A.	C-1204-2S PJC-1200	P-1204-2S P-1604-2S	PJP-1200 PJP-2400-2S		
370093	80074	5/8-18 x 4-15/32 O.A.	WOD-2400				
370102	80099	5/16-18 x 1-11/16 O.A.		P-800-2S			
370118	80062	1/4-20 x 2-5/8 O.A.		P-402 P-403-1	P-402-1 P-403-2S	P-403 P-403-2S-2	
370235		5/16-18 x 3 23/32 O.A.		P-804			

PART NO.	UPC	DIMENSIONS	MODELS
470008	80040	5/8 -18 X 5-9/32 O.A.	C-2404(S) C-2407(S) C-2405(S) C-2408(S) C-2406(S) C-2410(S)
470010	80041	5/8 -18 X 7-1/8 O.A.	C-2404(L)
470062	80057	5/8 -18 X 13-1/8 O.A.	C-2410(L)
470076	80058	5/8 -18 X 10-1/8 O.A.	C-2407(L)
470013	80042	5/8 -18 X 8-1/8 O.A.	C-2405(L)
470063	80059	5/8 -18 X 15-1/8 O.A.	C-2412(L)
470097	80097	5/8 -18 X 9-1/8 O.A.	C-2406(L)
470056	80043	5/8 -18 X 11-1/8 O.A.	C-2408(L)
470064	80098	5/8 -18 X 11-1/8 O.A.	C-2414(L)

SPINDLE ASSEMBLIES

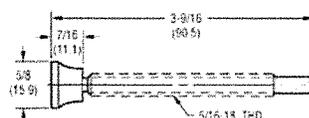
SPINDLE ASSEMBLIES FOR
2400 SERIES "C" CLAMPS

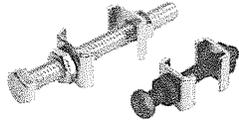


PART NO.	UPC
370241	80036

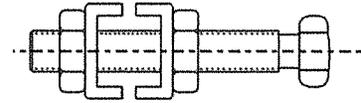
SPINDLE ASSEMBLIES

**SWIVEL FOOT
SPINDLE ASSEMBLY**





SPINDLE ASSEMBLIES FOR FIXED MOUNTED CLAMPS



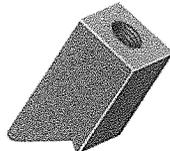
PART NO.	UPC	DIMENSIONS	MODELS			
370375	80030	5/16-18 x 2-3/16 O.A.	V-375 Series			
370600	80031	3/8-16 x 3-3/16 O.A.	V-600 Series			
N-470005	80044	5/16-18 x 2-7/8 O.A.	DTS-200 DTV-200	AO-101 AO-101-SA AO-200 AO-201	H-600 SH-600 J-200 AOV-201	S-200 T-200 V-200 J-400
W-470005	80045	5/16-18 x 3-5/8 O.A.	DTS-400 DTV-400	AO-402	S-400 T-400	V-400 VA-400
N-470007	80046	1/4-20 x 1-7/8 O.A.	S-100	T-100	V-100	
W-470007	80047	1/4-20 x 1-7/8 O.A.	H-400 X 20	SH-400	H-400	
470009	80048	3/8-24 x 2-19/32 O.A.	V-200-HD	AO-201-HD		
N-470020	80049	5/8-18 x 5-15/32 O.A.	CAV-1200 CASB-1200	V-1200 SB-1200	AO-1203 AOV-1203	SB-800
W-470020	80050	5/8-18 x 5-15/32 O.A.	CASB-2000 CAV-2000	DTV-1200 DTSB-1200	V-2000	
470072	80051	1/2-13 x 3-3/8 O.A.	V-400-HD	AO-402-HD		
N-470078	80052	1/2-13 x 3-3/8 O.A.	CAV-800	AO-802	V-800	AOV-802 CASB-800
W-470078	80053	1/2-13 x 3-3/8 O.A.	DTSB-800	DTV-800		
HD-470020	80054	5/8-18 x 4-15/32 O.A.	AO-1002	V-800-HD		
470095	80055	8/32 x 1-3/32 O.A.	SH-100	H-100	HR-100	HL-100
470108	80056	3/4-16 x 6-15/32 O.A.	AO-2001			
N-470007-RC	80066	1/4-20 x 2 O.A.	H-200			
470120	80067	10-24 x 1-5/16 O.A.	V-120 Series			
470220	80068	1/4-20 x 1-5/8 O.A.	V-220 Series			



ANVIL FOR LIGHT MODELS "C" CLAMPS & PLIERS

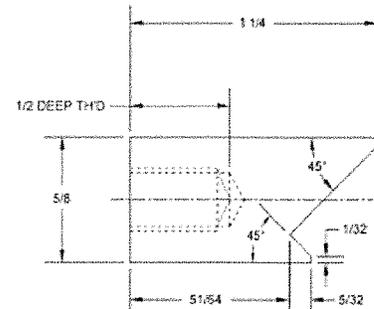
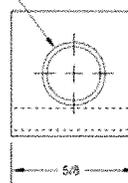
PART NO.	UPC	DIMENSIONS	MODELS			
			"C" CLAMPS	PLIERS		
170026	80018	3/8 - 24 X 1/2	C-1200	P-1200-A	P-1600-A	P-1800-A
			C-1203	P-1203-A	P-1603-A	P-2400-A
			C-1204	P-1204-A	P-1604-A	
			C-1206	P-1206-A		P-1606-A

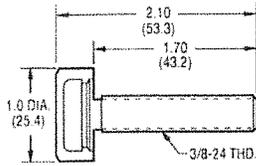
RIGHT ANGLE SPINDLE BLOCK



PART NO.	UPC	DIMENSIONS
270510-5/16-24	80070	5/16-24
270510-5/16-18	80072	5/16-18

SEE DIMENSION



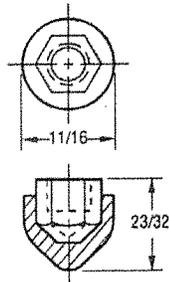


SPINDLE

SPECIFICALLY DEVELOPED CAP OF PVC WITH DUROMETER OF 42-48D

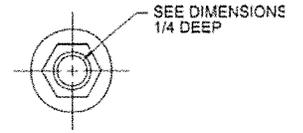
PART NO.	UPC	DIMENSIONS
370224	80035	3/8-24 x 1-3/4
370225	80037	3/8-24 x 2-5/8
370226	80038	3/8-24 x 3-1/4
370227	80039	3/8-24 x 4-5/16

Note: This spindle sold only as a complete assembly. Large, harder polyurethane cap provides wide surface coverage.



PVC SPINDLE TIP ASSEMBLY

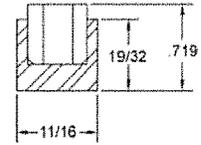
PART NO.	UPC	DIMENSIONS
170083-R	80088	
370083-1/4-20	80002	1/4-20-Spindles
370083-5/16-18	80007	5/16-18-Spindles
370083-3/8-24	80004	3/8-24-Spindles



PVC SPINDLE FOOT ASSEMBLY

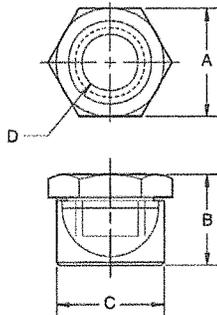
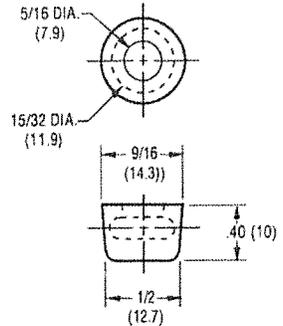
PART NO.	UPC	THREAD SIZE
170086-R	80033	
370086-1/4-20	80011	1/4-20 Spindles
370086-5/16-18	80014	5/16-18 Spindles
370086-5/16-24	80012	5/16-24 Spindles
370086-3/8-24	80013	3/8-24 Spindles

Note: Available in Metrics. Call for details.



PVC SPINDLE CAPS

PART NO.	UPC	DIMENSIONS
170003	80006	1/4 Diameter Spindles
170119	80008	8-32 Diameter Spindles



STEEL SWIVEL FEET

PART NO.	UPC	DIMENSIONS			
		A	B	C	D
420 (CT)	80080	9/16	11/16	5/8	1/4 - 20 x 5/16 Deep
428 (FT)	80079	9/16	11/16	5/8	1/4 - 28 x 5/16 Deep
518 (CT)	80032	9/16	3/4	11/16	5/16 - 18 x 3/8 Deep
524 (FT)	80084	9/16	3/4	11/16	5/16 - 24 x 3/8 Deep
624	80015	11/16	3/4	3/4	3/8 - 24 x 7/16 Deep
820	80016	15/16	15/16	7/8	1/2 - 20 x 7/16 Deep
1018	80017	1	1 - 1/16	1 - 1/16	5/8 - 18 x 9/16 Deep
1216	80034	1-1/4	1 - 1/8	1 - 5/16	3/4 - 16 x 3/4 Deep

COMPARISON CHART

<u>DESTACO</u>	<u>KNU-VISE</u>	<u>CARR-LANE</u>
201	V-120	CL-150-VTC
201-B	S-120	CL-151-VTC
201-T	T-120	CL-152-VTC
201-TB	TS-120	
202	VST-220	CL-250-VTC
202-B	SST-220	CL-251-VTC
202-SS	V-100-SS **	CL-250-VTC-S
202-T	TST-220	CL-252-VTC
202-TB	TSST-220	
202-TU	T-220	
202-TUB	TS-220	
202-U	V-220	CL-253-VTC
202-UB	S-220	
205-U	H-101 *	CL-250-HTC
205-UB	SH-101 *	CL-251-HTC
205-UL	HL-101 *	
205-UR	HR-101 *	
206-HSS	SH-100-SS **	
206-HBSS	SH-100-SS **	
206-USS	H-100-SS **	CL-51-TC
207-S	VST-375	
207-SB	SST-375	
207-TU	T-375	CL-452-VTC
207-U	V-375	CL-450-VTC
207-UB	S-375	
207-TUB	TS-375	
207-TS	TST-375	
207-TSB	TSST-375	
207-USS	V-200-SS **	
210-S	VST-600	CL-550-VTC
210-TS	TST-600	
210-TSB	TSST-600	
210-SB	SST-600	
210-TU	T-600	CL-652-VTC
210-TUB	TS-600	
210-U	V-600	CL-650-VTC
210-UB	S-600	CL-651-VTC
213-U	H-100 **	CL-250-HTC
215-U	H-201 *	CL-350-HTC
215-UB	SH-201 *	CL-351-HTC
215-USS	H-201-SS *	CL-350-HTC-S
217-U	H-200 **	CL-350-HTC
220	VAC-400 **	CL-600-VTC
225-U	H-401 *	CL-450-HTC
225-UB	SH-401 *	CL-451-HTC
225-USS	H-401-SS *	CL-450-HTC-S
227-U	H-400 **	CL-550-HTC
229	CAV-800 **	CL-650-ATC
235-U	H-601 *	CL-550-HTC
235-UB	SH-601 *	CL-551-HTC
237-U	H-400 **	CL-550-HTC
237-UB	SH-400 **	CL-551-HTC
240	VAC-400 **	
247-U	V-400 **	CL-850-VTC

<u>DESTACO</u>	<u>KNU-VISE</u>	<u>CARR-LANE</u>
247-UB	S-400 **	CL-851-VTC
267-U	V-1200 **	CL-1050-VTC
301	PC-1200 **	CL-150-PA
311	PC-1200 **	
323	PCU-360	
324	PCU-510	CL-110-PA
330	PCH-210	
331	PCU-700	CL-200-PA
334	PCU-1010	CL-210-PA
341	PCU-2001	CL-300-PA
344	PCU-2010	CL-310-PA
351	PCH-375	
371	PCH-750	
375	PCU-4000 **	
424	P-400 *	CL-50-PL
424 (RUBBER TIP)	P-400-1 *	
424 (2 RUBBER TIPS)	P-400-2 *	
424-2	P-400-2S *	
441	P-400 *	CL-150-PL
441 (RUBBER TIP)	P-400-1 *	
441 (2 RUBBER TIPS)	P-400-2 *	
441-2	P-400-2S *	
462	LUP-800 *	CL-254-PL
462-2	LUP-800-2S *	CL-254-PL-2
462-S	FGP-800-L *	
463	P-803 *	CL-454-PL
463-S	FGP-803 *	
468	P-800 *	CL-254-PL
468-S	FGP-800 *	
474	P-803 *	
474-S	FGP-803 *	
482	LUP-1200 *	
482-S	FGP-1200-L *	
484	LUP-1204-2S *	
486	LUP-1206-2S *	
602	PHL-253	CL-150-TPC
603	PHL-600	CL-100-PC
604	PHL-353	CL-250-TPC
605	PHL-300	CL-150-SPC
607	PHL-800	
608	PHL-850	CL-200-PC
609	PHL-300	
609-B	PHL-251 **	
624	PHL-753	CL-350-TPC
630	PHL-2501	CL-350-SPC
802	AO-101 **	CL-500-PTC
803	AOP-400 **	CL-1500-PTC
807-L	AO-201-VC **	CL-1001-PTC
807-UL	AO-201 **	CL-1000-PTC
810-U	AO-402 **	CL-2000-PTC
816	AOP-200 **	
817-U	AOV-201 **	
847-U	AO-802 **	CL-2001-PTC
858	AOS-1002 **	CL-3000-PTC

No Asterix *Load capacity, mounting holes and all critical dimensions are identical*

* *Equivalent style, load capacity and mounting holes but some dimensions differ*

** *Same basic function and capacity but mounting holes and other dimensions differ*

Manufacturers Code/ Abbreviations

(T)	<i>Heavy Duty Cylinder</i>
(FM)	<i>Front Mounting</i>
(HD)	<i>Heavy Duty</i>
(CP)	<i>Clamp Proper</i>
(Si)	<i>Silicone</i>
(S)	<i>Short Spindle</i>
(SA)	<i>Single Acting Cylinder w/ Spring Return</i>
(L)	<i>Long Spindle</i>
(2S)	<i>Two Spindle</i>
(SS)	<i>Stainless Steel</i>
(LU)	<i>Lever Unlocking Feature</i>
(LUP)	<i>Lever Unlocking Pliers</i>
(A)	<i>Anvil</i>
(S)	<i>Safety Locking Device</i>
(SP)	<i>Special</i>
(SB)	<i>Swivel Base</i>
(ET)	<i>External Thread</i>
(IT)	<i>Internal Thread</i>

Warranty

All KNU-VISE clamps, products, materials and workmanship are guaranteed against defects. Any product found to be defective in design, material or workmanship will be replaced.

This warranty does not apply to any products where failure is a result of misapplication, abuse, or negligence. This warranty is contingent upon prompt notification and return of product.

Exclusions of Warranties:

This warranty to repair or replace defective products as set forth above is given in lieu of all other warranties, express or implied, including but not limited to any implied warranty of merchantability or fitness for a particular purpose.

This warranty is void if the product has been repaired, modified or altered in any way.

Limitation of Remedies and Liabilities:

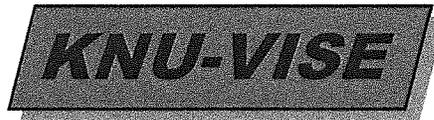
The purchaser of any product sold by Knu-Vise/Lapeer Manufacturing Company agrees that its sole and exclusive remedy pursuant to any claim of any kind, including but not limited to claims in contract, negligence or strict liability, shall be (1) the repair or replacement of a defective product or (2) a refund of the price of the defective product if Lapeer Manufacturing Company is unable to effectively repair or replace it in a reasonable time.

Under no circumstances shall Knu-Vise/Lapeer Manufacturing Company assume any responsibility of liability for incidental or consequential damages, including but not limited to, loss of profit or revenue; loss of use of the product; labor costs; costs of capital; cost of replacement equipment; and/or claim resulting from contracts between the purchaser, its customers or suppliers.

Knu-Vise/Lapeer Manufacturing Company disclaims any liability for damage or injury resulting from products improperly used, modified or repaired by others, or from products which have been used beyond their normal life expectancy.

Effective: January 15, 2001

KNU-VISE



INDUSTRY'S TOUGHEST CLAMPS

DISTRIBUTED BY:

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800-826-1428

www.lapeermanufacturing.com