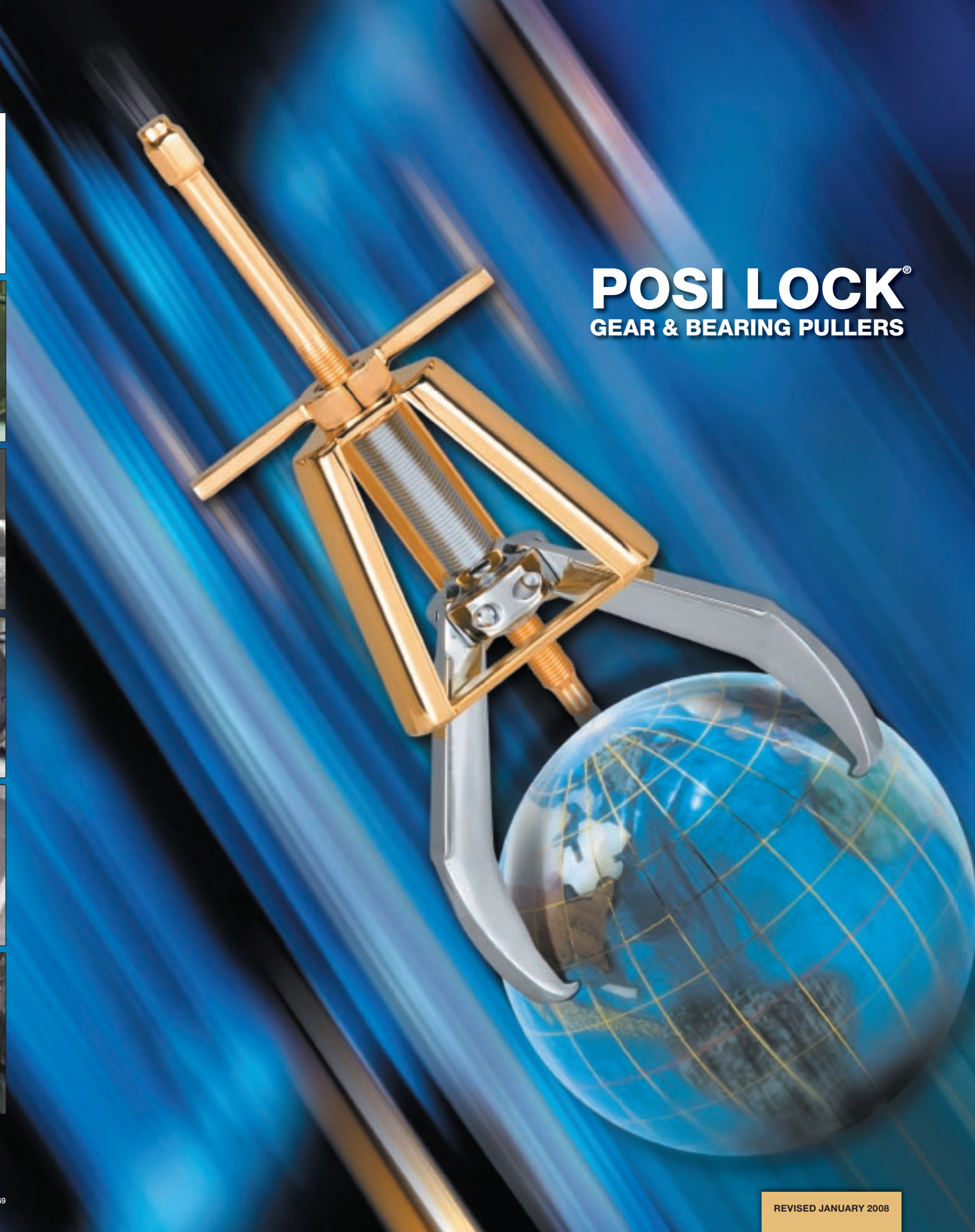


POSI LOCK[®]

GEAR & BEARING PULLERS



POSI LOCK

PULLER, INC.

In 1974, Dean Somerville was operating a machinery repair shop and a farming operation in the small North Dakota town of McHenry. With his inventive spirit and mechanical background, Dean saw the need for a self-aligning, universal puller that would remove gears and bearings safely and quickly.

His new puller design included a safety Cage® that would control the opening and closing of the pulling jaws, as well as provide the tool with clamping pressure. The new caged puller was patented in 1978 and given the name “Posi Lock® Puller,” for its unparalleled clamping design.

Noted for its ease of use, safety, and superior craftsmanship, the popularity of Posi Lock Puller grew rapidly, and the company’s expansion continues today. There are now distribution networks in every country of the world. Posi Lock continues its aggressive research and development of products and accessory items to meet new challenges.

At Posi Lock, our highly skilled, motivated team focuses on providing excellent products and services to our most important asset...THE CUSTOMER!

Dean Somerville begins designing a new, self-aligning, universal puller. The popularity of the Posi Lock Puller spreads quickly.

1974

Dean converts his repair shop into an assembly and distribution facility. His wife, Peggy, does the accounting and helps on the assembly line.

1978-83

Posi Lock becomes the first North Dakota company to receive the Export Achievement Certificate from the U.S. department of Commerce. Only 13 companies in the five-state area have received this award.

2002

1978

The unique, caged puller is patented and named the Posi Lock Puller.

1984

A fire completely destroys the McHenry headquarters. Posi Lock refuses to surrender, and relocates to its current location in Cooperstown, ND.

2008

Posi Lock distribution networks cover the entire world.



Nut recessed to avoid mushrooming and disfiguration from impact.

Cage® guides jaws for fast setup, solid contact and superior safety.

Center bolt threads designed for less effort to apply high torque.



Hardened tip.

T-handle locks jaws precisely where you set them.

Leverage up front for vise-like power and no slippage.

Slim tapered jaws allow for easier gripping and better access to tight spots.

The Posi Lock® Difference: the Cage® is the Key

This patented feature holds the pulling jaws securely in either open or closed positions. Preventing the jaws of the puller from slipping off the work surface substantially increases productivity, tool life and safety for the technician.

Manual Pullers

Posi Lock offers the safest, highest quality puller on the market. A complete line of 2- and 3-jaw manual pullers is available—ranging from 1- to 40-ton capacity. When choosing a manual puller: the center bolt diameter must be at least one-half (½) as large as the diameter of the shaft from which the object will be removed.

Hydraulic Pullers

Posi Lock’s hydraulic pullers make the hardest jobs easier...and safer! A complete line of 2- and 3-jaw hydraulic pullers is available ranging from 5- to 100-ton capacity. Posi Lock is proud to be the only company in the world to offer a 100-ton puller in a two/three-jaw combination. When choosing a hydraulic puller: the maximum force exerted in tons should be seven to ten times the diameter of the shaft, in inches; for example, a 1.5 diameter shaft would generally require a 15-ton puller.

Specialty Tools

Posi Lock has many specialty tools for specific jobs, all designed to help make those hard jobs safer and easier on the technician.

Posi Lock Puller, Inc., 805 Sunflower Avenue • P.O. Box 246 • Cooperstown, ND 58425 • USA
Phone: 701-797-2600 • 800-533-5761 • Fax: 701-797-2706 • info: myrtle@posilock.com • www.posilock.com

Manual Pullers

The Posi Lock® line of quality manual gear and bearing pullers sets the standard for quickness, ease and convenience. With Posi Lock, it's strictly a one-man operation. The T-handle and Cage® control the jaws at all times. This means that the opening, closing, locking and aligning of the jaws are all done automatically by simply turning the T-handle.

Posi Lock pullers have been designed for effective removal of stubborn gears, bearings, pulleys, and other press fit items from any machine in diverse industries.

Shown here is the complete line of 2- and 3-jaw Posi Lock pullers, ranging from 1- to 40-ton capacity.



The Cage® is the Key

If you have ever had a puller slip off, snap back, or you needed an additional set of hands to hold the jaws for setup, you'll appreciate Posi Lock's patented Cage design with superior locking power and no slippage.



Lock on ball grooves and bearing races

Posi Lock is a general purpose puller that eliminates many specialty pullers and accessories such as:

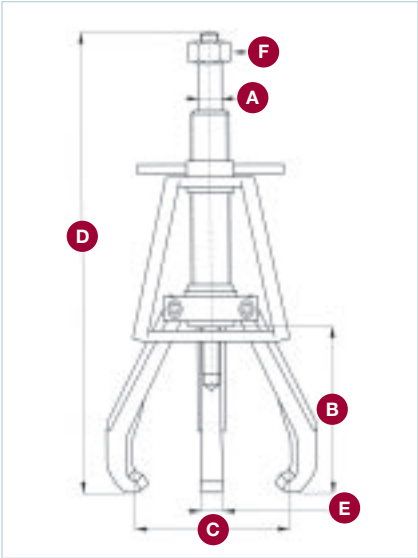
- Bearing Splitters
 - Pitman Arm Puller
 - Brake Drum Puller
 - Timing Gear Puller
- Power Steering Puller
 - Steering Wheel Puller
 - Battery Terminal Puller
 - Alternator Pulley Puller
- Harmonic Balancer Puller
 - Differential Side Bearing Puller



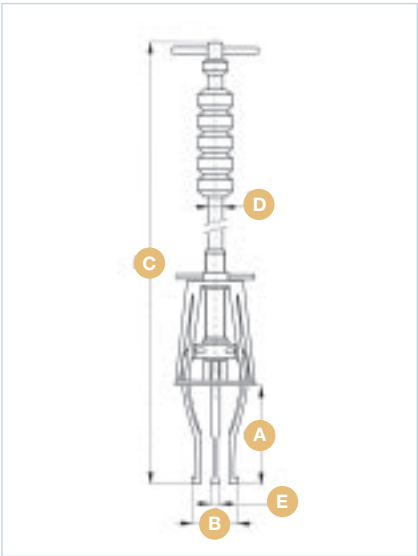
Tapered jaw design allows clamping around bearing for a perfect pull



Tapered roller bearing on shaft



2- and 3-Jaw External Pullers



PMI6 Internal Puller

EXTERNAL PULLERS

Model Number	Number of Jaws	Capacity Tons	Center Bolt Diameter A in. (mm)	Maximum Reach B in. (mm)	Spread Range C in. (mm)	Maximum Torque ft./lb. (N•m)	Weight lbs. (kg)	Dimensions			Optional Accessories			
								D Overall Length in. (mm)	E Jaw Width in. (mm)	F Hex Socket Size in. (mm)	Tip Protectors*	Bolt Extenders	Long Jaws	Transmission Jaws
202	2	1	.31 in. (7.9 mm)	2.25 in. (57 mm)	.25 to 3.25 in. (6.4 to 82.6 mm)	—	.62 lbs. (.28 kg)	5.52 in. (140.2 mm)	.25 in. (6.4 mm)	—	—	—	—	—
102	3	1	.31 in. (7.9 mm)	2.25 in. (57 mm)	.25 to 3.25 in. (6.4 to 82.6 mm)	—	.68 lbs. (.31 kg)	5.52 in. (140.2 mm)	.25 in. (6.4 mm)	—	—	—	—	—
203	2	2	.37 in. (9.4 mm)	3 in. (76.2 mm)	.25 to 4.5 in. (6.4 to 114.3 mm)	—	1.12 lbs. (.51 kg)	7 in. (177.8 mm)	.31 in. (8 mm)	—	—	—	—	—
103	3	2	.37 in. (9.4 mm)	3 in. (76.2 mm)	.25 to 4.5 in. (6.4 to 114.3 mm)	—	1.3 lbs. (.59 kg)	7 in. (177.8 mm)	.31 in. (8 mm)	—	—	—	—	—
204	2	2	.5 in. (12.7 mm)	4 in. (102 mm)	.5 to 5 in. (13 to 127 mm)	20 ft./lb. (27 N•m)	3.2 lbs. (1.5 kg)	10.05 in. (255.3 mm)	.62 in. (15.8 mm)	¾ in. (19 mm)	P-4	X-4	—	—
104	3	5	.5 in. (12.7 mm)	4 in. (102 mm)	.5 to 5 in. (13 to 127 mm)	40 ft./lb. (54 N•m)	4.1 lbs. (1.9 kg)	10.05 in. (255.3 mm)	.62 in. (15.8 mm)	¾ in. (19 mm)	P-4	X-4	—	—
206	2	6	.62 in. (15.8 mm)	6 in. (152 mm)	.5 to 7 in. (13 to 178 mm)	75 ft./lb. (101 N•m)	7 lbs. (3.2 kg)	13.32 in. (338.3 mm)	.75 in. (19 mm)	¾ in. (19 mm)	P-6	X-6	—	10654T
106	3	10	.62 in. (15.8 mm)	6 in. (152 mm)	.5 to 7 in. (13 to 178 mm)	130 ft./lb. (176 N•m)	8 lbs. (3.6 kg)	13.32 in. (338.3 mm)	.75 in. (19 mm)	¾ in. (19 mm)	P-6	X-6	—	10654T
208	2	12	.75 in. (19 mm)	8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)	150 ft./lb. (203 N•m)	12 lbs. (5.4 kg)	16.25 in. (412.8 mm)	.88 in. (22.2 mm)	1 in. (25.4 mm)	P-10	X-10	11054/11054L	11054T
108	3	17	.75 in. (19 mm)	8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)	220 ft./lb. (297 N•m)	14 lbs. (6.4 kg)	16.25 in. (412.8 mm)	.88 in. (22.2 mm)	1 in. (25.4 mm)	P-10	X-10	11054/11054L	11054T
210	2	14	.75 in. (19 mm)	9.67 in. (246 mm)	1 to 15 in. (25 to 381 mm)	175 ft./lb. (237 N•m)	13 lbs. (5.9 kg)	20.41 in. (518.4 mm)	1 in. (25.4 mm)	1 in. (25.4 mm)	P-10	X-10	11054L	11054T
110	3	20	.75 in. (19 mm)	9.67 in. (246 mm)	1 to 15 in. (25 to 381 mm)	275 ft./lb. (372 N•m)	16 lbs. (7.3 kg)	20.41 in. (518.4 mm)	1 in. (25.4 mm)	1 in. (25.4 mm)	P-10	X-10	11054L	11054T
213	2	25	1.12 in. (28.5 mm)	12 in. (305 mm)	2.5 to 18 in. (64 to 457 mm)	475 ft./lb. (642 N•m)	38 lbs. (17.3 kg)	27.25 in. (692.2 mm)	1.25 in. (32 mm)	1¼ in. (32 mm)	P-13/16	—	11354L	—
113	3	30	1.12 in. (28.5 mm)	12 in. (305 mm)	2.5 to 18 in. (64 to 457 mm)	600 ft./lb. (811 N•m)	44 lbs. (19.9 kg)	27.25 in. (692.2 mm)	1.25 in. (32 mm)	1¼ in. (32 mm)	P-13/16	—	11354L	—
216	2	35	1.25 in. (32 mm)	14 in. (356 mm)	3 to 25 in. (76 to 635 mm)	800 ft./lb. (1,081 N•m)	57 lbs. (25.9 kg)	32.04 in. (813.8 mm)	1.50 in. (38 mm)	1½ in. (38 mm)	P-13/16	—	11654L	—
116	3	40	1.25 in. (32 mm)	14 in. (356 mm)	3 to 25 in. (76 to 635 mm)	850 ft./lb. (1,149 N•m)	68 lbs. (30.9 kg)	32.04 in. (813.8 mm)	1.50 in. (38 mm)	1½ in. (38 mm)	P-13/16	—	11654L	—

*Tip Protectors come standard with Models 204-116.

INTERNAL PULLERS

Model Number	Number of Jaws	Jaw Style	Maximum Reach A in. (mm)	Jaw Length in. (mm)	Spread Range B in. (mm)	Slide Hammer Weight lbs. (kg)	Dimensions			Optional
							C Overall Length in. (mm)	D Slide Rod Diameter in. (mm)	E Jaw Width in. (mm)	Slide Hammer Weight lbs. (kg)
PMI6	3	Standard Long	5.87 in. (149.1 mm) 7.70 in. (195.6 mm)	6.62 in. (168.1 mm) 8.62 in. (218.9 mm)	.56 to 4 in. (14.2 to 101.6 mm) 1 to 5.25 in. (25.4 to 133.4 mm)	2.5 lbs. (1.13 kg) 2.5 lbs. (1.13 kg)	29 in. (736.6 mm) 31 in. (787.4 mm)	.52 in. (13.2 mm) .52 in. (13.2 mm)	.33 in. (8.4 mm) .33 in. (8.4 mm)	5 lbs. (2.27 kg) 5 lbs. (2.27 kg)



Visit our website for more information and product selection charts regarding puller sets and individual puller components.

Tool Board Sets



PM4 Manual Puller Set
5- to 20-Ton Capacity

- 1 - Model 104 (3-Jaw 4 in. 5-Ton)
- 1 - Model 106 (3-Jaw 6 in. 10-Ton)
- 1 - Model 206 (2-Jaw 6 in. 6-Ton)
- 1 - Model 110 (3-Jaw 10 in. 20-Ton)
- 1 - P4 (Tip Protector)
- 2 - P6 (Tip Protectors)
- 1 - P10 (Tip Protector)
- 1 - Tool Board & Accessories

The PM4 set includes all items listed above.
Tool Board Size: 16 x 26 in. (406 to 660 mm)
Weight: 42 lbs. (19.1 kg)



PM5 Manual Puller Set
2- to 20-Ton Capacity

- 1 - Model 103 (3-Jaw 3 in. 2-Ton)
- 1 - Model 104 (3-Jaw 4 in. 5-Ton)
- 1 - Model 106 (3-Jaw 6 in. 10-Ton)
- 1 - Model 206 (2-Jaw 6 in. 6-Ton)
- 1 - Model 110 (3-Jaw 10 in. 20-Ton)
- 1 - P4 (Tip Protector)
- 2 - P6 (Tip Protectors)
- 1 - P10 (Tip Protector)
- 1 - Tool Board & Accessories

The PM5 set includes all items listed above.
Tool Board Size: 16 x 26 in. (406 to 660 mm)
Weight: 51 lbs. (23.2 kg)



PMW Manual Puller Set
1- to 2-Ton Capacity

- 1 - Model 102 (3-Jaw 2.25 in. 1-Ton)
- 1 - Model 202 (2-Jaw 2.25 in. 1-Ton)
- 1 - Model 103 (3-Jaw 3 in. 2-Ton)
- 1 - Model 203 (2-Jaw 3 in. 2-Ton)
- 1 - Tool Board & Accessories

PMW set includes all items listed above.
Tool Board Size: 16 x 26 in. (406 x 660 mm)
Weight: 8 lbs. (3.6 kg)

Customize your own Tool Board

Posi Lock Puller's tool board sets are ideal for retail display as well as shop tool storage. Featured above are some of our most popular, standard board sets. You can customize your own tool board from the manual puller chart below.

Model Number	Number of Jaws	Capacity Tons	Maximum Reach in. (mm)
202	2	1	2.25 in. (57 mm)
102	3	1	2.25 in. (57 mm)
203	2	2	3 in. (76.2 mm)
103	3	2	3 in. (76.2 mm)
204	2	2	4 in. (102 mm)
104	3	5	4 in. (102 mm)
206	2	6	6 in. (152 mm)
106	3	10	6 in. (152 mm)
208	2	12	8 in. (203 mm)
108	3	17	8 in. (203 mm)
210	2	14	9.67 in. (246 mm)
110	3	20	9.67 in. (246 mm)

PMI6 Internal Slide Hammer Puller Set



The PMI6 Internal Slide Hammer Puller set is ideal for the removal of many tough internal pulling jobs such as crankshaft pilot bearings, bearing cups, needle bearings, bushings, seals, and grease retainers.

- 1 - Model 105 (3-Jaw Internal Puller)
- 1 - Model 10561 (Slide Rod)
- 1 - Model 10562 (2.5 lb. Hammer) (1.13 kg)
- 1 - Model L5 (Set of 3 Long Jaws)
- 1 - Tool Board & Accessories

PMI6 set includes all items listed above.
Tool Board Size: 16 x 26 in. (406 x 660 mm)
Weight: 15 lbs. (6.8 kg)
Optional: Model 10563 (5 lb. Hammer) (2.27 kg)

Interchangeability is Essential

Posi Lock has the versatility to meet many internal and external pulling jobs. Interchangeability is essential in removing internal pilot bearings, bearing cups, bushings and seals...plus external bearings, bearing races, pulleys, and many other press-fit items from one compact set.

The redesigned, patented steel safety Cage houses both internal and external jaws by simply removing the ball lock pins. Giving the jawhead a 1/3-turn and replacing with desired jaws, you can go from internal to external in just minutes.

Puller Sets in Carrying Cases

Set Number	Description	Pullers in Set	Accessories Included	Optional Accessories	Carrying Case
TB-1045	Internal/External Slide Hammer Puller Set	104 105	Tip Protector - P4 Slide Rod - 10561 2.5 lb. (1.13 kg) Hammer - 10562 Internal Puller Long Jaw Set - L5	5 lb. (2.27 kg) Hammer - 10563 Small Hub Collar - HP-30 Large Hub Collar - HP-40 Extra Large Hub Collar - HP-50 Tip Reducer/Extender - HP-70	Yes
TK-107	4-in-1 Puller Set	107	Tip Protector - P4 Bolt Extender - X4 Standard Internal Puller Jaws - 10554 Slide Rod - 10561 2.5 lb. (1.13 kg) Hammer - 10562 Internal Puller Long Jaw Set - L5	5 lb. (2.27 kg) Hammer - 10563 Small Hub Collar - HP-30 Large Hub Collar - HP-40 Extra Large Hub Collar - HP-50 Tip Reducer/Extender - HP-70	Yes

Adding optional items increases the versatility of the TB-1045 and TK-107 sets. The 5 lb. hammer adds pulling power for the tough job. The hub collar's unique design will remove fans, blower wheels and bearings.

TB-1045 Internal/External Slide Hammer Puller Set



TK-107 4-in-1 Puller Set



PMW-1 Manual Puller Set 1- to 2-Ton Capacity

The PMW-1 set is the perfect kit for working on the following applications:

- Lawn & Garden Equipment
- Motorcycles
- Power Steering Pump Pulley
- Alternator Pulley
- Aircraft
- Golf Carts
- Boat Motors
- Snowmobiles
- Printing Presses
- Fax/Copier Machines
- Pressure Washers
- Air Tools
- Many Other Uses

- 1 - Model 102 (3-Jaw 2.25 in. 1-Ton)
- 1 - Model 202 (2-Jaw 2.25 in. 1-Ton)
- 1 - Model 103 (3-Jaw 3 in. 2-Ton)
- 1 - Model 203 (2-Jaw 3 in. 2-Ton)
- 1 - Carrying Case

PMW-1 set includes all items listed above.
Tool Box Size: 12 x 17 x 5 in. (305 x 432 x 127 mm)
Weight: 8 lbs. (3.6 kg)



2- and 3-Jaw Transmission Bearing Pullers

Transmission bearing removal takes minutes, not hours when using Posi Lock's TJ-1 or TJ-2 Transmission Bearing pullers. Jaws clamp in snap-ring grooves as narrow as .070 inches to allow removal of front input shaft bearings on 1955-to-present, 3-speed, 4-speed, 5-speed, 3-speed

overdrive and 4-speed overdrive manual transmissions on rear wheel drive foreign and domestic cars, trucks, and vans. Other uses: Transfer cases on 4-wheel-drive vehicles, some output shaft bearings and numerous other applications on any vehicle.



Model	Description	Reach in. (mm)	Spread in. (mm)	Weight lbs. (kg)	Tip Protector	Optional Accessories
TJ-1	2-Jaw Transmission Bearing Puller	9.25 in. (235 mm)	2.75 to 14.75 in. (70 to 375 mm)	12 lbs. (5.4 kg)	P10	TJ-1 Bolt Extender
TJ-1 Standard Jaws (optional)		8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)			
TJ-1 Standard Long Jaws (optional)		10 in. (254 mm)	2.25 to 15 in. (57 to 381 mm)			
TJ-1 Standard Extra Long Jaws (optional)		16 in. (406 mm)	1.5 to 22 in. (38 to 559 mm)			
TJ-2	3-Jaw Transmission Bearing Puller	5.25 in. (133 mm)	1 to 6.75 in. (25 to 171 mm)	8 lbs. (3.6 kg)	P6	TJ-2 Bolt Extender Slide Rod Adaptor Slide Rod 2.5 lb. Slide Hammer 5.0 lb. Slide Hammer
TJ-2 Standard Jaws (optional)		6 in. (152 mm)	.5 to 7 in. (13 to 178 mm)			

CH3

The CH3 aids in the removal of harmonic damper pulleys without having to remove the radiator. The compact design allows access in tight, hard-to-reach areas. Saves time and money when working on Chrysler/Dodge/Plymouth:

- 1990-Present: Vans with a 3.3L
- 1993-1997: Automobiles with a 3.3L or 3.5L
- 1994-Present: Vans with a 3.8L
- 1995-Present: Automobiles with a 2.0L, 2.4L or 2.5L

Weight: 2.8 lbs. (1.27 kg)



Posi Lock® forged parts carry a lifetime warranty. All other Posi Lock parts and components are guaranteed for one year against defects in materials and workmanship to meet the exacting standards and requirements of professional maintenance. Every product manufactured and/or sold by Posi Lock found to be defective (by the factory) in either material or workmanship, will be repaired or replaced. The foregoing constitutes the only warranty made by the company. Furthermore, any product that has been abused, worn out, heated, ground or otherwise altered, or used for a purpose other than for which it was intended, will not be covered by the guarantee.

If you have a question about our warranty or a question regarding repair of a puller, please contact Posi Lock at 800-533-5761.

NOTICE: Posi Lock reserves the right to make changes in design or construction of tools and equipment without obligation to incorporate such changes in tools and equipment previously sold.

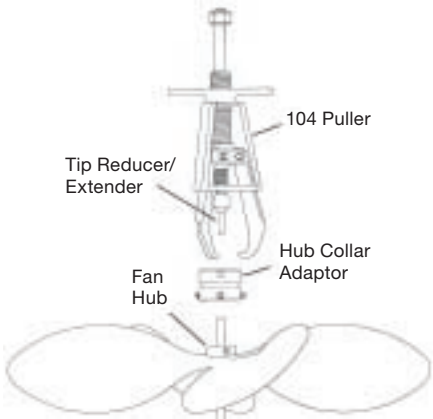
Hub Puller Sets in Carrying Cases

Posi Lock's Hub Puller Adaptors simplify the removal of many industrial and automotive fans and blower wheels by providing a solid connection between the puller and fan hub.

The collar adaptor secures the Model 104 puller to hubs up to 3-inch diameter. Set screws grip the hub to hold and align the collar adaptor. The puller jaws are tightened securely into the hub collar groove, eliminating slippage during fan and blower wheel removal.

Our unique hub collar design allows our general purpose puller to be utilized on the following equipment:

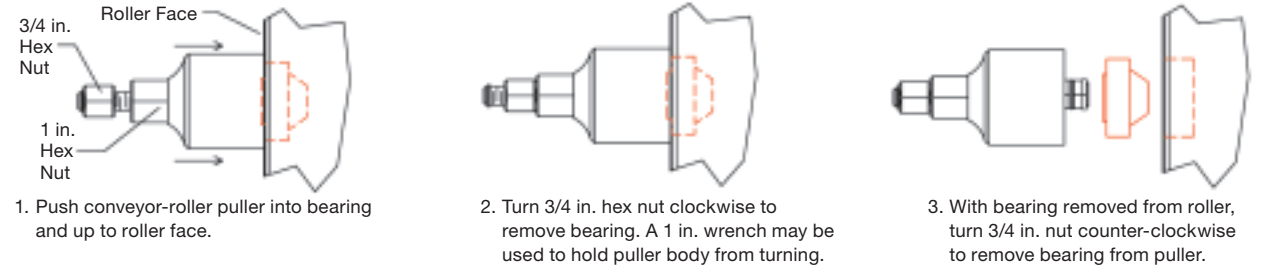
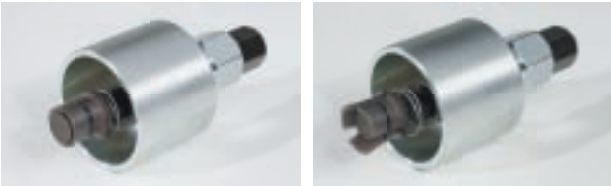
- Chillers
- Freezers
- Condensers
- Ice Machines
- Furnace Fans
- Convection Ovens
- Ice Cream Machines
- Exhaust and Ventilating Fans
- Auto/Truck Heater, Defroster, and AC Fans
- Plus, much, much, more...



Model	Description	Pullers In Set	Accessories Included	Optional Accessories	Carrying Case
HP-1	Hub Puller Adaptor Set	—	Small Collar Adaptor - HP-30 Large Collar Adaptor - HP-40 Tip Reducer/Extender - HP-70	Extra Large Hub Collar - HP-50	Yes
HP-2	Hub Puller Adaptor Set	104	Small Collar Adaptor - HP-30 Large Collar Adaptor - HP-40 Tip Reducer/Extender - HP-70	Extra Large Hub Collar - HP-50	Yes

CB100

The CB100 was specifically designed for removing 504 conveyor-roller bearings without damaging the conveyor roller. The compact design offers a self-locking, self-aligning, quick-release feature. This puller will eliminate the need for many of the more expensive collet-style pullers.



Hydraulic Pullers

Posi Lock’s hydraulic pullers are the preferred choice of professionals around the world. Ideal for many uses, Posi Lock adds efficiency to a job that can often be frustrating and labor intensive. Posi Lock hydraulic pullers are available in 2- or 3-jaw models and range from 5- to 100-ton capacity. Known for safety, high quality, durability, and ease of use, our pullers are designed to help you extend bearing life in your applications through proper installation, removal and service.

PHA Series
Contains: Puller Iron, Ram Points, Lift Plate



Model Number	Capacity	Number of Jaws	Reach	Spread	Optional Long Jaws	Reach with Long Jaws	Spread with Long Jaws	Optional Leveling Arm Bracket Set	Optional Hydraulic Lift Cart	Optional Storage Transport Cart
	Tons		in. (mm)	in. (mm)		in. (mm)	in. (mm)			
PHA-206	5	2	6 in. (152.4 mm)	.5 to 8 in. (12.7 to 203.2 mm)	—	—	—	—	—	—
PHA-106	5	3	6 in. (152.4 mm)	.5 to 8 in. (12.7 to 203.2 mm)	—	—	—	—	—	—
PHA-208	10	2	8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)	11054/11054L	9.8 in. (249 mm)/16 in. (406 mm)	2.3 to 15.8 in. (58 to 401 mm)/1.5 to 22 in. (38 to 559 mm)	—	—	—
PHA-108	10	3	8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)	11054/11054L	9.8 in. (249 mm)/16 in. (406 mm)	2.3 to 15.8 in. (58 to 401 mm)/1.5 to 22 in. (38 to 559 mm)	—	—	—
PHA-210	15	2	10 in. (254 mm)	1 to 15 in. (25 to 381 mm)	11054L	16 in. (406 mm)	1.5 to 22 in. (38 to 559 mm)	PH-1210	—	—
PHA-110	15	3	10 in. (254 mm)	1 to 15 in. (25 to 381 mm)	11054L	16 in. (406 mm)	1.5 to 22 in. (38 to 559 mm)	PH-1110	—	—
PHA-213	25	2	12 in. (305 mm)	2.5 to 18 in. (64 to 457 mm)	11354L	20 in. (508 mm)	1.5 to 30 in. (38 to 762 mm)	PH-1213	PT-3050	PT-2550
PHA-113	25	3	12 in. (305 mm)	2.5 to 18 in. (64 to 457 mm)	11354L	20 in. (508 mm)	1.5 to 30 in. (38 to 762 mm)	PH-1113	PT-3050	PT-2550
PHA-216	50	2	14 in. (356 mm)	3 to 25 in. (76 to 635 mm)	PH-21654L	26 in. (660 mm)	2 to 38 in. (51 to 965 mm)	PH-1216	PT-3050	PT-2550
PHA-116	50	3	14 in. (356 mm)	3 to 25 in. (76 to 635 mm)	PH-11654L	26 in. (660 mm)	2 to 38 in. (51 to 965 mm)	PH-1116	PT-3050	PT-2550

PHB Series
Contains: Puller Iron, Ram Points, Lift Plate, Hydraulic Cylinder



Model Number	Capacity Tons	Number of Jaws	Reach in. (mm)	Spread in. (mm)	Optional Long Jaws	Reach with Long Jaws in. (mm)	Spread with Long Jaws in. (mm)	Optional Leveling Arm Bracket Set	Optional Hydraulic Lift Cart	Optional Storage Transport Cart
PHB-206	5	2	6 in. (152.4 mm)	.5 to 8 in. (12.7 to 203.2 mm)	—	—	—	—	—	—
PHB-106	5	3	6 in. (152.4 mm)	.5 to 8 in. (12.7 to 203.2 mm)	—	—	—	—	—	—
PHB-208	10	2	8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)	11054/11054L	9.8 in. (249 mm)/16 in. (406 mm)	2.3 to 15.8 in. (58 to 401 mm)/1.5 to 22 in. (38 to 559 mm)	—	—	—
PHB-108	10	3	8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)	11054/11054L	9.8 in. (249 mm)/16 in. (406 mm)	2.3 to 15.8 in. (58 to 401 mm)/1.5 to 22 in. (38 to 559 mm)	—	—	—
PHB-210	15	2	10 in. (254 mm)	1 to 15 in. (25 to 381 mm)	11054L	16 in. (406 mm)	1.5 to 22 in. (38 to 559 mm)	PH-1210	—	—
PHB-110	15	3	10 in. (254 mm)	1 to 15 in. (25 to 381 mm)	11054L	16 in. (406 mm)	1.5 to 22 in. (38 to 559 mm)	PH-1110	—	—
PHB-213	25	2	12 in. (305 mm)	2.5 to 18 in. (64 to 457 mm)	11354L	20 in. (508 mm)	1.5 to 30 in. (38 to 762 mm)	PH-1213	PT-3050	PT-2550
PHB-113	25	3	12 in. (305 mm)	2.5 to 18 in. (64 to 457 mm)	11354L	20 in. (508 mm)	1.5 to 30 in. (38 to 762 mm)	PH-1113	PT-3050	PT-2550
PHB-216	50	2	14 in. (356 mm)	3 to 25 in. (76 to 635 mm)	PH-21654L	26 in. (660 mm)	2 to 38 in. (51 to 965 mm)	PH-1216	PT-3050	PT-2550
PHB-116	50	3	14 in. (356 mm)	3 to 25 in. (76 to 635 mm)	PH-11654L	26 in. (660 mm)	2 to 38 in. (51 to 965 mm)	PH-1116	PT-3050	PT-2550

PHMS Series
Contains: Puller Iron, Ram Points, Lift Plate, Hydraulic Cylinder, Manual Pump, Gauge Adapter, 10,000 PSI Gauge, Male Coupler with dust cap, 10-foot heavy-duty Hose



Model Number	Capacity Tons	Number of Jaws	Reach in. (mm)	Spread in. (mm)	Optional Long Jaws	Reach with Long Jaws in. (mm)	Spread with Long Jaws in. (mm)	Optional Leveling Arm Bracket Set	Optional Hydraulic Lift Cart	Optional Storage Transport Cart
PHMS-206	5	2	6 in. (152.4 mm)	.5 to 8 in. (12.7 to 203.2 mm)	—	—	—	—	—	—
PHMS-106	5	3	6 in. (152.4 mm)	.5 to 8 in. (12.7 to 203.2 mm)	—	—	—	—	—	—
PHMS-208	10	2	8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)	11054/11054L	9.8 in. (249 mm)/16 in. (406 mm)	2.3 to 15.8 in. (58 to 401 mm)/1.5 to 22 in. (38 to 559 mm)	—	—	—
PHMS-108	10	3	8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)	11054/11054L	9.8 in. (249 mm)/16 in. (406 mm)	2.3 to 15.8 in. (58 to 401 mm)/1.5 to 22 in. (38 to 559 mm)	—	—	—
PHMS-210	15	2	10 in. (254 mm)	1 to 15 in. (25 to 381 mm)	11054L	16 in. (406 mm)	1.5 to 22 in. (38 to 559 mm)	PH-1210	—	—
PHMS-110	15	3	10 in. (254 mm)	1 to 15 in. (25 to 381 mm)	11054L	16 in. (406 mm)	1.5 to 22 in. (38 to 559 mm)	PH-1110	—	—
PHMS-213	25	2	12 in. (305 mm)	2.5 to 18 in. (64 to 457 mm)	11354L	20 in. (508 mm)	1.5 to 30 in. (38 to 762 mm)	PH-1213	PT-3050	PT-2550
PHMS-113	25	3	12 in. (305 mm)	2.5 to 18 in. (64 to 457 mm)	11354L	20 in. (508 mm)	1.5 to 30 in. (38 to 762 mm)	PH-1113	PT-3050	PT-2550
PHMS-216	50	2	14 in. (356 mm)	3 to 25 in. (76 to 635 mm)	PH-21654L	26 in. (660 mm)	2 to 38 in. (51 to 965 mm)	PH-1216	PT-3050	PT-2550
PHMS-116	50	3	14 in. (356 mm)	3 to 25 in. (76 to 635 mm)	PH-11654L	26 in. (660 mm)	2 to 38 in. (51 to 965 mm)	PH-1116	PT-3050	PT-2550

PHES Series
Contains: Puller Iron, Ram Points, Lift Plate, Hydraulic Cylinder, 2 Stage Electric Pump, Gauge Adapter, 10,000 PSI Gauge, Male Coupler with dust cap, 10-foot heavy-duty Hose



Model Number	Capacity Tons	Number of Jaws	Reach in. (mm)	Spread in. (mm)	Optional Long Jaws	Reach with Long Jaws in. (mm)	Spread with Long Jaws in. (mm)	Optional Leveling Arm Bracket Set	Optional Hydraulic Lift Cart	Optional Storage Transport Cart
PHES-206	5	2	6 in. (152.4 mm)	.5 to 8 in. (12.7 to 203.2 mm)	—	—	—	—	—	—
PHES-106	5	3	6 in. (152.4 mm)	.5 to 8 in. (12.7 to 203.2 mm)	—	—	—	—	—	—
PHES-208	10	2	8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)	11054/11054L	9.8 in. (249 mm)/16 in. (406 mm)	2.3 to 15.8 in. (58 to 401 mm)/1.5 to 22 in. (38 to 559 mm)	—	—	—
PHES-108	10	3	8 in. (203 mm)	.75 to 12 in. (19 to 305 mm)	11054/11054L	9.8 in. (249 mm)/16 in. (406 mm)	2.3 to 15.8 in. (58 to 401 mm)/1.5 to 22 in. (38 to 559 mm)	—	—	—
PHES-210	15	2	10 in. (254 mm)	1 to 15 in. (25 to 381 mm)	11054L	16 in. (406 mm)	1.5 to 22 in. (38 to 559 mm)	PH-1210	—	—
PHES-110	15	3	10 in. (254 mm)	1 to 15 in. (25 to 381 mm)	11054L	16 in. (406 mm)	1.5 to 22 in. (38 to 559 mm)	PH-1110	—	—
PHES-213	25	2	12 in. (305 mm)	2.5 to 18 in. (64 to 457 mm)	11354L	20 in. (508 mm)	1.5 to 30 in. (38 to 762 mm)	PH-1213	PT-3050	PT-2550
PHES-113	25	3	12 in. (305 mm)	2.5 to 18 in. (64 to 457 mm)	11354L	20 in. (508 mm)	1.5 to 30 in. (38 to 762 mm)	PH-1113	PT-3050	PT-2550
PHES-216	50	2	14 in. (356 mm)	3 to 25 in. (76 to 635 mm)	PH-21654L	26 in. (660 mm)	2 to 38 in. (51 to 965 mm)	PH-1216	PT-3050	PT-2550
PHES-116	50	3	14 in. (356 mm)	3 to 25 in. (76 to 635 mm)	PH-11654L	26 in. (660 mm)	2 to 38 in. (51 to 965 mm)	PH-1116	PT-3050	PT-2550

PHS-108/PHS-208 Posi Lock Self-Contained 12-Ton Hydraulic Pullers

The PHS-108/PHS-208 have many applications for all industries. These powerful, self-contained pulling systems are ideal for pulling a wide variety of press-fit parts, including bearings, gears, bushings, wheels and pulleys. You get the ease of a manual puller with the power of hydraulics.

Features and Benefits:

- 12 tons of pulling force
- Self-contained hydraulic pump and cylinder
- Easy hand-pumping hydraulic action
- Swiveling, adjustable-length handle
- T-handle clamps jaws securely
- Forged and heat-treated jaws for superior strength
- 3.3-inch (83 mm) ram stroke

PHS-108/PHS-208 Sets includes:

- Self-contained pump/cylinder with pump handle
- Puller assembly with standard-length jaws
- Extension rod with centering tip
- 1.9-inch (48 mm) extension rod
- 2.9-inch (74 mm) extension rod x 2



MODEL PHS-108/PHS-208

Model Number	Capacity Tons	Number of Jaws	Maximum Reach in. (mm)	Spread Range in. (mm)	Height in. (mm)	Weight lbs. (kg)
PHS-108	12	3	8 in. (203 mm)	0.75 to 12 in. (19 to 305 mm)	24.5 in. (622 mm)	38 lbs. (17.24 kg)
PHS-208	12	2	8 in. (203 mm)	0.75 to 12 in. (19 to 305 mm)	24.5 in. (622 mm)	36 lbs. (16.33 kg)
		OPTIONS				
		Long Jaws	9.8 in. (249 mm)	2.3 to 15.8 in. (58 to 401 mm)	26 in. (660 mm)	2.5 lbs. (1.13 kg) each jaw
		Extra-long Jaws	16 in. (406 mm)	1.5 to 22 in. (38 to 559 mm)	30.5 in. (775 mm)	4.5 lbs. (2.05 kg) each jaw
		Extension Rod			1.9 in. (48 mm) 2.9 in. (74 mm)	

PT-3050 Hydraulic Lift Cart

The PT-3050 was designed for efficiency and safety for the technician. Conveniently stores and transports hydraulic pullers and accessories. Available with 25- and 50-ton pullers. (Puller not included.)



Cart is shown with PHA-116 (sold separately)

Weight: 97 lbs. (44 kg)
Length: 39 in. (990.6 mm)
Width: 32 in. (812.8 mm)
Height: 6.5 in. (165.1 mm)
Lowest height: 10 in. (254 mm)
Highest height: 41.5 in. (1054 mm)

PT-2550 Puller Transport Cart

Conveniently stores and transports hydraulic pullers and accessories. (Puller not included.)



Cart is shown with PHA-113 (sold separately)

Weight: 63 lbs. (28.6 kg)

Posi Lock 100-Ton Hydraulic Pullers

Posi Lock's 100-ton hydraulic pullers provide maximum pulling force in applications requiring high-force removal of large gears, pulleys, wheels, sleeves and other press-fit parts.

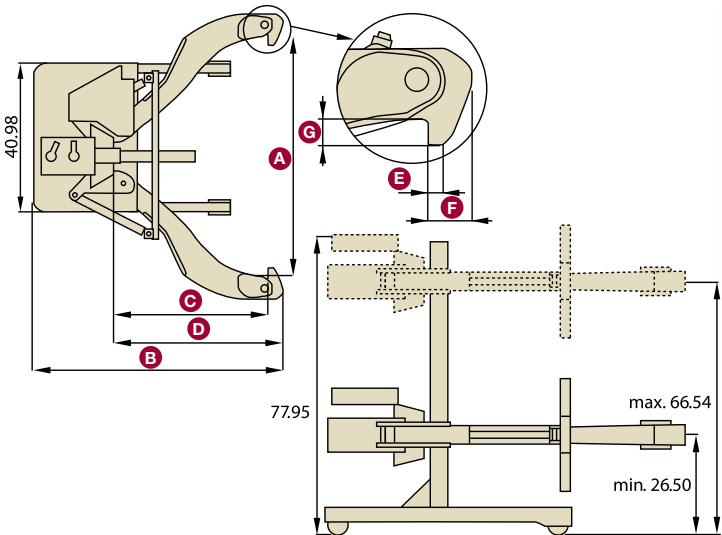


Features and Benefits:

- 10,000 PSI electric two-stage pump
 - Remote jog switch with 10-foot cord (3.05 m)
 - 100-ton cylinder 10,000 PSI with spring return (10.25-inch stroke)
 - Hydraulic-powered lift on cart extends puller from ground to height of 5 feet (1.52 m)
 - Jaws are hydraulically controlled with cylinders
 - Multiple pushing adaptors
 - 1 - 3.5-inch diameter x 9-inch (89 mm x 229 mm)
 - 1 - 3.5-inch diameter x 19-inch (89 mm x 483 mm)
 - 1 - 3.5-inch diameter x 29-inch (89 mm x 737 mm)
 - 1 Coupler
 - Removable transport cart
 - Puller can be used in horizontal or vertical positions
 - Adjustable jaw tips
 - Adjustable jaw guides
- Options:
- Double acting 100-ton cylinder is available upon request
 - Specialized jaw tips available

Portable 100-Ton Pullers

Number of Jaws	Capacity Tons	Model Number	Dimensions							Weight lbs. (kg)
			Spread Range A in. (mm)	Overall Length B in. (mm)	Maximum Reach C in. (mm)	Jaw Length D in. (mm)	Jaw Tip Width E in. (mm)	Tip Clearance F in. (mm)	Tip Depth G in. (mm)	
2	100	PH-102T	7.5 to 70 in. (191 to 1778 mm)	77 in. (1956 mm)	50 in. (1219 mm)	53 in. (1346 mm)	1.25 in. (32 mm)	3.5 in. (89 mm)	3.5 in. (89 mm)	1700 lbs. (71 kg)
3	100	PH-100T	7.5 to 70 in. (191 to 1778 mm)	77 in. (1956 mm)	50 in. (1219 mm)	53 in. (1346 mm)	1.25 in. (32 mm)	3.5 in. (89 mm)	3.5 in. (89 mm)	1950 lbs. (885 kg)
2/3	100	PH-123T	7.5 to 70 in. (191 to 1778 mm)	77 in. (1956 mm)	50 in. (1219 mm)	53 in. (1346 mm)	1.25 in. (32 mm)	3.5 in. (89 mm)	3.5 in. (89 mm)	2000 lbs. (907 kg)



Posi Lock Hydraulic Bench Vise

Posi Lock’s revolutionary hydraulic bench vise provides 5 TONS of clamping force, plus an air control valve for variable speed and safety. Operated by a 10,000 PSI foot pump in either a horizontal or vertical position, this vise allows you to have two free hands for your project. You can easily complete repetitive, heavy, oversized, awkward or multi-piece jobs. The PHV859A gives you enough power to crush a half-inch nut, yet precisely clamp an egg.



Features and Benefits:

- 5 tons of clamping power
- Hands-free operation with foot pump control
- Air control valve for variable speed and added safety
- Cast steel construction: 52,600 PSI tensile strength
- Operates in vertical and horizontal positions
- Jaws are 8 inches wide, and open to 8 inches
- Replaceable jaw plates
- Hydraulic pressure closes jaws
- Spring return opens jaws

Hydraulic Bench Vise includes:

- 5-ton hydraulic vise
- Air-over-hydraulic 10,000 PSI foot pump with air control valve
- Optional manual foot pump
- 10,000 PSI gauge
- 10-foot hydraulic hose
- Set of Posi Lock Hold-Ets magnetic vise clips

Air supply required when using hydraulic pump (90-175 PSI recommended). May be used with other 10,000 PSI hydraulic pumps. Five-year limited warranty on vise. Hydraulic components have a limited lifetime warranty.

HE-3 Hold-Ets Magnetic Vise Clips

Hold-Ets magnetically hold sockets for assembling and disassembling universal joints and many other jobs.

Our product not only has superior magnetic locking power but also the ability to hold items such as sockets, screws, c-clips, etc., firmly in place, allowing “Free Hands” for clamping the vise.



Features and Benefits:

- Holds 5½ pounds vertically and 2¾ pounds horizontally
- Makes removal of u-joint a one man operation
- Fits all vises
- Rigid aluminum construction
- Eliminates the need for extra hands
- Holds sockets no matter what type of drive
- Use as a jaw liner for non-marking material
- Holds screws, rings, c-clips, springs and many other shapes and sizes for repair projects
- Holds threaded objects rigid without damage to threads

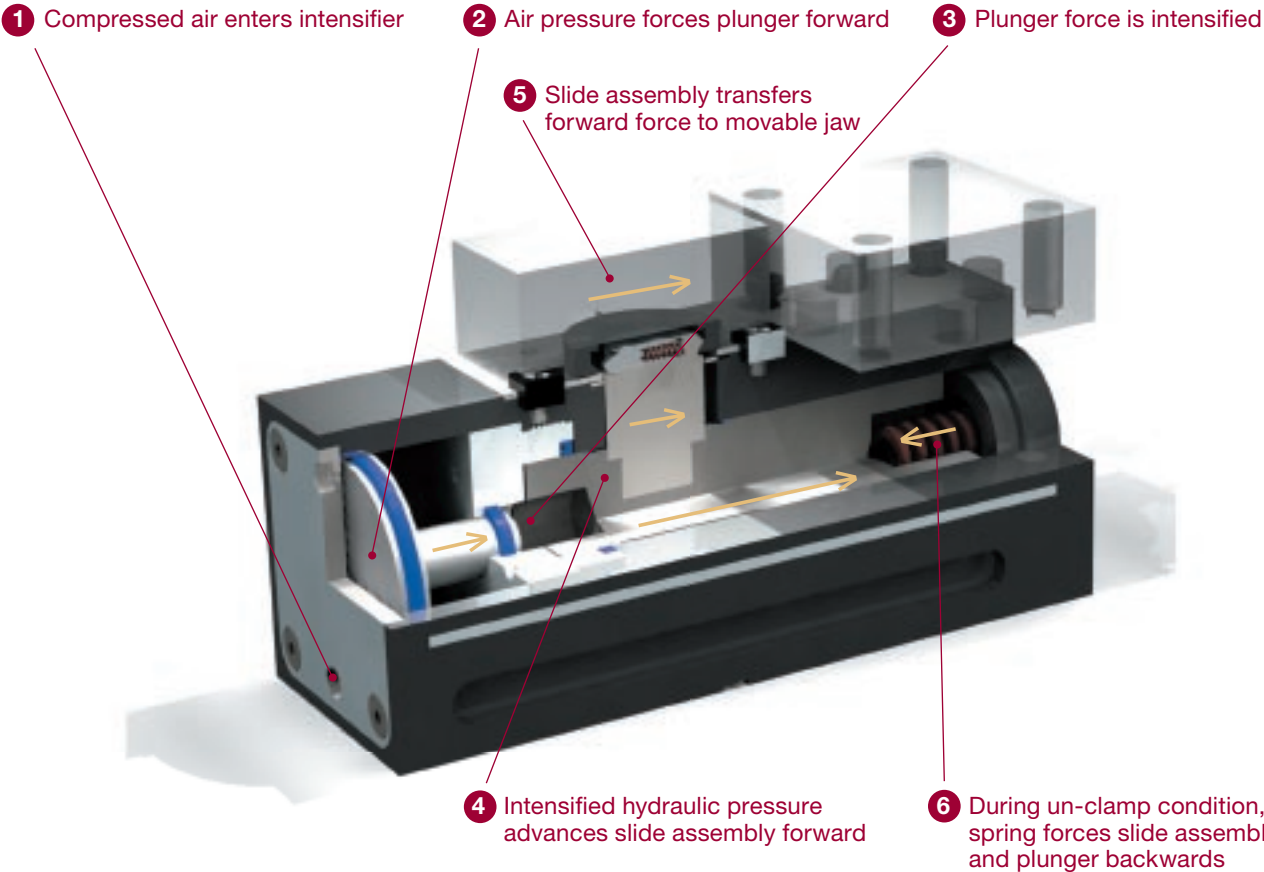
Posi Lock MVP5 Machinist Vise

The new design of Posi Lock’s MVP5 machinist vise is revolutionary! The vise uses shop air pressure to produce up to 6,000 pounds of clamping force. Its built-in power intensifier eliminates the need for clumsy and expensive add-on power sources. Setups with the MVP5 are accurate and repeatable within .001 inch. The 90° indexable jaws give users four machinable sides, and are both anti-lift and quick-change in design. Jaw sets are available in aluminum or steel. With the safe, fast and effortless operation of the MVP5, expect to see enhanced efficiencies, productivity and worker satisfaction.



Features and Benefits:

- Built-in power source
- 0-6,000 pounds of clamping force
- Self-contained safety relief valve
- Completely sealed design
- All wear components are hard-coated
- Lightweight aluminum design dampens vibrations
- Low maintenance
- Accurate and repeatable set-ups within .001 inch
- Anti-lift jaw design
- 90° indexable jaws (4 usable sides)
- Low-profile mounts for maximum machinable jaw height
- Tested a million-and-a-half cycles
- Low maintenance-critical vise components are completely sealed from contaminants

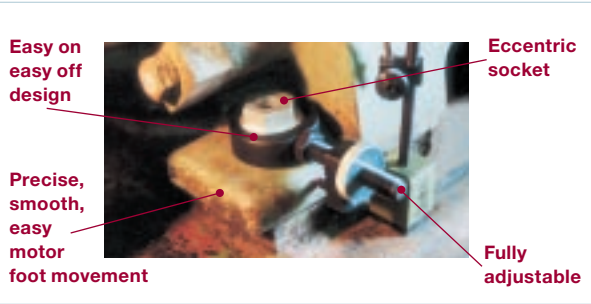


Horizontal Alignment Tool Sets

All-in-one, go-anywhere portable jack bolt set. Use the smooth power of an eccentric socket to turn rotary motion into controlled, precise linear movement. By rotating the eccentric socket, linear movement is transferred to the motor foot, creating a precise movement to the desired alignment position.

Because aligning rotating machinery is not just about precision measuring, it is also about precision moving, Posi Lock is providing you with our SIDE ALIGN.

If you have precise measuring equipment, let SIDE ALIGN provide you with the ability to make precise horizontal adjustments within .001 or closer.



Portable SIDE ALIGN sets make aligning your motors, pumps, and gear boxes safe, quick and easy. Eliminate the use of jack bolts, frames and heavy hammers to try to move equipment to the tolerances you demand.

AT-1104
2-300 HP

Securing bolt sizes:
3/8 to 3/4 in.
(9.4 to 19 mm)

Weight: 12 lbs.
(5.5 kg)



AT-1108
2-300 HP+

Securing bolt sizes:
3/8 to 1 1/4 in.
(9.4 to 32 mm)

Weight: 32 lbs.
(14.5 kg)



Motor Alignment Undercut Bolt Sets

Virtually eliminates the problem of “Bolt Binding.” This innovative precision undercut bolt and washer system helps reduce downtime and increase productivity by helping you achieve and maintain perfect alignment faster and easier than ever before.

Features and Benefits:

- Hardened, grade-8 bolts
- Through-hardened, plated washers
- Precisely machined
- Custom sets available
- Maximum clearance



UB200

Diameters:
5/16 to 1/2 in.
(7.9 to 12.7 mm)

Lengths:
1 1/4 to 2 in.
(32 to 50.8 mm)

Weight: 12 lbs.
(5.5 kg)



UB300

Diameters:
5/16 to 3/4 in.
(14 to 19mm)

Lengths:
1 1/2 to 2 1/2 in.
(38 to 63.5 mm)

Weight: 33 lbs.
(15 kg)



ALIGNMENT TOOL RANGE					ECCENTRIC SOCKET SIZES					MOTOR APPLICATION RANGE				CONTENTS	
Model	Contents of Set	Actuator Socket Required	Tool Range Min.	Max.	Model	Contents of Set	Actuator Socket Size	Stud Hole Size	Wrench Size	HP	AC Motor Frame	DC Motor Frame	Securing Bolt Size	AT-1104	AT-1108
ATN-1	2	ES-1	13/16 in.	1 5/8 in.	ES-1	2	9/16 in.	3/8 in.	5/8 in.	2-30	182-286TS	182A-288A	3/8 -1/2 in.	✓	✓
ATN-2	2	ES-2	7/8 in.	2 in.	ES-2	2	3/4 in.	9/16 in.	7/8 in.						
ATN-3	2	ES-3, ES-4	7/8 in.	2 5/8 in.	ES-3	2	15/16 in.	5/8 in.	1 1/4 in.	20-300	324T-449TS	323A-368A	5/8 -3/4 in.	✓	✓
					ES-4	2	1 1/8 in.	3/4 in.	1 1/4 in.						
ATN-4	2	ES-5, ES-6	1 1/2 in.	4 1/2 in.	ES-5	2	1 5/16 in.	7/8 in.	1 5/8 in.	300+	5040-505S	403A-448A	7/8 -1 in.		✓
					ES-6	2	1 1/2 in.	1 in.	1 5/8 in.						
ATN-5	2	ES-7, ES-8	1 7/8 in.	6 1/8 in.	ES-7	2	1 11/16 in.	1 1/8 in.	2 in.	300+	400M-8211S	503A-688A	1 1/8 -1 1/4 in.		✓
					ES-8	2	1 7/8 in.	1 1/4 in.	2 in.						

ALSO AVAILABLE IN METRIC SIZE SETS

The companies listed below use Posi Lock alignment tools and undercut bolts:

Sprague Paperboard	General Electric	Johnson Controls	GSA	Armco
Nestle Frozen Foods	Huneke Associates	Alcoa	Franklin Square Hospital	Eastman Kodak
Illinois Electric	Weyerhaeuser Paper Co.	Amoco	Dow Chemical	Owens Corning
John Deere	Proctor and Gamble	Westinghouse	Wisconsin Power and Light	Consumers Energy
PGE	Asarco Inc.	Palisades Nuclear Plant	Stone Container Corp.	Alabama Power
Scott Papers	Midwest Power	Niagara Mohawk Power Corp.	Monsanto	Millstone Nuclear
Hutchinson Tech.	International Paper	Mead Corporation	Shell Offshore	Power System
Ford Motor Company	Fraser Paper	John Hopkins University	Shell Western	Royster-Clark
Texaco Refining	Gaylord Chemical	Duke Power Co.	Thomas Hill Energy Center	Entergy-Nuclear NE
Amerada Hess Corp.	Champion International	Toray	Caterpillar	

P/N	SIZE	DESCRIPTION
U1425	7/8 in. Dia. x 2-1/2 in.	Undercut Bolt
U1427	7/8 in. Dia. x 2-3/4 in.	Undercut Bolt
U1430	7/8 in. Dia. x 3 in.	Undercut Bolt
U1625	1 in. Dia. x 2-1/2 in.	Undercut Bolt
U1627	1 in. Dia. x 2-3/4 in.	Undercut Bolt
U1630	1 in. Dia. x 3 in.	Undercut Bolt
U1835	1-1/8 in. Dia. x 3-1/2 in.	Undercut Bolt
U1840	1-1/8 in. Dia. x 4 in.	Undercut Bolt
U1845	1-1/8 in. Dia. x 4-1/2 in.	Undercut Bolt
U2035	1-1/4 in. Dia. x 3-1/2 in.	Undercut Bolt
U2040	1-1/4 in. Dia. x 4 in.	Undercut Bolt
U2045	1-1/4 in. Dia. x 4-1/2 in.	Undercut Bolt
UW14	7/8 in. Dia.	Hardened Washer
UW16	1 in. Dia.	Hardened Washer
UW18	1-1/8 in. Dia.	Hardened Washer
UW20	1-1/4 in. Dia.	Hardened Washer

Design a custom set from the large selection of undercut bolts and washers listed above.

P/N	SIZE	DESCRIPTION	UB200 QTY	UB300 QTY
U5125	5/16 in. Dia. x 1-1/4 in.	Undercut Bolt	12	—
U5150	5/16 in. Dia. x 1-1/2 in.	Undercut Bolt	12	—
U6125	3/8 in. Dia. x 1-1/4 in.	Undercut Bolt	12	—
U6150	3/8 in. Dia. x 1-1/2 in.	Undercut Bolt	12	—
U8150	1/2 in. Dia. x 1-1/2 in.	Undercut Bolt	12	—
U8175	1/2 in. Dia. x 1-3/4 in.	Undercut Bolt	12	—
U8200	1/2 in. Dia. x 2 in.	Undercut Bolt	12	—
U9150	9/16 in. Dia. x 1-1/2 in.	Undercut Bolt	—	12
U9200	9/16 in. Dia. x 2 in.	Undercut Bolt	—	12
U9250	9/16 in. Dia. x 2-1/2 in.	Undercut Bolt	—	12
U1020	5/8 in. Dia. x 2 in.	Undercut Bolt	—	12
U1022	5/8 in. Dia. x 2-1/4 in.	Undercut Bolt	—	12
U1025	5/8 in. Dia. x 2-1/2 in.	Undercut Bolt	—	12
U1220	3/4 in. Dia. x 2 in.	Undercut Bolt	—	12
U1222	3/4 in. Dia. x 2-1/4 in.	Undercut Bolt	—	12
U1225	3/4 in. Dia. x 2-1/2 in.	Undercut Bolt	—	12
UW5	5/16 in. Dia.	Hardened Washer	24	—
UW6	3/8 in. Dia.	Hardened Washer	24	—
UW8	1/2 in. Dia.	Hardened Washer	36	—
UW9	9/16 in. Dia.	Hardened Washer	—	36
UW10	5/8 in. Dia.	Hardened Washer	—	36
UW12	3/4 in. Dia.	Hardened Washer	—	36

Manual Puller Parts List								
COMPONENTS	102/202	103/203	104/204	106/206	108/208	110/210	113/213	116/216
Cage® - 3 Jaw	10253	10353	10453	10653	10853	11053	11353	11653
Cage® - 2 Jaw	20253	20353	20453	20653	20853	21053	21353	21653
Jaw	10254	10354	10454	10654	10854	11054	11354	11654
Jaw Head Assembly (3 Jaw)	10255	10355	10455	10655	10855	11055	11355	11655
Jaw Head Assembly (2 Jaw)	20255	20355	20455	20655	20855	21055	21355	21655
Pin	10256	10356	10456	10656	11056	11056	11356	11356
T-Handle	10257	10357	10457	10657	11057	11057	11357	11657
Center Bolt	10258	10358	10458	10658	10858	11058	11358	11658
Snap Ring	10259	10359	10459	10659	11059	11059	11359	11659
OPTIONAL COMPONENTS	102/202	103/203	104/204	106/206	108/208	110/210	113/213	116/216
Long Jaw	—	—	—	—	11054	11054L	11354L	11654L
Extra Long Jaw	—	—	—	—	11054L	—	—	—
Transmission Jaw	—	—	—	10654T	11054T	11054T	—	—
Tip Protector	—	—	P4	P6	P10	P10	P13/16	P13/16
Bolt Extender	—	—	X4	X6	X10	X10	—	—
Slide Rod	—	—	10561	10561	—	—	—	—
Slide Rod Adapter	—	—	—	10661	—	—	—	—
2.5 lb. Slide Rod Hammer	—	—	10562	10562	—	—	—	—
5.0 lb. Slide Hammer	—	—	10563	10563	—	—	—	—
Tip Reducer/Extender	—	—	HP-70	—	—	—	—	—

CB100 Parts List	
COMPONENTS	CB 100
Body Assembly	CB 4051
Cap	CB 4052
Hex Nut	CB 4053
Jaw Assembly (4)	CB 4054
O Ring	CB 4055
Snap Ring (L)	CB 4056
Snap Ring (S)	CB 4057
Shaft	CB 4058
Spring	CB 4059

CH3 Parts List	
COMPONENTS	CH3
Jaw	10454
Jaw Head Assembly (3 Jaw)	CH10451
Pin	10456
Center Bolt	CH704
Crankshaft Adapter	CH2024
Tip Protector	P4
Bolt Extender	X4
Engine Adaptor 2.0L, 2.5L	CH2024

Hydraulic Puller Parts List					
COMPONENTS	PH106/206	PH108/208	PH110/210	PH113/213	PH116/216
Cage® - 3 Jaw	PH-10653	PH-10853	PH-11053	PH-11353	PH-11653
Cage® - 2 Jaw	PH-20653	PH-20853	PH-21053	PH-21353	PH-21653
Jaw	10654	10854	PH-11054	11354	PH-11654/PH-21654
Jaw Head Assembly (3 Jaw)	PH-10655	PH-10855	PH-11055	PH-11355	PH-11655
Jaw Head Assembly (2 Jaw)	PH-20655	PH-20855	PH-21055	PH-21355	PH-21655
Pin	11056	PH-10856	PH-11056	11356	PH-11656/PH-21656
T-Handle	PH-10657	PH-10857	PH-11057	PH-11357	PH-11657
Snap Ring	11659	PH-10859	PH-11059	PH-11359	PH-11659
OPTIONAL COMPONENTS	PH106/206	PH108/208	PH110/210	PH113/213	PH116/216
Long Jaw	—	11054	PH-11054L	11354L	PH-11654L/PH-21654L
Long Jaw Sets	—	L0/L2	PL-5/PL-7	L-8/L-10	PL-13/PL-15
Extra Long Jaw	—	11054L	—	—	—
Extra Long Jaw Sets	—	L4/L6	—	—	—
Leveling Arm & Bracket Set	—	—	PH-1110/PH-1210	PH-1113/PH-1213	PH-1116/PH-1216
Hydraulic Lift Cart	—	—	—	PT-3050	PT-3050
Storage Transport Cart	—	—	—	PT-2550	PT-2550

PHES, PHMS, PHAS, PHB, PHA Set Parts List	PH106/206	PH108/208	PH110/210	PH113/213	PH116/216
Ton Cylinder	RC-55	RC-106	PH-1510	PH-2514	PH-5013
Interchangeable Ram Points	PH-5-3	PH-15-5	PH-15-5	PH-25-7	PH-50-8
Guard Lift Plate	PH-10652	PH-11052	PH-11052	PH-11352	PH-11652
Hydraulic Accessories for PHES, PHMS, PHAS	PH106/206	PH108/208	PH110/210	PH113/213	PH116/216
Gauge Adapter	PH-3	PH-3	PH-3	PH-3	PH-3
10,000 PSI Gauge	PH-2535	PH-2535	PH-2535	PH-2535	PH-2535
Male Coupler	PHCH-604	PHCH-604	PHCH-604	PHCH-604	PHCH-604
Hose	PH-927	PH-927	PH-927	PH-927	PH-927
Pumps	PH106/206	PH108/208	PH110/210	PH113/213	PH116/216
PHAS Set - Air Pump	PH-1150	PH-1150	PH-1150	PH-1150	PH-1022
PHMS Set - 2 Stage Hand Pump	PH-142	PH-142	PH-80	PH-80	PH-462
PHES Set - 2 Stage Electric Pump	PH-1200	PH-1200	PH-1200	PH-1200	PH-2022

Hydraulic Bench Vise Parts List	
COMPONENTS	PHV859A
Hydraulic Pump	BVA-PA 1500
Air Regulator/Control Valve	WS 10
Gauge Adapter	PH-3
Pressure Gauge	PH-2535
Female Coupler	PHCR-400
Male Coupler	PHCR-604
10 ft. Hydraulic Hose	PH-927
Jaw Plate Sets	PHV800-1
Swivel Base	PHV800-5

PHS-108/PHS-208 Parts List	
COMPONENTS	PHS-108/PHS-208
Cage® - 3 Jaw	PH-10853
Cage® - 2 Jaw	PH-20853
Jaw	10854
PHS-108 Jaw Head Base	PH-10855H
PHS-208 Jaw Head Base	PH-20855H
Pin	PH-10856
T-Handle	PH-10857
Snap Ring	PH-10859
Extension Rod 1.9 in. (48 mm)	E1414
Extension Rod 2.9 in. (48 mm)	E1165
OPTIONAL COMPONENTS	PHS-108/PHS-208
Long Jaw	11054
Extra Long Jaw	11054L



Visit our website for more information and product selection charts regarding puller sets and individual puller components.

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Prices: Prices are subject to change without notice. Orders will be filled at prices in effect on the day of shipment, plus all applicable local, state and federal taxes. Clerical errors are subject to correction.

Return Goods: No returns may be made without first receiving our consent. A 25% restocking charge will be made against all merchandise returned. An additional 25% restocking charge will be made against all merchandise returned without prior consent or sent in freight collect. All merchandise returned must be in salable condition.