

POSI LOCK®

GEAR & BEARING PULLER

THE PULLER THAT MEETS THE CHALLENGE

CATALOG #5015

REVISED DECEMBER 2003



THE FEATURES OF THE POSI LOCK® PULLER MAKE IT THE SAFEST AND EASIEST PULLER IN THE INDUSTRY!

The reason for the safety and ease of use is our control Cage® which holds the pulling jaws securely in either open or closed positions. This patented feature prevents the jaws of the puller from slipping off of the work surface, thus, substantially increasing productivity, tool life and safety for the technician.

THE CAGE® IS THE KEY

Since 1978, Posi Lock® has provided you with high quality pullers in the automotive, agricultural and industrial markets.

Now, 25 years later, we are still providing the same high quality pullers, however, we have added to our product line.

With an eye on the future, we have not lost sight of our most important asset ... you, the customer!

Manual Pullers

Posi Lock® has the best manual pullers on the market today for safety and quality.

Hydraulic Pullers

Posi Lock® created the hydraulic puller to make your job quick and easy. If you have a hard job, let our hydraulic line make it easier.

Specialty Tools

Posi Lock® has many specialty tools for specific jobs. If you need help finding the right tool for that hard job, we can help.

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Remove failed ball bearing by clamping in the ball groove of bearing race. (Model 106)



Jaws clamp in snap ring groove of transmission input shaft bearing for easy removal. (Model TJ-2)



Gear removal from pump (Model 104)

<< POSI LOCK ADVANTAGE >> ROLLED CENTER BOLT THREADS ARE DESIGNED FOR LESS EFFORT WHEN APPLYING HIGH TORQUE.



FOR ALL YOUR PULLER NEEDS,
POSI LOCK® HAS YOU COVERED
FROM 1 TO 100 TONS.



Washing machine clutch removal (Model 103)



Hub removal from splined shaft (Model 106)



Flywheel removal from snowmobile engine (Model 204)

<<POSI LOCK ADVANTAGE>> ROLLED CENTER BOLT THREADS ARE DESIGNED FOR LESS EFFORT WHEN APPLYING HIGH TORQUE



POSI LOCK® GEAR AND BEARING PULLERS

The POSI LOCK line of quality manual gear and bearing pullers sets new standards for quickness, ease and convenience. Posi Lock offers a complete line of 2 and 3 jaw pullers (manual and hydraulic). The manual pullers range from 1 to 40 ton capacity. The hydraulic pullers range from 5 to 100 ton capacity. In addition to the complete line of pullers, accessory items are also available.

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 is all done automatically by simply turning the T-handle.

ADVANTAGES:

1. Rolled center bolt threads are designed for less effort when applying high torque.
2. Heat-treated tip.
3. T-handle locks jaws precisely where you set them.
4. Slim tapered jaws allow for better gripping and easier access in tight spots.
5. Safety Cage® guides jaws for fast set-up, solid contact and superior safety.
6. Nut recessed to avoid mushrooming and disfiguring from impact.
7. Leverage up front for positive grip, vise-like power and no slippage.
8. Live center tip protector and optional bolt extender lock on center bolt for additional protection and added reach.





U-joint removal and installation made effortless
(Model 204)



Steering linkage removal (Model 204)



Alternator pulley removal (Model 106)



Compressor pulley removal (Model 106)



Lock on ball grooves and bearing races
(Model 104)



Steering arm removal (Model 210)

POSI LOCK® PULLER, INC.

"Seize the opportunity" has always been the philosophy of a growing North Dakota company, Posi Lock Puller, Inc. "805 Sunflower Avenue: Where great things are happening."

If you were to drive through Cooperstown, located 90 miles northwest of Fargo, you couldn't help but notice the Posi Lock facility. Its office building is surrounded by a multitude of vehicles and two large warehouses. One has to wonder what is going on at 805 Sunflower Avenue.

It all began in 1974, in the small, east-central North Dakota town of McHenry. There, Dean Somerville was operating a machinery repair shop and had a farming operation. 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," in reference to its unparalleled clamping design. Its popularity spread quickly, and Dean converted his repair shop into an assembly and distribution facility to keep up with increasing sales. His wife, Peggy, did the accounting work and helped on the assembly line.

In 1984, during an exciting growth period, Posi Lock Puller suffered the loss of its facility when a fire completely destroyed the building and all of its contents. With his "never surrender" attitude, Dean purchased a building in Cooperstown and kept the demand for his pullers satisfied.

Posi Lock Puller, Inc. is known throughout the country as being reputable, hard-working and dedicated to the quality of their products and services. The company's mission statement says it all:

"To offer the most unique 'fun' customer service and sales support to our valued channels of distribution while producing superior lines of products in our chose industries and creating a corporate culture of innovation, pride and prosperity."

In 2002, Posi Lock Puller, Inc. became the first North Dakota company to be presented with the Export Achievement Certificate from the U.S. Department of Commerce. Only 13 companies in a five-state area have received this award. In quantity of weight, Posi Lock Puller, Inc. has been the number one export company with UPS in North Dakota for the past five years, as well as in the top 10 percent nationwide for the past 20 years.

With an eye on the future, Posi Lock continues its aggressive research and development of products and accessory items to "MEET THE CHALLENGE" in the industrial, automotive and agricultural markets. At Posi Lock, one will always find a highly skilled, motivated team focused on the goal of providing excellent products and service without losing sight of its most important asset...THE CUSTOMER!

BASIC MANUAL PULLER SAFETY RULES:

1. Always use pullers with safety Cage® design to reduce possible injury from puller jaws flying off or snapping back.
2. Always select the proper gear puller for each pulling job. Always use a gear puller equal to or larger than required.
3. Before use, center bolt should be lubricated with high pressure grease or graphite-based lubricant.
4. Always wear safety goggles when using gear pullers.
5. Always use hand tools on gear pullers. Avoid the use of air powered tools.
6. Always make sure the gear puller is aligned with the shaft assuring a straight pull during operation.
7. Never alter any part of a gear puller by cutting or grinding. Never apply heat to any gear puller. Applying heat could cause the puller to lose its "strength."
8. Should it become necessary to strike the puller for removal of a stubborn gear or bearing, care should be taken to strike the head of the center bolt squarely. If after one or two sharp blows, the gear or bearing remains stuck, select a larger puller and proceed to remove the gear or bearing.
9. Always clean the gear puller after use and store in a dry place.

**REMEMBER:
OPERATOR
SAFETY
COMES FIRST!**



A significant amount of force can be exerted with a puller. Respect this force and observe safety precautions at all times.

Manual puller center bolt diameter must be at least one-half (1/2) as large as diameter of shaft from which object will be removed.



Posi-Lock pullers are used wherever maintenance requires removal of gears, bearings and sprockets.

MANUAL PULLERS

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

MODEL 102

1 Ton Capacity, 3 Jaw Puller



Reach: 2.25" (57.2mm)

Spread: .25" to 3.25"
(6.4mm to 82.6mm)

Weight: .68 lbs. (.31kg)

MODEL 202

1 Ton Capacity, 2 Jaw Puller



Reach: 2.25" (57.2mm)

Spread: .25" to 3.25"
(6.4mm to 82.6mm)

Weight: .62 lbs. (.28kg)

MODEL 103

2 Ton Capacity, 3 Jaw Puller



Reach: 3" (76.2mm)

Spread: .25" to 4.5"
(6.4 mm to 114.3mm)

Weight: 1.3 lbs. (.59kg)

MODEL 203

2 Ton Capacity, 2 Jaw Puller



Reach: 3" (76.2mm)

Spread: .25" to 4.5"
(6.4mm to 114.3mm)

Weight: 1.12 lbs. (.51kg)

<<POSILOCK ADVANTAGE>> HEAT-TREATED TIP. <<POSILOCK ADVANTAGE>> HEAT-TREATED TIP. <<POSILOCK ADVANTAGE>>



Bearing removal (Model 102)



Alternator pulley removal (Model 103)



Air impact wrench repair (Model 202)



U joint removal (Model 206)



Ball bearing removal (Model 106)

MODEL 104 5 Ton Capacity, 3 Jaw Puller



Reach: 4' (102mm)
Spread: .5" to 5" (13mm to 127mm)
Weight: 4.1 lbs. (1.86kg)
Tip Protector: P4

MODEL 204 2 Ton Capacity, 2 Jaw Puller



Reach: 4' (102mm)
Spread: .5" to 5" (13mm to 127mm)
Weight: 3.2 lbs. (1.46kg)
Tip Protector: P4

Options for Model 104/204:

Bolt Extender, Part # X4 | Slide Rod, Part # 10561 | 2.5 lb. Hammer, Part # 10562 | 5 lb. Hammer, Part # 10563

MODEL 106 10 Ton Capacity, 3 Jaw Puller



Reach: 6' (152mm)
Spread: .5" to 7" (13mm to 178mm)
Weight: 8 lbs. (3.6kg)
Tip Protector: P6

MODEL 206 6 Ton Capacity, 2 Jaw Puller



Reach: 6' (152mm)
Spread: .5" to 7" (13mm to 178mm)
Weight: 7 lbs. (3.2kg)
Tip Protector: P6

Options for Model 106/206:

Bolt Extender, Part # X6 | Transmission Jaws, Part # 10654T | Slide Rod Adaptor, Part # 10661
Slide Rod, Part # 10561 | 2.5 lb. Hammer, Part # 10562 | 5 lb. Hammer, Part # 10563

HEAT-TREATED TIP. <<POSI LOCK ADVANTAGE>> HEAT-TREATED TIP. <<POSI LOCK ADVANTAGE>> HEAT-TREATED TIP. <<POSI



Removing armature bearings, pulleys and couplings in electric motor repair (Model 106)



Model 104 puller with slide hammer



Transmission and rear end yoke removal (Model 206)

"THE CAGE® IS THE KEY"

You will really appreciate this fantastic time saving tool if you have ever had a puller slip off, snap back or needed an additional pair of hands to hold the jaws for set-up. POSI LOCK's Cage® designed pullers provide superior locking power. The "no slip" feature also saves wear and tear on components removed.

Now you are able to choose from standard jaws or optional long jaws for added reach and spread on models 108, 208, 110, 210, 113, 213, 116 and 216.

NOTE: Long jaws will not have the clamping force of standard jaws

MODEL 108 17 Ton Capacity, 3 Jaw Puller

Reach: 8" (203mm)
Spread: .75" to 12"
(19mm to 305mm)
Weight: 14 lbs. (6.4kg)
Tip Protector: P10

MODEL 208 12 Ton Capacity, 2 Jaw Puller

Reach: 8" (203mm)
Spread: .75" to 12"
(19mm to 305mm)
Weight: 12 lbs. (5.4kg)
Tip Protector: P10

Options for Model 108/208:

Long Jaws, Part # 11054; Reach: 10" (254mm); Spread: 1.5" to 15" (38mm to 381mm)
Extra Long Jaws, Part # 11054L; Reach: 16" (406mm); Spread: 2.25" to 22" (56mm to 559mm)
Transmission Jaws, Part # 11054T | Bolt Extender, Part # X10; Increase Center Bolt Length by 1.5" (38mm)

MODEL 110 20 Ton Capacity, 3 Jaw Puller

Reach: 9.67" (246mm)
Spread: 1" to 15"
(25mm to 381mm)
Weight: 16 lbs. (7.3kg)
Tip Protector: P10

MODEL 210 14 Ton Capacity, 2 Jaw Puller

Reach: 9.67" (246mm)
Spread: 1" to 15"
(25mm to 381mm)
Weight: 13 lbs. (5.9kg)
Tip Protector: P10

Options for Model 110/210:

Long Jaws, Part # 11054L; Reach: 16" (406mm); Spread: 1.5" to 22" (38mm to 559mm)
Transmission Jaws, Part # 11054T | Bolt Extender, Part # X10; Increase Center Bolt Length by 1.5" (38mm)



Tapered jaw design allows clamping "around" bearing for a perfect pull (Model 104)



Ball bearing removal with optional long jaws (Model 110)



Drive sprocket removal (Model 116)


MODEL 113 30 Ton Capacity, 3 Jaw Puller


Reach: 12' (305mm)
 Spread: 2.5" to 18"
 (64mm to 457mm)
 Weight: 44 lbs. (19.9kg)
 Tip Protector: P13/16

MODEL 213 25 Ton Capacity, 2 Jaw Puller


Reach: 12' (305mm)
 Spread: 2.5" to 18"
 (64mm to 457mm)
 Weight: 38 lbs. (17.3kg)
 Tip Protector: P13/16

Options for Model 113/213:
 Long Jaws, Part # 11354L; Reach: 20" (508mm); Spread: 1.5" to 30" (38mm to 762mm)

MODEL 116 40 Ton Capacity, 3 Jaw Puller


Reach: 14' (356mm)
 Spread: 3" to 25"
 (76mm to 635mm)
 Weight: 68 lbs. (30.9kg)
 Tip Protector: P13/16

MODEL 216 35 Ton Capacity, 2 Jaw Puller


Reach: 14' (356mm)
 Spread: 3" to 25"
 (76mm to 635mm)
 Weight: 57 lbs. (25.9kg)
 Tip Protector: P13/16

Options for Model 116/216:
 Long Jaws, Part # 11654L; Reach: 25" (635mm); Spread: 2" to 38" (51mm to 965mm)



Tapered roller bearing removal (Model 110)



Tip Protector (standard)
104-216 Manual Pullers



Easy jaw removal
with Posi-Lock's
ball lock pins.



Bolt Extender (optional)
increases center bolt
length by 1.5" (38mm)

PM2

Manual Puller Set, 12 Ton to 17 Ton Capacity

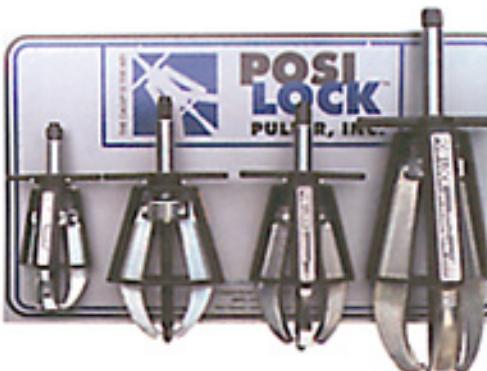


- 1 - Model 108 (3 Jaw 8" 17 Ton)
- 1 - Model 208 (2 Jaw 8" 12 Ton)
- 1 - L20 (2 - 11054T Transmission Jaws)
- 2 - P10 (Tip Protectors)
- 1 - Tool Board & Accessories

The PM2 set includes all items listed above.
Tool Board Size: 16"x26" (406mm to 660mm)
Weight: 36 lbs. (16.3 kg)

PM4

Manual Puller Set, 5 Ton to 20 Ton Capacity



- 1 - Model 104 (3 Jaw 4" 5 Ton)
- 1 - Model 106 (3 Jaw 6" 10 Ton)
- 1 - Model 206 (2 Jaw 6" 6 Ton)
- 1 - Model 110 (3 Jaw 10" 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"x26" (406mm to 660mm)
Weight: 42 lbs. (19.1 kg)

<<POSI LOCK ADVANTAGE>> SAFETY CAGE® GUIDES JAMS FOR FAST SET-UP, SOLID CONTACT, AND SUPERIOR SAFETY.



Shaft removal from automatic transmission clutch housing (Model 110)



Sprocket removal from shaft (Model 208)



Sprocket removal from snowmobile engine (Model 104)

PM4L

Manual Puller Set, 6 Ton to 20 Ton Capacity



- 1 - Model 106 (3 Jaw 6' 10 Ton)
- 1 - Model 206 (2 Jaw 6' 6 Ton)
- 1 - Model 110 (3 Jaw 10' 20 Ton)
- 1 - Model 210 (2 Jaw 10' 14 Ton)
- 2 - P6 (Tip Protectors)
- 2 - P10 (Tip Protectors)
- 1 - Tool Board & Accessories

The PM4L set includes all items listed above.
Tool Board Size: 16"x26" (406mm to 660mm)
Weight: 50 lbs. (22.7kg)

PM4S

Manual Puller Set, 2 Ton to 10 Ton Capacity



- 1 - Model 104 (3 Jaw 4' 5 Ton)
- 1 - Model 204 (2 Jaw 4' 2 Ton)
- 1 - Model 106 (3 Jaw 6' 10 Ton)
- 1 - Model 206 (2 Jaw 6' 6 Ton)
- 2 - P4 (Tip Protectors)
- 2 - P6 (Tip Protectors)
- 1 - Tool Board & Accessories

The PM4S set includes all items listed above.
Tool Board Size: 16"x26" (406mm to 660mm)
Weight: 30 lbs. (13.6kg)

(POSI LOCK ADVANTAGE) > SAFETY CAGE® GUIDES JAMS FOR FAST SET-UP, SOLID CONTACT, AND SUPERIOR SAFETY.



Tapered roller bearing removal (Model 104)



Gear removal from machine (Model 110)



Clutch Removal (Model 204)

PM5

Manual Puller Set, 2 Ton to 20 Ton Capacity



- | | |
|------------------------------|--------------------|
| 1 - Model 103 | (3 Jaw 3" 2 Ton) |
| 1 - Model 104 | (3 Jaw 4" 5 Ton) |
| 1 - Model 106 | (3 Jaw 6" 10 Ton) |
| 1 - Model 206 | (2 Jaw 6" 6 Ton) |
| 1 - Model 110 | (3 Jaw 10" 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" (406mm to 660mm)
Weight: 51 lbs. (23.2kg)

12
PM6

Manual Puller Set, 2 Ton to 20 Ton Capacity



- | | |
|-------------------------------|--------------------|
| 1 - Model 104 | (3 Jaw 4" 5 Ton) |
| 1 - Model 204 | (2 Jaw 4" 2 Ton) |
| 1 - Model 106 | (3 Jaw 6" 10 Ton) |
| 1 - Model 206 | (2 Jaw 6" 6 Ton) |
| 1 - Model 110 | (3 Jaw 10" 20 Ton) |
| 1 - Model 210 | (2 Jaw 10" 14 Ton) |
| 2 - P4 | (Tip Protectors) |
| 2 - P6 | (Tip Protectors) |
| 2 - P10 | (Tip Protectors) |
| 2 - Tool Boards & Accessories | |

The PM6 set includes all items above.
Tool Board Size: 16" x 26" (406mm to 660mm)
Weight: 62 lbs. (28.1kg)



PM10

Manual Puller Set, 2 Ton to 40 Ton Capacity



PM10 set includes all items listed to the right.
Tool Board Size: 16" x 26" (406mm x 660mm)
Weight: 261 lbs. (118.5 kg)

- 1 - Model 104 (3 Jaw 4" 5 Ton)
- 1 - Model 204 (2 Jaw 4" 2 Ton)
- 1 - Model 106 (3 Jaw 6" 10 Ton)
- 1 - Model 206 (2 Jaw 6" 6 Ton)
- 1 - Model 108 (3 Jaw 8" 17 Ton)
- 1 - Model 208 (2 Jaw 8" 12 Ton)
- 1 - Model 110 (3 Jaw 10" 20 Ton)
- 1 - Model 210 (2 Jaw 10" 14 Ton)
- 1 - Model 113 (3 Jaw 12" 30 Ton)
- 1 - Model 213 (2 Jaw 12" 25 Ton)
- 1 - Model 116 (3 Jaw 14" 40 Ton)
- 1 - Model 216 (2 Jaw 14" 35 Ton)
- 2 - P4 (Tip Protectors)
- 2 - P6 (Tip Protectors)
- 4 - P10 (Tip Protectors)
- 2 - Tool Boards & Accessories

PMW-1

Manual Puller Set, 1 Ton to 2 Ton Capacity



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

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

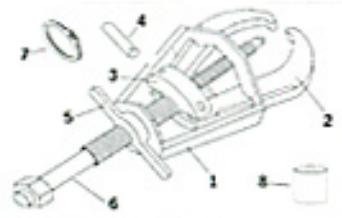
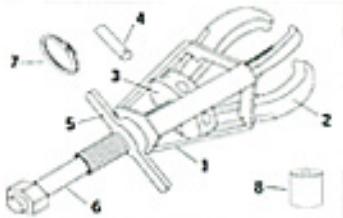
PMW

Manual Puller Set, 1 Ton to 2 Ton Capacity



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

PMW set includes all items listed above.
Tool Board Size: 12" x 22" (305mm x 559mm)
Weight: 8 lbs. (3.6 kg)

**102/202**

Description	Part #	oz.	kg.
1. Cage® - 3 Jaw	10253	2.20	.06
1. Cage® - 2 Jaw	20253	1.70	.05
2. Jaw	10254	.90	.02
3. Jaw Head Assembly	10255	1.50	.04
3. Jaw Head Assembly	20255	1.80	.05
4. Pin	10256	.10	.00
5. THandle	10257	1.20	.03
6. Center Bolt (Dia. 5/16")	10258	1.90	.05
7. Snap Ring	10259	.10	.00

103/203

Description	Part #	oz.	kg.
1. Cage® - 3 Jaw	10353	3.70	.10
1. Cage® - 2 Jaw	20353	2.40	.07
2. Jaw	10354	2.00	.06
3. Jaw Head Assembly	10355	4.10	.11
3. Jaw Head Assembly	20355	4.70	.13
4. Pin	10356	.10	.00
5. THandle	10357	1.30	.03
6. Center Bolt (Dia. 3/8")	10358	3.10	.09
7. Snap Ring	10359	.10	.00

104/204

Description	Part #	lbs.	kg.
1. Cage® - 3 Jaw	10453	1.00	.45
1. Cage® - 2 Jaw	20453	1.00	.45
2. Jaw	10454	1.00	.45
3. Jaw Head Assembly	10455	1.00	.45
3. Jaw Head Assembly	20455	1.00	.45
4. Pin	10456	.40	.18
5. THandle	10457	.40	.18
6. Center Bolt (Dia. 9/16")	10458	1.00	.45
7. Snap Ring	10459	.02	.01
8. Tip Protector	P4	.08	.04
Bolt Extender (Optional)	X4	.20	.09
Slide Rod (Optional)	10561	1.20	.55
2.5 lb. Side Hammer (Opt.)	10562	2.50	1.10
5.0 lb. Side Hammer (Opt.)	10563	5.00	2.27
Tip Reducer/Extender (Opt.)	HP70	.06	.03

106/206

Description	Part #	lbs.	kg.
1. Cage® - 3 Jaw	10653	2.00	.91
1. Cage® - 2 Jaw	20653	1.50	.68
2. Jaw	10654	1.00	.45
3. Jaw Head Assembly	10655	1.50	.68
3. Jaw Head Assembly	20655	1.50	.68
4. Pin	10656	.50	.23
5. THandle	10657	.60	.27
6. Center Bolt (Dia. 5/8")	10658	1.50	.68
7. Snap Ring	10659	.02	.01
8. Tip Protector	P6	.14	.06
Bolt Extender (Optional)	X6	.26	.12
Transmission Jaw (Optional)	10654T	2.50	1.10
Slide Hammer Adaptor (Opt.)	10661	.79	.36
Slide Rod (Optional)	10561	1.70	.77
2.5 lb. Side Hammer (Opt.)	10562	2.50	1.10
5.0 lb. Side Hammer (Opt.)	10563	5.00	2.27

108/208

Description	Part #	lbs.	kg.
1. Cage® - 3 Jaw	10853	2.00	.91
1. Cage® - 2 Jaw	20853	2.00	.91
2. Jaw	10854	2.00	.91
3. Jaw Head Assembly	10855	2.00	.91
3. Jaw Head Assembly	20855	2.00	.91
4. Pin	11056	.50	.23
5. THandle	11057	1.00	.45
6. Center Bolt (Dia. 3/4")	10858	2.00	.91
7. Snap Ring	11059	.02	.01
8. Tip Protector	P10	.18	.08
Bolt Extender (Optional)	X10	.34	.15
Long Jaw (Optional)	11054	2.50	1.14
Extra Long Jaw (Optional)	11054L	4.50	2.04
Transmission Jaw (Optional)	11054T	2.50	1.14

110/210

Description	Part #	lbs.	kg.
1. Cage® - 3 Jaw	11053	3.00	1.36
1. Cage® - 2 Jaw	21053	3.00	1.36
2. Jaw	11054	2.50	1.14
3. Jaw Head Assembly	11055	2.50	1.14
3. Jaw Head Assembly	21055	2.50	1.14
4. Pin	11056	.50	.23
5. THandle	11057	1.00	.45
6. Center Bolt (Dia. 3/4")	11058	2.50	1.14
7. Snap Ring	11059	.02	.01
8. Tip Protector	P10	.18	.08
Bolt Extender (Optional)	X10	.34	.15
Long Jaw (Optional)	11054L	4.50	2.04
Transmission Jaw (Optional)	11054T	2.50	1.14

113/213

Description	Part #	lbs.	kg.
1. Cage® - 3 Jaw	11353	8.00	3.63
1. Cage® - 2 Jaw	21353	7.50	3.41
2. Jaw	11354	4.50	2.04
3. Jaw Head Assembly	11355	7.00	3.18
3. Jaw Head Assembly	21355	7.00	3.18
4. Pin	11356	1.00	.45
5. THandle	11357	2.50	1.13
6. Center Bolt (Dia. 1 1/8")	11358	7.00	3.18
7. Snap Ring	11359	.05	.02
8. Tip Protector	P13/16	.54	.24
Long Jaw (Optional)	11354L	9.00	4.09

116/216

Description	Part #	lbs.	kg.
1. Cage® - 3 Jaw	11653	16.00	7.26
1. Cage® - 2 Jaw	21653	12.00	5.45
2. Jaw	11654	7.50	3.41
3. Jaw Head Assembly	11655	13.00	5.90
3. Jaw Head Assembly	21655	13.00	5.90
4. Pin	11656	1.00	.45
5. THandle	11657	4.50	2.04
6. Center Bolt (Dia. 1 1/4")	11658	10.00	4.54
7. Snap Ring	11659	.05	.02
8. Tip Protector	P13/16	.54	.24
Long Jaw (Optional)	11654L	15.00	6.81

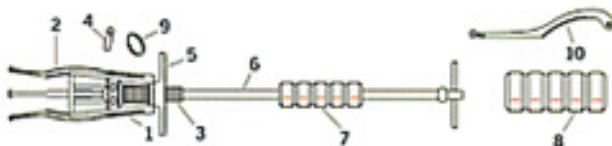


- 1 - Model 105 (3 Jaw Internal Puller)
Reach: 3' (76mm)
Spread: 9/16" to 4" (14mm to 101mm)
- 1 - Model 10561 (Slide Rod)
Length: 24" (609mm)
- 1 - Model 10562 (2.5 lb. Hammer) (1.13kg)
- 1 - Model L5 (Set of 3 Long Jaws)
Reach: 13" (330mm)
Spread: 1" to 5 1/4" (25mm to 133mm)
- 1 - Tool Board & Accessories

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.

PMI6 set includes all items listed above.
Tool Board Size: 16" x 26" (406mm x 660mm)
Weight: 15 lbs. (6.8 kg)

Optional: Model 10563 5 lb. Hammer



Description	Part#	lbs.	kg.
1. Cage®	10553	.70	.32
2. Jaw	10554	.20	.09
3. Jaw Head Assembly	10455	1.00	.45
4. Pin	10456	.40	.18
5. T-Handle	10457	.40	.18
6. Slide Rod	10561	1.70	.77
7. Slide Hammer (2.5 lb.)	10562	2.50	1.10
8. Slide Hammer (5 lb.)	10563	5.00	2.27
9. Snap Ring	10459	.02	.01
10. Long Jaw	10554L	.30	.14

Bushing removal from transmission gear

Oil seal removal from transmission housing

Pilot bearing removal from crankshaft

Bearing cup removal from brake rotor

Bearing cup removal from wheel hub with long jaws and 5 lb. hammer

9/16" min spread for small bearing removal
(Model 105)

INTERCHANGEABILITY IS THE KEY

Posi Lock has the versatility to meet many internal and external pulling jobs.

Interchangeability is the key 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.

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



Bearing cup removal from brake rotor (Model 105)



Blower wheel removal made easy (Model HP-2)

TB-1045

**Internal/External
Slide Hammer Puller Set**



Includes:

- | | |
|-------------------|-------------------------|
| 1 - Model 104 | (3 Jaw 4" 5 Ton Puller) |
| 1 - Model P4 | (Tip Protector) |
| 1 - Model 105 | (3 Jaw Internal Puller) |
| 1 - Model 10561 | (Slide Rod) |
| 1 - Model 10562 | (2.5 lb. Hammer) |
| 1 - Model L5 | (Set of 3 Long Jaws) |
| 1 - Carrying Case | |

TB-1045 set includes all items listed above.

Carrying Case Size: 24" x 16.5" x 4.5"
(610mm x 419mm x 114mm)

Weight: 18.3 lbs. (8.3 kg)

TK-107

4-in-1 Puller Set



Includes:

- | | |
|-------------------|---|
| 1 - Model 107 | (3 Jaw 4" 5 Ton External
Puller with Internal
Capabilities) |
| 1 - Model P4 | (Tip Protector) |
| 1 - Model X4 | (Bolt Extender) |
| 3 - Model 10554 | (Short Internal Puller Jaws) |
| 1 - Model 10561 | (Slide Rod) |
| 1 - Model 10562 | (2.5 lb. Hammer) |
| 1 - Model L5 | (Set of 3 Internal Long Jaws) |
| 1 - Carrying Case | (34" x 8.5" x 4.5") |
| Weight: | 15.8 lbs. |

Optional:

- | | |
|-------------|------------------------|
| Model 10563 | (5 lb. Hammer) |
| Model HP-30 | (Small Collar) |
| Model HP-40 | (Large Collar) |
| Model HP-50 | (Extra Large Collar) |
| Model HP-70 | (Tip Reducer/Extender) |

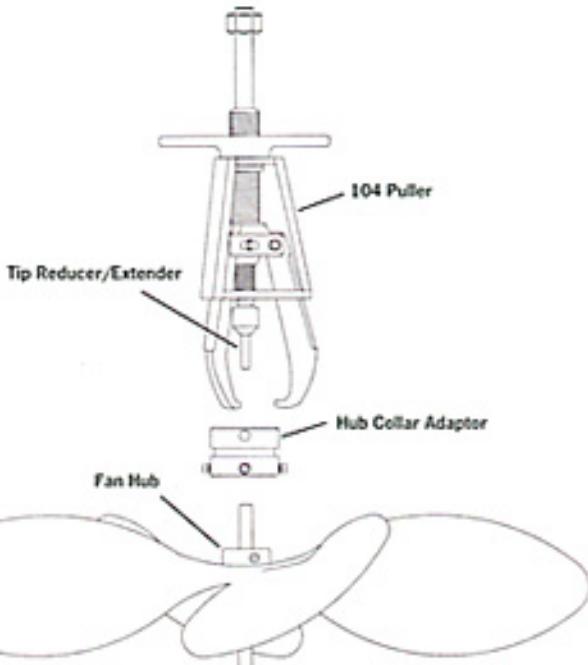
Adding optional items increases the versatility of the TK-107 and TB-1045 sets. The 5 lb. hammer adds pulling power for the tough job. The hub collar's unique design will remove fans, blower wheels and bearings.

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

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...

The collar adaptor secures the model 104 puller to hubs up to 3" in 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.



HP-1 **Hub Puller Adaptor Set**



- 1-Model HP-30 (Small Collar Adaptor)
- 1-Model HP-40 (Large Collar Adaptor)
- 1-Model HP-70 (Tip Reducer/Extender)
- 1-Carrying Case

HP-1 set includes all items listed above.
Carrying Case Size: 8.5" x 7" x 3"
(216mm x 178mm x 76mm)
Weight: 4 lbs. (1.8 kg)

HP-2 **Hub Puller Adaptor Set**

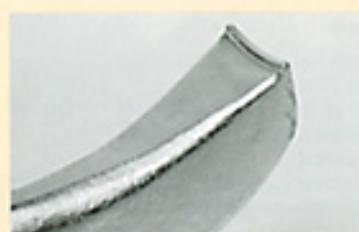


- 1-Model 104 (3 Jaw 4" 5 Ton Puller)
- 1-Model HP-30 (Small Collar Adaptor)
- 1-Model HP-40 (Large Collar Adaptor)
- 1-Model HP-70 (Tip Reducer/Extender)
- 1-Carrying Case

HP-2 set includes all items listed above.
Carrying Case Size: 13" x 9.5" x 5.5"
(330mm x 241mm x 140mm)
Weight: 9 lbs. (4.1 kg)

Optional: Model HP-50 Extra large hub collar adaptor for use on hubs from 2" to 3" in diameter.





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" to allow removal of front input shaft bearings on 1955 - 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.

TJ-1 2 Jaw Transmission Bearing Puller



Reach: 9.25'
Spread: 2.75' to 14.75'
Weight: 12 lbs. (5.4 kg)
Tip Protector: P10

— Optional —

Model TJ-1 Standard Jaws Part # 10854
Reach: 8" (203mm)
Spread: .75" to 12" (19mm to 305mm)

Model TJ-1 Standard Long Jaws Part # 11054
Reach: 10" (254mm)
Spread: 2.25" to 15" (57mm to 381mm)

Model TJ-1 Standard Extra Long Jaws Part # 11054L
Reach: 16" (406mm)
Spread: 1.5" to 22" (38mm to 559mm)

Model TA-1 Bolt Extender

TJ-2 3 Jaw Transmission Bearing Puller



Reach: 5.25'
Spread: 1' to 6.75'
Weight: 8 lbs. (3.6 kg)
Tip Protector: P6

— Optional —

Model TA-2 Standard Lamp Part # 10654

Reach: 6" (152mm)

Model TA-2 Bolt Counter

[Slide Back Adapter](#)

Side Rod

2.5 lb. Side Hammer

5.0 lb. Side Hammer

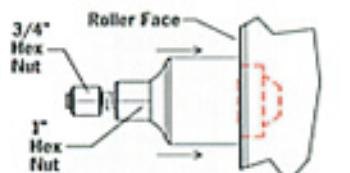
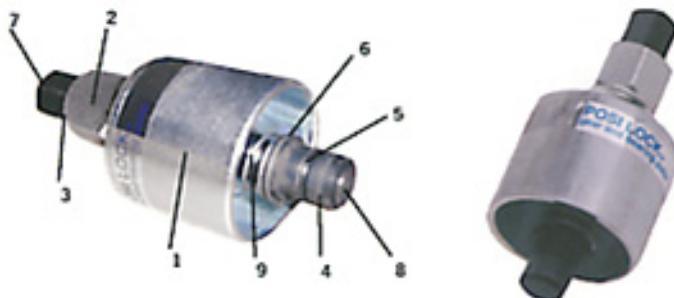
CB100

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.

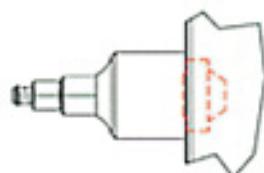
Parts List

1. CB4051 Body Assembly
2. CB4052 Cap
3. CB4053 Hex Nut
4. CB4054 Jaw Assembly
5. CB4055 O Ring
6. CB4056 Snap Ring
7. CB4057 Snap Ring
8. CB4058 Shaft
9. CB4059 Spring
10. Carrying Case

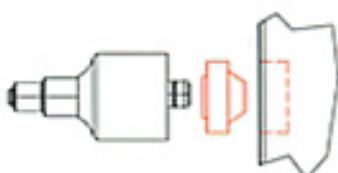
Weight: 3 lbs. (1.362kg)



1. Push conveyor-roller puller into bearing and up to roller face.



2. Turn 3/4" hex nut clockwise to remove bearing. A 1" wrench may be used to hold puller body from turning.



3. With bearing removed from roller, turn 3/4" nut counter-clockwise to remove bearing from puller.

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. (1.27kg)



CH2024 Adaptor

Parts List

- | | |
|-----------|--------------------------------|
| 3 10454 | Jaw for 4" Puller |
| 3 10456 | Ball Lock Pin |
| 1 CH704 | Center Bolt |
| 1 CH10451 | Jaw Head |
| 1 P4 | Tip Protector |
| 1 X4 | Bolt Extender |
| 1 CH2024 | Adaptor for 2.0L, 2.5L Engines |



X4 Bolt Extender



P4 Tip Protector

ALL-IN-ONE, GO ANYWHERE PORTABLE JACK BOLT SETS

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"



AT-1108 2-300 HP+

Securing Bolt Sizes
3/8" to 1-1/4"



ALIGNMENT TOOL RANGE				ECCENTRIC SOCKET SIZES				MOTOR APPLICATION RANGE				CONTENTS		
Model No.	Contents of Set	Actuator Socket Required	Tool Range Min. Max.	Model No.	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
ATN1 2	ES1	13/16"	15/8"	ES1	2	9/16"	3/8"	5/8"	230	182A26TS	182A28SA	3/8"1/2"	✓	✓
				ES2	2	3/4"	9/16"	7/8"						
ATN2 2	ES2	7/8"	2"	ES3	2	15/16"	5/8"	1 1/4"	20300	324T44TS	323A36SA	5/8"3/4"	✓	✓
				ES4	2	1 1/8"	3/4"	1 1/4"						
ATN3 2	ES3, ES4	7/8"	2 5/8"	ES5	2	1 5/16"	7/8"	15/8"	300+	50405055	403A44SA	7/8"1"		✓
				ES6	2	1 1/2"	1"	15/8"						
ATN5 2	ES7, ES8	1 7/8"	6 1/8"	ES7	2	1 11/16"	1 1/8"	2"	300+	400M4211S	503A68SA	1 1/8"1 1/4"		✓
				ES8	2	1 7/8"	1 1/4"	2"						

ALSO AVAILABLE IN METRIC SIZE SETS

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

Sprague Paperboard
Nestle Frozen Foods
Illinois Electric
John Deere
PGE
Scott Papers
Hutchinson Tech.
Ford Motor Company
Texaco Refining
Amerada Hess Corp.

General Electric
Henneke Associates
Weyerhaeuser Paper Co.
Proctor and Gamble
Asarco Inc.
Midwest Power
International Paper
Fraser Paper
Gaylord Chemical
Champion International

Johnson Controls
Alcoa
Westinghouse
Palisades Nuclear Plant
Nagra Mohawk Power Corp.
Mead Corporation
John Hopkins University
Duke Power Co.
Toray

GSA
Franklin Square Hospital
Dow Chemical
Wisconsin Power and Light
Stone Container Corp.
Monsanto
Shell Offshore
Shell Western
Thomas Hill Energy Center
Caterpillar

Armco
Eastman Kodak
Owens Corning
Consumers Energy
Alabama Power
Miltstone Nuclear
Power System
Royster Clark
Energy Nuclear NE

VIRTUALLY ELIMINATES THE PROBLEM OF "BOLT BINDING"

This innovative precision undercut bolt and washer system helps reduce down time and increase productivity by helping you achieve and maintain perfect alignment faster and easier than ever before.

Features:

- Hardened, Grade 8 Bolts
- Precisely Machined
- Maximum Clearance
- Through Hardened, Plated Washers
- Custom Sets Available



UB200

Diameters:
5/16" to 1/2"

Lengths:
1-1/4" to 2"



UB300

Diameters:
9/16" to 3/4"

Lengths:
1-1/2" to 2-1/2"



P/N	SIZE	DESCRIPTION
UE425	7/8" Dia. x 2 1/2"	Undercut Bolt
UE427	7/8" Dia. x 2 3/4"	Undercut Bolt
UE430	7/8" Dia. x 3"	Undercut Bolt
UE625	1" Dia. x 2 1/2"	Undercut Bolt
UE627	1" Dia. x 2 3/4"	Undercut Bolt
UE630	1" Dia. x 3"	Undercut Bolt
U1835	1-1/8" Dia. x 3 1/2"	Undercut Bolt
U1840	1-1/8" Dia. x 4"	Undercut Bolt
U1845	1-1/8" Dia. x 4 1/2"	Undercut Bolt
U2035	1-1/4" Dia. x 3 1/2"	Undercut Bolt
U2040	1-1/4" Dia. x 4"	Undercut Bolt
U2045	1-1/4" Dia. x 4 1/2"	Undercut Bolt
UW14	7/8" Dia.	Hardened Washer
UW16	1" Dia.	Hardened Washer
UW18	1-1/8" Dia.	Hardened Washer
UW20	1-1/4" 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" Dia. x 1 1/4"	Undercut Bolt	12	
U5150	5/16" Dia. x 1 1/2"	Undercut Bolt	12	
U6125	3/8" Dia. x 1 1/4"	Undercut Bolt	12	
U6150	3/8" Dia. x 1 1/2"	Undercut Bolt	12	
U8150	1/2" Dia. x 1 1/2"	Undercut Bolt	12	
U8175	1/2" Dia. x 1 3/4"	Undercut Bolt	12	
U8200	1/2" Dia. x 2"	Undercut Bolt	12	
U9150	9/16" Dia. x 1 1/2"	Undercut Bolt		12
U9200	9/16" Dia. x 2"	Undercut Bolt		12
U9250	9/16" Dia. x 2 1/2"	Undercut Bolt		12
U020	5/8" Dia. x 2"	Undercut Bolt		12
U022	5/8" Dia. x 2 1/4"	Undercut Bolt		12
U025	5/8" Dia. x 2 1/2"	Undercut Bolt		12
U1220	3/4" Dia. x 2"	Undercut Bolt		12
U1222	3/4" Dia. x 2 1/4"	Undercut Bolt		12
U1225	3/4" Dia. x 2 1/2"	Undercut Bolt		12
UW5	5/16" Dia.	Hardened Washer	24	
UW6	3/8" Dia.	Hardened Washer	24	
UW8	1/2" Dia.	Hardened Washer	36	
UW9	9/16" Dia.	Hardened Washer		36
UW10	5/8" Dia.	Hardened Washer		36
UW12	3/4" Dia.	Hardened Washer		36

POSI LOCK'S HYDRAULIC PULLERS

Posi Lock's hydraulic division was created out of customer demand for a system providing the safety of a Cage® controlled puller coupled with the power of hydraulic components.

As the puller market continues its trend toward hydraulics, Posi Lock's innovation is reflected in the following pages by assisting your customers in selecting the proper sets or optional components to meet their maintenance needs.



Model PHE5116



Model PHE5205



Model PHES-113



Model PHES-116



Model PHES-100T



Model PHB-110

FOR ADDED SAFETY. <<POSI LOCK ADVANTAGE>> PATENTED CRAGE DESIGN FOR ADDED SAFETY. <<POSI LOCK ADVANTAGE>> PAT

**REMEMBER:
OPERATOR
SAFETY
COMES FIRST!**



Hydraulic power is one of the safest methods for applying force when used correctly! Below we have provided several common sense rules which pertain to hydraulic pullers.

DO NOT touch or handle hydraulic hoses or fittings with pressure in the system.

DO NOT make or break any hydraulic connection with pressure in the system.

DO NOT make any electrical adjustments with electrical power active in the system.

DO NOT operate hose with sharp bends or kinks. (Discard hose that has been kinked or otherwise damaged.)

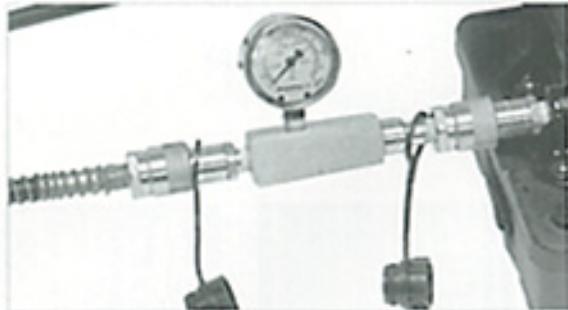
HYDRAULIC PULLERS: The maximum force exerted in tons should be 7 to 10 times the diameter of the shaft, in inches; for example, a 1.5" diameter shaft would generally require a 15 ton puller.

1. Using hydraulic pullers with the safety Cage® design reduces damage to parts and possible injury.
2. Mount the puller so the grip is firm.
3. Be sure the setup is rigid and that the puller is square with the work. Posi Lock Cage® design pullers provide automatic self alignment.
4. Apply force gradually; the part should give a little at a time.
5. If maximum force has been applied (mechanically or hydraulically) and the part has not moved, substitute a larger capacity puller. Resist sledging, a dangerous practice for which the puller was not designed.
6. To assure protection of precision parts, use proper accessories such as ram points.
7. Always wear safety glasses when using a puller.

The benefits of an adequate pulling system can be substantial, but the equipment must be used properly.



Maximize safety by putting distance between the technician and the application with use of the 10' remote switch.



Use hydraulic gauges to assure proper operating pressure. Always operate within rated pressure of the hydraulic equipment.



Carry equipment by the handles provided. Never carry equipment by the hoses or couplers.

PHES-106**Hydraulic Puller Set, 5 Ton Capacity**

- 1 - Model PH-106 (3 Jaw 5 Ton)
- 1 - Model PH-1200 (2 Stage Electric Pump)
- 1 - Model RC-55 (10,000 psi 5 Ton Cylinder)
- 1 - Model PH-3 (Gauge Adaptor)
- 1 - Model PH-2535 (10,000 psi Gauge)
- 1 - Model PHCH-604 (Male Coupler with Dust Cap)
- 1 - Model PH-927 (10 ft. Heavy Duty Hose)
- 1 - Model PH-5-3 (Set of 2 Interchangeable Ram Points)
- 1 - Model PH-10652 (Guard Lift Plate)

PHES-106 set includes all items listed above.

Reach: 6" (152.4mm)

Spread: .5" to 8" (12.7mm to 203.2mm)

Ram Stroke: 5" (127mm)

Rated For: 10,000 psi

Weight: 43.6 lbs. (19.7kg)

PHES-206**Hydraulic Puller Set, 5 Ton Capacity**

- 1 - Model PH-206 (2 Jaw 5 Ton)
- 1 - Model PH-1200 (2 Stage Electric Pump)
- 1 - Model RC-55 (10,000 psi 5 Ton Cylinder)
- 1 - Model PH-3 (Gauge Adaptor)
- 1 - Model PH-2535 (10,000 psi Gauge)
- 1 - Model PHCH-604 (Male Coupler with Dust Cap)
- 1 - Model PH-927 (10 ft. Heavy Duty Hose)
- 1 - Model PH-5-3 (Set of 2 Interchangeable Ram Points)
- 1 - Model PH-10652 (Guard Lift Plate)

PHES-206 set includes all items listed above.

Reach: 6" (152.4mm)

Spread: .5" to 8" (12.7mm to 203.2mm)

Ram Stroke: 5" (127mm)

Rated For: 10,000 psi

Weight: 42 lbs. (19kg)

Options: All hydraulic sets are available as shown or you may add optional components and pumps to meet your needs.



PH-106
3 Jaw 5 Ton Puller
See Page 36



PH-206
2 Jaw 5 Ton Puller
See Page 36



PH-1150
Hydraulic Air Pump



PH-142
Hydraulic Hand Pump



PHMSC-106
with case

PHES-108**Hydraulic Puller Set, 10 Ton Capacity**

- 1 - Model PH-108 (3 Jaw 10 Ton)
- 1 - Model PH-1200 (2 Stage Electric Pump)
- 1 - Model RC-106 (10,000 psi 10 Ton Cylinder)
- 1 - Model PH-3 (Gauge Adaptor)
- 1 - Model PH-2535 (10,000 psi Gauge)
- 1 - Model PHCH-604 (Male Coupler Set with Dust Cap)
- 1 - Model PH927 (10ft. Heavy Duty Hose)
- 1 - Model PH-15-5 (Set of 4 Interchangeable Ram Points)
- 1 - Model PH-11052 (Guard Lift Plate)

PHES-108 set includes all items listed above.

Reach: 8' (203mm)

Spread: .75" to 12" (19mm to 305mm)

Ram Stroke: 6.13" (156mm)

Rated For: 10,000 psi

Weight: 65.5 lbs. (29.7kg)

PHES-208**Hydraulic Puller Set, 10 Ton Capacity**

- 1 - Model PH-208 (2 Jaw 10 Ton)
- 1 - Model PH-1200 (2 Stage Electric Pump)
- 1 - Model RC-106 (10,000 psi 10 Ton Cylinder)
- 1 - Model PH-3 (Gauge Adaptor)
- 1 - Model PH-2535 (10,000 psi Gauge)
- 1 - Model PHCH-604 (Male Coupler with Dust Cap)
- 1 - Model PH927 (10ft. Heavy Duty Hose)
- 1 - Model PH-15-5 (Set of 4 Interchangeable Ram Points)
- 1 - Model PH-11052 (Guard Lift Plate)

PHES-208 set includes all items listed above.

Reach: 8' (203mm)

Spread: .75" to 12" (19mm to 305mm)

Ram Stroke: 6.13" (156mm)

Rated For: 10,000 psi

Weight: 63.5 lbs. (28.8kg)

Options: All hydraulic sets are available as shown or you may add optional components and pumps to meet your needs.



PH-108
3 Jaw 10 Ton Puller
See Page 36



PH-208
2 Jaw 10 Ton Puller
See Page 36



PH-1150
Hydraulic Air Pump



PH-142
Hydraulic Hand Pump



11054
Long Jaws
Reach: 9.8' (248.9mm)
Spread: 2.3" to 15.8"
(58.4mm to 401.3mm)



11054L
Extra Long Jaws
Reach: 16' (486mm)
Spread: 1.5" to 22"
(38mm to 559mm)

PHES-110**Hydraulic Puller Set, 15 Ton Capacity**

- 1 - Model PH-110 (3 Jaw 15 Ton)
- 1 - Model PH-1200 (2 Stage Electric Pump)
- 1 - Model PH-1510 (10,000 psi 15 Ton Cylinder)
- 1 - Model PH-3 (Gauge Adaptor)
- 1 - Model PH-2535 (10,000 psi Gauge)
- 2 - Model PHCH-604 (Male Coupler Set with Dust Caps)
- 1 - Model PH-927 (10 ft. Heavy Duty Hose)
- 1 - Model PH-15-5 (Set of 4 Interchangeable Ram Points)
- 1 - Model PH-11052 (Guard Lift Plate)

PHES-110 set includes all items listed above.

Reach: 10' (254mm)
Spread: 1" to 15" (25mm to 381mm)
Ram Stroke: 10" (254mm)
Rated For: 10,000 psi
Weight: 88 lbs. (40kg)

PHES-210**Hydraulic Puller Set, 15 Ton Capacity**

- 1 - Model PH-210 (2 Jaw 15 Ton)
- 1 - Model PH-1200 (2 Stage Electric Pump)
- 1 - Model PH-1510 (10,000 psi 15 Ton Cylinder)
- 1 - Model PH-3 (Gauge Adaptor)
- 1 - Model PH-2535 (10,000 psi Gauge)
- 2 - Model PHCH-604 (Male Coupler Set with Dust Caps)
- 1 - Model PH-927 (10 ft. Heavy Duty Hose)
- 1 - Model PH-15-5 (Set of 4 Interchangeable Ram Points)
- 1 - Model PH-11052 (Guard Lift Plate)

PHES-210 set includes all items listed above.
Reach: 10' (254mm)
Spread: 1" to 15" (25mm to 381mm)
Ram Stroke: 10" (254mm)
Rated For: 10,000 psi
Weight: 85 lbs. (38.6kg)

Options: All hydraulic sets are available as shown or you may add optional components and pumps to meet your needs.



PH-110
3 Jaw 15 Ton Puller
See Page 36



PH-210
2 Jaw 15 Ton Puller
See Page 36



PH-1150
Hydraulic Air Pump



PH-80
Hydraulic Hand Pump



PH-11054L
Long Jaws
Reach: 16" (406mm)
Spread: 1.5" to 22" (38mm to 559mm)

PHES-113**Hydraulic Puller Set, 25 Ton Capacity**

- 1 · Model PH-113 (3 Jaw 25 Ton)
- 1 · Model PH-1200 (2 Stage Electric Pump)
- 1 · Model PH-2514 (10,000 psi 25 Ton Cylinder)
- 1 · Model PH-3 (Gauge Adaptor)
- 1 · Model PH-2535 (10,000 psi Gauge)
- 2 · Model PH-604 (Coupler Set with Dust Caps)
- 1 · Model PH-927 (10-ft. Heavy Duty Hose)
- 1 · Model PH-25-7 (Set of 6 Interchangeable Ram Points)
- 1 · Model PH-11352 (Guard Lift Plate)
- 1 · Model PT-2550 (Storage Transport Cart)

PHES-113 set includes all items listed above.

Reach: 12" (305mm)

Spread: 2.5" to 18" (64mm to 457mm)

Ram Stroke: 14.25" (362mm)

Rated For: 10,000 psi

Weight: 189 lbs. (85.8kg)

PHES-213**Hydraulic Puller Set, 25 Ton Capacity**

- 1 · Model PH-213 (2 Jaw 25 Ton)
- 1 · Model PH-1200 (2 Stage Electric Pump)
- 1 · Model PH-2514 (10,000 psi 25 Ton Cylinder)
- 1 · Model PH-3 (Gauge Adaptor)
- 1 · Model PH-2535 (10,000 psi Gauge)
- 2 · Model PH-604 (Coupler Set with Dust Caps)
- 1 · Model PH-927 (10-ft. Heavy Duty Hose)
- 1 · Model PH-25-7 (Set of 6 Interchangeable Ram Points)
- 1 · Model PH-11352 (Guard Lift Plate)
- 1 · Model PT-2550 (Storage Transport Cart)

PHES-213 set includes all items listed above.

Reach: 12" (305mm)

Spread: 2.5" to 18" (64mm to 457mm)

Ram Stroke: 14.25" (362mm)

Rated For: 10,000 psi

Weight: 181 lbs. (82.2kg)

Options: All hydraulic sets are available as shown or you may add optional components and pumps to meet your needs.



PH-113
3 Jaw 25 Ton Puller
See Page 36



PH-213
2 Jaw 25 Ton Puller
See Page 36



PH-1150
Hydraulic Air Pump



PH-80
Hydraulic Hand Pump



11354L
Long Jaws
Reach: 20" (508mm)
Spread: 1.5" to 30"
(38mm to 762mm)

PHES-116

Hydraulic Puller Set, 50 Ton Capacity



- 1 - Model PH-116 (3 Jaw 50 Ton)
- 1 - Model PH-2022 (2 Stage Electric Pump)
- 1 - Model PH-5013 (10,000 psi 50 Ton Cylinder)
- 1 - Model PH-3 (Gauge Adaptor)
- 1 - Model PH-2535 (10,000 psi Gauge)
- 2 - Model PH-604 (Coupler Set with Dust Caps)
- 1 - Model PH-927 (10-ft. Heavy Duty Hose)
- 1 - Model PH-50-8 (Set of 6 Interchangeable Ram Points)
- 1 - Model PH-11652 (Guard Lift Plate)
- 1 - Model PT-2550 (Storage Transport Cart)

PHES-116 set includes all items listed above.

Reach: 14' (356mm)

Spread: 3' to 25' (76mm to 635mm)

Ram Stroke: 13.25" (337mm)

Rated For: 10,000 psi

Weight: 345 lbs. (156.5kg)

PHES-216

Hydraulic Puller Set, 50 Ton Capacity



- 1 - Model PH-216 (2 Jaw 50 Ton)
- 1 - Model PH-2022 (2 Stage Electric Pump)
- 1 - Model PH-5013 (10,000 psi 50 Ton Cylinder)
- 1 - Model PH-3 (Gauge Adaptor)
- 1 - Model PH-2535 (10,000 psi Gauge)
- 2 - Model PH-604 (Coupler Set with Dust Caps)
- 1 - Model PH-927 (10-ft. Heavy Duty Hose)
- 1 - Model PH-50-8 (Set of 6 Interchangeable Ram Points)
- 1 - Model PH-11652 (Guard Lift Plate)
- 1 - Model PT-2550 (Storage Transport Cart)

PHES-216 set includes all items listed above.

Reach: 14' (356mm)

Spread: 3' to 25' (76mm to 635mm)

Ram Stroke: 13.25" (337mm)

Rated For: 10,000 psi

Weight: 335 lbs. (152.1kg)

Options: All hydraulic sets are available as shown or you may add optional components and pumps to meet your needs.



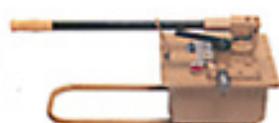
PH-116
3 Jaw 50 Ton Puller
See Page 36



PH-216
2 Jaw 50 Ton Puller
See Page 36



PH-1022
Hydraulic Air Pump



PH-462
Hydraulic Hand Pump



PH-11654L
PH-21654L
Long Jaws
Reach: 26" (660mm)
Spread: 2" to 38" (51mm to 965mm)

PHB-106

**Basic Hydraulic Puller Set,
5 Ton Capacity**



- 1 - Model PH-106 (3 Jaw 5 Ton)
- 1 - Model RC-55 (10,000 psi 5 Ton Cylinder)
- 1 - Model PH-5-3
(Set of 2 Interchangeable Ram Points)
- 1 - Model PH-10652 (Guard Lift Plate)

PHB-106 set includes all items listed above.
Reach: 6" (152.4mm)
Spread: .5" to 8" (12.7mm to 203.2mm)
Ram Stroke: 5" (127mm)
Rated For: 10,000 psi
Weight: 16.6 lbs. (7.5kg)

PHB-206

**Basic Hydraulic Puller Set,
5 Ton Capacity**



- 1 - Model PH-206 (2 Jaw 5 Ton)
- 1 - Model RC-55 (10,000 psi 5 Ton Cylinder)
- 1 - Model PH-5-3
(Set of 2 Interchangeable Ram Points)
- 1 - Model PH-10652 (Guard Lift Plate)

PHB-206 set includes all items listed above.
Reach: 6" (152.4mm)
Spread: .5" to 8" (12.7mm to 203.2mm)
Ram Stroke: 5" (127mm)
Rated For: 10,000 psi
Weight: 15 lbs. (6.8kg)



Hub removal from shaft (Model PHES-116)



Removal of sprocket from shaft (Model PHMS-208)

PHB-108

**Basic Hydraulic Puller Set,
10 Ton Capacity**



- 1 - Model PH-108 (3 Jaw 10 Ton)
- 1 - Model RC-106 (10,000 psi 10 Ton Cylinder)
- 1 - Model PH-15-5
(Set of 4 Interchangeable Ram Points)
- 1 - Model PH-11052 (Guard Lift Plate)

PHB-108 set includes all items listed above.

Reach: 8' (203mm)
Spread: .75" to 12" (19mm to 305mm)
Ram Stroke: 6.13" (156mm)
Rated For: 10,000 psi
Weight: 29.5 lbs. (13.4kg)

PHB-208

**Basic Hydraulic Puller Set,
10 Ton Capacity**



- 1 - Model PH-208 (2 Jaw 10 Ton)
- 1 - Model RC-106 (10,000 psi 10 Ton Cylinder)
- 1 - Model PH-15-5
(Set of 4 Interchangeable Ram Points)
- 1 - Model PH-11052 (Guard Lift Plate)

PHB-208 set includes all items listed above.

Reach: 8' (203mm)
Spread: .75" to 12" (19mm to 305mm)
Ram Stroke: 6.13" (156mm)
Rated For: 10,000 psi
Weight: 27.5 lbs. (12.5kg)

PHB-110

**Basic Hydraulic Puller Set,
15 Ton Capacity**



- 1 - Model PH-110 (3 Jaw 15 Ton)
- 1 - Model PH-1510 (10,000 psi 15 Ton Cylinder)
- 1 - Model PH-15-5
(Set of 4 Interchangeable Ram Points)
- 1 - Model PH-11052 (Guard Lift Plate)

PHB-110 set includes all items listed above.

Reach: 10' (254mm)
Spread: 1" to 15" (25mm to 381mm)
Ram Stroke: 10" (254mm)
Rated For: 10,000 psi
Weight: 52 lbs. (23.6kg)

PHB-210

**Basic Hydraulic Puller Set,
15 Ton Capacity**



- 1 - Model PH-210 (2 Jaw 15 Ton)
- 1 - Model PH-1510 (10,000 psi 15 Ton Cylinder)
- 1 - Model PH-15-5
(Set of 4 Interchangeable Ram Points)
- 1 - Model PH-11052 (Guard Lift Plate)

PHB-210 set includes all items listed above.

Reach: 10' (254mm)
Spread: 1" to 15" (25mm to 381mm)
Ram Stroke: 10" (254mm)
Rated For: 10,000 psi
Weight: 49 lbs. (22.2kg)

PHB-113**Basic Hydraulic Puller Set,
25 Ton Capacity**

- 1 - Model PH-113 (3 Jaw 25 Ton)
- 1 - Model PH-2514 (10,000 psi 25 Ton Cylinder)
- 1 - Model PH-25-7
(Set of 6 Interchangeable Ram Points)
- 1 - Model PH-11352 (Guard Lift Plate)

PHB-113 set includes all items listed above.
 Reach: 12" (305mm)
 Spread: 2.5" to 18" (64mm to 457mm)
 Ram Stroke: 14.25" (362mm)
 Rated For: 10,000 psi
 Weight: 116 lbs. (52.7kg)

PHB-213**Basic Hydraulic Puller Set,
25 Ton Capacity**

- 1 - Model PH-213 (2 Jaw 25 Ton)
- 1 - Model PH-2514 (10,000 psi 25 Ton Cylinder)
- 1 - Model PH-25-7
(Set of 6 Interchangeable Ram Points)
- 1 - Model PH-11352 (Guard Lift Plate)

PHB-213 set includes all items listed above.
 Reach: 12" (305mm)
 Spread: 2.5" to 18" (64mm to 457mm)
 Ram Stroke: 14.25" (362mm)
 Rated For: 10,000 psi
 Weight: 98 lbs. (44.5kg)

PHB-116**Basic Hydraulic Puller Set,
50 Ton Capacity**

- 1 - Model PH-116 (3 Jaw 50 Ton)
- 1 - Model PH-5013 (10,000 psi 50 Ton Cylinder)
- 1 - Model PH-50-8
(Set of 6 Interchangeable Ram Points)
- 1 - Model PH-11652 (Guard Lift Plate)

PHB-116 set includes all items listed above.
 Reach: 14" (356mm)
 Spread: 3" to 25" (76mm to 635mm)
 Ram Stroke: 13.25" (337mm)
 Rated For: 10,000 psi
 Weight: 202 lbs. (91.7kg)

PHB-216**Basic Hydraulic Puller Set,
50 Ton Capacity**

- 1 - Model PH-216 (2 Jaw 50 Ton)
- 1 - Model PH-5013 (10,000 psi 50 Ton Cylinder)
- 1 - Model PH-50-8
(Set of 6 Interchangeable Ram Points)
- 1 - Model PH-11652 (Guard Lift Plate)

PHB-216 set includes all items listed above.
 Reach: 14" (356mm)
 Spread: 3" to 25" (76mm to 635mm)
 Ram Stroke: 13.25" (337mm)
 Rated For: 10,000 psi
 Weight: 192 lbs. (87.2kg)

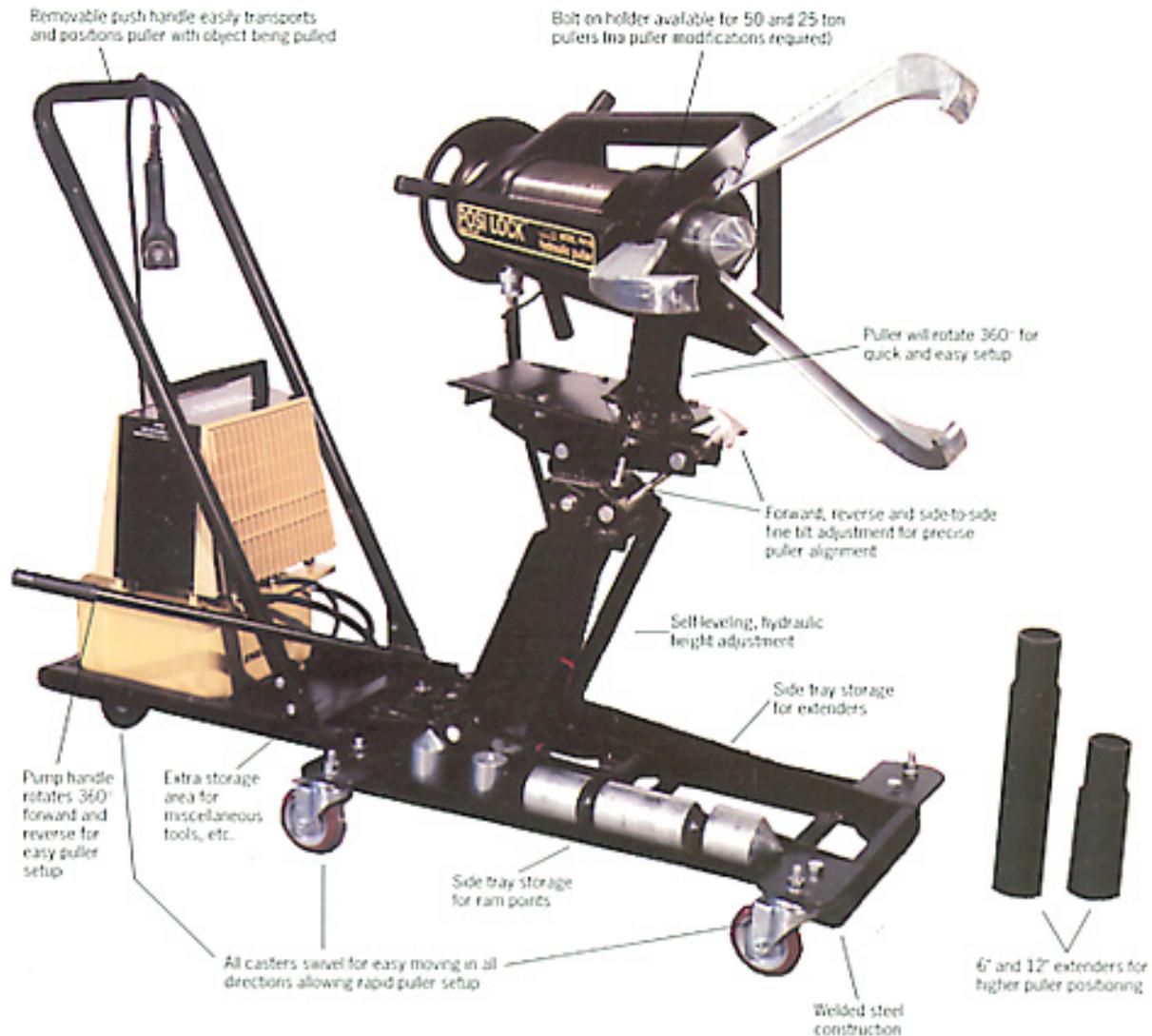
PH-3050

Hydraulic Lift Cart

This cart conveniently stores and transports hydraulic pullers and accessories.

Weight: 153 lbs. (69.46 kg)
Length: 52" (1320.8 mm)
Width: 19.5" (495.3 mm)
Height: 42" (1066.8 mm)

Approximate Puller Positioning Height:
Lowest Height: 19" (482.6 mm)
Highest Height: 53.5" (1358.9 mm)



Cart is shown with a 50-Ton 3-Jaw IPH-116d and hydraulic pump (all sold separately).

NOTE: Puller is easily removed for applications.



PH-106
3 Jaw 5 Ton Puller
Weight: 12 lbs. (5.4kg)
13.5L x 7.5W
(342mm x 190mm)



PH-108
3 Jaw 10 Ton Puller
Weight: 16 lbs. (7.3kg)
16.5L x 7.5W
(419mm x 191mm)



PH-110
3 Jaw 15 Ton Puller
Weight: 25 lbs. (11.4kg)
21L x 7W
(533mm x 178mm)



PH-113
3 Jaw 25 Ton Puller
Weight: 55 lbs. (25kg)
28.5L x 11W
(724mm x 279mm)



PH-116
3 Jaw 50 Ton Puller
Weight: 100 lbs. (45.4kg)
33L x 12W
(838mm x 305mm)



PH-206
2 Jaw 5 Ton Puller
Weight: 11 lbs. (4.9kg)
13.5L x 7.5W
(342mm x 190mm)



PH-208
2 Jaw 10 Ton Puller
Weight: 14 lbs. (6.4kg)
16.5L x 7.5W
(419mm x 191mm)



PH-210
2 Jaw 15 Ton Puller
Weight: 22 lbs. (10kg)
21L x 8W
(533mm x 203mm)



PH-213
2 Jaw 25 Ton Puller
Weight: 47 lbs. (21.3kg)
28.5L x 11.5W
(724mm x 292mm)



PH-216
2 Jaw 50 Ton Puller
Weight: 90 lbs. (40.9kg)
33L x 14W
(838mm x 356mm)

Guard Lift Plates

Lift plates are a convenient transport handle for Posi Lock hydraulic pullers. Lift plates protect hydraulic components and make for easy pickup.



PH-11652
Weight: 5.5 lbs. (2.5kg)
.38L x 10W (10mm x 254mm)



PH-11352
Weight: 3.5 lbs. (1.56kg)
.38L x 8W (10mm x 203mm)



PH-11052
Weight: 1.5 lbs. (0.7kg)
.25L x 6W (6mm x 152mm)

PH-10652
Weight: 6 oz. (169g)
.14L x 4W (3.5mm x 101mm)

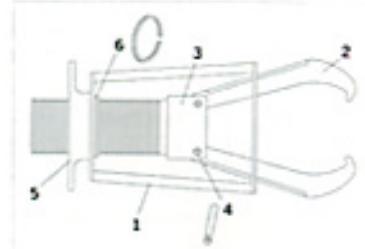
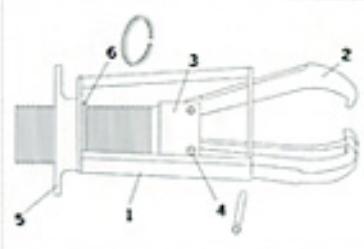
PT-2550

Puller Transportation Cart

Conveniently stores and transports hydraulic pullers and accessories.
Weight: 63 lbs. (28.6kg)



Cart is shown
with PHES-213
(sold separately)



PH-106/206

DESCRIPTION	PART #	LBS	KG
1. Cage® - 3 Jaw	PH-10653	1.80	.81
1. Cage® - 2 Jaw	PH-20653	1.50	.68
2. Jaw	10654	1.00	.45
3. Jaw Head Assembly	PH-10655	3.80	1.72
3. Jaw Head Assembly	PH-20655	4.00	1.81
4. Pin	11056	.50	.23
5. T-Handle	PH-10657	1.50	.68
6. Snap Ring	11659	.02	.01

PH-108/208

DESCRIPTION	PART #	LBS	KG
1. Cage® - 3 Jaw	PH-10853	2.50	1.14
1. Cage® - 2 Jaw	PH-20853	2.00	.91
2. Jaw	10854	2.00	.91
3. Jaw Head Assembly	PH-10855	5.50	2.50
3. Jaw Head Assembly	PH-20855	6.00	2.72
4. Pin	PH-10856	.10	.05
5. T-Handle	PH-10857	2.50	1.14
6. Snap Ring	PH-10859	.06	.03
Long Jaw (optional)	11054	2.50	1.14
Extra Long Jaw (opt.)	11054L	4.50	2.04

PH-110/210

DESCRIPTION	PART #	LBS	KG
1. Cage® - 3 Jaw	PH-11053	6.00	2.72
1. Cage® - 2 Jaw	PH-21053	4.00	1.82
2. Jaw	PH-11054	2.50	1.14
3. Jaw Head Assembly	PH-11055	10.00	4.45
3. Jaw Head Assembly	PH-21055	10.00	4.45
4. Pin	PH-11056	.50	.23
5. T-Handle	PH-11057	4.00	1.82
6. Snap Ring	PH-11059	.06	.03
Long Jaw (optional)	PH-11054L	5.50	2.50

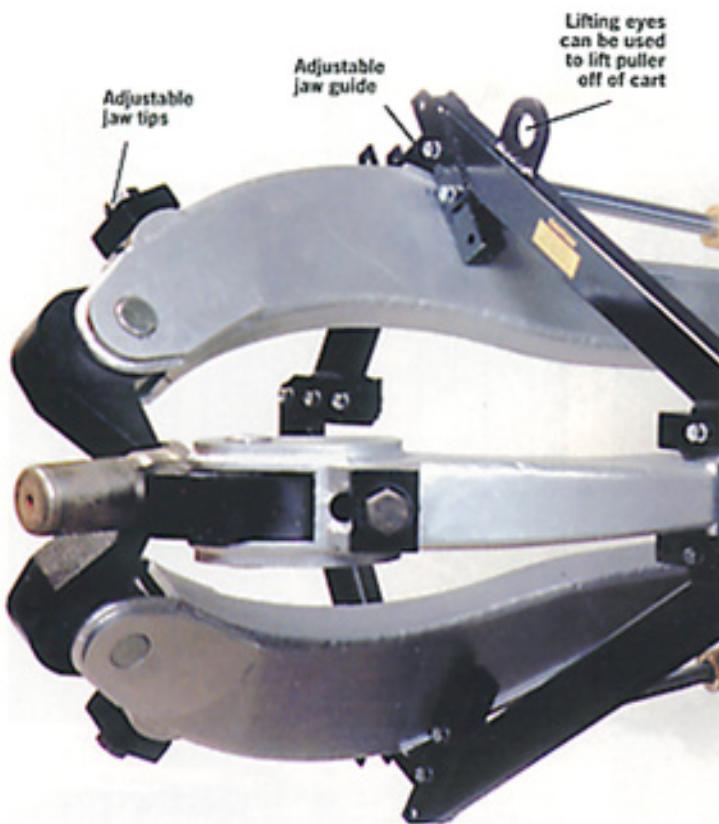
PH-113/213

DESCRIPTION	PART #	LBS	KG
1. Cage® - 3 Jaw	PH-11353	11.50	5.22
1. Cage® - 2 Jaw	PH-21353	9.00	4.09
2. Jaw	11354	4.50	2.04
3. Jaw Head Assembly	PH-11355	19.00	8.63
3. Jaw Head Assembly	PH-21355	19.00	8.63
4. Pin	11356	1.00	.45
5. T-Handle	PH-11357	5.50	2.50
6. Snap Ring	PH-11359	.06	.03
Long Jaw (optional)	11354L	10.50	4.77

PH-116/216

DESCRIPTION	PART #	LBS	KG
1. Cage® - 3 Jaw	PH-11653	17.00	7.72
1. Cage® - 2 Jaw	PH-21653	13.00	5.90
2. Jaw	PH-11654	7.00	3.18
2. Jaw	PH-21654	7.00	3.18
3. Jaw Head Assembly	PH-11655	32.00	14.53
3. Jaw Head Assembly	PH-21655	31.50	14.30
4. Pin	PH-11656	1.00	.45
4. Pin	PH-21656	1.00	.45
5. T-Handle	PH-11657	12.00	5.45
6. Snap Ring	PH-11659	.14	.06
Long Jaw (optional)	PH-11654L	16.50	7.49
Long Jaw (optional)	PH-21654L	16.50	7.49





FEATURES AND BENEFITS:

- Spread 7.5" - 70" (191mm - 1778mm)
- Reach 50' (1219mm)
- 10,000 psi electric two-stage pump
- Remote jog switch with 10' cord
- 100 ton cylinder 10,000 psi with spring return (10.25" stroke)
- Hydraulic powered lift on cart extends puller from ground to height of 5'
- Jaws are hydraulically controlled with cylinders
- Multiple pushing adaptors
1 - 3.5" dia. x 9"
1 - 3.5" dia. x 19"
1 - 3.5" dia. x 29"
1 Coupler
- Removable transport cart
- Puller can be used in horizontal or vertical positions
- Adjustable jaw tips
- Adjustable jaw guides

SPECIAL OPTION:

Double acting 100 ton cylinder is available upon request.

Specialized jaw tips available.

Posi Lock's hydraulically actuated Cage® design pullers are designed for use on large equipment and machines used at steel mills, oil fields, mining operations, utility projects, construction sites, shipyards, railroad yards, paper mills, airline shops, electric motor repair shops, etc.

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. A hydraulically driven Cage® holds the jaws in place for increased safety while removing press fit parts. A hydraulic power lift cart enables the puller to be raised up to 5' above ground. Lifting brackets allow the puller to be removed from the cart and lifted into work places above 5'. When not in use, the lift cart may be used as a means to manually transport the puller.



PORABLE 100 TON PULLERS

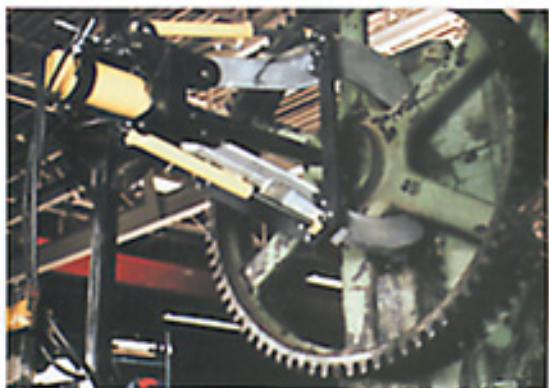
Safety, ease of use and reduction of down-time are all key elements in the need for a Posi Lock 100 ton puller to make the "Big Job" smaller.

Descriptions:

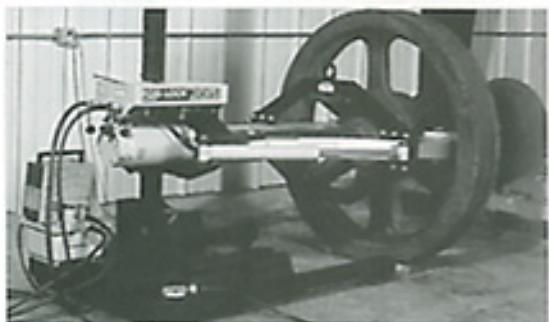
- PH-100T (3 Jaw) Weight: 1950 lbs. (885kg)
- PH-102T (2 Jaw) Weight: 1700 lbs. (772kg)
- PH-123T (2/3 Jaw) Weight: 2000 lbs. (908kg)



PH-102T 100 Ton 2 Jaw hydraulic puller



Removal of large gear off press



Large pulley removal from shaft



PH-100T 100 Ton 3 Jaw hydraulic puller



Clamping jaws on inside of pulley hub

PH-123T 100 TON

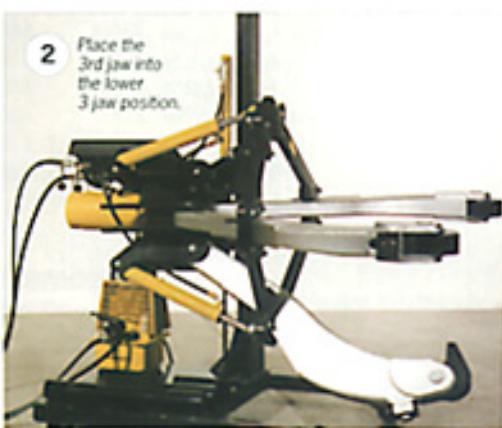


Transforming the 2 jaw puller into the 3 jaw puller is an easy 4 step process!

- 1 Move the Cage® cylinder from 2 jaw position to 3 jaw position.



- 2 Place the 3rd jaw into the lower 3 jaw position.



- 3 Remove the jaw from the 2 jaw position.



- 4 Place jaw from 2 jaw position into upper 3 jaw position.



FRACTION, DECIMAL & MILLIMETER EQUIVALENTS

Inch Fraction	Decimals	Millimeters	Inch Fraction	Decimals	Millimeters	Inch Fraction	Decimals	Millimeters
1/64	.015625	.397	23/64	.359375	.9128	45/64	.703125	.17859
1/32	.03125	.794	3/8	.3750	.9525	23/32	.71875	.18256
3/64	.046875	1.191	25/64	.390625	9.922	47/64	.734375	.18653
1/16	.0625	1.588	13/32	.40625	10.319	3/4	.7500	.19050
5/64	.078125	1.984	27/64	.421875	10.716	49/64	.765625	.19447
3/32	.09375	2.381	7/16	.4375	11.113	25/32	.78125	.19844
7/64	.109375	2.778	29/64	.453125	11.509	51/64	.796875	.20241
1/8	.1250	3.175	15/32	.46875	11.906	13/16	.8125	.20638
9/64	.140625	3.572	31/64	.484375	12.303	53/64	.828125	.21034
5/32	.15625	3.969	1/2	.5000	12.700	27/32	.84375	.21431
11/64	.171875	4.366	33/64	.515625	13.097	55/64	.859375	.21828
3/16	.1875	4.763	17/32	.53125	13.494	7/8	.8750	.22225
13/64	.203125	5.159	35/64	.546875	13.891	57/64	.890625	.22622
7/32	.21875	5.556	9/16	.5625	14.288	29/32	.90625	.23019
15/64	.234375	5.954	37/64	.578125	14.684	59/64	.921875	.23416
1/4	.2500	6.350	19/32	.59375	15.081	15/16	.9375	.23813
17/64	.265625	6.747	39/64	.609375	15.478	61/64	.953125	.24209
9/32	.28125	7.144	5/8	.6250	15.875	31/32	.96875	.24606
19/64	.296875	7.541	41/64	.640625	16.272	63/64	.984375	.25003
5/16	.3125	7.938	21/32	.65625	16.669	1	1.000	.25400
21/64	.328125	8.334	43/64	.671875	17.066	1mm = .03937"		
11/32	.34375	8.731	11/16	.6875	17.463	.001" = .0254mm		

SI* CONVERSION FORMULAS

APPROXIMATE CONVERSION

Multiply SI* Unit	By Conv Factor	To Get or Multiply Non-SI Unit	By Conv Factor	To Get SI* Unit	Multiply SI* Unit	By Conv Factor	To Get or Multiply Non-SI Unit	By Conv Factor	To Get SI* Unit					
LENGTH														
millimeter (mm)	* 0.03937	= inch	* 25.4	= mm	newton (N)	* 0.225	= pound	* 4.45	= N					
(1 inch = 25.4mm exactly)					kilometer (km)	* 225	= pound	* 0.00445	= kN					
centimeter (cm)	* 0.3937	= inch	* 2.54	= cm	TORQUE									
meter (m)	1000mm	= cm	* 3.28	= foot	newton meter (Nm)	* 8.9	= lb in.	* 0.113	= Nm					
meter (m)	* 1.09	= yard	* 0.914	= m	newton meter (Nm)	* 0.74	= lb ft	* 1.36	= Nm					
kilometer (km)	* 0.62	= mile	* 1.61	= km	PRESSURE (PA = N/M²)									
millimeter ² (mm ²)	* 0.00155	= inch ²	* 645	= mm ²	Kilopascal (kPa)	* 4.0	= in H ₂ O	* 0.249	= kPa					
centimeter ² (cm ²)	* 0.155	= inch ²	* 645	= cm ²	Kilopascal (kPa)	* 0.30	= in Hg	* 3.38	= kPa					
meter ² (m ²)	* 10.8	= foot ²	* 0.0929	= m ²	Kilopascal (kPa)	* 0.145	= psi	* 6.89	= kPa					
hectare (ha) 10,000m ²	* 1.2	= yard ²	* 0.836	= m ²	megapascal (MPa)	* 145	= psi	* 0.00689	= MPa					
kilometer ² (km ²)	* 0.39	= acre	* 0.405	= ha	Bar	* 14.5	= psi	* 0.089	= Bar					
VOLUME														
centimeter ³ (cm ³)	* 0.061	= inch ³	* 16.4	= cm ³	POWER (W = J/S)									
liter (L)	* 61	= inch ³	* 0.016	= L	kilowatt (kW)	* 1.34	= hp	* 0.746	= kW					
milliliter (mL)	* 0.034	= oz fluid	* 29.6	= mL	kilowatt (kW)	* 0.948	= Btu/s	* 1.055	= kW					
liter (L) 1000 mL	* 1.06	= quart	* 946	= L	watt (W)	* 0.74	= ft lb/s	* 1.36	= W					
liter (L)	* 0.26	= gallon	* 3.79	= L	TEMPERATURE									
meter ³ (m ³) 1000 mL	* 1.3	= yard ³	* 0.76	= m ³	°C = (F - 32) * 1.8	-F = °C * 1.8 + 32								
MASS														
gram (g)	* 0.035	= ounce	* 28.3	= g	FLOW									
kilogram (kg) 1000 g	* 2.2	= pound	* 0.454	= kg	cu. cm/min.	* 16.39	= cu. in./min.	* 0.61	= cu. cm/min.					
metric ton (t) 1000 kg	* 1.1	= ton (short)	* 0.907	= t	kilowatt (kW)	* 2642	= GPM	* 1.785	= liters/min.					

* System International (Modern Metric System)

TERMS & CONDITIONS

- 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.
- Terms:** Open account orders are net 30 days, with 1.5% interest charged monthly after 30 days of invoice date.
- Claims:** Claims for damaged goods concealed or otherwise, should be filed with us and notations of damage made on receipt. All shipments should be checked when received and any missing or damaged cartons or crates should be noted on bill of lading. Claims for shortages must be made within 5 days following receipt of shipment.
- Ordering:** When ordering, please be sure to use the correct model numbers and include the description so that you will receive exactly what you order.
- Credit:** Credit references are required in order to establish open account status and must precede or accompany any initial order expected to be considered for open account. The references requested include bank and two other businesses with whom an open account has been established. All other transactions are either cash with order, C.O.D. or credit card.
- 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.
- Shipping:** Posi Lock offers same day shipments via your requested shipping method.
- Packaging:** Pullers are packaged in heavy duty containers including warranty cards and instruction sheets.

WARRANTY

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, grounded or otherwise altered, or used for a purpose other than that for which it was intended, will not be covered by this guarantee.

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.

SALES AIDS

Literature for providing information to your customers on advantages, features and sizes of pullers and for use as a selling tool is available at your request.

Video tapes are available at your request for sales meetings, presentations or trade shows.



