



**ENERPAC**

## Workholding Hydraulic Rams

Have a high cylinder force to position and securely clamp parts in high-volume applications where tight tolerances are critical.

### SOLID PLUNGER

Block-body hydraulic cylinders are single-acting, which means they provide movement in one direction and have an internal spring that returns the cylinder to its starting position. Long stroke length allows use in tight spaces such as in welding applications.

### HOLLOW PLUNGER

Block-body hydraulic cylinders support loads from both ends, allowing for push and pull operations that can utilize full cylinder capacity. They have a threaded collar and base mounting holes to provide a variety of mounting options, including T-slot, tabletop, and surface mounting. Single-acting cylinders are spring-loaded to ease unloading.

Nominal Capacity	Nominal Stroke Length	Center Hole Dia.	Retracted Height	Series	Item No.
<b>Solid Plunger</b>					
5 ton	5/8 in	1 in	1.63 in	RW	5UXA1
5 ton	1 in	1 in	4.34 in	RW	5UXA2
5 ton	3 in	1 in	6.5 in	RW	5UXA3
5 ton	5 in	1 in	8.5 in	RW	5UXA4
10 ton	1/2 in	1 1/2 in	3.53 in	RW	5UWZ8
10 ton	2 in	1 1/2 in	4.78 in	RW	23NP44
10 ton	4 in	1 1/2 in	6.75 in	RW	5UWZ9
10 ton	6 in	1 1/2 in	9.75 in	RW	5UXA0
<b>Hollow Plunger</b>					
2 ton	5/8 in	0.5 in	2.06 in	RWH	23NP47
6 ton	5/8 in	0.77 in	2.19 in	RWH	23NP45
6 ton	1 in	0.77 in	3.19 in	RWH	23NP46
18 ton	1 in	1.31 in	5.12 in	RWH	23NP48



**ENERPAC**

## Heavy-Duty Hydraulic Pullers

■ Max. pressure: 10,000 psi

Speed crank and mechanical adjusting screw allow fast contact to work before hydraulics are applied. Made of forged steel components.

**Master Puller Sets**—Come complete with composite hand pump, single-acting hollow cylinder, 6-ft. hose, gauge, gauge adapter, and 4 puller styles (grip, cross bearing, bearing cup, and bearing puller). Pump and hollow ram provide precise hydraulic control and help ensure safe, efficient pulling. 2RV25 includes metal case. 2RV26 and 2RV28 include saddle and wood case.

No. of Pieces	Tonnage Capacity	Stroke Length	Mfr. Model	Item No.
<b>Master Puller Sets</b>				
10	1 in	1 in	BHP1752	2RV25
11	2 in	2 in	BHP2751G	2RV26
	2 1/2 in	2 1/2 in	BHP3751G	2RV28

## Hydraulic Ram Spreaders

■ Max. pressure: 10,000 psi

### RAM SPREADERS

General purpose ram spreaders attach to a hydraulic pump to spread crushed parts, open stuck doors, or separate parts in automotive and industrial applications.

### LIFTING WEDGE RAMS

Have one flat side and a stepped wedge on the opposite side for use in lifting items off the ground. The item is lifted in stages and cribbed (or supported) while the wedge is moved to the next step to lift the item higher.

### FLANGE RAM SPREADERS

Used to separate pipe flanges in industrial pipe maintenance operations. The ram is placed between the flanges and the pipes are spread as the jaws of the spreader open.

### LIFT WEDGE RAM AND PUMP SETS

Include items to perform basic lifting of low-clearance items. Lift-wedge rams have a jaw with a flat side for resting on the ground and a stepped wedge side that allows items to be lifted off the ground in stages. The lifted item is cribbed, or supported, between lifting steps. Sets include a lift-wedge hydraulic ram, pump, and other accessories.



Nominal Capacity	Tip Clearance	Spread Width	Oil Cap.	Item No.
<b>Ram Spreaders</b>				
0.75 ton	1.26 in	11.5 in	3.91 cu in	3KD93
1 ton	0.5 in	3.7 in	0.61 cu in	3KD94
<b>Lifting Wedge Rams</b>				
16 ton	0.39 in	0.83 in	4.75 cu in	3PCW2
<b>Flange Ram Spreaders</b>				
14 ton	0.24 in	3.16 in	4.76 cu in	4PU56
<b>Lift Wedge Ram &amp; Pump Sets</b>				
8 ton	0.19 in	4 in	—	55PV80
16 ton	0.38 in	2.72 in	—	55PV81
16 ton	0.39 in	2.02 in	4.75 cu in	25TV43
24 ton	0.25 in	4.1 in	—	55PV79
24 ton	0.25 in	4.1 in	—	55PV78

**ENERPAC**

## Hydraulic Nut Splitters

■ Max. pressure: 10,000 psi

Nut splitters are used to break apart corroded or frozen nuts to free the bolt. Attach the nut splitter to a hydraulic pump to cut the nut off the bolt. Replacement blades sold separately, go to Grainger.com and search for nut cutter blades.



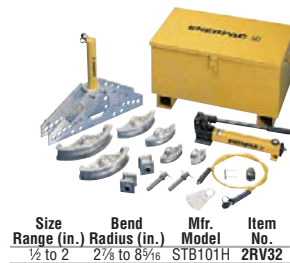
Bolt Range	Hex Size Range	Nominal Capacity	Oil Cap.	Weight	Item No.
1/2 in to 5/8 in	3/4 in to 1 1/8 in	10 ton	1.22 cu in	4.4 lb	3PCW3
5/8 in to 1 1/8 in	1 1/8 in to 1 1/2 in	15 ton	3.66 cu in	6.6 lb	3PCW4
1 1/8 in to 1 1/2 in	1 1/2 in to 1 3/4 in	20 ton	4.88 cu in	9.7 lb	3PCW5
1 1/2 in to 1 3/4 in	1 3/4 in to 2 in	35 ton	9.46 cu in	18.0 lb	3PCW6
1 3/4 in to 2 in	2 in to 2 1/4 in	50 ton	14.64 cu in	26.0 lb	3PCW7
2 in to 2 1/4 in	2 1/4 in to 2 1/2 in	90 ton	30 cu in	75.1 lb	3PCW8

**ENERPAC**

## Hydraulic Pipe Bender Set

■ Max. pressure: 10,000 psi

Accurately makes smooth, wrinkle-free bends up to 90°. Schedule 40-160 rigid pipe. Includes composite hand pump; 10-ton, 10" stroke cylinder; 6-ft. 10,000 psi hose; 6 light-weight, heat-treated aluminum bending shoes; 2 pivot shoes; 2 pivot pins; shoe lock pin; bending frame; cylinder saddle; and angle indicator. Comes in lockable steel storage case.



Size Range (in.)	Bend Radius (in.)	Mfr. Model	Item No.
1/2 to 2	2 1/2 to 8 3/4	STB101H	2RV32

## Heavy-Duty Hydraulic Maintenance Sets

■ Max. pressure: 5000 psi

General purpose maintenance sets are used for performing basic maintenance tasks around a facility or worksite, including lifting, bending, and straightening. These sets include a hydraulic cylinder, hand pump, and other compatible attachments.

Note: When cylinders are used with maintenance set attachments, the maximum system pressure must be limited to half the rated pressure (5000 psi). Capacity of cylinders limited to half of rated capacity.



Cylinder Nominal Capacity	Cylinder Stroke	Pump Model Number	Cylinder Model Number	Accessory Model Number	Mfr. Model	Item No.
5 ton	5 in	6W461 (Mfr. No. P-142)	4Z484 (Mfr. No. RC-55)	6BU60 (Mfr. No. HC7206), GA-4, GP-10S, P-142, RC-55	MS24	5ZL43
5 ton to 13 ton	6 1/4 in	6W462 (Mfr. No. P-392)	4Z488 (Mfr. No. RC-256)	6BU60 (Mfr. No. HC7206), GA-2, GP-10S, P-392, RC-102, RC-106, RC-256	MS21020	2NWJ3
10 ton	6 1/2 in	6W462 (Mfr. No. P-392)	4Z486 (Mfr. No. RC-106)	6BU60 (Mfr. No. HC7206), GA-2, GP-10S, P-392, RC-106	MS210	3KD70
10 ton	6 1/2 in	6W462 (Mfr. No. P-392)	4Z486 (Mfr. No. RC-106)	6BU60 (Mfr. No. HC7206), A10, A128, A129, A13, A14, A15, A16, A18, A20, A21, A6, GA-3, MZ1002, MZ1003, MZ1004, MZ1005, MZ1050, MZ1052, P-392, RC-106, WR-5	MSFP10	25TV41
25 ton	6 1/4 in	6W462 (Mfr. No. P-392)	4Z488 (Mfr. No. RC-256)	6BU60 (Mfr. No. HC7206), GA-2, GP-10S, P-392, RC-256	MS220	5ZL42