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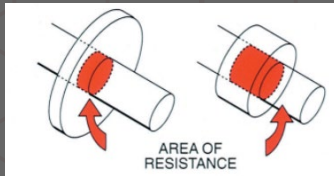


HOW TO SELECT THE “RIGHT” PULLER

1. **DETERMINE THE TYPE OF PULLER OR PULLER COMBINATION**
Which puller type is best for “getting a grip” on the part, internal or external puller?
2. **DETERMINE THE “REACH” NEEDED**
The puller you select must have a “reach” equal to, or larger than, the corresponding dimension of the job.
3. **DETERMINE THE “SPREAD” NEEDED**
The width of the part to be pulled will determine the “spread” required.
4. **ESTIMATE THE FORCE REQUIRED**
A puller with the proper “reach” and “spread” will usually have enough power. When in doubt, always use the next larger size...more power may be needed for rusted parts, or when the “area of resistance” is large.

Considerations

The “area of resistance” or “area of press fit” can vary greatly between seemingly similar jobs, such as in the example shown below. Study each pulling job before you select the puller.

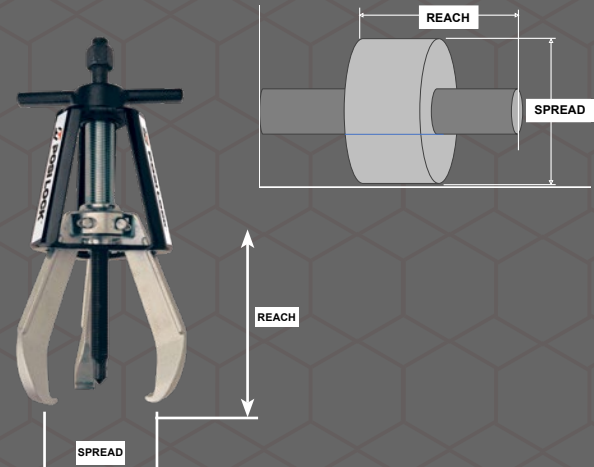


For manual, screw-powered pullers: The puller screw must be at least half as large (in diameter) as the shaft of the pulling job.

Hydraulic pullers suggestion for selection: The maximum force exerted in tons should be 7 to 10 times the diameter of the shaft in inches.

MEASURING “REACH” AND “SPREAD”

“Reach” and “spread” dimensions of the job must first be determined. A typical example - a component to be removed from a shaft - is shown below. The length of the protruding shaft and the thickness of the component determine the “reach” needed. The width of the component determines the spread required.



SEMINARS & TRAINING

Power Team In-Plant Safety Seminars



Maintenance & Repair Training

This seminar explains the proper methods for keeping Power Team products operating at peak levels of performance and reliability.

Topics include understanding hydraulic circuits, product maintenance, trouble-shooting, and field repairs. In-house classes are three or five day seminars structured to meet your product knowledge requirements.

Safety Training

Power Team Safety Training Seminars demonstrate the proper methods for operating high-pressure hydraulic tools to avoid equipment damage and lost time accidents.

Safety seminars can be conducted at a customer facility, job site or Power Team headquarters.

Mechanical Pullers

A. 2 or 3 Jaw Mechanical Pullers

- 1 to 40-ton capacity puller with up to 14" (356 mm) reach and 25" (635 mm) spread.
- Safety Cage® guides jaws for fast set-up, solid contact and superior safety.
- Slim tapered heat-treated tips allow for better gripping and easier access in tight spots.

B. 2 or 3 Jaw Automotive Transmission Mechanical Pullers

- Specially designed for use on transfer case input shaft bearings.
- Pullers with up to 9.25" (235 mm) reach and 14.75" (375 mm) spread.
- Machined jaws that clamp in snap-ring grooves as narrow as .070" (1.8 mm).
- Adding standard Jaws, the puller can be used on numerous automotive applications

C. Mechanical Puller Sets

- These puller sets are essential in removing internal pilot bearings, bearing cups, bushings, seals along with external bearings, bearing races, pulleys, and many other press-fit items from one compact set.

D. Hub Puller Sets

- Simplify the removal of many industrial and automotive fans and blower wheels by providing a solid connection between the puller and fan hub.

 **POSI LOCK™**



Hydraulic Pullers

A. 200T Hydraulic Puller System

- 200-ton (181 tonne) capacity puller with 48" (1219 mm) reach and 70" (1778 mm) spread.
- 10,000 PSI (690 Bar) double-acting 13.25" (337 mm) stroke cylinder.
- Hydraulic-actuated lift cart extends vertically up to 5' (1.52 m).

B. 100T Hydraulic Puller System

- 100-ton (91 tonne) capacity puller with 50" (1270 mm) reach and 70" (1778 mm) spread.
- 10,000 PSI (690 Bar) single-acting 10.25" (260 mm) stroke cylinder with spring return. (Optional double-acting cylinder available)
- Available in 2-jaw, vertical 2-jaw, 3-jaw, or 2/3-jaw combination.

C. Hydraulic Pullers

- 5 to 50-ton (4.5-45 tonne) capacity puller with up to 14" (356 mm) reach and 25" (635 mm) spread.
- 10,000 PSI (690 Bar) single-acting cylinder.
- Available individually or with a hydraulic hand pump or a PE17 series electric pump.

D. Self-Contained Hydraulic Puller

- Self-contained pump/cylinder with swiveling adjustable-length pump handle.
- 108 or 208 puller assembly with standard length jaws with a reach up to 8" (203 mm) and a 12" (305 mm) spread

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Hydraulic Vise

A. Hydraulic Vise

- Includes an air control valve for variable speed and safety
- Vise operates vertical or horizontal configurations for project flexibility
- Vise jaws open up to 8" (203 mm) for large holding requirements
- Easily works on any repetitive heavy, oversized, awkward or multi piece projects

B. Hydraulic Vise Set

- Vise
- Hold-Ets Magnetic Vise Clips
- 10,000 PSI (690 bar) Foot Pump
- Gauge
- Gauge Adapter
- 10' Hose
- Female Coupler
- Male Coupler



Alignment Tools

D. Motor Alignment Tool Sets

- Provides the ability to make precise horizontal adjustments within .001" (.025 mm)
- Portable sets allow aligning your motors, pumps, and gear boxes safe, quick, easy
- Eliminates the use of jack bolts, frames and heavy hammers for alignment

E. Undercut Bolt Sets

- Innovative precision undercut bolt and washer system helps reduce downtime and increase productivity
- Maximum clearance hardened grade-8 bolts along with through-hardened plated washers help to maintain perfect alignment

