OTC MEANS PULLERS

Trusted pullers with a lifetime warranty to separate rusted, frozen or seized components

GRIP-O-MATIC PULLERS

1020 2-JAW AND
1021 3-JAW 1-TON PULLERS
- 2-1/8” max reach
- 3-1/4” spread
- 5/16”-24 x 3-7/8” forcing screw
- 9/64” thick 1/4” wide jaw

1022 2-JAW AND
1023 3-JAW 2-TON PULLERS WITH REVERSIBLE JAWS
- 3-1/4” max reach
- 4” max spread for 1022;
  4-3/4” max spread for 1023
- 3/8”-24 x 4-7/8” forcing screw
- Jaw thickness: 3/16” upper, 1/8” lower
- Jaw width: ¼” upper, ½” lower

1024 2-JAW AND
1025 2/3-JAW 5-TON PULLERS WITH REVERSIBLE JAWS
- 3-1/4” max reach
- 6” max spread for 1024;
  7” max spread for 1025
- 9/16”-20 x 6-15/16” forcing screw
- Jaw thickness: 5/16” upper, 1/4” lower
- Jaw width: 3/8” upper, ¾” lower

1026 2-JAW AND
1027 2/3-JAW 5-TON LONG PULLERS WITH REVERSIBLE JAWS
- 5-1/2” max reach
- 6” max spread for 1026;
  7” max spread for 1027
- 9/16”-20 x 6-15/16” forcing screw
- Jaw thickness: 5/16” upper, 1/4” lower
- Jaw width: 3/8” upper, ¾” lower

1035 2-JAW AND
1036 2-JAW AND
1037 2/3-JAW 7-TON PULLERS WITH REVERSIBLE JAWS
- 5” max reach
- 9” max spread on 1035;
  10-1/2” max spread on 1037
- 11/16”-18 x 9” forcing screw
- Jaw thickness: 5/16” upper, 11/32” lower
- Jaw width: 1” upper, 1” lower

1038 2-JAW AND
1039 2/3-JAW 7-TON LONG PULLERS
- 8-3/4” max reach
- 9-1/2” max spread on 1038;
  11” max spread on 1039
- 11/16”-19 x 9” forcing screw
- Jaw thickness: 11/32”
- Jaw width: 1”
522 LARGE GEAR & PULLEY PULLER
- Easily remove gears, pulleys and components with tapped holes
- 2” to 7-3/4” spread
- 3/4"-16 x 11-5/8" forcing screw
- Use cap screws up to 1/2" in diameter

7392 GEAR & PULLEY PULLER
- Remove timing gears, fan pulleys, harmonic balancers
- 1-1/2” to 4-1/4” spread
- 13” long forcing screw
- Includes two hex head cap screws, sized 3/8”-16 x 3”

927 10-TON PUSH PULLER
- Remove and install press-fit parts
- Use with 1123 or 679 bearing splitter attachments
- 2-1/8” to 7-1/4” spread
- 8-1/4” max reach

BEARING SPLITTERS

1123 BEARING SPLITTER
- Knife-like edges seat behind components to separate quickly
- Use with a push-puller or OTC Grip-O-Matic pullers
- 4-5/8” spread; 4-3/8” between screws

1130 BEARING SPLITTER
- Knife-like edges seat behind components to separate quickly
- Use with a push-puller or OTC Grip-O-Matic pullers
- 9” spread; 6” between screws

679 V-BELT PULLEY ATTACHMENT
- Clamps into V-belt groove to securely hold and pull
- Use with a push-puller or OTC Grip-O-Matic pullers
- 5-7/8” spread; 6” between screws
938 17-1/2 TON PUSH-PULLER
- Max reach of 11-1/2” with adjustable spread from 3-1/8” to 11-3/4”
- Heavy-duty capacity will separate bearings, remove shafts and more
- Works with 1124, 1130 bearing splitters or 1150, 1151, 1153, 1165 and 1166 internal puller legs

1150 INTERNAL PULLING ATTACHMENT
- Quickly remove bearing cups, oil seals, bushings and more
- 5/8”-18 cross block thread fits most slide hammers, OTC push-pullers and puller screws
- 4” reach; 1-1/2” to 6” spread

1178 SLIDE HAMMER PULLER SET
- Set for pulling pilot bearings, oil seals, bushings, timing gears, harmonic balancers and more
- Includes medium jaws, long jaws, puller hook, pilot bearing jaw and two cross blocks

1676 STRONG BOX PULLER SET
- Includes eight pullers, five attachments and extra puller jaws for most jobs
- Pull gears, flywheels, steering wheels, pitman arms, bearings and more
- Metal storage box keeps pullers organized and accessible

1682 17-1/2, 30 AND 50-TON MASTER PULLER SET
- The motherlode puller set with pullers, splitters, hydraulic rams, attachments and more
- Includes nearly 50 pullers, splitters and attachments
- 3 hydraulic pumps and 3 rams will break loose nearly any stuck, frozen or rusted components

1675 13-TON CAPACITY PULLER SET
- Includes 11 pullers, 3 bearing splitters and nearly a dozen threaded adapters
- Easily pull gears, bearings, shafts, pinions, outer races and more
- A true all makes/models puller set with 13 tons of force
The tools to use when pulling something off a shaft:

- **Jaw-type puller**, either manual or hydraulic. (For extra force and convenience, use a hydraulic puller.) Both are available in 2- or 3-jaw versions and are used to grip the outer circumference of an attachment.

- **Bearing pulling attachment**. Provides “knife-like” edges to get behind the component, or when there isn’t a good gripping area on the part to be pulled. The splitter gets behind the component to prevent damage to the part.

- **Push-Puller® with attachments**. External-internal adapters can thread directly into tapped holes on a component.

- **Slide hammer puller with selected attachments for multiple light-duty pulling tasks**.

A variety of OTC adapters can be used to protect a shaft, bridge a hole, thread into tapped holes, or assist installation.

The tools to use when pulling something out of a hole:

- **Internal pulling attachments** have narrow jaws which extend through the center of the part to be pulled. They provide a straight pull and avoid damage to housings. Designed for use with Push-Pullers or slide hammer pullers.

- **Push-Puller in combination with internal pulling attachment**. Both mechanical and hydraulically powered versions are available.

Here a slide hammer puller is combined with an internal pulling attachment. Ideal for removing parts from blind holes, especially when there is no housing to brace puller legs against.

- **When there is a shaft to bear against**, a forcing screw of the correct size may be used in combination with an internal pulling attachment.

The tools to use when pulling a shaft out of something:

- **Push-Puller® with threaded adapter**. Use a mechanical or hydraulic puller, depending on the size of the shaft to be pulled.

- **When the housing lacks sufficient surface for the puller legs to bear against**, a pulling attachment may be used to provide support.

- **Slide hammer puller with threaded adapter** – either external-internal or internal can be used.

- **Internal adapters are fastened to the external threaded end of the shaft to pull while pushing against the housing**.

- **External-internal adapters are threaded into the shaft to pull it while pushing against the housing**.

**Safety Precautions**

**WARNING: TO PREVENT PERSONAL INJURY WHEN USING PULLERS,**

- Wear approved eye protection, such as safety glasses, goggles, or a face shield.

- Inspect puller for dents, cracks, or excessive wear before use. Inspect forcing screw for signs of galling or seizing. Replace worn or damaged components.

- Do not exceed puller’s rated capacity, spread, or reach. Use correct size of puller for application.

- Ensure puller is correctly aligned with application and seated on component to be removed. Jaws must be parallel to forcing screw.

- Do not use wrench extensions when applying a load.

- Cover application with a shield or protective blanket before force is applied to contain flying debris should breakage occur.

- Apply force gradually. Do not use an impact wrench to apply force unless instructions specify use with an impact wrench.

- Do not strike or “sledge” puller or component.

- Do not modify puller by grinding, heating, or other means that could weaken puller strength.

**ABOUT MECHANICAL PULLERS**

A pulling system can exert tons of force and it is difficult to predict the exact force required for a pulling application. It is important to observe safety precautions when using a puller. The OTC pulling system is versatile. For that reason, it is possible that various components in a pulling setup will have different tonnage ratings. The lowest capacity component determines the capacity of the entire setup. For example, when an accessory having a capacity of one ton is used with a 10-ton capacity puller, the puller setup can be used at a force of only one ton.

If you are unsure which puller or attachment to select for an application, contact your OTC tool representative.