

Technical Datasheet

JackJaw

Soil Probe Extractors

Description

The JackJaw is a powerful, patented extractor with a jaw and lever mechanism that allows for pulling probes straight out of the ground.

- Faster and easier pulling
- Prevents back injuries
- Quick payback

We have two versions available.

JackJaw 300 Series:

This puller removes rods with just a few pumps. It is lightweight (24lbs) for easy portability. The sturdy lever arm gives you a 16 to 1 mechanical advantage. A 100lb down force on the handle generates a 1600lb upward force and a 3200lb gripping force on the post. Probe width / Grip Width is 1/8" to 3/4".

JackJaw 500 Series:

The JackJaw[®] 500 extractor is the fast, easy and safe way to pull probes from hard soil conditions. These hard soil conditions generally result from tight kalichi clay (found in Arizona) or frozen ground.

This U-channel puller extracts posts straight out of any surface. The JackJaw[®] 500 U-channel is a rugged all steel puller that weighs 33 pounds. In addition, it's patented jaw mechanism provides a positive grip that prevents back and shoulder strain of operators that results from the whiplash of other pullers.

The sturdy lever arm gives you a 28 to 1 mechanical advantage. A 100lb down force on the handle generates a 2800lb upward force and a 5600lb gripping force on the post. The mechanical advantage of the puller is 20 to 1 when the handle is retracted. Probe width / Grip Width is 1/8" to 3/4".



JackJaw[®] 300 Series Assembly and Operating Instructions

Assembly Instructions

Step 1: Place contents of box on floor or table. Place handle over riser tube with decal facing up and insert short 3/8" - 24 bolt.



Step 2: Start 3/8"-24 self locking nut on to bolt.



Step 3: Swing link arms up to handle. Insert the long 3/8"-24 bolt through link arms and handle. Install flat washer on bolt. Start 3/8"-24 locking nut on bolt.



Step 4: Use two 9/16" wrenches to tighten riser bolts and nuts and link arms onto handle.

Note: After nut is tight against washer, then, back off the nut on the link arm bolt one half turn from the washer. Handle should raise and lower freely.



Operating Instructions

Basic Pulling

- Step 1:** Lift handle to up position so that jaws are fully open.
Step 2: Place unit so that jaws are on either side of the lip of the U picket. Figure 1 and 2 below.
Step 3: Place foot on base. Figure 3 below. Push down on handle, clamping on lip of U picket and lifting it out of the ground.
Step 4: Repeat motion as necessary until post is free.



1.



2.



3.

Probe Removal from Tilted Ground

- Step 1:** The central post of the post puller should be aligned with the sign post/stake that is being removed. If the ground is uneven, use two blocks of wood to level the base of the stake puller so that the central shaft is parallel to the probe. **Step 2-4:** Same as basic pulling.

Pulling Probe from Asphalt

JackJaw post pullers excel on asphalt. When pulling from asphalt, make sure that the post puller is aligned with the direction of the post. This keeps the post from binding with the asphalt. The probe will usually come straight out. If you have some difficulty, try moving the puller around the post to get better alignment.

Tip: In soft conditions or mud, place a short piece (1 to 2 feet in length) of 2 x 6 lumber under the base of the unit. This will spread the force over a larger area, allowing stake removal even in muddy conditions.



Caution: Never put your fingers or hands between the jaws, or between the jaws and the post.

JackJaw[®] 500 Series Assembly and Operating Instructions

Assembly Instructions

Step 1: Place contents of box on floor or table. Place handle over riser tube with decal facing up and insert short 1/2" - 22 bolt.



Step 2: Start 1/2"-22 self locking nut on to bolt. Tighten bolt using two 3/4" wrenches.



Step 3: Swing link arms up to handle. Insert the long 3/8"-24 bolt through link arms and handle. Install flat washer on bolt. Start 3/8"-24 locking nut on bolt.



Step 4: Use two 9/16" wrenches to tighten riser bolts and nuts and link arms onto handle.

Note: After nut is tight against washer, then, back off the nut on the link arm bolt one half turn from the washer. Handle should raise and lower freely.



Completed Assembly

Operating Instructions

Basic Probe Pulling

- Step 1:** Lift handle to up position so that jaws are fully open.
- Step 2:** Place unit so that jaws are on either side of the lip of the U picket. Figure 1 and 2 below.
- Step 3:** Place foot on or close to base. Figure 3 below. Push down on handle, clamping on stake or lip of U picket and lifting it out of the ground.
- Step 4:** Repeat motion as necessary until probe is free.



1.



2.



3.

Caution: Never put your fingers or hands between the jaws, or between the jaws and the post.

Probe Removal from Tilted Ground

- Step 1:** The central post of the stake puller should be aligned with the sign post/stake that is being removed. If the ground is uneven, use two blocks of wood to level the base of the stake puller so that the central shaft is parallel to the sign post/stake
- Step 2-4:** Same as Basic Stake/Sign pulling.

Tip: In soft conditions or mud, place a short piece (1 to 2 feet in length) of 2 x 6 lumber under the base of the unit. This will spread the force over a larger area, allowing stake removal even in muddy conditions.



Handle Extension: Remove hitch pin in handle, extend inner handle to desired length and replace hitch pin. See below.



JJ0500 handle in normal position



JJ0500 handle in extended position