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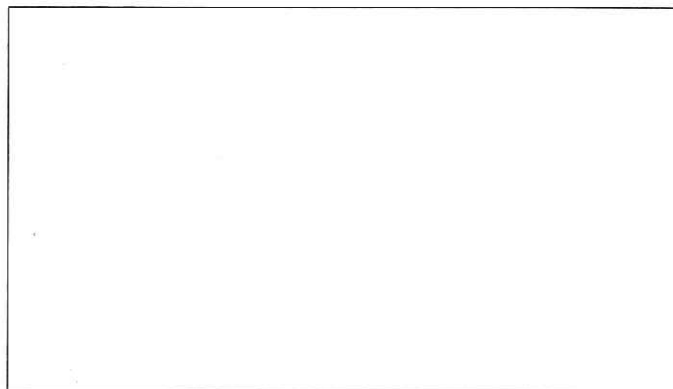
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CRANE, TEXAS 79731

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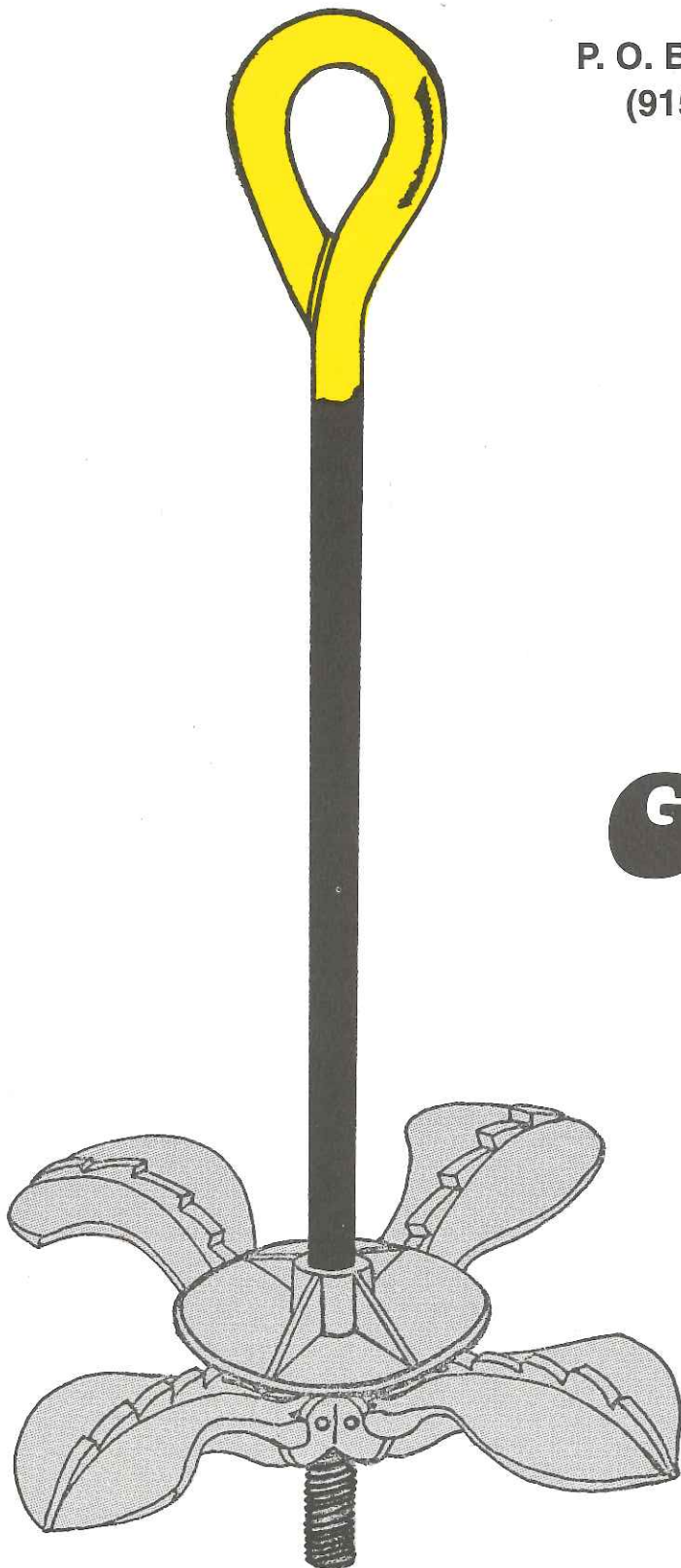
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AND SERVICED BY:*



## GRIP JAW

oilfield anchors guar-  
antee heavier anchor  
loads, faster pulling  
unit lift speeds,  
and longer  
service.



The cast  
steel **GRIP JAW**  
expanding anchor  
is guaranteed to  
exceed OSHA standards  
for five years, but will  
easily last 25. Features  
include interlocking lock-lugs  
to hold jaws in maximum  
open position, rubber-asphalt  
coating to inhibit corrosion,  
and a hotformed welded eye.

## — SPECIFICATIONS —

### **1 1/4" ANCHOR ROD:**

- MATERIAL:** Grade ASTM-A36 Smooth Rounds Certified.  
Physical Properties: 50,000 (PSI) Yield Strength; 70,000 (PSI) Tensile Strength; 22% Elongation.
- EYE:** Hot formed and welded 3" x 5".
- 1 1/4" NUT:** Engage pressure plate to open the Bottom.
- THREADED END:** 11" of threads; 7 threads per inch N.C.
- COATING:** The eye of the rod is painted yellow enamel. The rest of the rod is coated (dip-bath) with a black asphalt paint to protect it from corrosion. When shipping the rods, a piece of plastic is slipped over the threads of the rod for protection.
- LENGTH:** From 6' to 12' depending on the soil formation and moisture conditions where the anchor is installed.

### **1 1/4" 4 GRIP-JAWS ANCHOR EXPANDING ASSEMBLY: (BOTTOM)**

- NUT:** 2 1/4" Thickness. Pin size: 9/16" Hot Rolled Rounds ASTM-A36.  
Threads: 2" 7 threads per inch National Course.  
Nut Weight: 5 lbs.  
Material: Spectrograph Certified: 1040 SAE & AISI.
- PRESSURE PLATE:** 50.27 square inches of surface area.  
Weight: 4 lbs.  
Material: Spectrograph Certified: 1040 SAE & AISI.
- BLADES:** 38" square inches of surface area per blade. Four blades combined equal to 152 square inches of surface area.  
Weight Per Blade: 5 3/4 lbs. Combined weight of 4 blades equal to 23 lbs.
- COATING:** All the bottom is dip-bath painted in black asphalt coating to inhibit corrosion. The threads in the nut are greased.
- TOTAL SURFACE AREA:** Combined square inches of surface area is 202.27 sq. in.

**THE 4 GRIP-JAWS ANCHOR ASSEMBLY (BOTTOM) WHEN FULLY OPENED AND ASSEMBLED EXPANDS TO 22" IN DIAMETER. TOTAL COMBINED WEIGHT OF BOTTOM: 35 LBS.**



## — DESCRIPTION —

The GRIP-JAW oilfield anchor has been designed to withstand as much pressure as can be exerted by the steel rod if proper depth and soil formation combination is achieved during the installation. The GRIP-JAW anchor consists of four principle parts:

**ROD:** The rod is built from Grade ASTM-A36 steel. One end is threaded and has a nut in place to engage pressure plate to open Bottom. On the opposite end an eye is hot formed 3" x 5" I.D. and welded to the rod. The rod is produced from 6' to 12' in length and is available in 1 1/4" and 1 1/8" rod diameter. The rod length is determined by the soil formation and moisture conditions where the anchor is installed. The eye on the rod is painted with bright yellow enamel. The remaining rod is coated (dip-bath) with a black rubber base asphalt paint to inhibit corrosion.

**PRESSURE PLATE:** Consists of an extra heavy steel casting, top ribbed for extra strength. This plate is made to lock into place on the high ridged lugs as the anchor is screwed open to make sure the jaw blades will remain in its position of maximum opening which constitutes a double safety lock. It is also coated to inhibit corrosion.

**LOCK-NUT:** Consists of an extra heavy cast steel nut, center tapped to accept rod diameter in 2" of thread depth for stabilizing anchor in case of uneven wing loading. The blades ride on nut radius while opening. When fully open, the load from the blades rest on nose and heel seats of lock-nut, thus relieving pin load. When fully open the cast in safety latch holds wings in open position even if pins are removed.

**BLADES:** Four extra heavy cast steel high ridged blades. The blades are curved to give a fast easy roll into formations of great density. The tips are like sharpened teeth; hardened to aid in splitting shelf rock or hard to cut soils. These blades are arched to open in the undisturbed formation on top of the blades there is an interlocking safety feature; a high ridged lock-lug on which the pressure plate rests, holding the jaws in their maximum opening position. These thick locking lugs prevent closing of the anchor in a working action of load and forces the blades to rest on safety latch nose and heel seats of nut.

## WARRANTY

Our anchors exceed OSHA Safety Standard requirements since it has an overall strength of 40,000 lbs. ALL ANCHORS CARRY PRODUCT LIABILITY INSURANCE. Our anchor is guaranteed for five years under our responsibility program and will be replaced, free of charge, if the following criteria are met:

1. If this device fails in a test by a certified testing unit.
2. If this anchor was not set in a slush pit or in a fill.
3. If this anchor does not include damage by unknown loads or origins such as grades, bulldozers or drags, nor do they hold valid for anchors set 6" above grade and to rods subject to road traffic.

All loads working and maximum are based on new 1 1/4" rods and new GRIP-JAW assemblies when pulled at a 45 degree angle, when installed at proper depth and formation, in all soils and moisture conditions with creep, multiple bending and stress factors under controlled conditions.

## — INSTALLATION —

### VERTICAL INSTALLATION INSTRUCTIONS FOR OILFIELD ANCHOR

The round pressure plate is slipped over the rod and up to the welded washer. Then the rod is inserted into the cast nut and rotated until the thread is flush with the bottom of the nut. The Grip-Jaw blades are then lifted up and a 16 gauge wire is tied around the blades holding them in the closed position.

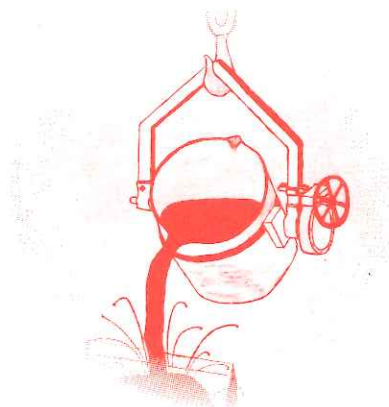
**A 10" vertical hole** is drilled to a depth of 7' 4" so that  $\frac{1}{2}$  of the eye rod is showing above the ground level. Insert the anchor assembly into the hole and throw in a couple of shovels full of dirt.

Take a chain and run through the eye and wrap the chain around the auger. Rotate the auger clockwise for about 10 rounds, then pull up slightly on the anchor. Release the pull and rotate 10 more rounds. This is repeated until the anchor is set. Run the auger machine motor at an idle speed while setting the anchor.

This process will bring the lock-nut up the rod threads forcing the welded washer up against the pressure plate which drives the Grip-Jaw blades into the undisturbed formation, then locks the pressure plate in place on the lock-lugs of the blades.

The Grip-Jaw blades are curved to give a fast easy roll into formations of great density. The Grip-Jaw blades tips are like sharpened teeth, and hardened to aid in splitting shelf rock or hard to cut soils.

The upward jolting of the rods forces the blades into the formation until the anchor is fully open and blades are seated on nose and heel seats of the lock-nut. The locking lugs on the blades prevent closing of the anchor in a working action of load.



**NATIONAL FOUNDRY  
CRANE, TEXAS**