

Featuring the Powerful **acker SOIL-MAX** High-Torque, All-Hydraulic Auger Drill

The SOIL-MAX is a drill unit specifically designed to develop the high-torque required for large diameter auger drilling requirements. The all-hydraulic SOIL-MAX handles augering, soil sampling and coring operations quickly, efficiently and economically.



Features:

- Coring 2,300 ft. (700 m) 'N' Wireline
- 10,000 lb. (4,530 kg) Hoist Std.
12,000 lb. (5,440 kg) Opt.
- 8 Speed FWD & REV to 800 RPMs
- Spindle Torque 11,500 ft. lbs. (15,590 N-m)
- Automatic Chuck/Automatic Hammer
- 28,000 lbs. (12,700 kg) Pull
21,000 lbs. (9,525 kg) Thrust
- 45 Degree Vertical Angle Capability
- Slide Base
Lateral Slide Base Optional
- Truck, Track, Trailer, Skid or ATV Mounted

SOIL-MAX STANDARD FEATURES:

A.	Power Unit - 97 H.P. diesel engine with 12-volt electric start. Other power options available on request.
B.	Feed Mechanism - The main feed consists of twin cylinder with 72" stroke and capable of 21,000 pounds thrust and 28,000 pounds pull.
C.	Drill Head - 4-5/8" open spindle, accepts all rod and casing up to "P" wireline or "H" casing. Eight (8) infinitely variable speeds in forward and reverse. Five-Strand Roller Chain Drive. Lo Range: 1st gear (0-48 RPM @ 11,674 ft./lbs. torque) 2nd gear (0-96 RPM @ 5,809 ft./lbs. torque) 3rd gear (0-171 RPM @ 3,258 ft./lbs. torque) 4th gear (0-300 RPM @ 1,862 ft./lbs. torque) Hi Range: 1st gear (0-128 RPM @ 4,017 ft./lbs. torque) 2nd gear (0-257 RPM @ 2,000 ft./lbs. torque) 3rd gear (0-458 RPM @ 1,120 ft./lbs. torque) 4th gear (0-800 RPM @ 640 ft./lbs. torque)
D.	Mast - Structural steel tubing mounted directly on the "fold over" portion of the rotary head frame. Design allows for optional raising of the feed frame without raising the mast. Mast incorporates two twin sheave crowns, 20 ft. rod sections can be hoisted clear of the hole.
E.	Drill Frame - All welded steel construction supports the power unit, mast, control panel, winches and cathead.
F.	Auger Guide - Specify size of augers.
G.	Controls - All controls are grouped together in a convenient panel located at the left rear of the machine and facing the rear.
H.	Mounting - The entire drill is mounted on a structural steel frame with in/out slide base (optional lateral slide base available). Truck, track, trailer, skid or ATV mounted.

SOIL-MAX OPTIONAL FEATURES:

* Option may not be available in all configurations due to space limitations.

1.	Cathead Hoist - Hydraulically powered cargo type hoist.
2.	Main Drum - Hydraulically powered, 10,000 lb. (12,000 lb. option) planetary type. *
3.	Quick Disconnect Adaptor - U-Joint type for augers, 1-5/8" hex or 2" hex or rigid type for rod/casing (specify size).
4.	2" Swivel - For air, mud or water. Attaches directly to the top of the spindle.
5.	Ackermatic Hydraulic Chuck Assembly - 5" size handles all rod and casing up to "P" wireline and "H" casing. Assembly includes one set of five double row carbide insert jaws, when purchased with complete package (jaws must be changed for each size drill rod or casing). Hand Chuck also available.
6.	Water Pump(s) - Moyno Type 3L6, Moyno Type 3L8, FMC L0918, FMC W1122BCD.
7.	Auxiliary Winch - Hydraulically powered. Rated at 2,500 lbs. *
8.	Wireline Hoist - Hydraulically powered. Lifting capacity 800 lb. capacity. *
9.	Automatic Hammer - Hydraulically operated "SPT" 140 lb. automatic hammer. *
10.	Hydraulic Leveling Jacks - Two front and two rear mounted hydraulic leveling jacks with 36" stroke and lock check valves.
11.	Platform - Structural steel with safety plate decking. Accommodations for rod and auger storage, tool boxes and driller's stand.
12.	Rod Clamp Assembly - Hydraulically operated clamp for rod and casing up to 5-1/2" diameter.
13.	Breakout Wrench - Hydraulically operated wrench provides 1"-6" diameter capacity to break drill rod.
14.	Water Tank - All welded construction with drain valve, baffles and filler. Capacity 250 gallons (stainless steel and plastic also available). *

Contact factory for additional details. A complete line of optional accessories are available.