



LONE STAR DRILLS

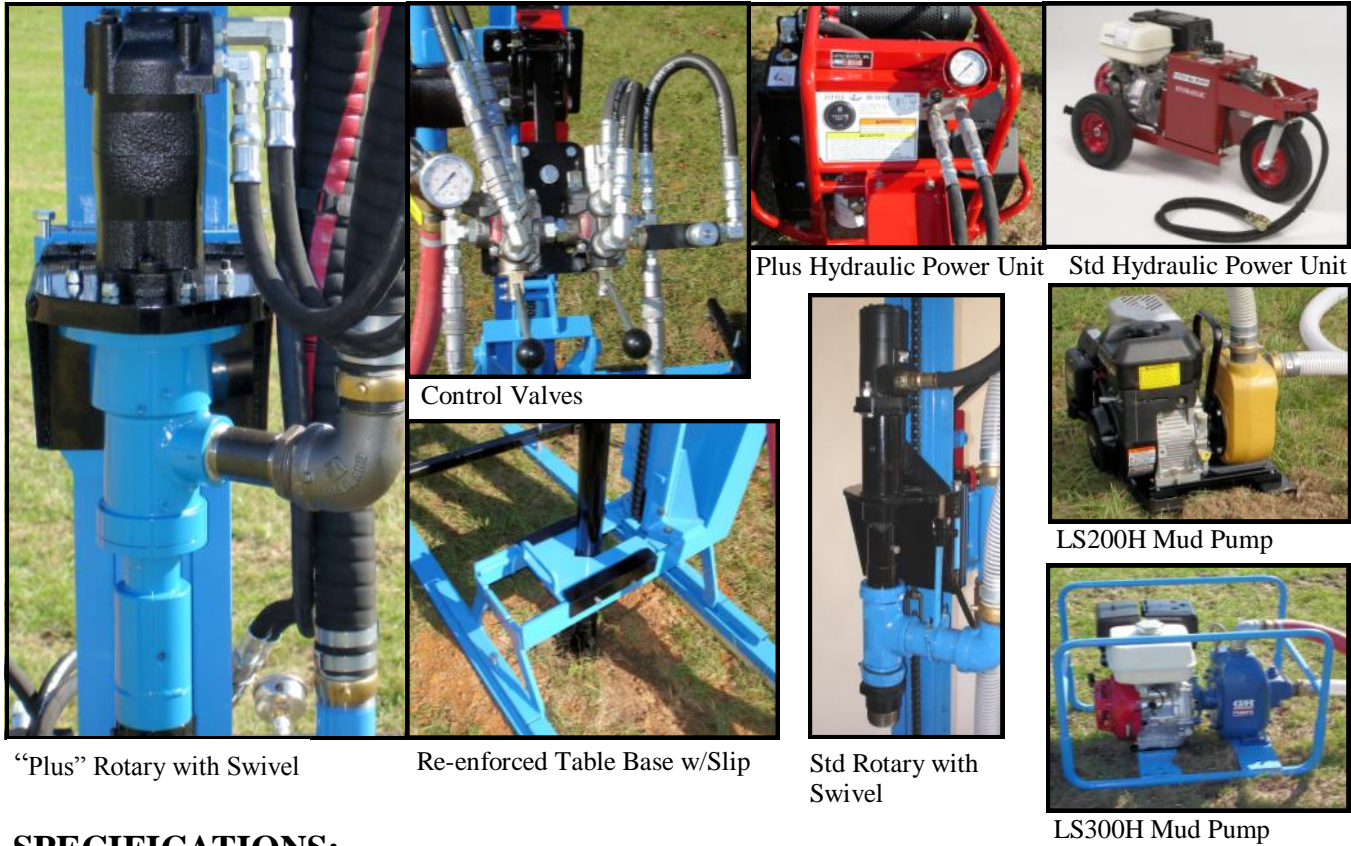
Hydraulic Series

LS200H / LS200H+ / LS300H / LS300H+



The Lone Star Hydraulic drill rigs are available in standard and “Plus” versions. The standard rig provides improved performance over the LS100 & LS200 winch operated rigs and is recommended for use in clay and sandy soils or soft rock formations. The Plus rig has more horsepower and a high capacity, load bearing swivel with high pressure hydraulic motors which provides longer seal life and less downtime. This rig will drill soft to medium rock formations when fitted with optional Tricone roller bit and drill collars. The by-pass flow control allows pushing with up to 5,000 lbs of force when the rig is anchored, greatly the effectiveness of these bits. An optional breakout sleeve is available which virtually eliminates the need for pipe wrenches when pulling pipe. Conveniently placed hydraulic valves control operation and direction of both the rotary and draw-works. A 3-way ball valve is placed near the rig operator to quickly bypass mud flow when adding pipe. The complete 200 foot package includes a 5.5HP mud pump, set of 2” mud hoses, sturdy M250 drill pipe with straight thread tool joints (40 pcs), drag bits, reamers, tools and spare parts. In addition to water wells, applications include soil sampling, geotechnical testing, exploration shot holes and auger drilling.

Note: Above photo shows the complete LS200H+ rig package



“Plus” Rotary with Swivel

Re-enforced Table Base w/Slip

Std Rotary with Swivel

LS300H Mud Pump

SPECIFICATIONS:

Mast:

Heavy Duty Welded Steel Frame w/ 3” X 3” Mast
 Components Break Down for Ease of Transport
 Pull Back - 5,000 lbs (Std version 2,500 lbs)
 Push Down - Adjustable 0-5,000 lbs (Std version 2,500 lbs)
 3-Way Ball Valve for mud flow by-pass
 66” Travel

Rotary:

Hydraulic Top Head Drive
 Rotation Speed: 95 RPM (Std version 70 rpm)
 Max Torque: 665 lbs/ft (Std version 375 lbs/ft)
 Swings Aside or Removes for access to borehole
 Plus: Load Bearing Side Inlet Swivel. Optional J-latch
 breakout sleeve available
 Std version: 2” Full Flow Swivel with replaceable seals

Dimensions & Weights:

Height - 96.5 in.
 Width - 12 in. (base)
 Length - 24 in. (base)
 Hydraulic Mast - 190 lbs.
 Hydraulic Rotary - 115 lbs

Controls:

Rear Mounted Dual Valves
 3,000 PSI Pressure Gauge
 Adjustable Independent Relief Valves

Hydraulic Power Source Options:

20 HP Honda Gas - 10 GPM, 3,000 PSI, 19HP Kohler Air
 Cooled Diesel - 10 GPM, 3,000 PSI or 19HP Yanmar Liquid
 Cooled Diesel - 10 GPM, 3,000 PSI
 Std Version: 11 HP Honda Gas - 6 GPM, 2,500 PSI or 10 HP
 Yanmar Diesel - 6 GPM, 2,500 PSI

Mud Pump (LS200H/LS200H+):

5.5 HP Honda Gas or 5 HP Hatz Diesel Engine
 100 Ft Max Head
 165 GPM Max Flow
 2” Suction and Discharge

Mud Pump (LS300H/LS300H+):

13 HP Honda Gas or 10 HP Yanmar Diesel Engine
 190 Ft Max Head
 200 GPM Max Flow
 2” Suction and Discharge

Drill Stem:

2” ID X 5 FT M250 Straight Thread Tool Joints with Breakout
 Lugs, LS200H+ (40 pcs), LS300H+ (60 pcs)

Bits included: Step Drag Bits - (3) 3-7/8”, (1) 5-7/8”; Reamers-
 (1) 5-7/8”, (1) 7”. All bits are carbide faced

Options:

Wheel Kit
 Drill collars and Tricone rock bits (Plus only)
 DTH Hammer Package (Plus only)

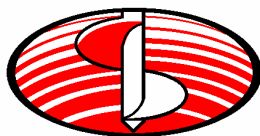
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