

Lone Star LS200H+ / LS300H+

The 'Plus' version of the Lone Star Hydraulic drill rig provides greater horsepower and improved performance over the standard LS200H and LS300H rigs. A high capacity, load bearing swivel and high pressure hydraulic motors provide 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, geo-technical testing, exploration shot holes and auger drilling.

Note: Above photo shows the complete LS200H+ rig package

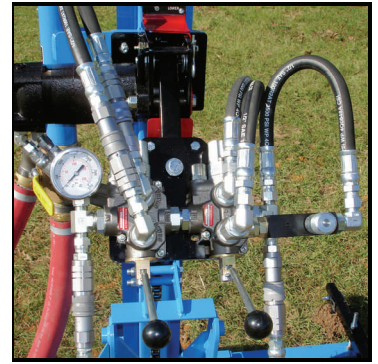
Manufactured by Little Beaver



Hydraulic Rotary with Load Bearing Swivel



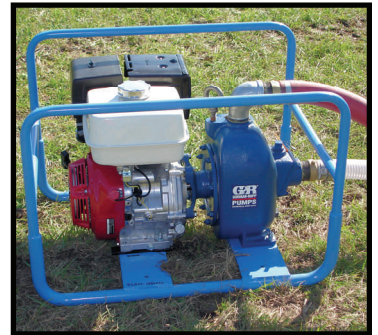
Hydraulic Power Unit (Gas)



Control Valves



Re-enforced Table Base w/Slip



LS300H+ Mud Pump (Gas)

SPECIFICATIONS:

Mast:

Heavy Duty Welded Steel Frame
Components Break Down for Ease of Transport
Pull Back - 5,000 lbs
Push Down - Adjustable 0-5,000 lbs
3-Way Ball Valve for mud flow by-pass
66" Travel

Rotary:

Hydraulic Top Head Drive
Rotation Speed: 95 RPM
Max Torque: 665 lbs/ft
Swings Aside or Removes for access to borehole
Load Bearing Side Inlet Swivel. Optional J-latch breakout sleeve available

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 (wt. 315 lbs)
19HP Kohler Air Cooled Diesel - 10 GPM, 3,000 PSI (wt. 415 lbs)
19HP Yanmar Liquid Cooled Diesel - 10 GPM, 3,000 PSI (wt. 630 lbs)

Mud Pump (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+):

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
DTH Hammer Package



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