



POST HOLE DRILL RIG

- BASIC SPECIFICATIONS



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Mast

Tubular Steel Construction working with two cylinders (no chains or cables).

Overall length – 4.8 meters

Overall depth – 400 mm

Overall width – 600 mm

Stroke – 3 meters

Pull-back force @ 180 bar = 1.41 kilo newton

Pull-down force @ 180 bar = 50.9 kilo newton

Pull-down feed speed = .707 meter per second

Pull-up feed speed = .255 meter per second

Breakout System

Manual keeper spanner

Conventional hydraulic assisted breaker spanner

Water Pump

Hydraulically driven 3 stage piston pump

Flow rate – 40 liters per minute

Maximum pressure – 40 bar

Carousel

Conventional 8 rod carousel

Carousel capacity – 8 x 6 meter rods = 48 meters

Rotation Head

Reduction gearbox type (grease filled)

Reduction 3.25:1

Through spindle hole 80 mm

RPM 0 – 80 rpm

2 x 407cc Hydraulic Motors

Torque – 9000 newton meter

Spindle thread – 102 ARD

This head can be used for both Percussion and Reverse Circulation drilling

Outriggers

4 x steel boxed hydraulic outriggers

Bore size – 100 mm

Cylinder Stroke – 1 meter

Outriggers all fitted with double pilot-operated check valves in case of hose failure.

Drilling Capacities (Hydraulic capability of drill rig)

2.8 meters @ 6.5 inches

Hole sizes – 165 mm to 400 mm

Undercarriage

Not Applicable



Hydraulic System

Hydraulic pump – 3 stage bushing gear pump type
Capacity – 60 / 60 / 40 cc per rev
Operating Pressure – 180 bar
Cylinders – In-house manufactured hydraulic cylinders
with standard type generic seals
Valve Banks – Casappa –
Half Inch and one inch valve sections
Hydraulic Motors – Parker
System Capacity – 450 liters

Hydraulic Head Tilt

To assist in easy and safe loading of drill rods
from the rear side of the machine.

Power Pack

Kirloskar HA 694 TC
Rated Horsepower – 110
Torque – 369 newton meter
Fuel burn at full load – 15.1 litre per hour
Maximum RPM - 2300

Oil Feeder

Ventury type oil feeding system
Capacity – 10 liters

Winch

Worm Drive Gearbox Type Hydraulically Driven Winch
Maximum weight capacity of 1 ton at a feed rate of
1 meter per second

Dump Mast Facility

Two meter travel to assist in inserting of casing adding stability to the
mast whilst drilling in both vertical and angular drilling

NOTES:

There are various options available on these rigs regarding on board or
separate compressor configuration as well as different compressor sizes.
These specs are based at the capacity of the standard pump and
180 bar pressure. This could easily be changed simply by changing the
hydraulic pump pressure and flow rate.

