



TRACK MOUNTED PERCUSSION

- RC DRILL RIG 5000 - BASIC SPECIFICATIONS



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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

Mast

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

Overall length – 11 meters

Overall depth – 400 mm

Overall width – 600 mm

Stroke – 7 meters

Pull-back force @ 220 bar = 173 kilo newton

Pull-down force @ 220 bar = 60.2 kilo newton

Pull-down feed speed = .707 meter per second

Pull-up feed speed = .255 meter per second

Pull-down feed speed rapid = 1.18 meter per second

Pull-up feed speed rapid = 0.424 meter per second

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.

Winch

Worm Drive Gearbox Type Hydraulically Driven Winch

Maximum weight capacity of 1 ton at a feed rate

of 1 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

Drilling Capacities

(Hydraulic capability of drill rig)

600 meters @ 6.5 inches

Hole sizes – 112 mm to 400 mm





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

Undercarriage

Track One

Total Weight Rating – 45 ton

Axle distance – 4.15 meter

Axle Width – 2.2 meter

Shoe Width – 500 mm

Speed – 2.1 kilometre per hour



Hydraulic System

Hydraulic pump – 6 stage rotary piston pump

Capacity – 30 x 6 cc per rev

Operating Pressure – 220 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

Oil Feeder

Ventury type oil feeding system

Capacity – 10 liters

Carousel

Conventional 8 rod carousel

Carousel capacity – 8 x 6 meter rods = 48 meters

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

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 220 bar pressure. This could easily be changed simply by changing the hydraulic pump pressure and flow rate.

