GEO 900

PERFORMANCE SPECIFICATION

DEPTH CAPACITIES (VERTICAL BOREHOLE):

	Dry Hole (m)*	Wet Hole (m)*
PQ	590	690
HQ	900	1000
NQ	1300	1500
BQ	1700	2000

(*) Depth capacity is given according to standard QWL rods. Depth capacity might be increased while using the rods which have light weight V-wall or different thread design.

POWER UNIT

Power Unit (Engine Option I)

MFG: Ford Model: Ecotorq

Power: 175 kW-238 HP @ 1600 rpm

Fuel consumption: 192 g/kWh @ 1600 rpm

Engine Type: Diesel Turbo charged/ After cooled

Cooling: Water



MFG: Deutz

Model: TCD 6.1 L6

Power: 162 kW-220 HP @ 1600 rpm -- 180 kW @ 2300 rpm

Fuel consumption: 150 g/kWh @ 1600 rpm – 215 g/kWh @ 2300 rpm

Engine Type: Turbocharging with charge air cooler

Cooling: Air

TORQUE & RPM RATINGS:

Extreme duty gear driven head powered by 4 speed transmission with hydraulic sliding. Power: 107 cc, 2 Speed Bent Axis Piston Type Hydraulic Motor.

Gear Ratio	Speed (RPM)	Torque (Nm)
1. 6.27: 1	122 - 199	5322 - 3254
2. 3.12: 1	246 - 400	- 2648 - 1620
3. 1.75: 1	439 - 714	1620 - 908
4. 1.00: 1	714 - 1250	849 - 519





LUBRICATION UNIT:

Hydraulically driven cooled oil circulation

CHUCK ASSEMBLY:

Type: 5 jaws - Hydraulic Open/ Spring Closed. Maximum Inside Diameter: 120 mm (PQ)

Holding Capacity: 18 143 kg

HYDRAULIC SYSTEM (@1600 RPM):

Main Pump

Maximum Flow Rate: 160 L/min Maximum Pressure: 280 Bar

Second Pump

Maximum Flow Rate: 72 L/min Maximum Pressure: 280 Bar

Auxiliary Pump

Maximum Flow Rate: 40 L/min Maximum Pressure: 280 Bar

Mixer Pump

Maximum Flow Rate: 32 L/min Maximum Pressure: 250 Bar Hydraulic oil cooling: Air

MAST AND FEED SYSTEM:

Standard 6 m pull, angle hole, telescopic mast for ease of set up.

Drilling Angle: 45 – 90 degree

Sliding Distance: 2.00 m (According to must axis)

Feed Travel: 3.40 m Telescopic Mast: 3.30 m

Feed Speeds: Fast and Slow with Variable Controls

Maximum Pull: 15 898 kg Maximum Push: 12 750 kg

MAIN HOIST:

Hydraulic driven planetary winch. Capacity: 13 000 kg (single line) Cable Size: 33 m x 16 mm rope Line Speed: Bare drum 27 m/min



WIRE-LINE WINCH:

Hydraulically driven with integral counter balance valves.

Capacity: 2000 m of 4.76 mm rope Line Pull: Bare drum: 1870 kg

Full drum: 545 kg

Line Speed: Bare drum: 138 m/min

Full drum: 474 m/min

ROD CLAMP:

Hydraulically powered BQ to PW rod jaw sizes.

WATER PUMP:

Hydraulically driven 835 water pump Maximum Flow rate: 35 gpm @ 800 psi

MUD MIXER:

Hydraulically driven mud mixer Maximum speed: 2300 rpm

DRILL BASE SUPPORTS:

Crawler

Supports: 4 hydraulic jacks

Optional Equipment:

- · Welding generator
- Hydro pump
- · Mast lightening and installation
- · Water pump release valve, water pump manometer, water pump accumulator and diaphragm
- · Hydraulic mud mixing tank
- Trailer mounted rig, four 800 mm wheels
- Hydro pump and cyclone (If third pump is demanded at drill rig.)

DIMENSIONS:

a = 7200 mm

b= 2570 mm

c = 2420 mm

Weight: 11 250 kg





