



Depth Capacities (Vertical Borehole)

	Dry Hole (m)*	Wet Hole (m)*
PWL	450	500
HWL	700	770
NWL	1.050	1.155

(*) Depth capacity is given according to drill rig feed cylinder pull capacity. Depth capacity might be increased while using the rods which have light weight V-wall or different thread design. Depth based on vertical hole.

Power Unit (80 cc)

	Option 1	Option 2
MFG	Iveco (@2200 RPM)	Cummins (@2200 RPM)
Model	N67MNTX20.00 A800	6BTA5.9-CI80-II
Power	129 kW (175 HP)	132 kW (180 HP)
Туре	Turbo & intercooler	Turbo & intercooler
Cooling	Water	Water

Our standard production includes Iveco and Cummins engines. Upon request from different manufacturers such as Volvo, Ford, and Deutz the delivery date may vary based on the engine delivery date.

Torque & RPM Rating

Gear Ratio	Speed (RPM)	Torque (Nm)
1. 6,27:1	122 - 199	3.950 - 2.250
2. 3,12:1	246 - 400	1.650 - 1.420
3. 1,75:1	439 - 714	1.420 - 705
4. 1,00:1	714 - 1.250	705 - 341

Rotation Lubrication Unit

Hydraulically driven cooled oil circulation, with 25 micron suction filter.

Chuck Assembly

Туре	7 jaws - Hydraulic open, spring closed
Max. Inside Diameter	120 mm (P wireline size)
Holding Capacity	19.000 kg

Hydraulic System (@1.600 RPM)

	Max. Flow Rate	Max. Pressure
Primary Pump	128 L/min	300 Bar
(Main hoist, Wireline hoist, Rotation, Fast feed pull/ push cylinder and Crawler tracks)		Fast feed pull/

72 L/min

230 Bar

Secondary Pump
(Water/mud pump)

Auxiliary Pump 72 L/min 180 Bar

(Fine feed drilling, Foot clamp, Chuck, Rod slide, Rotation head slide, Rotation pilot, Main hoist pilot, Rotation lubrication, Mast raising/lowering, Mast dump/retraction, Mast telescope, Leveling jacks (4))

Mixer Gear Pump 32 L/min 60 Bar

(Hydraulic oil and rotation unit box oil cooling)

Hydraulic Oil Cooling

Hydraulic and rotation unit box oil are cooling by air.

Mast & Feed System

Drilling Angle	Vertical to 90 degree
Sliding Distance	2,20 m (According to mast axis)
Feed Travel	3,40 m
Telescopic Mast	3,30 m (Open and close by
	hydraulic feed cylinder)
Feed Speeds	Fast and slow with variable controls
Maximum Pull	15.000 kg

Standard 6 m pull, angle hole, telescopic mast for ease of set up, ST 52-3 steel profile.

Rod Holder

There is a rod holder on top of the rotation unit. The rod holder keeps the rod steady, allowing it to be opened using a hydraulic chuck. By moving up and down with a spring system, the rod holder prevents damage to the threads of the rods. The rod holder prevents friction of the rod during advancement by moving forward and backward. P, H and N wireline jaws are using.



Main Line Hoist

Capacity 9.000 kg (Single line)

Cable Size 21,5 m x 16 mm rope

Line Speed Bare Drum 35 m/min

Hydraulic driven planetary hoist.

Wireline Hoist

Hydraulically driven with integral counter balance valves.

Capacity 2.000 m x 4,6 mm rope

Line Pull (kg) Line Speed (m/min)

Bare Drum	1.870	138
Full Drum	545	474

Rod Clamp

Hydraulically powered N, H, P and S wireline rod jaw sizes.

Capacity 25.000 kg

Water Pump

Hydraulically driven 835 water/mud pump.

Max. Flow Rate 35 gpm @ 800 psi

Mud Mixer (With Mud Mixing Tank)

Hydraulically driven mud mixer.

Max. Speed 2.300 rpm

Drill Base Support

Supports	4 Hydraulic leveling jacks.
Travel Length	500 mm

Crawler Mounted

Max. Velocity	4,2 km/h
Max. Slope	30 Degree

Lighting System

There are 4 LED lighting lamp on the mast.

Mast Ladder

3 parts of ladder.

Weight

Crawler Mounted Weight 8.900 kg

Hydraulic Hose & Connections

Parker connection and hydraulic hoses German brand or Cast connection and hydraulic hoses Italian brand.

Proportional Valves

Controls: Main winch, Wireline winch, Rotation, Fast feed pull/push cylinder and Crawler

Manifold Valve Bank

Controls: Fine feed drilling, Foot clamp, Chuck, Rod slide, Rotation head slide, Head opener, Rotation pilot, Main hoist pilot, Rotation lubrication control valves.

Auxiliary Valve Bank

Controls: Mast raising/lowering, Mast dump/retraction, Levelling jacks (4)

Control Panel

Emergency stop, Drill head rotation pressure, Feed monometer, Hold back manometer, Main hoist monometer, First pump monometer, Secondary pump monometer, Auxiliary pump monometer, Drill head rotation lubrication monometer.

Engine pressure, Engine temperature, Engine RPM, Engine working hour; Engine trouble information, Drill head lubrication trouble information, Rotation RPM meter.

Warranty

1 year against faulty workmanship individual manufactures warranty on all components as per our terms and condition of sale.

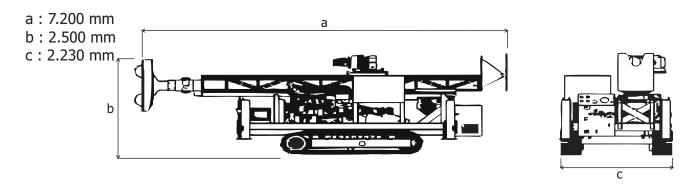
These technical specifications are based on theoretical engineering calculations. Actual capacity will depend on specific drilling conditions and materials. Geo Sondaj Makine İmalat Ltd. reserves the right to change or make modifications to designs and specifications without prior notice or obligation.



Options

Mast lighting and installation, Water pump release valve, manometer, accumulator and diaphragm, Rod holder, Rod spinner, Rod loader, Swiveling control panel, Remote control panel, Mast ladder, Enclose operator cabin, Engine service information connection, Warning horn to alert drill crew, Fire suppression unit, Water flow meter, Hydraulic oil reservoir fill pump, Wireline hoist self levelling system, SPT

Dimensions



All weights and dimensions are approximations and are subject to change.

CE certificated.