

DRILLING: ATLAS COPCO RD20-III PORTABLE TOP DRIVE DRILL RIG



RIG MOUNTING

Heavy duty 5-axle crane carrier with 281-inch wheelbase, 90,000 lb GVWR
Full power Tridem rear axles

RIG POWER

Caterpillar C13 380 HP diesel engine
Fuller RTO-14908LL transmission: 10 speeds forward, 3 speeds reverse

RIG DECK POWER

Deck mounted Cummins QSK-19C, 755 HP diesel engine with silencer muffler
2 fuel tanks-335 gallons total fuel storage

AIR COMPRESSOR

Ingersoll-Rand air compressor, 1,250 CFM x 120 PSI to 350 PSI

DERRICK

Dimensions 61'-11-1/2" L x 48-1/2" W x 41" D
51'-7" feet vertical working space between spindle-table
Pull back: 120,000 lbs. - Pull down: 30,000 lbs.

TOP HEAD TRAVEL SPEED AND PERFORMANCE

Drill feed rate: 29 feet per minute
Fast feed up (regen. on): 106 feet per min; Fast feed up (regen. off): 72 feet per min
Fast feed down: 180 feet per minute
Head rotation speed 0 to 120 RPM
Drilling torque 8,000 ft-lb @ 120 RPM, floating spindle



MAIN HOIST AND JIB BOOM

7,500 lb., Hydraulic powered casing hoist winch-operating line speed up to 225 feet per minute
4,000 lb. Hydraulic jib hoist and boom-operating line speed up to 106 feet per minute

CONTROL PANEL

Hydraulic control panel with aluminum protective cover

HYDRAULIC LEVELING JACKS

4-1/4" front stabilization jack – one (1) 48" stroke
4-1/4" front main leveling jacks – two (2) 48" stroke
5" rear main leveling jacks – two (2) 48" stroke



RIG TRAVEL DIMENSIONS

Overall height (derrick up position) = 62'- 6";
Overall height (derrick down position) = 13'- 10"
Overall width = 8'- 4"; overall weight dry (approx.) = 88,000 lbs.

DRILLING CAPABILITIES

Conventional air/mud rotary, dual tube rotary (4.5", 5.5", 7"), flooded reverse, casing advance, spot coring

MISCELLANEOUS ITEMS

3" mud manifold with hydraulic valve; 3" air booster piping up to 1,500 PSI with auxiliary and booster compressor connections; single rod loader with a loader pod for 5-1/2" drill collars; 35 gpm water injection pump; 60 gallon dhd oiler; tattle-tale head indicator; dual tube reverse air rotary drilling tools available; automatic rod handler

Specification will vary by specific drilling rig unit number