



T450BH

Compact, light weight and maneuverable track mounted drill rig. The T450BH can be outfitted for mineral exploration, quarries and open pit mining.

ROTADRILL



- 1050 cfm @ 350 psi air compressor
- Reliable, fuel efficient deck engine powers compressor & hydraulic system
- Top head drive available with floating sub
- Load sensing open loop hydraulic system for ease of operation and fuel savings

TRACK MOUNTED TOP HEAD DRIVE ROTARY RIG

T450BH TRACK MOUNTED ROTADRILL SPECIFICATIONS



Engine

Caterpillar C-15 DIT ATAAC - (ACERT)
Advanced Combustion Emissions Reduction
Technology
580 bhp (432 kw) @ 1,800 rpm w/250 gal (946.3l)
fuel tank

Compressor

Sullair 20/12 STR two-stage, oil-flooded rotary
screw
1050 CFM (29.7 cu. m/min) @ 350 psig
(24.1 bar)

Cooling

Four core, side by side, 122° F (50° C) ambient
rating, 54" (1,371 mm) hydraulically driven
variable speed fan.

Dimensions

When configured with truck cab, heater/ac
OA length, transport - 36' (10.97 m)
OA width - 8' (2.43 m)
OA height, transport w/lazy susan - 12' 6"
(3.81 m)
Weight less drill pipe, with lazy susan - 42,893 lb.
(19,456 kg)

Track Mounting

Hydraulically driven axial piston type motors,
spring applied brake, 500 mm triple cleated
grousers, full length rock guards, tram warning
alarm.

Caterpillar 315L
5.33 cu in/rev (87.4 cu cm/rev) track motor
displacement
Planetary final drive
56.306:1 final drive gear ratio
44 track sections
Sealed style links
7 track rollers per side
2 carrier rollers per side

Top Head Rotation

Single reduction oil bath gearbox with a heavy
duty, single speed, disc valve type motor.
Infinitely variable rotation speed.
2-11/16" diameter (68.3 mm) spindle thru hole
0-110 rpm
75,390 in-lb (8,518 N·m) torque
Rotation torque limiter
Auxiliary rotation valve
Floating sub

Outriggers

Front outrigger: (2) 4" Bore x 2" Rod x 48" Stroke
(102 mm x 50.8 mm x 1,219 mm)
Rear outrigger: (2) 4" Bore x 2" Rod x 48" Stroke
(102 mm x 50.8 mm x 1,219 mm)

Feed System

Feed System - The top head is driven by a
hydraulic traverse cylinder through heavy duty
leaf chain.
30,000 lb (13,605 kg) hoist
216 fpm (65.8 mpm) hoist rapid & slow feed
17,100 lb (7,755 kg) pulldown
161 fpm (49 mpm) pulldown rapid & slow feed

Mast

Tubular steel, all welded, lattice type structure
36' (10.97) OA length
28' 6" (8.68 m) head travel
Power mast locks

Drill Pipe and Casing

25' (7.6 m) drill pipe length
16.5" (419 mm) max. diameter through slipbox

Pipe Handling

Lazy susan, 5 pipe breakout - 4"x25'
(101.6 mm x 7.6 m), requires special drill pipe

Winch

Planetary with spring applied hydraulic
release brake.
5,800 lb (2,631 kg) bare drum line pull
163 fpm (49.7 mpm) bare drum line speed

Hydraulic System

Open loop, load sensing system
7 micron filtration
140 gallon (530 l) system capacity

Water Injection System

9.0 gpm (34.1 lpm) water pump

Tool Lubricator

Pump - Positive displacement, air operated
piston type, variable to 5.0 gph (18.9 lph)

Lighting & Electrical System - 24 Volt

Mast - (3) 60 watt floodlights
Control Panel - (1) gauge floodlights
Work - (3) 70 watt halogen

Accessories

Side pipe rack, tool box, pipe handling sling,
breakout wrench and 50 hour maintenance kit

Optional Equipment

Many modifications are available including:
Angle drilling
Air conditional/pressurizer
Thread greaser
Dry dust collector
Rotation Tachometer

These specifications are based on theoretical calculations and industry standards. Performance will vary according to actual drilling conditions. Schramm, Inc. continuously improves its products and reserves the right to change specifications, design, prices and terms at any time without notification or obligation. These specifications do not extend any warranty, expressed or implied, nor do they or Schramm, Inc. make or imply any representation of the machine's merchantability or fitness for a particular purpose.



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