



T200XD

ROTADRILL

Innovative Schramm Telemast technology combined with exclusive LoadSafe automated pipe handling system to achieve the highest levels of efficiency and safety in a readily transportable package. Ideally suited for shallow gas, surface hole, CBM, directional and large diameter drilling applications with mud or air.



- Equipped with Schramm patented Telemast
- 50' top head travel
- 200,000 lb hoist
- Trailer mounted LoadSafe automated pipe handling system
- Hands free power breakout
- Fast set-up
- Small footprint



DEEP HOLE TOP HEAD DRIVE ROTARY RIG

T200XD ROTADRILL SPECIFICATIONS

Engine

Detroit Diesel DDC/MTU 12V-2000TA DDEC
760 bhp (567 kw) @ 1800 rpm, air starter

Cooling

Two core, side by side type
130°F (54.4°C) ambient design temp.

Dimensions

OA length, transport - 50' (15.2 m)
OA width - 9' 6" (2.9 m)
OA height, transport - 14' (4.26 m)
Weight std. rig - 115,000 lb (52,273 kg)

Carrier

CCC 12 x 6 Carrier
Cat C-13, 410 hp @2100 rpm
44,000 lb (19,955 kg) front axles
21,500 lb (9,750 kg) pusher axle
77,000 lb (35,000 kg) rear tridem
WB: 299" (7,595 mm)
GVWR: 142,500 (64,772 kg)

Top Head Rotation - Hydraulic Tilting

Ductile iron, single reduction oil bath gearbox with 4 two-speed disc valve type hydraulic motors. Infinitely variable rotation speed.
3.5:1 Reduction Gear
4.125" diameter (104.7 mm) spindle, 3" ID swivel
0-90 rpm @ 17,750 ft-lb, 0-180 rpm @ 7,670 ft-lb
3" ID, 3000 psi fluid flushing system

Feed System

Top head is driven by hydraulic traverse cylinders through special wire rope and large diameter Nylatron sheaves. As top head is raised, the inner mast section extends by a ratio of 1:2 until it reaches its fully extended position.
50' (15.24 m) top head travel
200,000 lb (90,909 kg) hoist
100 fpm (30.48 mpm) hoist speed-rapid feed
32,000 lb (14,545 kg) pulldown capacity
14 fpm (7.92 mpm) pulldown speed-slow feed
200 fpm (60.9 mpm) pulldown speed-rapid feed
53' 8" (16.4 m) working clearance mast spindle to table (sub removed)
52' 2" (15.9 m) working clearance floating sub to table

Drill Pipe & Casing

Range 2 drill pipe, range 3 casing
30.25" (768 mm) max. diameter through slipbox

Mast

Telescoping construction permits long head travel and working height, yet short OA length in transport position.
72" (1828 mm) cylinder operated slide
Free-standing mast
Hydraulically operated adjustable mast feet
Hydraulically retracted slip box
30.25" (768 mm) table opening w/o slips
95" (2.41 m) working height below table

Pipe Handling Winch

Planetary with spring applied hydraulic release brake
9,600 lb (4,354 kg) bare drum line pull
151 fpm (46 mpm) bare drum line speed
Hydraulic jib boom swing & extend

Hydraulic System

Open loop load sensing system
7 micron filtration
210 gallon (798 l) system capacity

Outriggers

Front - (2) 5" bore x 36" stroke
(127 mm x .91 m)
Rear - (2) 5" bore x 41" stroke
(127 mm x 1.04 m)

Electrical System - 24 Volt

Power supply for explosion proof environment
(2) 12V gel batteries
Power convertor & charger

LoadSafe Automated Pipe Handling System

Lifts drill pipe and casing from horizontal position into alignment with tilting top head. Skid mounted, hydraulically adjustable pipe racks transfer tubulars to the loader.
47' (14.3 m) tubular lengths
Up to 30" (762 mm) diameter casing

Optional Equipment

A variety of equipment is available and includes the following:

- 25 gpm (95 lpm) Cat water injection pump
- 35 gpm (132.5 lpm) Bean water injection pump
- Tool lubricator for DTH hammer
- Schramm *i*-Control drilling display
- Power breakout
- Power slips
- Survey line winch
- Rotation brake for directional drilling

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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