



# TOP HOLE DRILLING

Serving the  
OIL/GAS/CBM INDUSTRY





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## SCHRAMM T130XD DUAL ROTARY DRILL

- 130,000 LBS HOIST
- RANGE 3 SINGLE
- 26" CASING ROTATOR
- HANDS FREE ROD LOADER
- SUB BASE TO WORK OVER CELLAR





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Our drilling crew has over 30 projects worth of experience working on large diameter water wells along with conductor installation for various energy and oil exploration projects. We have used drilling techniques that span from Dual rotary and air flush to Mud flush rotary. Which were performed using 135 lb/ft 20 inch premium casings. Other projects required drilling of 26 inch up to varying depths of 120 meters and installing 20 inch range 3 premium casings. Alongside all the experience named above we have performed grouting of conductors on completion with 15.4 PPG Class G cement and 15.4 PPG conventional cement jobs.

*Any climate, any terrain, Schramm rigs are built your way, delivering maximum performance and reliability in the most extreme environments on earth.*

## T130XD Detailed Specifications

### DECK ENGINE

- Detroit Diesel DDC/MTU 12V-2000TA DDEC
- 760 bhp (567kw) @ 1800 rpm
- 2 x 110 gallon (415L) fuel tanks
- Air or electric star available

### STANDARD COMPRESSOR

- Variable volume two-stage, oil flooded rotary screw compressor
- Selectable air :1,150 cfm @ 500 psi or 1,350 cfm @350 psi (32.6 m3/min @35.5 bar, 38 m3/min @ 24.1)
- Schramm patented air-control.

### COOLING

- Three core, side by side heat exchanger with variable speed cooling fan.
- 117°F (47°C) ambient design temperature.

### CARRIER

- CCC 8 x 4 carrier
- Caterpillar engine rated 425 hp @2,100 rpm
- 44,000 lb (19,955 kg) front axle
- 21,500 lb (9,750 kg) pusher axle
- 52,000 lb (23,587 kg) full locking rear axle
- 117,000 lb (53,298 kg) GVWR

### MAST

- Telescoping mast design permits long head travel and working height, yet short overall length in transport position
- Free standing mast design
- Hydraulically operated adjustable mast feet
- 69 ft 9 inches ( 21.25m) overall height fully extended
- 42 ft 9 inches (13m) overall height retracted to transport.

### TOP HEAD DRIVE

- Heavy duty, single reduction gearbox with multiple disk valve type hydraulic motors
- Infinitely variable rotation speed via HRC control
- Maximum torque: 8,884 ft-lbs (12,045 N-m)
- Rotation speed: 0-143 RPM

- Maximum operating pressure : 3000 psi (208 bar)

### CASING ROTATOR DRIVE

- Maximum casing diameter 26 inches
- Maximum rotation torque 180,000 ft lbs
- Maximum rotation speed 12 RPM
- Feed stroke 3 meters

### FEED SYSTEM

- 50 ft (15.24 m) Head travel
- 130,000 lbf (578 kN) pullback
- 125 fpm (38.1 m/min) pullback speed
- 32,000 lbf (142 kN) pulldown
- 270 fpm (82.3 m/min) pulldown speed

### DRILL TABLE

- Table opening: 20 inches (508mm) or 28 inches (711mm) table retractable slip box
- Hydraulic retractable slip box
- Hydraulic casing clamp

### DRILL PIPE AND CASING

- Range 3 tubular capability
- 28 inch (711mm) maximum diameter through the slip box

### OUTRIGGERS

- Single front- 5 inch (127 mm) bore x 41 inch (1.04 m) stroke
- Dual rear – 5 inch (127 mm) bore x41 inch (1.04 m) stroke

### WINCH

- Planetary design with spring applied hydraulic release break
- 9,600 lbf (42.7 kN) bare drum line pull
- 150 fpm (46m/min) bare drum line speed

### HYDRAULIC SYSTEM

- Open loop load sensing system
- 200 gallon (760l) system capacity
- 7 micron filtration

### WATER INJECTION SYSTEM

- 25 gpm (95 lpm) water pump
- Electric foam pump



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### TOOL LUBRICATOR

- Positive displacement, air operated piston type pump
- Oil flow: 0-5.0 g/hr (0-19l/hr)

### LIGHTING & ELECTRICAL SYSTEMS

- 24 Volt DC electrical system
- Mast – (4) 60 watt floodlights
- Control Panel – (2) 60 watt gauge floodlights
- Work – (3) 70 watt halogen lamps

### RIG WEIGHT AND DIMENSIONS

- OA length, transport: 42ft 9 inches (13m)
- Front mast down transport overhang ranges 6-8 ft (1.8 – 2.4 m)
- OA width: 8 ft 6 inches (2.6 m)
- OA height, transport:13 ft 6 inches (4.1 m)
- Typical GVWR: 100,000 -110,000 lbs (45,359 – 49,895 kg)



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