

SCHRAMM Exploration Drilling

T450 GT Reverse Circulation



BUILT FOR REVERSE CIRCULATION MINERAL EXPLORATION

The track mounted T450GT is the drilling contractor's rig of choice for mineral exploration applications. It is lightweight, highly maneuverable and field proven. Heavy duty factory installed components and accessories are available to meet a wide range of operating requirements around the world, wherever your exploration takes you. Any climate, any terrain, Schramm rigs are built your way, delivering maximum performance and reliability in the most extreme environments on earth.

DECK ENGINE

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

STANDARD COMPRESSOR

- Sullair 20/12 STR, two-stage, oil-flooded rotary screw
- 1,050 cfm @ 350 psi (29.7 m³/min @ 24.1 bar)
- Schramm patented air-CONTROL®

COOLING

- 122°F (50°C) ambient design temperature
- Variable speed cooling fan

CONTROL SYSTEM

- Digital display on driller's control panel includes: tachometer, oil temperature, water temperature, voltmeter, compressor sump pressure, compressor line pressure, compressor interstage pressure
- Gauges include: weight on bit and rotation torque

TRACK MOUNTING

- Standard model: Cat 315L
- Hydraulically driven axial piston type motors, spring applied parking brake, 500 mm triple cleated grousers, full length rock guards and tram warning alarm
- Electronic tramming controls
- Maximum Speed: 1.62 mph (2.6 kph)

TOP HEAD DRIVE

- Heavy duty, single reduction gearbox with disc valve, low speed, high torque hydraulic motors
- Infinitely variable rotation speed via HRC control
- Spindle Thru Hole: 2-11/16 inch ID (68.3 mm)
- Maximum Torque: 4,442 ft-lb (6,023 N-m)
- Rotation Speed: 0-146 RPM

OUTRIGGERS

- Dual Front & Rear – 4 inch (102 mm) bore x 41 inch (1.04 m) stroke

FEED SYSTEM

- Top head driven by hydraulic cylinders through heavy roller chain
- 30,000 lbf (133.4 kN) pullback
- 216 fpm (65.8 m/min) pullback speed
- 17,100 lb (76 kN) pulldown
- 161 fpm (49 m/min) pulldown speed
- Slow feed drillup valve

- Up to 30,000 lbf (133.4 kN) pullback
- On-board compressor 1,050 cfm @ 350 psi (29.7 m³/min @ 24.1 bar)
- air-CONTROL provides fuel savings of up to 12%
- 45°sliding angle mast
- Automated pipe handling available
- RC accessories and sampling equipment available
- Truck mount configuration available

SLIDING ANGLE MAST

- Tubular steel, all welded, lattice type structure
- Operating Angle: 0 - 45° manually locks in 5° increments
- Top Head Travel: 28.5 ft (8.68 m)
- Mast Slide Travel: 7.83 ft (2.38 m)

RIG DIMENSIONS

- Estimated dimensions for general illustration only
- OA length - transport: 41 ft 4 inches (12.6 m)
 - OA width - 8 ft 7 ½ inches (2.6 m)
 - OA height - 12 ft 11 inches (3.9 m)
 - Weight - less drill pipe with carousel: 47,950 lb (21,746 kg)

DRILL TABLE

- Table Opening: 16 ½ inches (419 mm)
- Hydraulic holding fork

EXPLORATION JIB BOOM

- For handling drill pipe on angles up to 45° from vertical, an extended dipper stick is mounted to a swing and extended hydraulic jib boom
- Swings: 140°
- Extends: 40 inches (1,016 mm)
- Capacity: 1,000 lb (454 kg)
- On-board pipe storage rack

WINCHES

- 15,000 lbf (66.72 kN) bare drum pull (Derated when used with Exploration Jib Boom)
- 194 fpm (59.15 m/min) bare drum line speed
- Sandline winch w/ 700 ft of ¼ inch cable

HYDRAULIC SYSTEM

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

WATER INJECTION SYSTEM

- 18 maximum gpm (68.1 lpm)
- 700 psi (48.3 bar)

LIGHTING & ELECTRICAL SYSTEM - 24 VOLT

- Mast - (3) 60 watt floodlights
- Control Panel - (1) floodlight
- Work - (1) 70 watt halogen floodlight, (2) 70 watt halogen spotlight