



# T450GT

RC EXPLORATION AND GRADE CONTROL RIG

The track mounted T450GT is the drilling contractor's rig of choice for mineral exploration applications and grade control. Used across the globe, 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.

- RC EXPLORATION
- GRADE CONTROL

- Tier III/IV
- Up to 30,000 lbf (133.4 kN) pullback
- On-board compressor 1,050 cfm @ 350 psi (29.7 m<sup>3</sup>/min @ 24.1 bar)
- AIR-CONTROL provides fuel savings of up to 12%
- Automated pipe handling available
- RC accessories and sampling equipment available
- Truck mount configuration available



**45°**  
SLIDING  
ANGLE MAST



## TOP HEAD DRIVE

Multiple options available, including combination side inlet /discharge swivel mounted to a floating shaft.



## PIPE HANDLING

Hydraulic pipe arm or available Pipe Carousel improves safety, reliability and production.

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## SPECIFICATIONS

### DECK ENGINE (Tier III/IV)

- Caterpillar® C-15 DIT ATAAC - (ACERT)
- 580 bhp (432 kw) @ 1,800 rpm w/ 220 gal (832 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

- 131°F (55°C) ambient design temperature
- Variable-speed cooling fan

### CONTROL SYSTEM

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

### TRACK MOUNTING

- Standard model: TRACK ONE
- 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: 1.1 mph (1.78 kph)
- Truck-mounted configuration available

### 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: 0-147 rpm @ 4,750 ft-lb (6,440 N-m)
- Maximum Torque: 0-74 rpm @ 9,480 ft-lb (12,853 N-m)

### FEED SYSTEM

- Top head driven by hydraulic cylinders through heavy roller chain
- 30,000 lbf (133.4 kN) pullback
- 133 fpm (40.5 mpm) pullback speed
- 17,000 lb (75.6 kN) pulldown
- 250 fpm (76.2 mpm) pulldown speed
- Slow feed drillup valve

### 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)

### EXPLORATION JIB BOOM

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

### DRILL TABLE (Hydraulic)

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

### OUTRIGGERS

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

### 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 1/4 inch cable

### HYDRAULIC SYSTEM

- Open loop load sensing system
- 110 gallon (416 l) system capacity
- 10 micron filtration

### WATER INJECTION SYSTEM

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

### TOOL LUBRICATOR

- Positive displacement via air-operated, piston-type pump
- Oil flow: 0-5 g/hr (0-18.9 l/hr)
- Max pressure: 1,000 psi (69 bar)

### LIGHTING & ELECTRICAL SYSTEM 24V

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

### RIG DIMENSIONS

Note: dimensions are approximate; for information only:

- OA length - transport: 41 ft 4 inches (12.6 m)
- OA width: 8 ft 7.5 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)

### STANDARD ACCESSORIES

- Hydraulic table assembly, foam injection, pipe handling sling, 50-hour maintenance kit

### OPTIONAL EQUIPMENT

- Fully enclosed operator cabin with climate control
- Automated pipe handling
- Power breakout
- Two motor top head
- RC accessories and sampling equipment
- Hydraulic welder
- See your Schramm representative for additional options

Rig performance is directly related to conditions encountered in the field. Rig specifications presented here are theoretical values based on a 100% efficiency factor. 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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