



T455GT

RC EXPLORATION AND GRADE CONTROL RIG

- RC EXPLORATION
- GRADE CONTROL

The track mounted T455GT is the drilling contractor's rig of choice for mineral exploration applications where a lightweight, highly maneuverable, field-proven rig is needed.

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.

- Tier III/IV Option
- Up to 40,000 lbf (177.9 kN) pullback
- On-board compressor 1,050 cfm @ 350 psi (29.7 m³/min @ 24.1 bar)
- 45° sliding angle mast
- Automated pipe handling or pipe carousels available
- RC accessories and sampling equipment available
- Truck-mounted configuration available



TOP HEAD DRIVE

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



E-CHAIN

Energy chain hose management system. Compatible with or without sliding top drive.



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: 1.11 mph (1.78 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: 0-147 rpm @ 4,750 ft-lb (6,440 N-m)
- Maximum Torque: 0-74 rpm @ 9,480 ft-lb (12,853 N-m)
- Rotation Speed: 0-155 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 via heavy roller chain
- 40,000 lbf (177.9 kN) pullback
- 133 fpm (40.5 mpm) pullback speed
- 18,000 lb (80 kN) pulldown
- 250 fpm (76.2 mpm) pulldown speed
- Slow-feed drillup valve

SLIDING ANGLE MAST

- 40K Mast
- 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 up to 45° from vertical; extended dipper stick is mounted to a swing-and-extend hydraulic jib boom
- Swings: 140°
- Extends: 170° from Borehole
- Capacity: 1,000 lb (454 kg)

DRILL TABLE (Hydraulic)

- 12 inches (table closed), 15 inches (table open)
- Hydraulic holding fork

WINCHES

- Main winch with 65 ft of 3/8 inch cable
- 1,000 lb (450 kg) bare drum pull
- 83 fpm (25 m/min) bare drum line speed
- Sandline winch with 1,000 ft of 5/32 inch cable

HYDRAULIC SYSTEM

- Open-loop load-sensing system
- 110 gallon (416 l) tank 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

- 12 volt DC electrical system
- LED work lights

RIG DIMENSIONS

Note: Dimensions are approximate; for information only:

- OA length (transport): 43 ft, 5 inches (13.2 m)
- OA width: 9 ft, 4 inches (2.9 m)
- OA height: 12 ft, 11 inches (3.9 m)
- Weight (less drill pipe with carousel): 67,000 lb (30,391 kg)

STANDARD ACCESSORIES

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

OPTIONAL EQUIPMENT

- TIER III/IV
- 30K Mast
- Water Injection 25 gpm
- On-board pipe storage rack
- Power Breakout: Single Airdrill-style or Dual Metzke MB550
- Fully enclosed operator cabin with climate control (as shown)
- RC accessories and sampling equipment
 - 4" Discharge Plumbing
- Hydraulic welder
- Climate Package

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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