

T1255 COMMANDER



Hydrostatic Rock Trencher



VERMEER TARGETS LARGE TRACK TRENCHER MARKET WITH T1255 COMMANDER® ROCK TRENCHER

Vermeer Manufacturing Company has introduced the T1255 Commander rock trencher. The largest Vermeer® rock trencher available, the heavy-duty T1255 is designed for trenching through solid rock to install large diameter pipe for contractors in the energy pipeline business or deep sewer and water applications.

POWER – A Caterpillar® 3456 ATAAC engine with 600 HP (447 kw) powers the trencher which is capable of digging in rock, trenching cross-country or working drainage and utility projects on roadways. The T1255 meets emission standards and features increased torque rise.

DIGGING PERFORMANCE – The T1255 COMMANDER rock trencher provides dual path hydrostatic drive with full counter-rotation. A standard feature on the T1255 COMMANDER rock trencher is a 36" (91 cm) wide conveyor, large enough for high-volume spoil removal. The T1255's dual Rotary Power head-shaft motors and splined headshaft produce lower speed and higher torque, delivering superior rock penetration and low chain wear for better production results. It also features high-

alloy, easy-access, bottom boom wear strips, and optional boom top rollers for increased digging chain life.

PRECISION – The T1255 combines toughness with technology — it features the Vermeer exclusive patented TEC 2000.2® microprocessor-based trencher electronic control system. An exclusive feature of the new TEC 2000.2 system is Auto Plunge. With the flip of a switch, operators are able to engage the automatic plunge cutting feature to reduce their number of manual adjustments and decrease chain stalls and engine kills. The TEC 2000.2 system also monitors and records machine-system conditions to simplify service and maintenance. Like all Vermeer track-mounted trenchers, the T1255 with TEC 2000.2 is available with Vermeer Vantage Track. This is a 3-year/3,000-hour Extended Care Service Program for hydrostatic systems.

General

Weight: 182,000 lbs (82,554 kg) (w/16', (4.9 m) boom, 30" (76 cm) cut, restraint bar, 30" (76 cm) track pads)
Length: 624" (1,585 cm) with 16' (4.9 m) boom
Width: 130" (330 cm)
Height: 146" (371 cm)
Ground Pressure: 17.2 lbf/in² (1.2 Kgf/cm²)

Engine

Model: Caterpillar 3456 ATAAC
Aspiration: Turbocharged for Air to Air Aftercooling
Number of Cylinders: 6
Displacement: 964 cu. in (15.8 L)
Bore: 5.5 in (140 mm)
Stroke: 6.75 in (171 mm)
Maximum No-load RPM: 2,250
Maximum Gross HP at Rated RPM: 600 HP (448 Kw) @ 2100 RPM
Maximum Altitude: 7,500 ft (2,286 m)
Cooling Medium: Liquid
Air Cleaner: Dry type exhaust aspirated
Oil Filter: Full flow
Electrical System: 24 volt
Fuel Tank Capacity: 370 gallons (1,325 L)
Fuel Consumption: 28.8 gph (109 Lph)
Operating Range: 12.8 hours

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Hydraulic System

Type: Pressure and flow compensated (load sensing)
Pump Flow Max: 26 gpm (98 Lpm)
Pressure Setting: 3,000 psi (207 bar)
Oil Tank Capacity: 210 gallons (795 L)
Oil Type: Vermeer HyPower 68, Optional: Vermeer HyPower 100

Ground Drive

Dual path hydrostatic drive with planetary transmission capable of full counter-rotation. (one pump and one motor per track)
Ground Speeds: Transport Low: 0-66 fpm (0-20 mpm)
Transport High: 0-132 fpm (0-40 mpm)
Trench: 0-66 fpm (0-20 mpm)
Max Tractive Effort: 196,000 lbs (88,904 kg)
Service Brakes: Hydrostatic
Parking and Emergency Brakes: Wet disk type, spring applied, hydraulic release

Tracks

Length: 176" (447 cm) center to center
Track Pad Type: Double grouser with dirt relief, optional single grouser
Track Pad Quantity: 55
Track Pad Width: 30" (76 cm), Optional 36" (91 cm)
Overall Width: 130" (330 cm), 142" (361 cm) with 36" (91 cm) grousers
Track Chain Type: D7
Track Chain Pitch: 8.50" (22 cm)
Track Style: Rigid frame

Trencher Drive

Hydrostatic: Four pumps, two motors capable of transmitting full engine HP
Digging Chain Speed: High Speed Motor: 399-571 fpm (122-174 mpm)
Medium Speed Motor: 335-478 fpm (102-146 mpm)
Low Speed Motor: 281-401 fpm (86-122 mpm)
Digging Chain Size: D7 or 5501

Headshaft: Oil filled - double spherical roller bearings with Caterpillar duo-cone seals

Conveyor Drive

Belt Speed: 0-812 fpm (0-247 mpm)
Conveyor Belt Width: 36" (91 cm)
Conveyor Belt Style: Cleated or fingered
Conveyor Length: 15' (4.5 m) or 20' (6.1m) folding
Discharge Direction: Left or right

Trencher

Digging Chain Size: D7 double line or 5501 double line
Digging Chain Pitch: 8.50" (22 cm) D7 or 5" (13 cm) 5501
Depth: 8' (2.4 m), 10' (3 m), 12' (3.7 m), 14' (4.3 m), 16' (4.9 m) & 18' (5.5 m) double chain booms
Width: 28" (71cm) through 48" (122 cm)
Max Boom Combinations With 50" (127 cm) EI: 8' x 42" (2.4 m x 107 cm), 10' x 42" (3 m x 107 cm), 12' x 42" (3.7 m x 107 cm), 14' x 36" (4.3 m x 91 cm), 16' x 30" (4.9 m x 76 cm) & 18' x 30" (5.5 m x 76 cm)
Boom: Sectionalized, 8' (2.4 m) base, 12' (3.7 m) base, 2' (0.6 m) section, 4' (1.2 m) section
End Idler: 50" (127 cm) Diameter
Boom Top Rollers: Optional
Crumber: through 12' (3.7 m) depth
Restraint Bar: Sectionalized through 18' (5.5 m) depth

Vermeer Manufacturing Company

1210 Vermeer Road East
P.O. Box 200
Pella, Iowa 50219 U.S.A.
Phone: (641) 628-3141
Fax: (641) 621-7730

Call toll-free 1-888-VERMEER
www.vermeer.com

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