HYDROSTATIC TRENCHER **COMMANDER**







1655

HYDROSTATIC TRENCHER

Small machine, big power

When tough working conditions demand trenching up to eight feet of solid rock, performance is the name of the game. That's why you need a reliable machine with the strength of the Vermeer® T655 Commander. A 200-HP (149 kw) Cat 3116 emissionized engine delivers the power your crew needs to produce rock-solid results. Like the impressive work you'll accomplish using the Commander's 8' (2.4 m) boom option and 40" (102 cm) end idler. You get big power from a small machine.

Work smarter, not harder

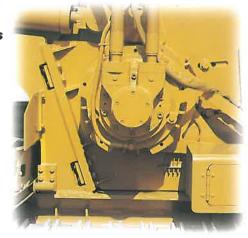
The Commander presents other options for boosting job-site productivity. Consider the unparalleled ease of operation and control versatility the Commander offers with Vermeer's exclusive TEC 2000™ Trencher Electronic Control System. To find out more about how the T655 Commander can help you work smarter, visit your local Vermeer dealer.

Command Rock-Solid Performance



Improve cutting operations with a low-speed, high-torque motor

Because the Commander's larger Rotary Power headshaft motor and splined headshaft produce lower speed and higher torque, you're assured of greater production as cutting teeth penetrate rock better and minimize chain wear.



Enhance productivity with TEC 2000™

A Vermeer exclusive, TEC 2000 monitors operating conditions and informs the operator of real-time machine performance for increased productivity. An electric stroke limiter increases engine control and eliminates operator error from the most abusive aspect of trenching.







Increase spoil removal with longer, wider conveyors

The T655 Commander's optional 8' (2.4 m) and 12' (3.7 m) conveyors with their 24"-wide (61-cm wide) belts allow operators to pull more spoil from the ditch and throw it farther from the machine when using larger boom/cutter combinations.



T655 Primary Specifications

General

Approximate weight:

8' (2.4 m) boom, 4502 chain, ROPS, dirt drags, 24" (61 cm) rotary cutters and manual crumber: 52,200 lbs. (23,678 kg)

6' (1.8 m) boom, 4501 chain, ROPS, dirt drags, 14" (36 cm) rotary cutters and manual crumber: 48,000 lbs. (21,773 kg)

Transport length with 40" (102 cm) end idler and manual crumber:

4' (1.2 m) boom — 271" (688 cm)

6' (1.8 m) boom — 298" (757 cm)

8' (2.4 m) boom — 326" (828 cm)

Transport height: 119" (302 cm)
Transport width: 97" (246 cm)
Ground clearance: 11.5" (29.2 cm)

Angle of approach: 25°

Hydraulic System

Type: Pressure and flow compensated (load sensing)

Pump flow (maximum): 25.8 gpm (97.7 Lpm)

Pressure setting: 2500 psi (172 bar) Oil tank capacity: 85 gal. (322 L) Oil type: Vermeer HyPower 68

Options

Vantage Track: 3-year/3000-hour Extended Care Service Program Dirt Drags Enclosed climatized cab

Engine

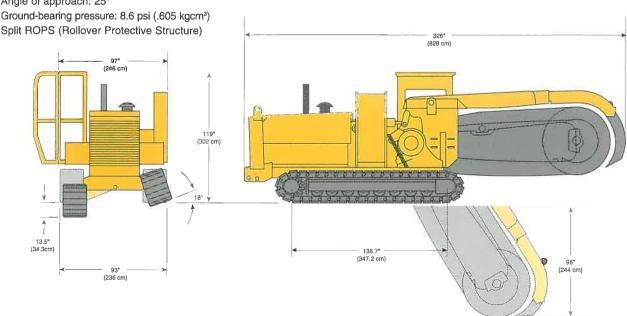
Model: Caterpillar 3116 DITA Aspiration: Turbocharged Number of cylinders: 6 Maximum no-load RPM: 2575 Gross horsepower:

200 HP (149 kw) at 2400 RPM Cooling medium: Liquid

Air cleaner: Dry type Oil filter: Full flow Electrical system: 12-volt

Fuel tank capacity: 107 gal. (405 L) Fuel consumption at full load:

10.8 gpm (41 Lpm) Operating range: 10 hours



T655 Specifications



Convevor

Open-center hydraulic pump and two motors with pressure-compensated flow control

Belt speed: 0 - 880 fpm (0 - 268 mpm)

Belt width: 24" (61 cm)

Conveyor length: 8' (2.4 m) curved 12' (3.6 m) curved, folding (optional) Discharge height: 8' = 44" (112 cm)

12' = 56" (142 cm)

Shift travel: 8' conv. — 12" (30 cm), 12' conv. - 48" (122 cm)

Discharge direction: Left or right Drive pulleys: Wing-type, self-cleaning

Belt: Cleat-type

Controls

TEC 2000 Trencher Electronic Control LCD digital display Straight tracking Load control Self-diagnostics Operator presence Neutral-start indicator Ground-speed tracking



Dual-path hydrostatic drive with planetary transmission capable of full counter rotation

Infinitely variable speed:

Transport — 0 - 276 fpm (0 - 84 mpm) Digging — 0 - 138 fpm (0 - 42 mpm)

Maximum tractive effort:

45,600 lbs. (20,684 kg)

Service brakes: Hydrostatic Parking and emergency brakes:

Spring-applied, hydraulic-release

wet-disc brakes

Track-pad quantity: 51 per track

Track-pad width:

21" (53 cm) double grouser

Overall width: 93" (236 cm)

Track-chain type: D4

Track-chain pitch: 6.75" (17.15 cm)

Track tilt: Digs vertical trench on 18.5 percent slope, 10.5 degrees; either track can be raised 12.9" (32.8 cm) higher than the opposite track

Rigid tracks: Optional



Trencher

Hydrostatic: Two pumps and one motor capable of transmitting full engine horsepower

Boom travel: Up - 10°

Down - 60°

Digging-chain tensile strength:

4501 - 310,000 lbs. (140,616 kg)

4502 - 620,000 lbs. (281,232 kg)

Cutters: Rotary carbide-tipped

Cup, single-edged, hard-surfaced

removable (4501 only)

End-idler diameter:

40" (102 cm)

20" (51 cm) Digging-chain drive sprocket:

Split-type, hardened, bolt on

Digging-chain speed:

0 - 683 fpm (208 mpm)

Boom top rollers: Optional

Practical cutting speed range:

400 - 683 fpm (122 - 208 mpm)

Head shaft bearings:

Oil-filled with Duo-Cone face seals

Pull-ring assembly: Integral to main frame, bolt on

Boom options:

4' x 14" to 24" (1.2 m x 36 to 61 cm)

4501 cup cutters

5' x 12" to 24" (1.5 m x 30 to 61 cm)

4501 cup cutters

6' x 14" to 24" (1.8 m x 36 to 61 cm)

4501 cup cutters

8' x 14" to 24" (2.4 m x 36 to 61 cm)

4501 cup cutters

4' x 10.5" to 18" (1.2 m x 27 to 46 cm)

4501 rotary cutters

5' x 10.5" to 18" (1.5 m x 27 to 46 cm)

4501 rotary cutters

6' x 10.5" to 18" (1.8 m x 27 to 46 cm)

4501 rotary cutters

8' x 14" to 24" (2.4 m x 36 to 61 cm)

4501 rotary cutters

6' x 16" to 24" (1.8 m x 41 to 61 cm)

4502 rotary cutters

8' x 16" to 24" (2.4 m x 41 to 61 cm)

4502 rotary cutters



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Protect your trencher with our optional three-year/3,000-hour Extended Care Service Program - a Vermeer exclusive! Ask your dealer about it.

Worldwide Coverage With A Local Touch

Your Vermeer dealer is independent and authorized to be a Vermeer specialist who knows your local conditions and is ready to provide expert support, service and parts, wherever your job site.