

M5



TrenchIntel

TrenchIntel
DGPS guidance system:
 Extra high precision 3D GPS system
 Automatic depth and grade control
 Autosteering to a predefined path
 Pass optimization and fleet control



TrenchTronic

TrenchTronic 4.0
Electronic Control with:
 Operator selectable digging pressure and automatic operation
 Fully automatic operation
 Remote diagnostic system



Re.M
Remote Control with:
 Machine data remote monitoring
 Fleet location management
 Troubleshooting information
 Operating conditions



TRENCHING DIMENSIONS

SINGLE CHAIN



DOUBLE CHAIN



FEATURES AND APPLICATIONS

Tesmec's largest torque converter equipped unit @ 440 hp features industry leading high chain pull and very low chain speed. Oriented toward trenching requirements in highly abrasive and extreme rock conditions. TrenchTronic 4.0 equipped.



PIPELINE CONSTRUCTION



UNDERGROUND POWERLINES
 INSTALLATION



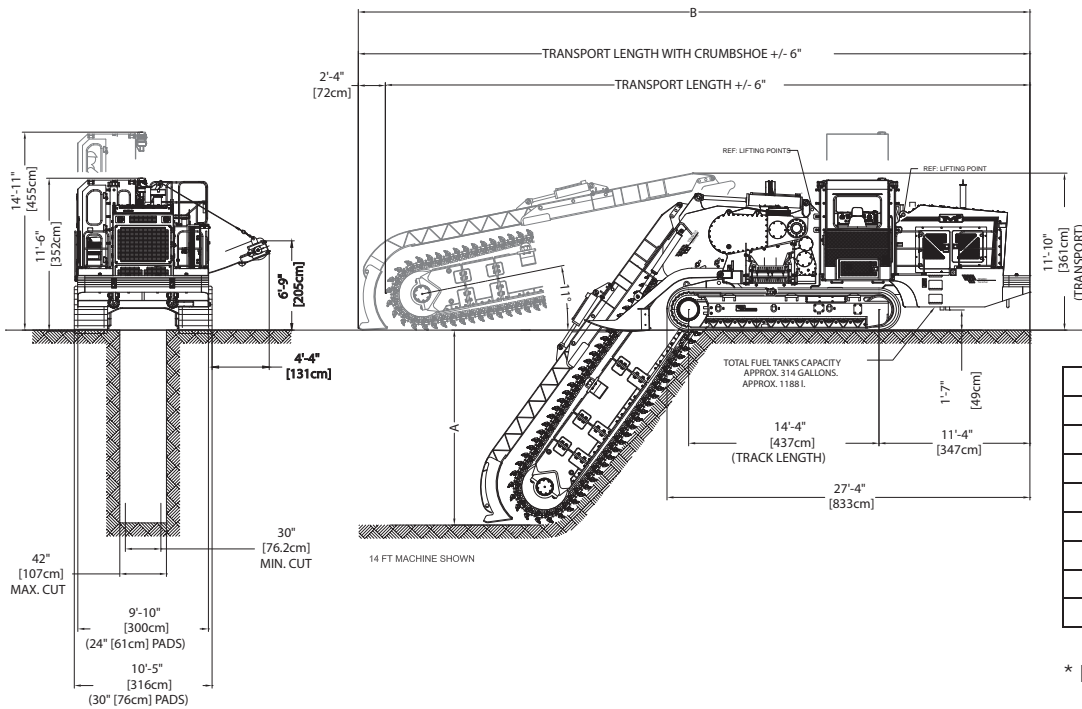
URBAN DRAINAGE WORKS



CHANNEL EXCAVATION



WATER AND SEWAGE NETWORKS
 INSTALLATION



"A"	"B"
6' (183 cm)	41'-5" (1.262 cm)
8' (240 cm)	43'-11" (1.339 cm)
10' (305 cm)	46'-5" (1.415 cm)
12' (366 cm)	48'-11" (1.491 cm)
14' (427 cm)	51'-4" (1.565 cm)
16' (488 cm)	51'-5" (1.567 cm)*
18' (549 cm)	53'-11" (1.643 cm)*
20' (610 cm)	56'-5" (1.720 cm)*

* Boom w/o crumbshoe

M5 TECHNICAL SPECIFICATIONS

Standard Features

- Pressurized elevating ROPS cab with air conditioning, heating, sound suppression
- Battery box and toolbox with locking door
- Fuel and hydraulic tank: aircraft quality locking caps
- Vibration isolator mount: used on engine, radiator, oil cooler, and exhaust silencer
- Stabilizers / dirt drags: automatically adjust to terrain changes
- Lights: 24 V forward facing
- Digging chain boom top roller
- Hydraulic digging chain adjustment
- Electrical system: 24 V starting, 24 V controls

Trenching Dimensions

- SINGLE CHAIN ATTACHMENT**
 Depths.....6' through 8' (183 cm through 244 cm)
 Widths.....16"-22" (40-56 cm)
- DOUBLE CHAIN ATTACHMENT**
 Depths.....6' through 20' (183 cm through 610 cm)
 Widths.....30"-42" (76-107 cm)
 Note: dependent on configuration and options

Engine

- HIGHLY REGULATED COUNTRIES**
- Model.....CAT C13 ACERT Tier4 final
 Max horsepower.....440 hp (328 kW)
 Max no load rpm.....2,100 rpm
 Fuel tank capacity.....314 gal (1.188 l)
 Fuel consumption at full load.....22.4 gal/hr (85 l/hr)
 AdBlue tank capacity.....12.7 gal (48 l)
 Cooling rating adequate for 135° F (57.2° C) ambient air temperature
 Air cleaner: dry type, centrifugal pre-cleaner with primary and secondary filters
- LESSER-REGULATED COUNTRIES**
- Model.....CAT C13 ACERT Tier3
 Max horsepower.....440 hp (328 kW)
 Max no load rpm.....2,100 rpm
 Fuel tank capacity.....314 gal (1.188 l)
 Fuel consumption at full load.....22.7 gal/hr (86 l/hr)
 Cooling rating adequate for 135° F (57.2° C) ambient air temperature
 Air cleaner: dry type, centrifugal pre-cleaner with primary and secondary filters

Operating and Transport Weight

- Weight.....141,000-171,000 lbs (63.956-77.563 Kg)
 Ground pressure.....13.7-16.7 psi (0.96-1.17 kg/cm²)
 Note: dependent on configuration and options

Trencher Drive

- This powertrain is comprised of several components: an electronically controlled transmission driving a heavy-duty differential, which transmits power to the headshaft via sprockets and multi-strand roller chain
- Four operator selectable digging speed ranges:
- 98-197 fpm (30-60 m/min)
 - 129-259 fpm (39-79 m/min)
 - 180-361 fpm (55-110 m/min)
 - 246-492 fpm (75-150 m/min)
- Cutters: rotary carbide tipped 1 1/2" (3.81 cm) shank diameter
 Note: chain speeds are "as calculated" per a set-point horsepower output and may vary accordingly

Crawler Drive

- Dual path, hydrostatic drive, planetary transmissions capable of full counter rotation with single lever steering, single lever direction
- Infinitely variable speed: forward and reverse
- Speed ranges:
- High range.....0-1.3 mph (0-2.1 km/hr)
 - Low range.....0-0.9 mph (0-1.5 km/hr)
- Integral parking and service brake: spring applied, hydraulic release, wet disc brake

Tracks

- Overall track length14' 4" (437 cm)
 Track pad type: single, double or triple grouser
 Track chain type: Caterpillar D7
 Track pad width.....2' 6" (76 cm)

Transmission

- Model: Caterpillar
 Oil filter: 6 micron paper cartridge integral filter
 Electronically controlled utilizing (5) digging speeds
 Capacity (refill).....10 gal (38 l)

Hydraulic Transmission

- Pressure and flow compensated (load sensing)
 Pump flow maximum.....45 gpm (170 l/min)
 Pressure setting.....2.750 psi (189 bar)
 Oil tank capacity.....97 gal (367 l)

Cross Conveyor

- Hydrostatic: one pump and two motors
 Reversible and shiftable
 Belt speed infinitely variable...0-1,000 fpm (0-305 m/min)
 Discharge direction: right or left
 Conveyor belt width.....2' 6" (76.2 cm)
 Conveyor length.....12' 9" (389 cm)
 Discharge height.....6' 9" (206 cm)

Transport Dimensions

- Length with crumbshoe:
-6 ft boom: 41' 5" (1.262 cm)
 -8 ft boom: 43' 11" (1.339 cm)
 -10 ft boom: 46' 5" (1.415 cm)
 -12 ft boom: 48' 11" (1.491 cm)
 -14 ft boom: 51' 4" (1.565 cm)
 -16 ft boom*: 51' 5" (1.567 cm)
 -18 ft boom*: 53' 11" (1.643 cm)
 -20 ft boom*: 56' 5" (1.720 cm)
- Widths:.....10'4" (315 cm) with 30" (76 cm) track pads
9'10" (300 cm) with 24" (61 cm) track pads
 Height with cab.....11' 6" (352 cm)
 Height with crumbshoe.....11' 10" (361 cm)
 *Dimensions w/o crumbshoe (no crumbshoe option available)

Main Available Devices

- ALL001 Air compressor
- OPT011 Subscription for the Remote Asset Management (monitoring via GPRS) per year
- OPT012 Work light package

For a complete devices list see the Available Devices chart