

# 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 5.0  
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



### DOUBLE CHAIN

16' Boom allows for 30" - 36" cut  
18' Boom allows for 30" - 32" cut  
20' Boom allows for 30" cut

## FEATURES AND APPLICATIONS

Tesmec's largest torque converter equipped unit @ 496 hp features industry leading high chain pull and very low chain speed. Oriented toward trenching requirements in highly abrasive and extreme rock conditions. TrenchTronic 5.0 equipped.



PIPELINE CONSTRUCTION



UNDERGROUND POWERLINES  
INSTALLATION



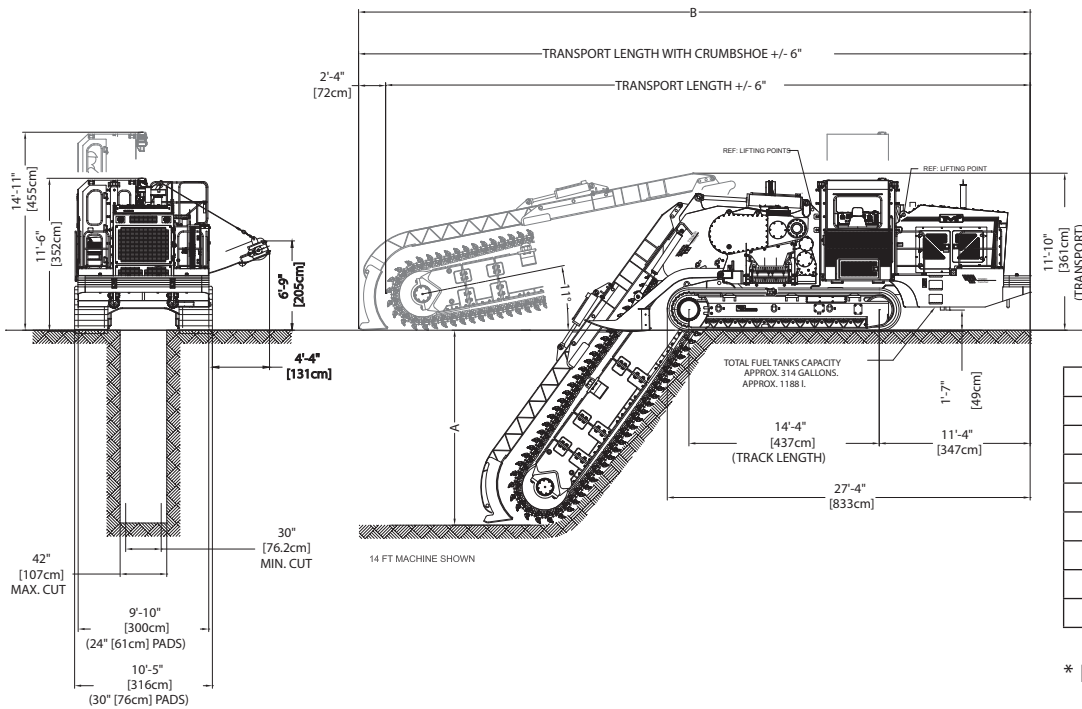
URBAN DRAINAGE WORKS



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 C13B ACERT Tier4 final  
 Max horsepower.....496 hp (370 kW)  
 Max no load rpm.....2,100 rpm  
 Fuel tank capacity.....314 gal (1.188 l)  
 Fuel consumption at full load.....25.5 gal/hr (97 l/hr)  
 AdBlue tank capacity.....24.6 gal (93 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/cm<sup>2</sup>)  
 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 length .....14' 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: Allison  
 Electronically controlled utilizing (4) digging speeds  
 Oil Filter ..... High Capacity Twin Filter  
 Capacity (Refill) .....9.8gal (37L)  
 Electrical System .....24V Controls

## 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

Ask Tesmec for a complete devices list