

# 1675 "EVO"



**TESMEC**  
Trencher



**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 Monitoring Systems

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



## TRENCHING DIMENSIONS

DOUBLE CHAIN  
NARROW BOOM

10'-24"  
305-732 cm

DOUBLE CHAIN  
WIDE BOOM

30"-48"  
76-122 cm

TRIPLE CHAIN  
BOOM

10'-22"  
305-671 cm

42"-60"  
107-152 cm

8'-14"  
244-427 cm

54"-72"  
137-183 cm

## FEATURES AND APPLICATIONS

Tesmec's largest Chainsaw trencher is conceived as a high-productivity machine for big diameter pipelines and utilities projects in hard rock. TrenchTronic 4.0 equipped, thanks to its 760 hp engine the 1675 "EVO" can cut trenches up to 24' (732 cm) deep and 72" (183 cm) wide. The peak of excellence for big projects in the toughest excavating conditions.



PIPELINE CONSTRUCTION



UNDERGROUND POWERLINES  
INSTALLATION



LONG DISTANCE NETWORKS  
INSTALLATION



URBAN DRAINAGE WORKS



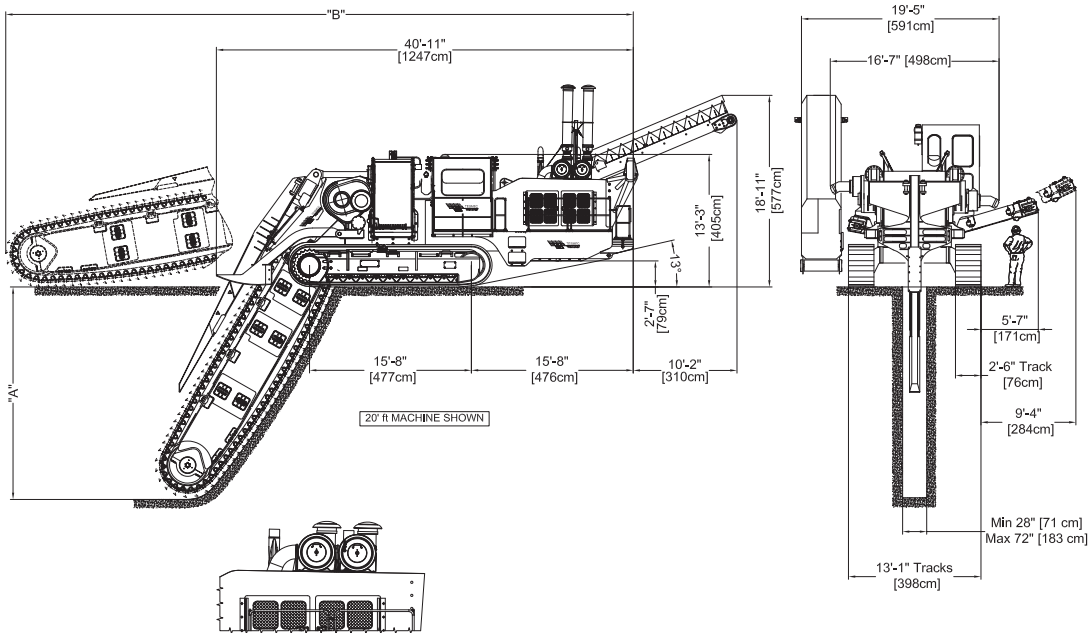
UNDERGROUND CONNECTION  
NETWORKS INSTALLATION



CHANNEL EXCAVATION



WATER AND SEWAGE NETWORKS  
INSTALLATION



FILTERS IN TRANSPORT CONFIGURATION

"A"	"B"
8' (244 cm)	49'-9" (1.514 cm)
10' (305 cm)	51'-3" (1.562 cm)
12' (366 cm)	52'-11" (1.613 cm)
14' (427 cm)	54'-9" (1.665 cm)
16' (488 cm)	56'-5" (1.718 cm)
18' (549 cm)	58'-2" (1.772 cm)
20' (610 cm)	60'-0" (1.828 cm)
22' (671 cm)	61'-10" (1.884 cm)
24' (732 cm)	63'-8" (1.940 cm)

## 1675 "EVO" CHAINSAW TECHNICAL SPECIFICATIONS

### Standard Features

Pressurized cab with air conditioning, heating, sound suppression  
 Elevating cab module with roll over protection (ROPS)  
 Battery box and toolbox with locking door  
 Engine doors with security locks  
 Gearboxes and hydraulic tanks: pressurized with filtered breathers  
 Vibration isolator mount: used on engine, radiator, oil cooler, and exhaust silencer  
 Conveyor fold: hydraulic winch  
 Lights: 24 V forward facing  
 Electrical system: 24 V

### Trenching Dimensions

#### DOUBLE CHAIN NARROW BOOM

- Max depth.....24' (732 cm)
- Standard widths range.....30"-48" (76-122 cm)

#### DOUBLE CHAIN WIDE BOOM

- Max depth.....22' (671 cm)
- Standard widths range.....42"-60" (107-152 cm)

#### TRIPLE CHAIN BOOM

- Max depth.....14' (427 cm)
- Widths range.....54"-72" (137-183 cm)

Note: dependent on configuration and options

### Engine

Model.....Cummins QSK 19  
 Max horsepower.....760 hp (567 kW)  
 Max no load rpm.....2.100 rpm  
 Fuel tank capacity.....430 gal (1.630 l)  
 Fuel consumption at full load.....36 gal/hr (136 l/hr)  
 Cooling rating adequate for 122° F (50° C) ambient air temperature @ 8.000 ft (2.438 m) altitude  
 Air cleaner: dry type, 2 stages with dual pre-cleaner

### Operating and Transport Weight

Weight.....235,000-330,700 lbs (110.000-150.000 kg)  
 Ground pressure.....21.6-29.5 psi (1,51-2.06 kg/cm<sup>2</sup>)  
 Note: dependent on configuration and options

### Trencher Drive

Hydrostatic: four pumps and two motors capable of transmitting full engine horsepower  
 Flywheel gearboxes, shaved, helical gearing, case hardened for extreme shock load  
 Infinitely variable digging attachment speeds:  
 Depths.....8' through 24' (244 cm through 732 cm)  
 Sectional Boom

5 operator selectable digging speed ranges:

- .....0-155 fpm (0-47 m/min)
- .....0-270 fpm (0-82 m/min)
- .....0-330 fpm (0-100 m/min)
- .....0-400 fpm (0-122 m/min)
- .....0-470 fpm (0-143 m/min)

Tailwheel diameter.....4' (122 cm)

Cutters: rotary carbide tipped 1 1/2" (3.8 cm) shank diameter

Digging chain: D9N

### 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.....0-2.1 mph (3.36 km/hr)
- Low range.....0-1.1 mph (1.76 km/hr)

Integral parking and service brake: spring applied, hydraulic release, wet disc brake

### Tracks

Overall track length.....15' 8" (477 cm)

Track pad type: single, double or triple grouser

Track chain type: Caterpillar 245B

Track pad width.....2' 6" (76 cm)

### Hydraulic Transmission

Pressure and flow compensated (load sensing)

Pump flow maximum.....65 gpm (245 l/min)

Pressure setting.....2.500 psi (172 bar)

Oil tank capacity.....235 gal (890 l)

### Cross Conveyor

Hydrostatic: one pump and two motor

Reversible and shiftable

Belt speed infinitely variable...0-900 fpm (0-274 m/min)

Discharge direction: right or left

Conveyor belt width.....3' 6" (107 cm)

Conveyor length.....17' 0" (518 cm)

or.....21' 0" (640 cm)

Discharge height.....8' 1" (246 cm)

or.....9' 10" (300 cm)

### Transport Dimensions

Length with boom and guard:

.....8 ft boom: 49'-9" (1.514 cm)

.....10 ft boom: 51'-3" (1.562 cm)

.....12 ft boom: 52'-11" (1.613 cm)

.....14 ft boom: 54'-9" (1.665 cm)

.....16 ft boom: 56'-5" (1.718 cm)

.....18 ft boom: 58'-2" (1.772 cm)

.....20 ft boom: 60'-0" (1.828 cm)

.....22 ft boom: 61'-10" (1.884 cm)

.....24 ft boom: 63'-8" (1.940 cm)

Length without boom:

only tractor with stabilizers.....40' 11" (1.247 cm)

Width.....16' 7" (498 cm) with 30" (76.2 cm) track pads\*

Height with low cab.....13' 3" (405 cm)

\* Width could be reduced to 163.4" (415 cm) removing digging motors

### Main Available Devices

ALL001 Air compressor

ALL003 Side mounted truck loading conveyor - not foldable and within transport dimension

ALL010 Automatic greasing

ALL012 Safety devices (flashing light, rear-view mirror, external emergency buttons)

OPT001 Lateral cleaners

OPT002 Fuel pump

OPT005 Laser automatic system for depth control

OPT011 Subscription for the Remote Asset Management (monitoring via GPRS) per year

OPT012 Work light package

OPT014 Video Camera

OPT015 3DGPS System for automatic machine guidance

OPT018 Closed engine doors

OPT023 Remote control for maintenance

A complete devices list is available at page 0040