

# 1475XL "EVO"



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

3'-9"  
91-274 cm

36"-66"  
91-168 cm

## FEATURES AND APPLICATIONS

Bucket Wheel trencher conceived as a high-productivity machine for big diameter pipelines and utilities projects in dirt and light rocky soils, this model can dig up to 9' (274 cm) deep and 66" (168 cm) wide. Its buckets can be equipped with conical or spade tools to ensure the maximum productivity according to the different ground conditions.



PIPELINE CONSTRUCTION



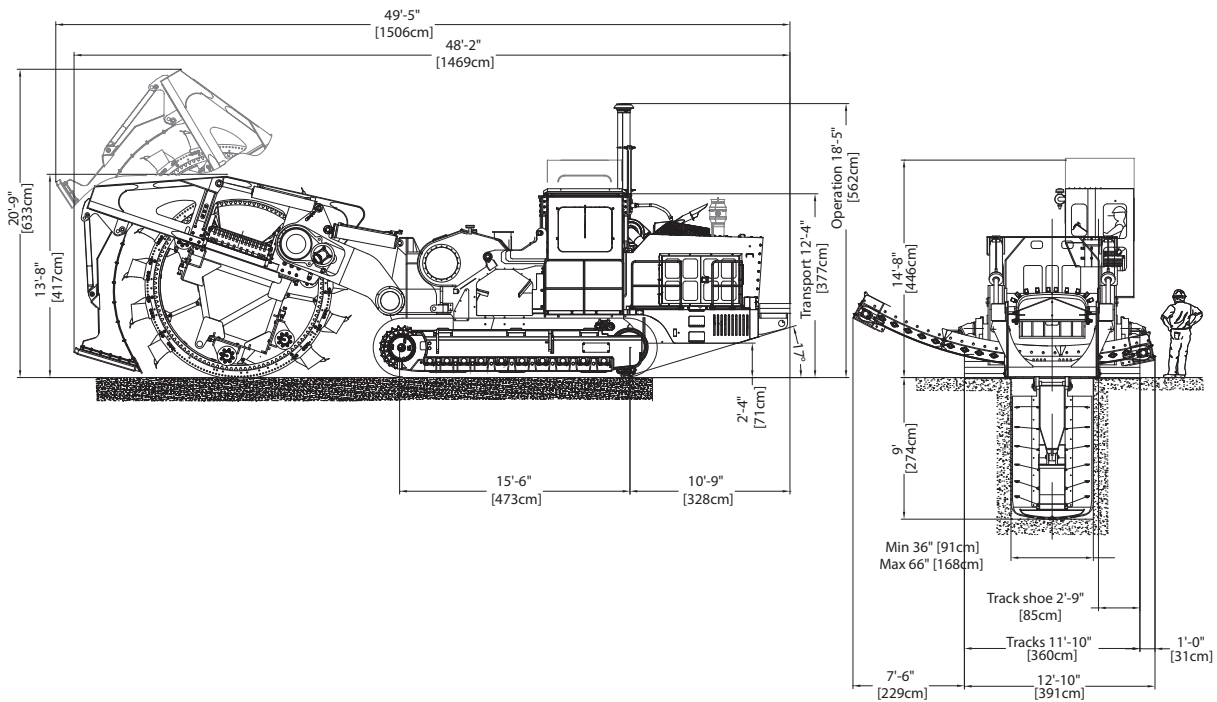
UNDERGROUND POWERLINES  
INSTALLATION



CHANNEL EXCAVATION



WATER AND SEWAGE NETWORKS  
INSTALLATION



## 1475XL "EVO" BUCKET WHEEL TECHNICAL SPECIFICATIONS

### Standard Features

Pressurized, elevating ROPS and FOPS cab with air conditioning, heating, sound suppression  
 Battery box and toolbox with locking door  
 Fuel and hydraulic tank: aircraft quality locking caps  
 Flywheel gearbox and hydraulic tanks: pressurized with 5 psi (0.3 bar) filtered breathers  
 Flywheel gearbox: shaved, helical gearing, case hardened for extreme shock load  
 Vibration isolator mount: used on engine, radiator, oil cooler, and exhaust silencer  
 Lights: 24 V forward facing  
 Digging chain boom top roller  
 Hydraulic digging chain adjustment  
 Hydraulic cooler externally mounted  
 Electrical system: 24 V

### Trenching Dimensions

Depths.....3'-9" (91-274 cm)  
 Widths.....36"-66" (91-168 cm)  
 Note: dependent on configuration and options

### Engine

HIGHLY REGULATED COUNTRIES (EU, USA)  
 Model.....CAT C18 ACERT Tier 4 final/Stage IV  
 Max horsepower.....630 hp (470 kW)  
 Max no load rpm.....2,000 rpm  
 Fuel tank capacity.....420 gal (1,590 l)  
 Urea tank capacity.....25 gal (94.6 l)  
 Fuel consumption.....32.5 gal/hr (122.9 l/hr) at full load  
 Estimated max urea consumption at full load.....  
 .....3.5% of fuel consumption  
 Cooling rating adequate for 130° F (54.4° C) ambient air temperature  
 Air cleaner: dry type, centrifugal precleaner with primary and secondary filters

### LESSER-REGULATED COUNTRIES

Model.....CAT C18 ACERT Tier 3  
 Max horsepower.....630 hp (470 kW)  
 Max no load rpm.....2,000 rpm  
 Fuel tank capacity.....420 gal (1,590 l)  
 Fuel consumption.....34 gal/hr (128.8 l/hr) at full load  
 Cooling rating adequate for 130° F (54.4° C) ambient air temperature  
 Air cleaner: dry type, centrifugal precleaner with primary and secondary filters

### Operating and Transport Weight

Max weight.....201,303 lbs (91,309 kg)  
 Ground pressure.....15.92 psi (1,119 kg/cm<sup>2</sup>)  
 Note: dependent on configuration and options

### Trencher Drive

Hydrostatic: four pumps and two motors  
 Three operator selectable digging speed ranges:  
 .....0-7 rpm (351 ft/min) (107 m/min)  
 .....0-10 rpm (500 ft/min) (152 m/min)  
 .....0-12 rpm (600 ft/min) (183 m/min)  
 Digging rims: 1 1/2" Plate (3.81 cm) with forged steel segments multiple drilled for (15) or (18) bucket set-up  
 Available cutters: rotary carbide tipped 1 1/2 diameter (3.81 cm) shank, H&L dirt teeth and pockets, TESMEC combo pockets for dirt & conical tools, ESCO type teeth and adaptors, large conical blocks and bits

### 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:  
 • High range.....0-1.54 mph (0-2.47 km/hr)  
 • Low range.....0-0.77 mph (0-1.24 km/hr)  
 Integral parking and service brake: spring applied, hydraulic release, wet disc brake

### Tracks

Overall track length.....15' 6" (473 cm)  
 Track pad type: single grouser  
 Track chain type: Caterpillar 365/374 (1" 1/8 bolts)  
 Track pad width.....2' 9" (85 cm)

### Hydraulic Transmission

Pressure and flow compensated (load sensing)  
 Pump flow maximum.....45 gpm (170 l/min)  
 Pressure setting.....2,500 psi (172 bar)  
 Oil tank capacity.....191 gal (723 l)

### Headshaft Assembly

Hardened alloy steel shaft with multiple flanges for easy "digging-width" changes  
 Hardened reversible split drive sprockets

### Wheel Truck Assemblies

Four assemblies, two upper and two lower with standard 14" (35.6 cm) ride diameter wheels  
 Factory set heavy-duty tapered roller bearings  
 Heavy-duty mechanical seals with replaceable elements

### 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.....4' (122 cm)  
 Discharge height: variable  
 Manual conveyor fold

### Transport Dimensions

Length.....48' 2" (1,469 cm)  
 Width.....11' 10" (360 cm)  
 with digging motors removed, 2' 9" (85 cm) track pads  
 Height.....12' 4" (377 cm)  
 over wheel with (3) buckets removed from bottom and (2) from the top

### Main Available Devices

Ask Tesmec for a complete devices list