

# 1475 "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 3.1**  
**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



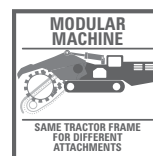
## TRENCHING DIMENSIONS

0-20" \*  
0-50 cm

13'9"  
420 cm

## FEATURES AND APPLICATIONS

The Rock Hawg version of the 1475 "EVO" model has been designed for continuous surface mining in rock, where its 13' 9" (420 cm) wide drum is employed in bulk-excavations projects, open-pit quarries, and very large diameter pipelines. Equipped with TrenchTronic 3.1, the 1475 "EVO"RH is Tesmec's largest Rock Hawg featuring a 630 hp engine. It can work up-cutting or down-cutting by simply changing the attachment.



BULK EXCAVATION WORKS



RAILWAY SOIL PREPARATION



SOIL RECLAMATION



TUNNEL WORKS

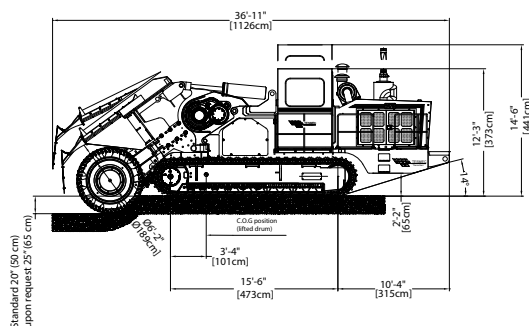


SURFACE MINING

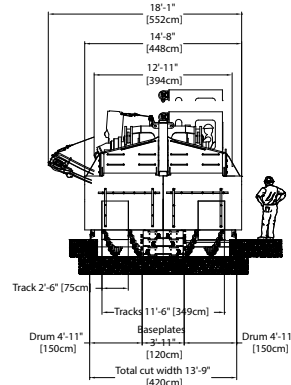
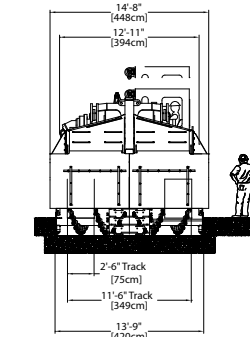
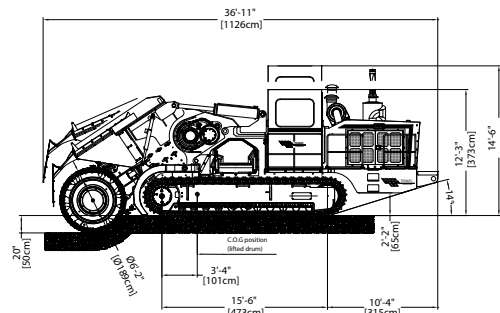


CHANNEL EXCAVATION

## DOWN-CUTTING



## UP-CUTTING



# 1475 "EVO" ROCK HAWG 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  
Fuel and hydraulic tank: aircraft quality locking caps  
Flywheel gearbox and hydraulic tanks: pressurized with 5 psi (0.3 bar) filtered breathers  
Vibration isolator mount: used on engine, radiator, oil cooler, and exhaust silencer  
Lights: 24 V forward facing  
Hydraulic cooler externally mounted  
Electrical system: 24 V

## Trenching Dimensions

Drum diameter.....6' 2" (188 cm)  
Excavation width.....13' 9" (420 cm)  
Excavation depths range\*.....0-20" (0-50 cm)\*  
Max recommended digging depth for maximum productivity.....12" (30 cm)  
Note: dependent on configuration and options  
\* Upon request for the DOWN-CUTTING version the max excavation depth can be increased up to 25" (65 cm)

## Engine

### LESSER-REGULATED COUNTRIES

Model.....CAT C18 ACERT Tier 3  
Max horsepower.....630 hp (470 kW)  
Max no load rpm.....2.100 rpm  
Fuel tank capacity.....360 gal (1.363 l)  
Fuel consumption at full load.....34.6 gal/hr (131 l/hr)  
Cooling rating adequate for 122° F (50° C) ambient air temperature  
Air cleaner: dry type, centrifugal pre-cleaner with primary and secondary filters

## Operating and Transport Weight

Weight.....240,000-255,000 lbs (108.863-115.670 kg)  
Ground pressure.....21.5-22.84 psi (1.51-1.60 kg/cm²)  
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  
5 operator selectable digging speed ranges:  
.....0-206 fpm (0-63 m/min)  
.....0-355 fpm (0-109 m/min)  
.....0-440 fpm (0-134 m/min)  
.....0-530 fpm (0-162 m/min)  
.....0-625 fpm (0-191 m/min)

Max.digging drum cutting torque:

- Peak: 248.67 kN m (183,410 ft lb)
- Continuous: 159.92 kN m (111,311 ft lb)

Cutters: rotary carbide tipped 1 1/2" (3.81 cm) shank diameter 3" (7.62 cm) gage  
Drum tool tip diameter.....74" (188 cm)

## 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.....0-1.62 mph (0-2.59 km/hr)  
• Low range.....0-0.81 mph (0-1.30 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, double or triple grouser  
Track chain type: Caterpillar D8K (1" bolts)  
Track pad width.....2' 6" (76 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)

## Cross Conveyor for up-cutting only

Hydrostatic: one pump and two motors  
Reversible and shiftable  
Belt speed infinitely variable...0-900 fpm (0-274 m/min)  
Discharge direction: right or left  
Conveyor belt width.....2' 12" (91.4 cm)  
Conveyor length.....14' 9" (450 cm)  
Discharge height.....7' 7" (231 cm)

## Transport Dimensions

Length with drum installed  
• with drum guard.....39' 5" (1202 cm)  
• without drum guard.....36' 4" (1108 cm)  
Length without drum (only Tractor).....30' 11" (942 cm)  
Width with drum installed.....13' 9" (420 cm)  
Width without drum.....12' 11" (394 cm)  
Width without digging motors.....11' 6" (349 cm)  
Height with cab.....12' 3" (373 cm)  
Height with cab elevated .....14' 6" (441 cm)

## Main Available Devices

ALL001 Air compressor  
ALL010 Automatic greasing  
ALL012 Safety devices (flashing light, rear-view mirror, external emergency buttons)  
ALL015 Pneumatic greasing  
OPT002 Fuel pump  
OPT003 Water spray dust suppression system  
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  
OPT025 Oil pump

For a complete devices list see the Available Devices chart