

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



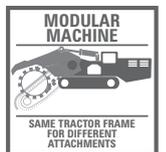
TRENCHING DIMENSIONS

0-1'8"
0-50 cm

13' 9"
420 cm

FEATURES AND APPLICATIONS

The Rock Hawk version of the 1475 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 4.0, the 1475 RH is Tesmec's largest Rock Hawk 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

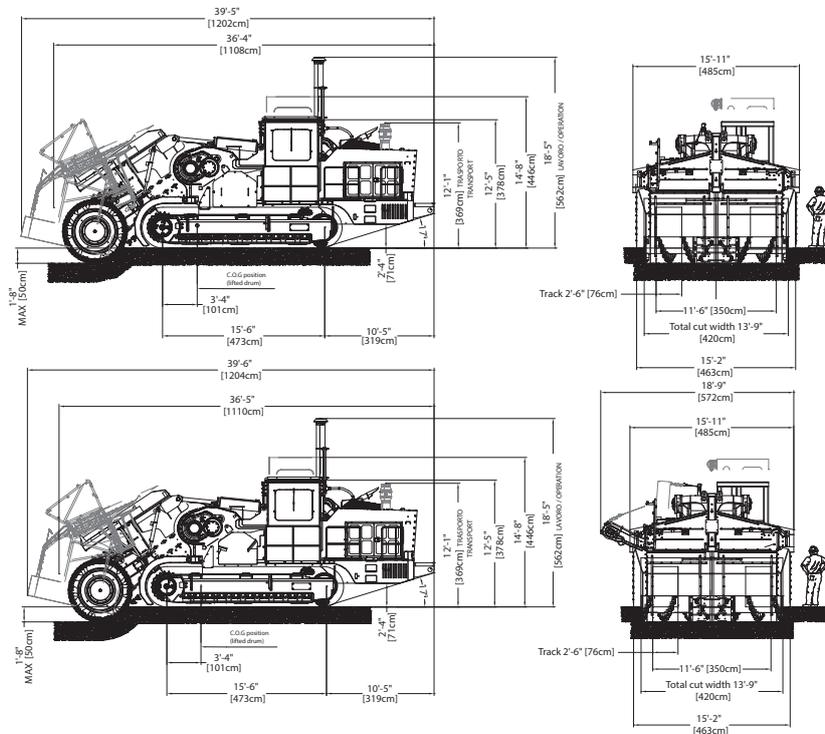


SURFACE MINING



CHANNEL EXCAVATION

DOWN-CUTTING



UP-CUTTING

1475XL "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
 Stabilizers / dirt drags (chainsaw only): automatically adjust to terrain changes
 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.....0-1' 8" (0-50 cm)
 Max recommended digging depth for maximum productivity.....1' 2" (35.6 cm)
 Note: max excavation depth can be increased upon request

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.....2.100 rpm
 Fuel tank capacity.....420 gal (1.590 l)

Fuel consumption.....34.6 gal/hr (131 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

Weight.....240,000-255,000 lbs (108.861-115.665 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)
0-595 fpm (0-181 m/min)

Cutters: rotary carbide tipped 1 1/2" (3.81 cm) shank diameter 3" (7.62 cm) gage
 Drum tool tip diameter.....6' 2" (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:
 • 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: double demi-grouser (single grouser available as option)
 Track chain type: Caterpillar 365/374 (1" 1/8 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 (up-cutting only)

Hydrostatic: one pump and two motors
 Reversible and shiftable
 Belt speed infinitely variable...0-900 fpm (0-275 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" (943 cm)
 Width with drum installed.....13' 9" (420 cm)
 Width without drum.....13' 6" (411 cm)
 Width without digging motors.....11' 6" (350 cm)
 Height with cab.....12' 5" (378 cm)
 Height with cab elevated14' 8" (446 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
 OPT011 Subscription for the Remote Asset Management (monitoring via GPRS) per year
 OPT012 Work light package
 OPT014 Video Camera
 OPT015 3D GPS 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