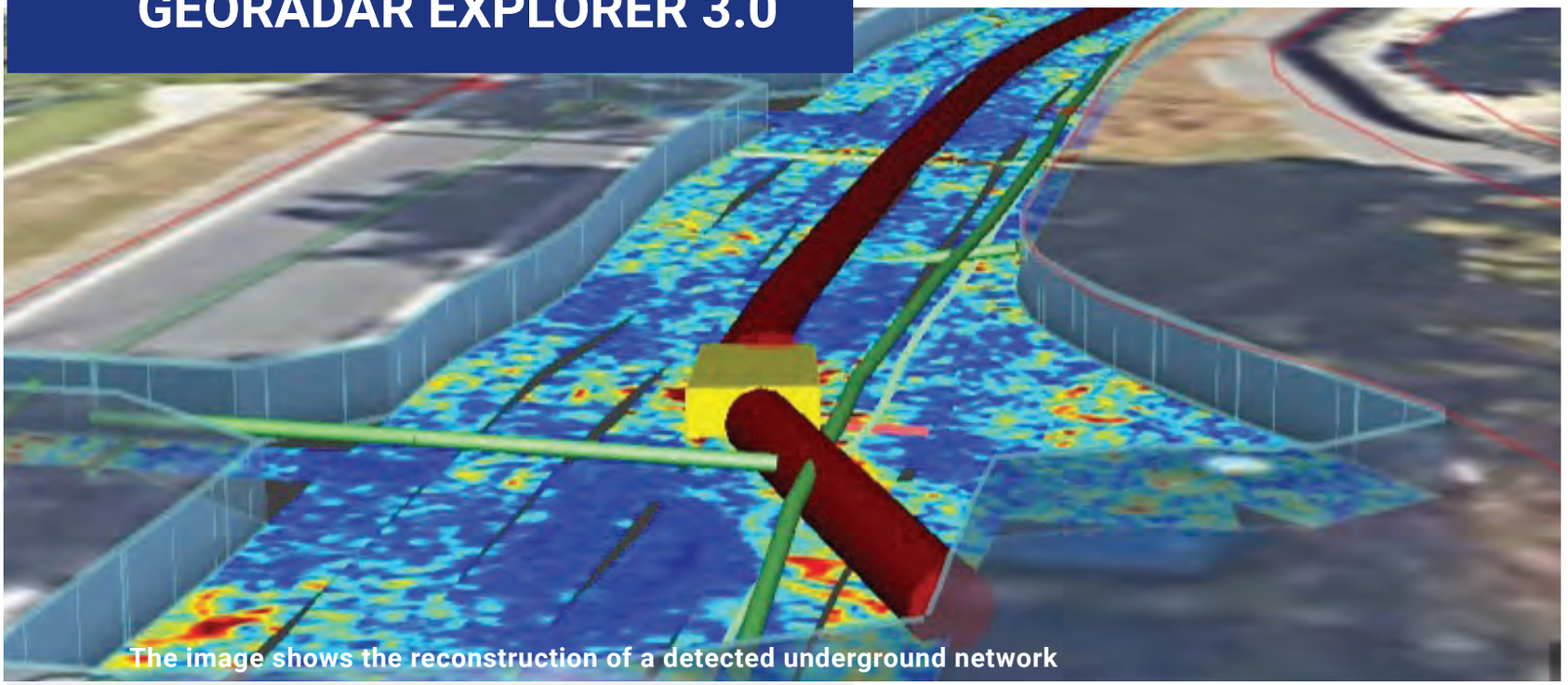
TESMEC

USA

GEORADAR EXPLORER 3.0



The image shows the reconstruction of a detected underground network

Tesmec Georadar Explorer 3.0 is a Ground Probing Radar - GPR - which detects underground utilities, optimizing trenching and laying operations.

This system has been developed to guarantee the safety of trenching work sites and to increase operational speed, avoiding utilities strike incidentes. Utilizing Explorer 3.0 reduces risks and costs by providing non destructive surveying to locate underground networks.

The 3.0 system has been reduced in size, making it easier and more practical. The new brackets lock and stabilize the antenna during acquisition, facilitating its movement. All the electronics, including the Control Unit, are inside the antenna box, which has been reduced in size and weight. The new lithium batteries, reduced in size and weight, replace the previous lead - acid batteries and guarantee a longer service life.

TECHNICAL DETAILS

- Reconstruction of any kind of underground networks
- Detection depth: up to - 13 ft
- Automatic Georeferenced data
- User friendly data aquisition software
- Two configurations: vehicle pulled “mobile” and hand pushed
- “trolley”
- Trolley configuration acquisition speed: 43,000 – 54,000 ft²/day
- Mobile configuration acquisition speed: 160,000 – 215,000 ft²/day

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SYSTEM SPECIFICATIONS

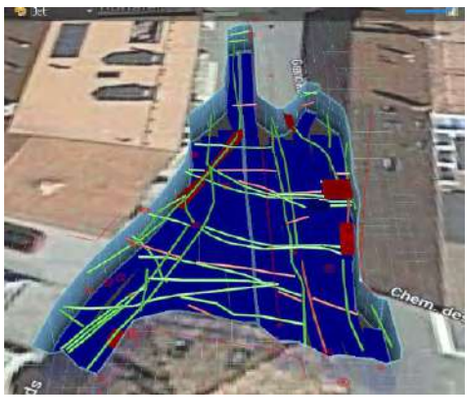
Sensor frequency	600 MHz
Weight	92 pounds
Scan width	32”
Number of channel	30 (19VV - 11HH)
VV channels spacing	1.7”
HH channels spacing	2.9”
Power consumption	
Acquisition	19 W
Stand-by	15 W
Max operating time	8 hrs (can be extended)
Environmental	Waterproof
Max. acquisition speed	8.7 mph
Positioning	Integrated Encorder and PPS
	External GPS and TPS
Certification	EC, FCC, IC
Recommended laptop	PANASONIC FZ - G2
Temperature range	- 4° F/ 122° F
Scan step resolution	1.5 ”

SOFTWARE SPECIFICATIONS

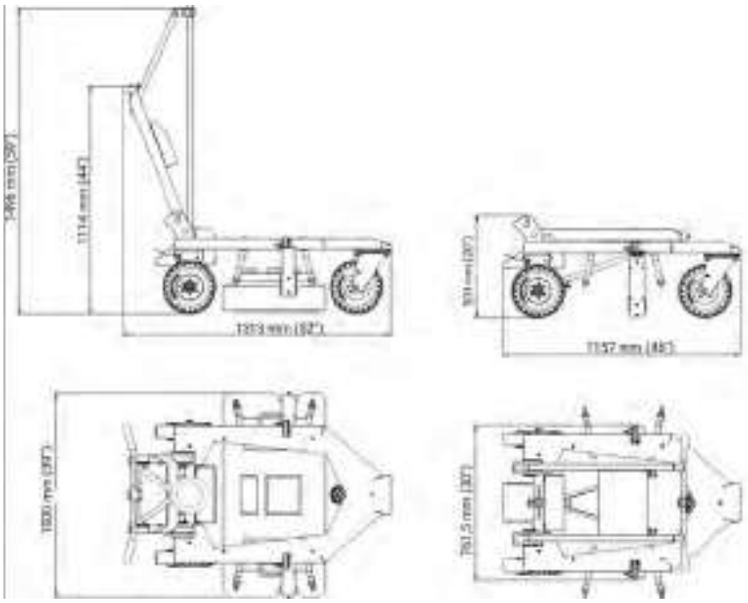
Umap - Acquisition software
Automatic calibration for an easy and quick start-up
Visualization and storage of antenna array data set (30 channels)
Visualization of radar tomography (time slices)
Connection with NMEA positioning device
Multilanguage support
Metric and imperial units
IQMaps - Processing software
Automatic calibration for an easy and quick start-up

Explorer 3.0 – hand pushed in “trolley” configuration

Explorer 3.0 – vehicle pulled in “mobile” configuration



The image shows the reconstruction of a detected underground network



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SIDECUT SC4P

The Tesmec SC4P Sidecut, a radio-controlled micro-trencher, is engineered to minimize disruptions during trenching operations

This advanced machine streamlines manpower requirements while bolstering safety measures and reducing environmental impact. Tailored specifically for urban fiber optic network deployment, the SC4P excels in maneuverability, featuring a full remote-controlled system and articulated steering. Its carrier, equipped with four-wheel drive, ensures precision in trenching radius curves, aided by the pivot tool's ±28 degree clearance in open or locked-down modes.

The tool's ±15 degree tilt facilitates easy wheel positioning regardless of ground slope. With a standard offset of 15 3/8" (39cm) right and 6 1/4" (16cm) left, the SC4P guarantees precise trench excavation, maintaining desired dimensions with remarkable smoothness and accuracy. Whether employed in urban development for utility installations or fiber projects, the SC4P Sidecut consistently delivers outstanding performance.

Furthermore, its seamless integration with a vacuum trailer ensures a debris-free road surface, further enhancing its efficiency and effectiveness.

STATE OF THE ART TECHNOLOGY

TrenchTronic **(standard)** The remote control with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

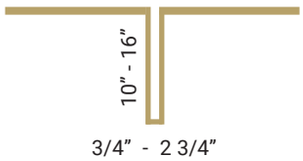
Re.M **(standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

Smart tracker **(optional)** Automatically collects as-built data while the machine

is trenching, avoiding survey stakeout while achieving a complete digitalization map of the job-site

TRENCHING DIMENSIONS

R400A with PCD



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TRANSPORT DIMENSIONS

	US	METRIC
Length	15’ 1”	460 cm
Width	3’ 5”	105 cm
Height	6’ 4”	193 cm
Weight	6,600 lbs	3.000 kg

ENGINE

	US	METRIC
Model and Max HP (kW)		
Stage V - Kohler KDI 2504	74 HP (55 kW)	
Tier 4 - Kohler KDI 2504	73 HP (54 kW)	
Max no load rpm	2000 RPM	
Fuel tank capacity	23 gal	86 L
Fuel consumption at full load	3.8 gal/hr	14.5 L/hr
Cooling rating	115°F ambient air	46°C ambient air
Air cleaner	Dry type, with primary and secondary filters	

TRANSMISSION

	US	METRIC
Type	Permanent four wheel drive	
Wheels	Solid	
Wheels dimensions	21x8-9	200/75-9
Rim Dimension	6.00E - 9	
Wheelbase	5’ 7”	170 cm
Tilting undercarriage	+/- 15°	

DRIVE

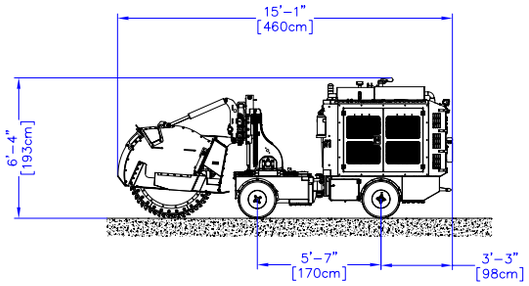
	US	METRIC
Drive	Hydrostatic with open circuit pump and orbital motors	
Fixed transfer speeds	5 speeds forward and 2 speeds reverse	
1st	5 fpm	1.6 m/min
2nd	10 fpm	3.1 m/min
3rd	21 fpm	6.6 m/min
4th	42 fpm	12.9 m/min
5th	90 fpm	27 m/min
1st rev	6 fpm	2.0 m/min
2nd rev	90 fpm	27 m/min
Working speed	variable	
	41 fpm	0 - 12.5 m/min
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

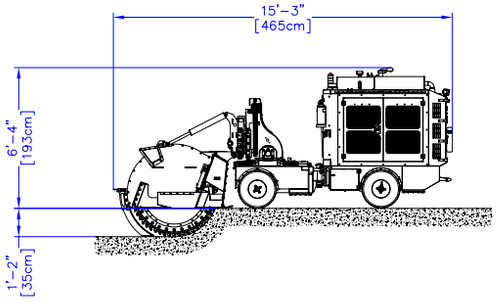
DIGGING DRIVE

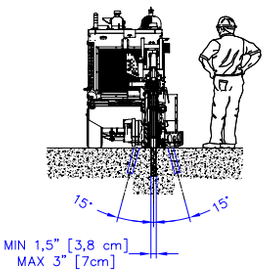
	US	METRIC
Drive	Hydrostatic closed circuit	
Digging speed ranges	96 rpm	
Cutters	Rotary carbide tipped or PDC	

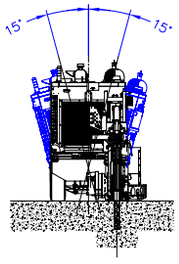
EXTERNAL VACUUM TRAILER

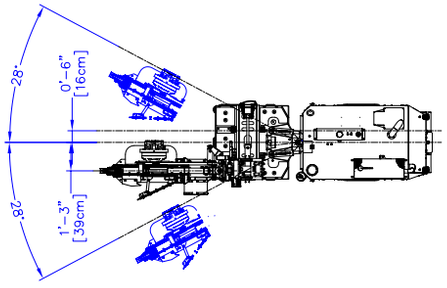
	US	METRIC
External vacuum trailer required		
Recommended vacuum trailer airflow	+1,000 CFM	1.700+

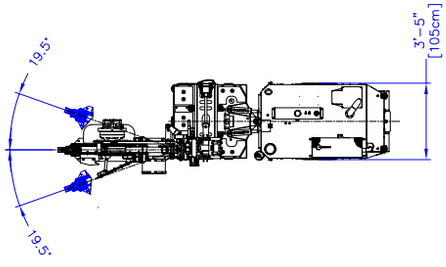












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CITYCLEANFAST

Tesmec City Cleanfast is the perfect solution for deploying fiber optic networks with exceptional efficiency, especially in urban areas and along roadways

It features a high-performance trencher designed for the cost-effective, clean and rapid installation of fiber and conduit networks. Equipped with an axially driven cutting wheel, it can simultaneously trench and vacuum, even when dealing with curved trenching. This ensures a clean job site and minimizes excavated debris due to the narrow wheel and a vacuum system that prevents material from being expelled during trenching. Tailored for urban micro trenching, the City Clean-fast comes with an onboard vacuum system, enabling both trenching and suction at the same time.

This innovative design also includes a sound - proofed shroud (minimizing disruptions to nearby residents), a 4-direc-tional wheel system for excellent maneuverability, a tilting wheel for vertical trenching, and the added advantage of requiring only one trained person to operate the remote-controlled machine. City Cleanfast delivers an efficient and eco-friendly solution for various network installations, making it the ideal choice for urban and roadway projects.

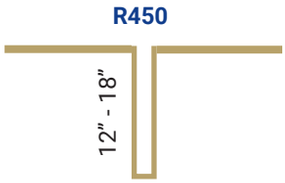
STATE OF THE ART TECHNOLOGY

***TrenchTronic* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system

***Re.M* (optional)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

***Smart tracker* (optional)** Automatically collects as-built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS



3/4” - 3-1/4” *

* Width up to 2-3/4”: PDC wheel recommended
Width 3” and over: Carbide wheel recommended

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TRANSPORT DIMENSIONS

	US	METRIC
Lenght	25' 5"	774 cm
Width	5' 7"	170 cm
Height	8' 10"	265 cm
Weight	19.460 lbs	8.830 Kg

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V PERKINS 1204J-E44TA	142 HP (105 kW)	142 HP (105 kW)
Max no load rpm		1.850 RPM
Fuel consumption	4 gal/h	15 L/h
Fuel tank capacity	42.3 gal	160 L
AD Blue/DEF consumption	0.16 gal/h	0.6 L/hr
Cooling rating	118°F ambient air	48°C ambient air
Air cleaner	Dry type, 2 stages with dual pre-cleaner	

CARRIER DRIVING

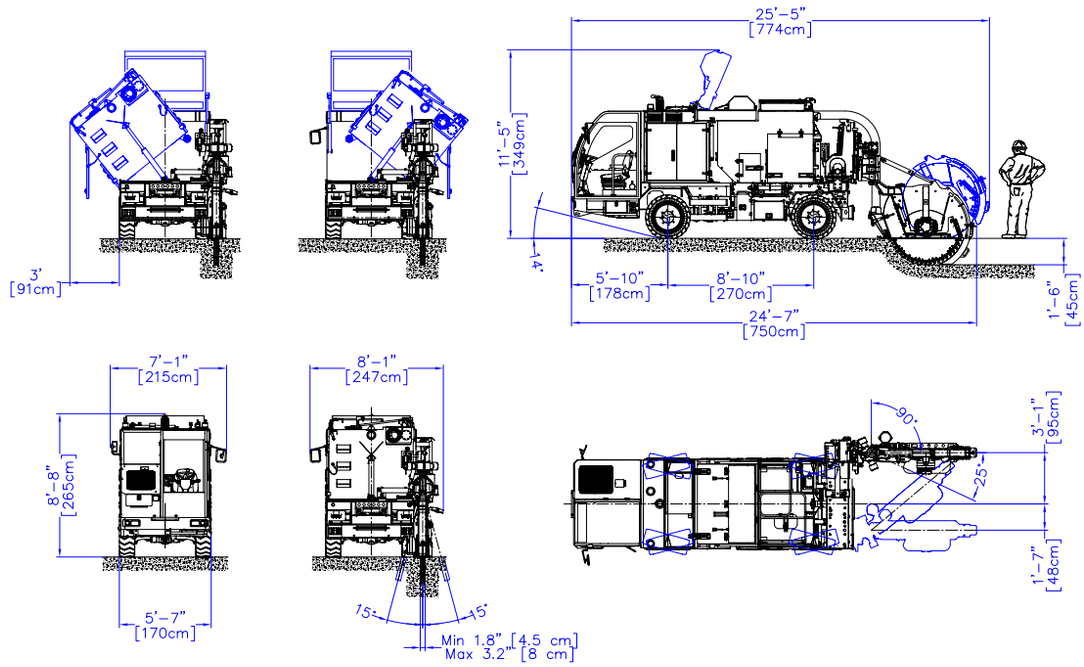
	US	METRIC
Road mode with one driving operator in the cab	0 - 9.37 mph	0 - 15 km/h
Transfer mode with remote control		
hare speed	0 - 98.4 fpm	0 - 30 m/min
turtle speed	0 - 24.6 fpm	0 - 7.5 m/min
snail speed	0 - 12.5 fpm	0 - 3.8 m/min
Transmission	Hydrostatic 2 x 2 driving wheels	
Modes		
2 steering wheels	Road / transfer / work modes	
4 steering wheels	Road / transfer / work modes	
Crab	Road / transfer / work modes	
Front axle	Oscillating	
Rear axle	Fixed	
Wheels		
Pneumatics	Full anti puncture	
Rims	7.5x20"	19x51 cm

DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, one pump and one motor	
Digging speed ranges	0 - 1024 fpm	0 - 312 m/min
	0 - 1122 fpm	0 - 342 m/min
	0 - 1181 fpm	0 - 360 m/min
Digging wheel	Single wheel	
Cutters	Rotary carbide tipped	
Cutters shank diameter	7/16"	1.12 cm
Cutters gage	1" 1/8	2.8 cm

DIGGING DRIVE

	US	METRIC
Turbine		
Flow	311.475 - 381.398 ft3/h	8.820 - 10.800 m3/h
Flow to 3300 rpm	330.545 ft3/h	9.360 m3/h
Depression	1.26 - 1.72 psi	8.700 - 11.900 Pa
Suction hose	Ø5.9"	Ø150mm
Air filtration		
Dust filters	Quantity: 21	
Emptying of delicate dust	Access doors left and right on tank	
Maintenance	Access from the top of the tank	
Filtered air discharge		
Cycle	Continuously	
Circuit	Through soundproof duct then in rooftop air	
Disclogging		
Type	OFF Line (Stop turbine) by compressed air flow	
Cycle	Manual start on remote control	
Cycle duration	1 min	
Air compressor	Flow 211 gal/min (800 L/min) - Pressure 145 Psi (10 bar) max	
Tank		
Capacity	264 gal (1 m3 gal) usable	
Materials emptying	Left or right lateral spill	
Materials packaging		
Bigbag	264 gallons or 3306 lbs (1 m3 or 1500 Kg) usable	
Ampliroll skip		



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CLEANFAST

Tesmec Cleanfast is designed and manufactured to specifically adhere to all U.S. specifications for road work while complying with stringent environmental regulations.

This machine incorporates state of-the-art technologies, offering the convenience of remote-control operation, ensuring safe and precise trenching for fiber and conduit cable installations.

With its innovative trenching capabilities and user-friendly interface, Cleanfast streamlines the process by combining trenching and vacuuming in a single pass, minimizing environmental impact and expediting traffic and pedestrian flow.

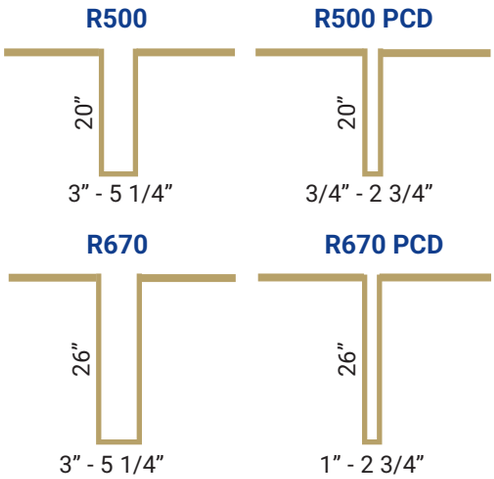
By bolstering productivity and contributing to the evolution of a cleaner and more robust infrastructure network, Cleanfast exemplifies the future of micro-trenching solutions.

STATE OF THE ART TECHNOLOGY

***Re.M* (standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

***Smart tracker* (optional)** Automatically collects as-built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS



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TRANSPORT DIMENSIONS

	US	METRIC
Lenght	37' 3"	1136 cm
Width	8' 6" (102")	250 cm
Height	12' (144")	360 cm
Weight		
R670AC	55,300 lbs	25.100 kg
R500	55,100 lbs	24.900 kg

ENGINE

	US	METRIC
Model and Max HP (kW)		
VOLVO VHD TRIDEM 8X6 D13 6	425 HP (317 kW)	425 HP (317 kW)
Max no load rpm	1.400 RPM	1.400 RPM
Fuel tank capacity	150 Gallons	570 L
Air cleaner	113°F ambient air	45°C ambient air

CARRIER DRIVING

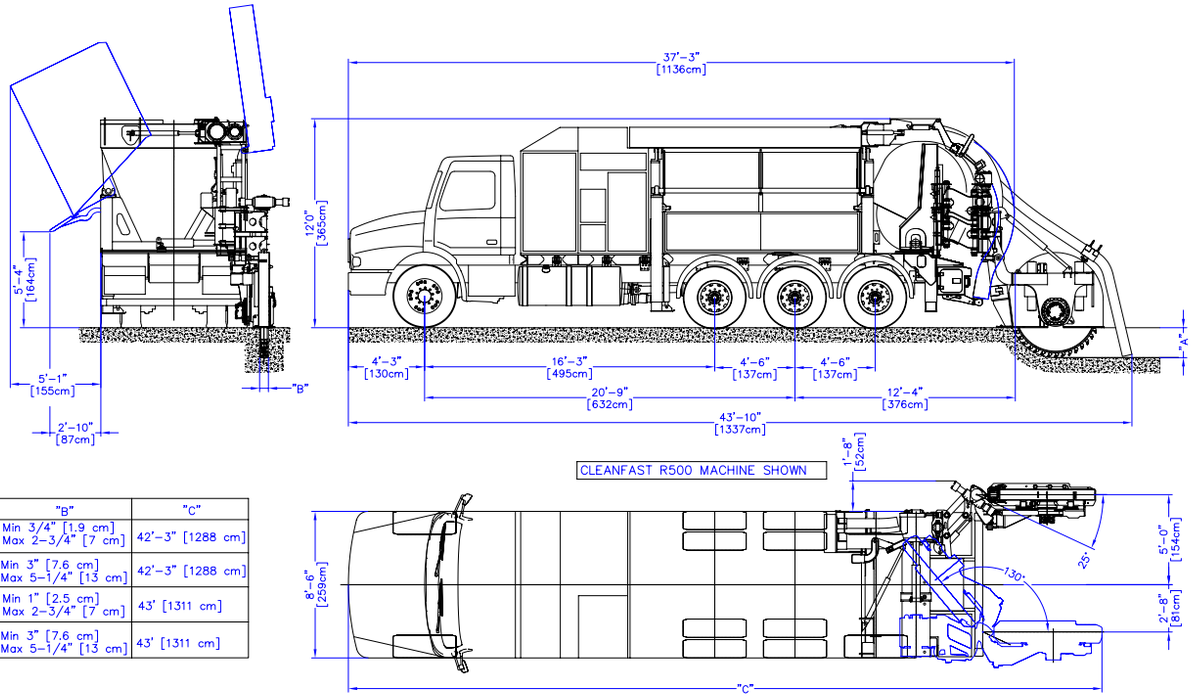
	US	METRIC
Road mode with one driving operator in the cab - Cruise speed	58 mph	93 km/h
Road mode with one driving operator in the cab - Max speed	65 mph	104 km/h
Work mode max	1700 ft/hr	0.5 km/hr
Transmission		
Gear box	Eaton 10 speed Fuller RTO-16908LL	
Torque	1599 lbs-ft	2168 Nm
Axle	Double reduction tandem	
Axle ratio	4.55	
Suspensions	Pneumatics	
Wheels		
Front tires	315/80 R22.5L	315/80 R22.5L
Rear tires	11/0 R22.5G	11/0 R22.5G
Trailed axle tires	11/0 R22.5G	11/0 R22.5G
Rims	Steel	

DIGGING DRIVE

		US	METRIC
Drive		Hydrostatic, one pump and one motor	
Digging speed ranges	R500	52 rpm	0 - 286 m/min
		54 rpm	0 - 300 m/min
		57 rpm	0 - 312 m/min
	R670	52 rpm	0 - 305 m/min
		54 rpm	0 - 335 m/min
		57 rpm	0 - 365 m/min
Digging wheel		Single wheel	2.5"
Cutters		Rotary carbide tipped	
Cutters shank diameter		9/16"	1.4 cm

SUCTION BASE

	US	METRIC
Turbine		
Flow	720.419 Ft3/h	20.400 m3/h
Depression	1.43 psi	9.870 Pa
Mein suction hose	Ø9.84"	Ø250mm
Secondary suction hose	Ø5.9"	Ø150mm
Air filtration		
Dust filters	Quantity: 40 (39.37 in + / 23.62 in)	
Emptying of delicate dust	By the bottom of dumpster during the spilling	
Filtered air discharge		
Cycle	Continuously	
Circuit	Through soundproof duct then in rooftop air	
Declogging		
Type	OFF Line (Stop turbine) by compressed air flow	
Cycle	Manual	
Air compressor	Flow 528 gal/min - Pressure 145 Psi max	
Dumpster		
Capacity	7 cubic yards	5.5 m3/1,453 gallons
Materials emptying	Left lateral spilling with déflector on dumpster and ground clearance of 1,60 m (5,25 Ft)	



TOOL	"A"	"B"	"C"
R500PCD	1'-8" [50 cm]	Min 3/4" [1.9 cm] Max 2-3/4" [7 cm]	42'-3" [1288 cm]
R500	1'-8" [50 cm]	Min 3" [7,6 cm] Max 5-1/4" [13 cm]	42'-3" [1288 cm]
R670PCD	2'-2" [66 cm]	Min 1" [2.5 cm] Max 2-3/4" [7 cm]	43' [1311 cm]
R670AC	2'-2" [66 cm]	Min 3" [7,6 cm] Max 5-1/4" [13 cm]	43' [1311 cm]

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TESMEC CUTTING WHEELS

Tesmec installs an Asphalt Wheel as a standard on all Micro-Trenchers (this includes SC4P Sidecut, City Cleanfast and Cleanfast). Other wheel options, depending on the jobsite, are Concrete Wheel and All Terrain Wheel.

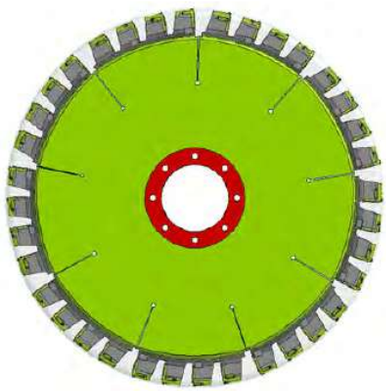
PDC wheels stand out due to their distinctive composition: a synthetic diamond compacted onto a tungsten carbide substrate, resulting in exceptional durability and precision.

Unlike traditional carbide picks, which fracture material, PDC wheels excel in shearing through rock formations, making them highly effective in challenging terrains. Engineered to efficiently cut trenches up to 2 ¾ inches wide, these wheels deliver unparalleled performance in the industry.

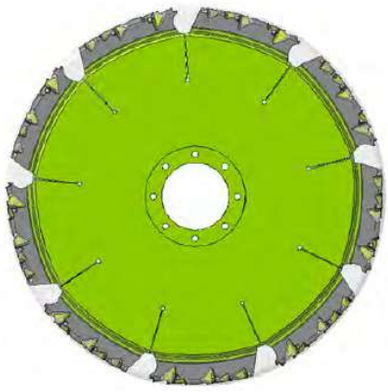
Tesmec offers a range of PDC wheel sizes, ensuring versatility to meet various project requirements. Moreover, PDC wheels significantly outlast carbide picks, reducing downtime and maintenance costs associated with pick changes.

TESMEC CUTTING WHEELS:

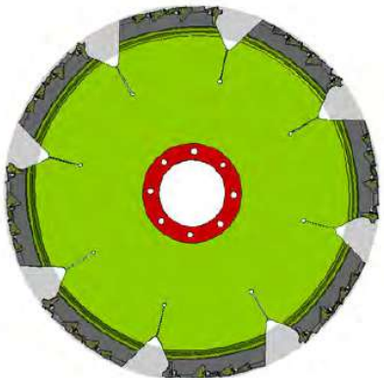
Asphalt Wheel (standard)



Concrete Wheel (optional)



All Terrain Wheel (optional)



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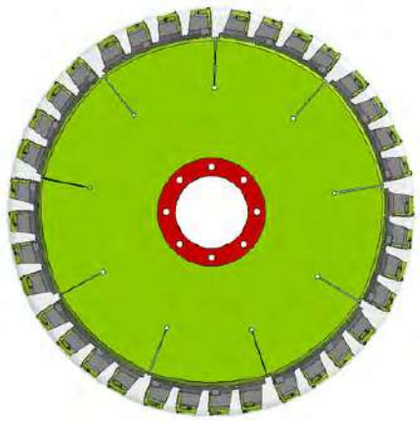
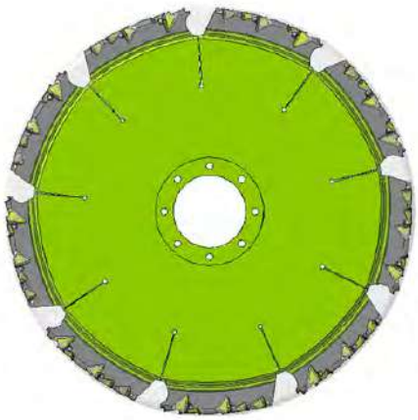
ASPHALT WHEEL (STANDARD)



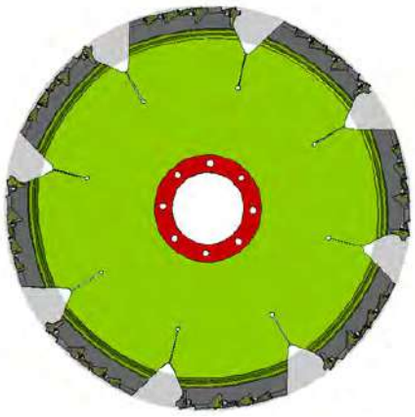
- High Diamond density
- Uses smaller 13mm PDC cutters
- Uses several small scoops to aerate small material like ¾” gravel
- Can also cut concrete, however, will show more wear when used in concrete than the Concrete Wheel

CONCRETE WHEEL (OPTIONAL)



- Highest Diamond density
- Uses 16mm PDC cutters for improved durability of the cutters
- Uses small scoops to allow for maximum density of the cutting structure
- Used in Concrete cutting and areas with underlying Cobble and Hard rock

ALL TERRAIN WHEEL (OPTIONAL)



- Lower Diamond density
- Uses 16mm PDC cutters
- Uses increased scoop size for mixed underlayment
- Used in Cobble or Hard rock, mixed with sand or smaller gravel. Used in areas where there is a mixed material in the underlayment

400MCT VP1100

The Tesmec 400 MCT with plow attachment is a specialized piece of equipment used in the construction and maintenance of utility and telecommunication infrastructure, specifically for installing underground cables and conduits.

This multifunctional piece of equipment not only excavates trenches but also possesses the ability to bury cables as it plows. This method can be more efficient than traditional trenching when you are working in soil-based environments, making it particularly suited for projects involving dirt terrains.
The 400 MCT allows for easy customization of the trench depth and width, adapting seamlessly to various size cables and conduits.
An added advantage is its remote-control functionality, empowering operators to expertly guide the machine along the optimal path, swiftly laying down cable and/or conduit from a secure distance. This not only expedites the installation process but also enhances safety measures by keeping operators out of harm's way.

STATE OF THE ART TECHNOLOGY

***TrenchTronic* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system

***Re.M* (standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

***Smart tracker* (optional)** Automatically collects as-built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

LAYING DIMENSION	US	METRIC
Max laying depth	3' 7"	110 cm
Max cable diameter 1st channel	2"-1/64	5.5 cm
Max cable diameter 2nd channel	2"	5 cm
Max width of warning tape	2"	5 cm
Number of channel for lightning conductors	3	

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TRANSPORT DIMENSIONS

	US	METRIC
Length	27' 7"	840 cm
Width	6' 0"	183 cm
Height	8' 7"	261 cm
Weight	22,000 - 24,000 lbs	10.000 - 10.900 Kg
Ground pressure	7.2 - 7.9 psi	0.51 - 0.56 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V VOLVO TAD583VE	238 HP (175 kW)	238 HP (175 kW)
Tier 3 VOLVO TAD552VE	218 HP (160 kW)	218 HP (160 kW)
Max no load rpm	1,700 RPM	1.700 RPM
Fuel tank capacity	50.2 gal	190 L
Fuel consumption (at full load)		
Tier 4/Stage V	11.04 gal/hr	41.8 L/hr
Tier 3	11.62 gal/hr	44 L/hr
AD Blue/DEF consumption		
Tier 4 / Stage V	0.68 gal/hr	2.59 L/hr
Cooling rating	130°F ambient air	54°C ambient air
Air cleaner	Power Core	

TRACKS

	US	METRIC
Track chain type	FL4	
Track lenght	7' 11"	241 cm
Track pad width	1' 4"	40 cm
Track pad type	Triple grouser (single availabe as option)	
Self-leveling (tilting) undercarriage	0' 8"	20 cm

CRAWLER DRIVE

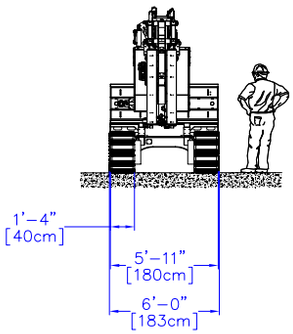
	US	METRIC
Drive	Hydraulic open circuit, planetary transmission	
	Full counter rotation	
Infinitely variable speed	Forward and reverse	
Working speed	0 - 0.72 mph	0 - 1.16 km/h
Transfer speed	0 - 1.20 mph	0 - 1.93 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

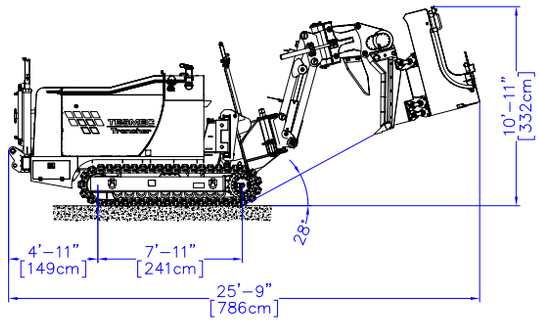
VIBRATORY CABLE PLOW

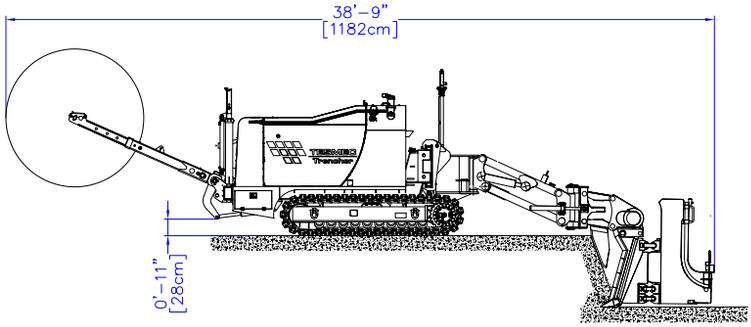
	US	METRIC
Max Traction force	100 kN	22.480 lbf
Simultaneously laying 3 pcs of cable		
Simultaneously laying 3 pcs of lightning conductors		
Simultaneously laying 2 pcs of warning tape		
Exit warning tape	Left and right	

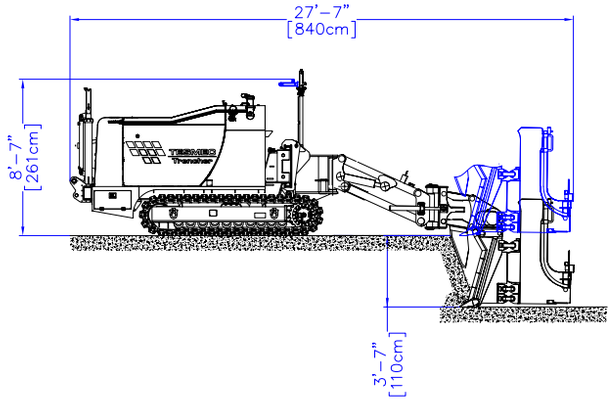
TRUCK LOADING CONVEYOR

	US	METRIC
Not available in this configuration		









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400MCT R670

The 400 Multicut – T670 Axial Rocksaw, a high-performance wheel trencher designed for both urban and rural Fiber Optic projects.

This versatile machine effortlessly handles radius curves and features a radiocontrolled system for improved operator visibility and safety.
It includes an offset back end cutting function and a convenient bucket loading conveyor, with the option to add a mechanical cable laying feature if required.
Engineered to work alongside road shoulders, this trencher minimizes traffic disruptions and environmental impact, with a reduced noise shroud and the ability to create a precise trench.
It comes equipped with a Remote Monitoring System (Re.M). The Smart Tracker integration automatically creates as-built maps during trenching, eliminating the need for post-project expenses. Optional enhancements like hydraulic rollers for the mechanical laying system, a bucket loading conveyor, and multi-attachment functionality expand its capabilities.
An additional feature available is a reel carrier for laying fiber while trenching, enhancing its overall versatility and functionality.

STATE OF THE ART TECHNOLOGY

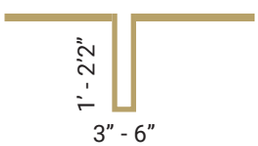
***TrenchTronic* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system

***Re.M* (standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

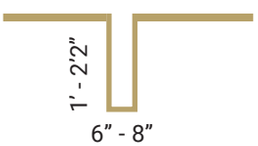
***Smart tracker* (optional)** Automatically collects as-built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS

R670 AXIAL WHEEL NARROW



R670 AXIAL WHEEL WIDE



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TRANSPORT DIMENSIONS

	US	METRIC
Length	26' 11"	820 cm
with dumper loading conveyor	29' 3"	893 cm
Width	6' 0"	183 cm
Height	8' 7"	261 cm
with dumper loading conveyor	12' 10"	390
Weight	25,300 - 29,700 lbs	11.500 - 13.500 Kg
Ground pressure	7.8 - 9.5 psi	0.59 - 0.70 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V VOLVO TAD583VE	238 HP (175 kW)	238 HP (175 kW)
Tier 3 VOLVO TAD552VE	218 HP (160 kW)	218 HP (160 kW)
Max no load rpm	1,700 RPM	1.700 RPM
Fuel tank capacity	50.2 gal	190 L
Fuel consumption (at full load)		
Tier 4/Stage V	11.04 gal/hr	41.8 L/hr
Tier 3	11.62 gal/hr	44 L/hr
AD Blue/DEF consumption		
Tier 4 / Stage V	0.68 gal/hr	2.59 L/hr
Cooling rating	130°F ambient air	54°C ambient air
Air cleaner	Power Core	

TRACKS

	US	METRIC
Track chain type	FL4	
Track lenght	7' 11"	241 cm
Track pad width	1' 4"	40 cm
Track pad type	Triple grouser (single availabe as option)	
Self-leveling (tilting) undercarriage	0' 8"	20 cm

CRAWLER DRIVE

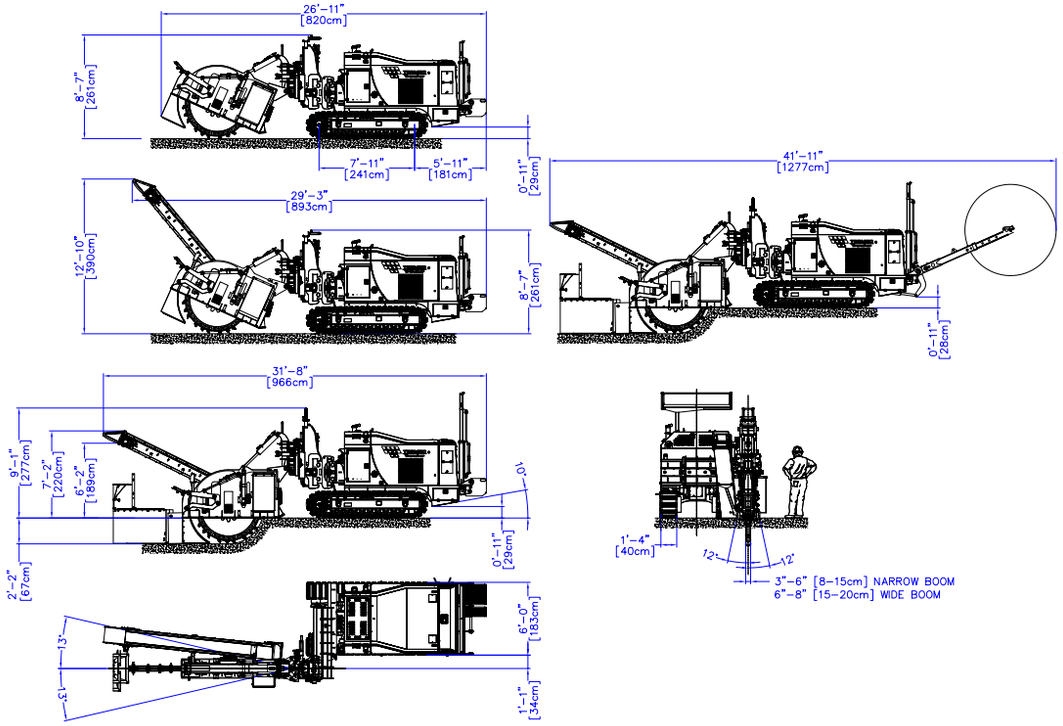
	US	METRIC
Drive	Hydraulic open circuit, planetary transmission	
	Full counter rotation	
Infinitely variable speed	Forward and reverse	
Working speed	0 - 0.72 mph	0 - 1.16 km/h
Transfer speed	0 - 1.20 mph	0 - 1.93 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, one variable displacement pump and one motor	
Digging speed ranges	0 - 1550 fpm	0 - 457 m/min
Cutters	Rotary carbide tipped	
Cutters shank diameter	0.8"	2.0 cm
Cutters gage	2"	5.1 cm
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DUMPER LOADING CONVEYOR (optional)

	US	METRIC
Conveyor belt speed	0 - 385 fpm	0 - 117 m/min
Conveyor belt width	1' 2"	35 cm
Conveyor lenght	13' 1"	400 cm
Discharge height	6' 6"	1985 mm



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400MCT RT1100

The Tesmec 400MCT – with its tangential wheel – stands out as a high-performance wheel trencher. The design caters to the demands of long-distance trenching for fiber optic, electric cable and small diameter water pipeline projects, whether situated in urban or rural environments.

This remote-controlled trencher lends to operator safety and productivity standards, by allowing the operator to have a comprehensive view of the surrounding area and trench line cut.
The 400 MCT will showcase an offset back end digging capability, while an optional mechanical cable laying concept can be incorporated upon request.
This machine can be outfitted with a Smart Tracker system that records real-time data logs and automatically generates as-built maps for greater project accuracy, saving time and money by eliminating the need for a third-party service.
Overall, the 400 MCT is a very versatile piece of equipment to add to your fleet.

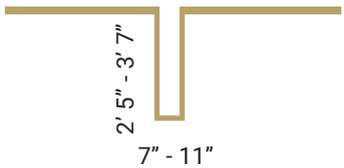
STATE OF THE ART TECHNOLOGY

***TrenchTronic* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system

***Re.M* (standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

***Smart tracker* (optional)** Automatically collects as-built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS



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TRANSPORT DIMENSIONS

	US	METRIC
Length	27' 0"	824
Width	6' 0"	183 cm
Height	8' 7"	261 cm
Weight	29.700 - 34.100 lbs	13.500 - 15.500 Kg
Ground pressure	9.9 - 11.3 psi	0.70 - 0.80 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V VOLVO TAD583VE	238 HP (175 kW)	238 HP (175 kW)
Tier 3 VOLVO TAD552VE	218 HP (160 kW)	218 HP (160 kW)
Max no load rpm	1,700 RPM	1.700 RPM
Fuel tank capacity	50.2 gal	190 L
Fuel consumption (at full load)		
Tier 4/Stage V	11.04 gal/hr	41.8 L/hr
Tier 3	11.62 gal/hr	44 L/hr
AD Blue/DEF consumption		
Tier 4 / Stage V	0.68 gal/hr	2.59 L/hr
Cooling rating	130°F ambient air	54°C ambient air
Air cleaner	Power Core	

TRACKS

	US	METRIC
Track chain type	FL4	
Track lenght	7' 11"	241 cm
Track pad width	1' 4"	40 cm
Track pad type	Triple grouser (single availabe as option)	
Self-leveling (tilting) undercarriage	0' 8"	20 cm

CRAWLER DRIVE

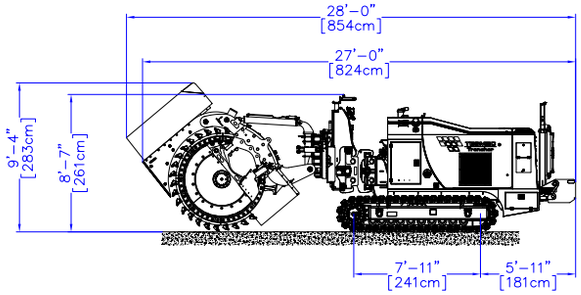
	US	METRIC
Drive	Hydraulic open circuit, planetary transmission	
	Full counter rotation	
Infinitely variable speed	Forward and reverse	
Working speed	0 - 0.72 mph	0 - 1.16 km/h
Transfer speed	0 - 1.20 mph	0 - 1.93 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

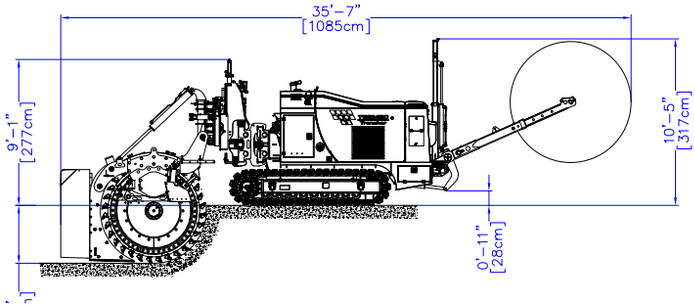
DIGGING DRIVE

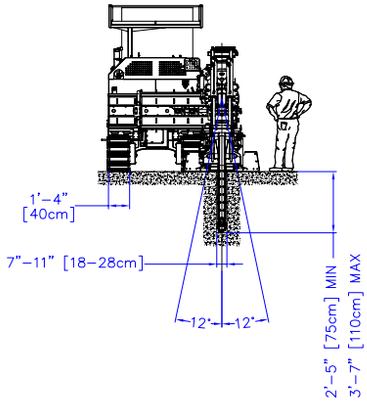
	US	METRIC
Drive	Hydrostatic, one variable displacement pump and one motor	
Digging speed ranges	0 - 885 fpm	0 - 270 m/min
Cutters	Rotary carbide tipped	
Cutters shank diameter	1"	2.5 cm
Cutters gage	2"	6.5 cm
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

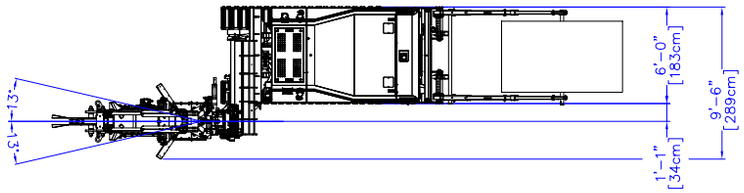
TRUCK LOADING CONVEYOR

	US	METRIC
Not available in this configuration		









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400MCT CS1200

Tesmec 400MCT with CS1200 is a 15 metric ton-class trencher featuring a 238 Hp (175 kW) tier 4 engine/ Stage V, or a 218 Hp (160 kW) tier 3 engine, designed for telecom and energy cables projects in urban and extra-urban areas

STANDARD FEATURES

Productivity Exploit the productivity of 400 MCT tractor and CS1200 chainsaw attachment, with an hydraulic offset of 70 cm (2' 4") from machine centerline either direction, an extra offset kit of max 34 cm (1' 1"), +/- 12° hydraulic tilt (rotation about horizontal axis) and +/- 13° hydraulic pivot (rotation about vertical axis). These are offered as standard together with crumbshoe, TrenchTronic and Re.M.

Modularity Enhance 400MCT potential thanks to its modularity. This model is available also with R670 axial wheel, RT1100 tangential wheel and VP1100 vibratory plow, making it the ideal solution for multiple applications.

Remote controlled Experience the radio control system, which enables the operator to control the machine remotely, increasing the safety in site, the visibility on the trenching area and on the trenching tool.

OPTIONAL FEATURES

- Side mounted truck loading conveyor, not foldable and swivelling end
- Reel carrier, rollers and laying box for mechanical laying
- Rubber track pads
- Smart Tracker

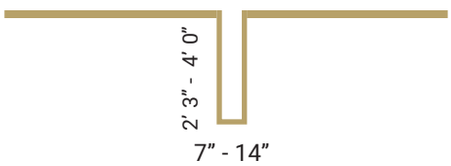
STATE OF THE ART TECHNOLOGY

***TrenchTronic* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system

***Re.M* (standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

***Smart tracker* (optional)** Automatically collects as-built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS



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TRANSPORT DIMENSIONS

	US	METRIC
Lenght	894 cm	29' 4"
with truck loading conveyor	1206 cm	39' 7"
Width	228 cm	7' 6"
with truck loading conveyor	255	8' 4"
Height	261 cm	8' 7"
with truck loading conveyor	289 cm	9' 6"
Weight	14,500 - 15,500 Kg	31.900 - 34.100 lbs
Ground pressure	0.75 - 0.80 kg/cm2	10.6 - 11.3 psi

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V VOLVO TAD583VE	238 HP (175 kW)	238 HP (175 kW)
Tier 3 VOLVO TAD552VE	218 HP (160 kW)	218 HP (160 kW)
Max no load rpm	1,700 RPM	1.700 RPM
Fuel tank capacity	50.2 gal	190 L
Fuel consumption (at full load)		
Tier 4/Stage V	11.04 gal/hr	41.8 L/hr
Tier 3	11.62 gal/hr	44 L/hr
AD Blue/DEF consumption		
Tier 4 / Stage V	0.68 gal/hr	2.59 L/hr
Cooling rating	130°F ambient air	54°C ambient air
Air cleaner	Power Core	

TRACKS

	US	METRIC
Track chain type	FL4	
Track lenght	7' 11"	241 cm
Track pad width	1' 4"	40 cm
Track pad type	Triple grouser (single availabe as option)	
Self-leveling (tilting) undercarriage	0' 8"	20 cm

CRAWLER DRIVE

	US	METRIC
Drive	Hydraulic open circuit, planetary transmission	
	Full counter rotation	
Infinitely variable speed	Forward and reverse	
Working speed	0 - 0.72 mph	0 - 1.16 km/h
Transfer speed	0 - 1.20 mph	0 - 1.93 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DIGGING DRIVE

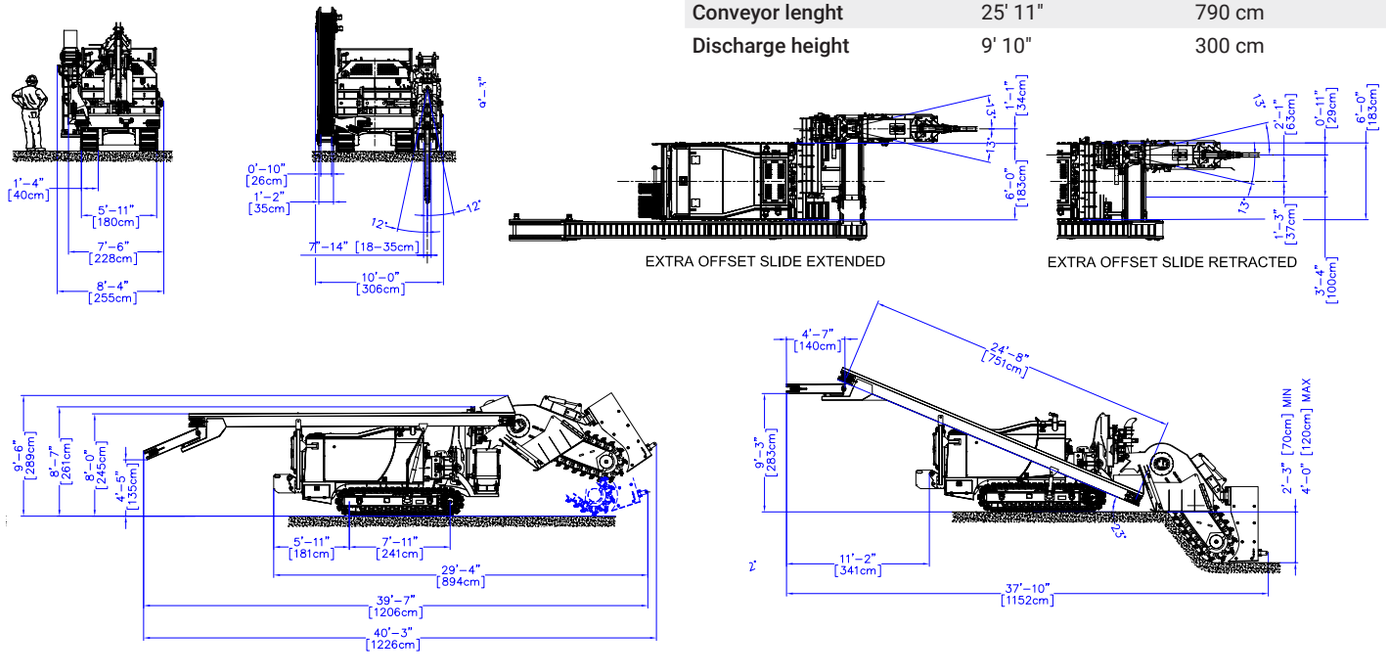
	US	METRIC
Drive	Hydrostatic, one variable displacement pump and one motor	
Digging speed ranges	0 - 630 fpm	0 - 192 m/min
Digging chain	Tesmec single strand with 4.5" (11.4 cm) pitch chain, "K" or "M" style	
Cutters	Rotary carbide tipped	
Cutters shank diameter	7/8"	2.2 cm
Cutters gage	2"	5.1 cm

TRUCK LOADING CONVEYOR

	US	METRIC
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 385 fpm	0 - 117 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	1' 2"	35 cm
Conveyor lenght	8' 3"	250 cm
Discharge height	2' 5"	74 cm

TRUCK LOADING CONVEYOR WITH SWIVELING END (OPTIONAL)

	US	METRIC
Conveyor belt speed	0 - 385 fpm	0 - 117 m/min
Conveyor belt width	1' 2"	35 cm
Conveyor lenght	25' 11"	790 cm
Discharge height	9' 10"	300 cm



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950R CHAINSAW

Tesmec 950R Chainsaw is a mid-size versatile trencher designed for in-line excavation for fiber optic installation, power cables, water & gas pipes.

It features offset digging chain to work in close proximity to the shoulder of the road, tilting tracks for not levelled grounds, elevating cab and – as main optional – automatic cable laying system, back-filling system and truck loading conveyor. This machine guarantees speed of execution and extreme accuracy allowing for time and costs savings, as it is able to trench, load materials onto a truck, lay the cable and backfill the trench.

The TrenchTronic 4.0, TrenchIntel, Re.m and Smart Tracker state of the art technologies maximize excavation efficiency, increase productivity, fleet monitoring and recording data.The Smart Tracker acts as a GPS data recorder, serving as an as-built data logger that records the exact path the trencher has covered, resulting in significant time and cost savings and providing solid project proof upon completion.

950R tractor can also be equipped with Rocksaw attachments.

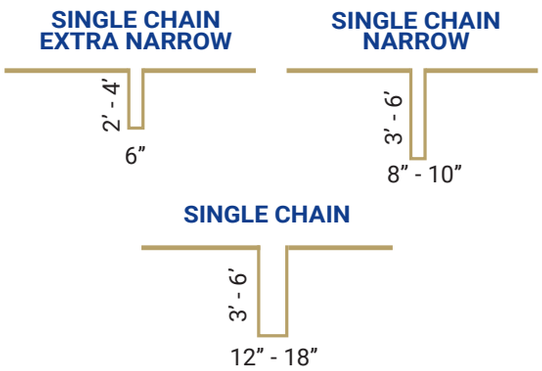
STATE OF THE ART TECHNOLOGY

TrenchIntel The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control

TrenchTronic 4.0 Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system

Re.M The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TRENCHING DIMENSIONS



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TRANSPORT DIMENSIONS

		US	METRIC
Length *	3 ft boom	36' 2"	1.103 cm
	4 ft boom	37' 3"	1.135 cm
	5 ft boom	39' 2"	1.171 cm
	6 ft boom	39' 6"	1.203 cm
Length **	2 ft 2 in. boom	36' 5"	1.110 cm
	2 ft 9 in. boom	36' 9"	1.120 cm
	3 ft 1/2 in. boom	37'	1.128 cm
	3 ft 4 in. boom	37' 4"	1.138 cm
	4 ft boom	37' 7"	1.145 cm
Width		8' 4"	254 cm
Height		9' 11"	302 cm
Weight		44,100 - 63,900 lbs	20.000 - 29.000 Kg
Ground pressure		9.24 - 13.63 psi	0.65 - 0.94 kg/cm2

* Single Chain Narrow, Single Chain and Double Link Chain
** Single Chain Extra Narrow

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V CAT C7.1 ACERT	275 HP (205 kW)	275 HP (205 kW)
Tier 3 CAT C7.1 ACERT	275 HP (205 kW)	275 HP (205 kW)
Max no load rpm	2,150 RPM	2.150 RPM
Fuel tank capacity	119 gal	450L
Fuel consumption (at full load)		
Tier 4/Stage V	14.5 gal/hr	55 L/hr
Tier 3	14.3 gal/hr	54 L/hr
AD Blue/DEF consumption		
Tier 4/Stage V	0.58 gal/hr	2.20 L/hr
Cooling rating	115°F ambient air	46°C ambient air
Air cleaner	Dry type, two stages with pre-cleaner and automatic dust ejection	

TRACKS

	US	METRIC
Track chain type	FL6	
Track lenght	9' 11"	303 cm
Track pad width	1' 8"	50 cm
Track pad type	Triple grouser	
Self-leveling (tilting) undercarriage	Track tilt angle +5° / -5° Automatic/manual operation	

CRAWLER DRIVE

	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Single lever steering and single lever direction	
Infinitely variable speed	Forward and reverse	
	0 - 1.6 mph	0 - 2.6 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DIGGING DRIVE

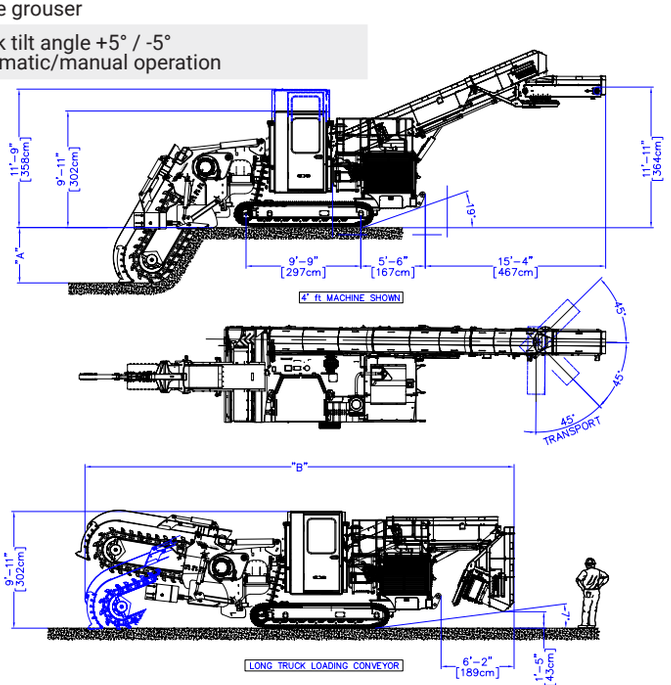
	US	METRIC
Drive	Hydrostatic, one variable displacement pump and one motor	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 574 fpm	0 - 175 m/min
Digging chain	Tesmec single strand with 11.4 cm (4.5") pitch chain, "K" or "M", or a special 10.2 cm (4") pitch chain "M welded" style	
Digging chain adjustment	Positive locking	
Digging chain boom top roller	Yes	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1 - 1/2"	3.81 cm
Cutters gage	3"	7.62 cm

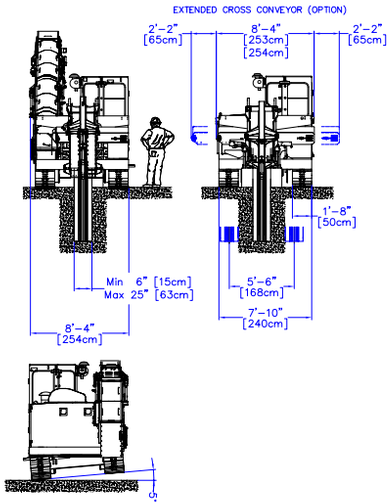
CROSS CONVEYOR

	US	METRIC
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 1.150 fpm	0 - 350 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	1' 8"	50 cm
Conveyor lenght	6' 1"	185 cm

EXTRA NARROW		
BOOM	"A"	"B" LONG TLC
2'2"	2'2" [66 cm]	36' 5" [1110 cm]
2'9"	2'9" [84 cm]	36' 9" [1120 cm]
3'1/2"	3'1/2" [92,7 cm]	37' 0" [1128 cm]
3'4"	3'4" [102 cm]	37' 4" [1138 cm]
4'	4' [122 cm]	37' 7" [1145 cm]

NARROW , SINGLE		
BOOM	"A"	"B" LONG TLC
3'	3' [91 cm]	36' 2" [1103 cm]
4'	4' [122 cm]	37' 3" [1135 cm]
5'	5' [152 cm]	38' 4" [1171 cm]
6'	6' [183 cm]	39' 6" [1203 cm]





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985 CHAINSAW

The Tesmec 985 Chainsaw (shown with a boom attachment) is a mid-size self-leveling offset trencher designed to cater to a diverse customer base, spanning from highway and pipeline contractors to those engaged

Powered by a caterpillar engine, this versatile machine features a center-mounted conveyor that efficiently transfers excavated material directly to a truck positioned in front,effectively conserving space.
This 985 Chainsaw boasts the TrenchTronic 4.0 technology, enhancing its user-friendliness for the operator.
This machine has been exceptionally engineered and crafted to offer formidable cutting performance, establishing itself as the gold standard among chainsaws. With an unwavering commitment to delivering exceptional results. Armed with state-of-the-art technology and exceptional features, it has become an indispensable companion for professionals who demand unparalleled cutting performance and the ultimate tool for confidently tackling demanding jobs.

STATE OF THE ART TECHNOLOGY

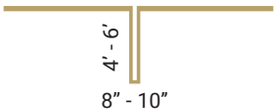
TrenchIntel The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control

TrenchTronic 4.0 Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system

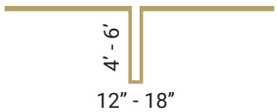
Re.M The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TRENCHING DIMENSIONS

SINGLE CHAIN NARROW BOOM

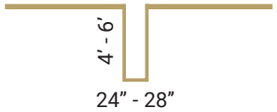


SINGLE CHAIN BOOM



DOUBLE LINK BOOM

DOUBLE CHAIN BOOM



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TRANSPORT DIMENSIONS

		US	METRIC
Lenght (with TLC)	4 ft boom	39' 11"	1.217 cm
	5 ft boom	41' 1"	1.252 cm
	6 ft boom	42' 3"	1.287 cm
Width		8' 4"	254 cm
Height		10' 4"	315 cm
Weight		64,000 - 88,200 lbs	29.000 - 40.000 kg
Ground pressure		13.2 - 17.4 psi	0.93 - 1.22 kg/cm2

ENGINE

		US	METRIC
Model and Max HP (kW)			
Tier 4/Stage V	CAT C9.3B	375 HP (280 kW)	
Max no load rpm		2,000 RPM	
Fuel tank capacity		174 gal	660 L
Fuel consumption (at full load)		18 gal/hr	68 L/hr
AD Blue/DEF consumption		0.63 gal/hr	2.38 L/hr
Cooling rating		130°F ambient air	54°C ambient air
Air cleaner		Dry type, 2 stages with pre-cleaner and automatic dust ejection	

TRACKS

	US	METRIC
Track chain type	D5	
Track lenght	9' 9"	298 cm
Track pad width	1' 10"	55 cm
Track pad type	Triple grouser	
Self-leveling (tilting) undercarriage	Track tilt angle +7° / -7°, Automatic/manual operation	

CRAWLER DRIVE

	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering and single lever direction	
Infinitely variable speed	Forward and reverse	
High range	0 - 2.00 mph	0 - 3.2 km/h
Low range	0 - 1.38 mph	0 - 2.2 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

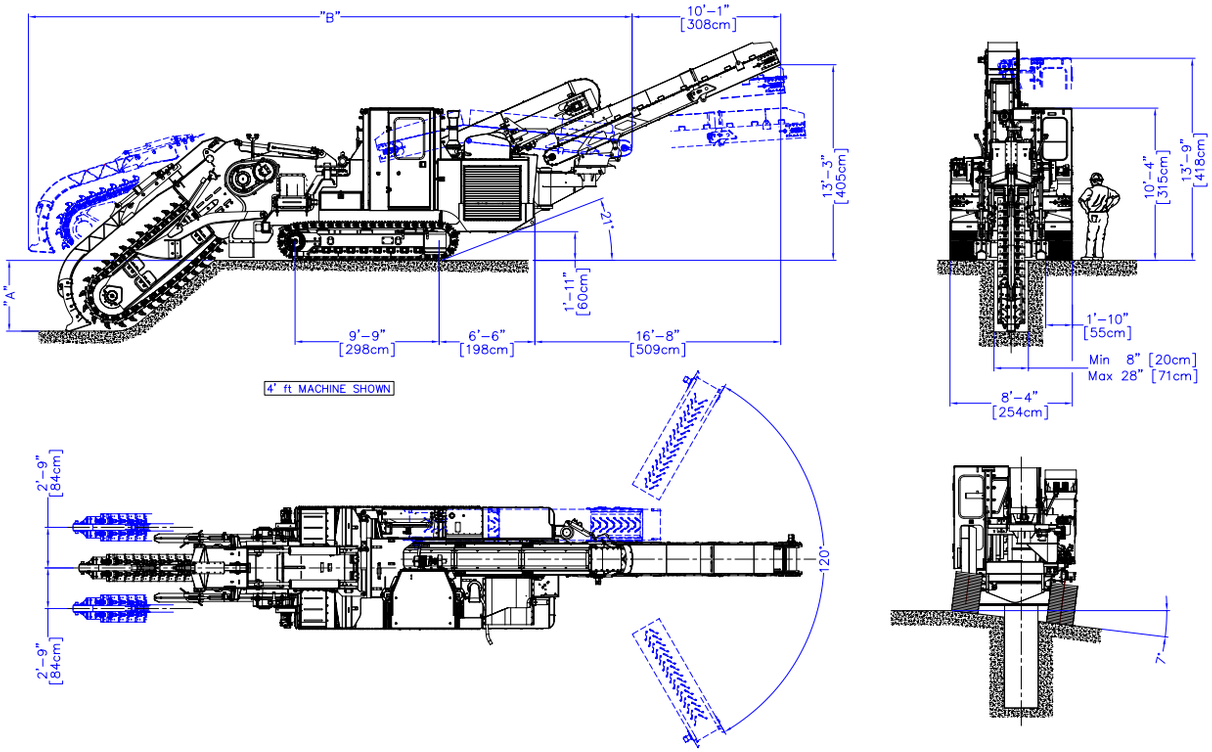
DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, one pump and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed range	0 - 525 fpm	0 - 160 m/min
Digging chain	Tesmec single strand or double link with 11.4 cm (4.5") pitch chain, "K" or "M" style	
Digging chain adjustment	Positive locking	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1 - 1/2"	3.81 cm
Cutters gage	3"	7.62 cm

CROSS CONVEYOR

	US	METRIC
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 1.250 fpm	0 - 380 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	2' 0"	61 cm
Conveyor lenght	8' 2"	249 cm

BOOM	"A"	"B"
4'	4' [122 cm]	39'–9" [1217 cm]
5'	5' [152 cm]	41'–1" [1252 cm]
6'	6' [183 cm]	42'–3" [1287 cm]



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1075 CHAINSAW

The Tesmec 1075 Chainsaw trencher is specifically designed to excel in trenching operations within rocky terrains, with a primary focus on serving pipeline and utility projects.

What sets this machine apart is its seamless integration with the advanced TrenchTronic 5.0 technology. This feature enhances its overall capabilities and precision, with less dependance on the operator's expertise. This intuitive system facilitates more efficient trenching processes, ensuring tasks are carried out with precision and minimal complexity.
This specialized equipment proves invaluable in improving efficiency and productivity on infrastructure projects that entail trenching through rugged, rocky soils.
With Re.M, operators and project managers can gain valuable insights into the equipment's performance and ensure its optimal functionality while on the job.
Adding the SmartTracker system, equipped with GPS data recording capabilities, contributes to the overall efficiency of the trenching operations. By doing so, it significantly reduces both time and cost, all while providing comprehensive project documentation upon the project's completion.

STATE OF THE ART TECHNOLOGY

TrenchTronic 5.0 **(standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

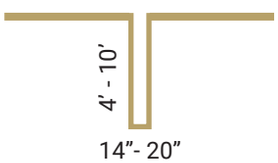
Re.M **(Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

SmartTracker **(Optional)** Automatically collects as built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

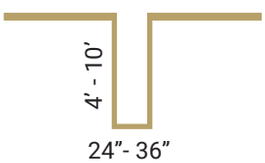
TRENCHING DIMENSIONS

SINGLE CHAIN BOOM



14"- 20"

DOUBLE CHAIN BOOM



24"- 36"

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TRANSPORT DIMENSIONS

		US	METRIC
Lenght	4 ft boom	32' 5"	988 cm
	6 ft boom	34' 8"	1.057 cm
	8 ft boom	36' 11"	1.125 cm
	10 ft boom	39' 2"	1.194 cm
Width		9' 9"	296 cm
Height		10' 7"	323 cm
Weight		82,900 - 98,100 lbs	37.600 - 44.500 kg
Ground pressure		9.8 - 11.5 psi	0.69 - 0.81 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V CAT 9.3B ACERT	375 HP (280 kW)	375 HP (280 kW)
Max no load rpm	2,000 RPM	2.000 RPM
Fuel tank capacity	195 gal	738 L
Fuel consumption (at full load)	19.5 gal/hr	73.8 L/hr
AD Blue/DEF consumption	0.63 gal/hr	2.38 L/hr
Cooling rating	135°F ambient air	57°C ambient air
Air cleaner	Dry type, centrifugal precleaner with primary and secondary filters	

TRACKS

	US	METRIC
Track chain type	38/320	
Track lenght	11'	336 cm
Track pad width	2' 8"	81 cm
Track pad type	Single, double or triple grouser	

CRAWLER DRIVE

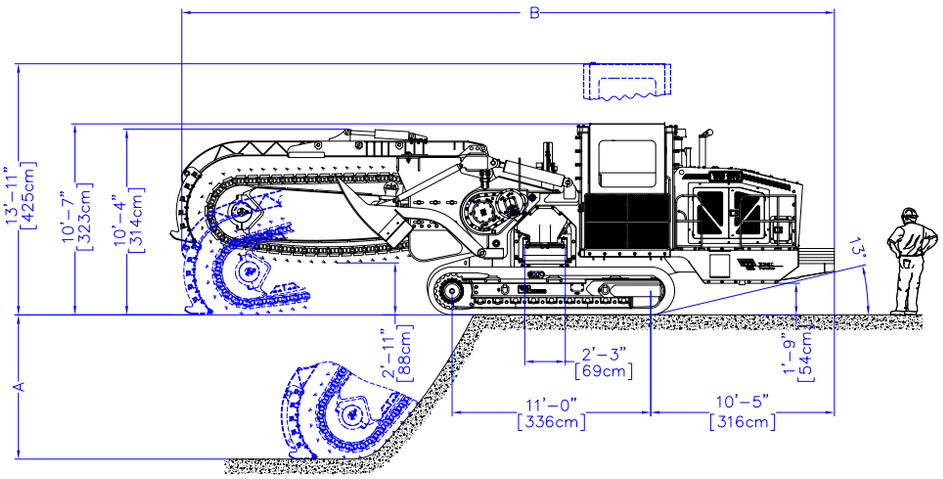
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 2.5 mph	0 - 4 km/h
Low range	0 - 1.1 mph	0 - 1.7 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

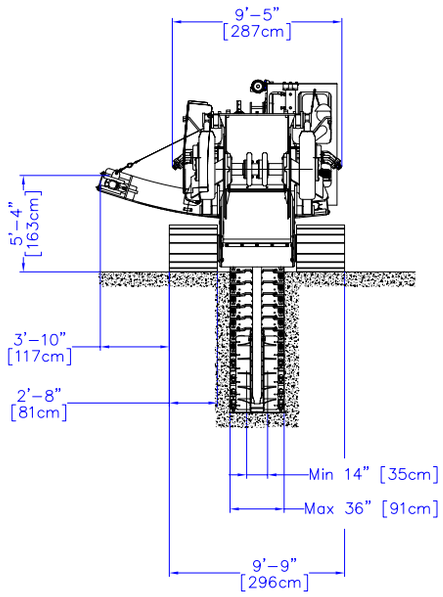
DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 500 fpm	0 - 152 m/min
Digging chain	Tesmec single strand with 4.5" (11.4 cm) pitch chain, "K" style and D6 for the double boom only	
Digging chain adjustment	Hydraulic	
Digging chain boom top roller	Yes	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1/2"	3.81 cm
Cutters gage	3"	7.62 cm
Materials packaging	Roll-on/Roll-off Dumpster and ground spilling	

CROSS CONVEYOR SYSTEM

	US	METRIC
Conveyor belt speed	0 - 750 fpm	0 - 229 m/min
Conveyor reversible and shiftable	Yes	Yes
Conveyor discharge direction	Right or left	Right or left
Conveyor belt width	2' 3"	69 cm
Conveyor lenght	11'	335 cm





BOOM	"A"	"B"
4'	4' [123 cm]	32'– 5" [988 cm]
6'	6' [183 cm]	34'– 8" [1057 cm]
8'	8' [244 cm]	36'– 11" [1125 cm]
10'	10' [305 cm]	39'– 2" [1194 cm]

Pictures & drawings can be different according to technical specifications - Updating programme variations without notice are possible

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1075 ROCKSAW

The Tesmec 1075 rock saw is a formidable and high-powered machine designed for tackling the most challenging rock-cutting tasks with unparalleled precision and efficiency.

This robust piece of heavy machinery boasts a striking combination of power and precision, making it anindispensable tool for the construction and infrastructure industries. With its imposing steel frame and cutting-edge technology, the Tesmec 1075 stands as a testament to engineering excellence. Its large, diamondtipped cutting blade effortlessly slices through solid rock, concrete, and other tough materials, producing clean and precise cuts that are vital for various applications like trenching, road construction, and utility installations. The operator's cab is spacious and ergonomically designed, providing both comfort and safety, while advanced controls ensure that even the most intricate cuts are executed with ease. The Tesmec 1075 rock saw is the embodiment of reliability and power, and it continues to be an indispensable asset for demanding projects worldwide.

STATE OF THE ART TECHNOLOGY

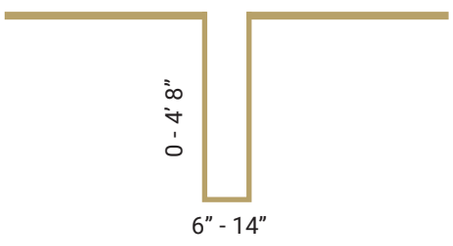
TrenchTronic 5.0 **(standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

Re.M **(Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

SmartTracker **(Optional)** Automatically collects as built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS



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TRANSPORT DIMENSIONS

	US	METRIC
Length	33' 5"	1.018 cm
Width	9' 2"	280 cm
Height	12' 1"	368 cm
Weight	80,900 - 87,000 lbs	36.700 - 39.500 kg
Ground pressure	12.6 - 13.6 psi	0.89 - 0.96 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V CAT 9.3B ACERT	375 HP (280 kW)	375 HP (280 kW)
Max no load rpm	2,000 RPM	2.000 RPM
Fuel tank capacity	195 gal	738 L
Fuel consumption (at full load)	19.5 gal/hr	73.8 L/hr
AD Blue/DEF consumption	0.63 gal/hr	2.38 L/hr
Cooling rating	135°F ambient air	57°C ambient air
Air cleaner	Dry type, centrifugal precleaner with primary and secondary filters	

TRACKS

	US	METRIC
Track chain type	38/320	
Track lenght	11'	336 cm
Track pad width	2' 8"	81 cm
Track pad type	Single, double or triple grouser	

CRAWLER DRIVE

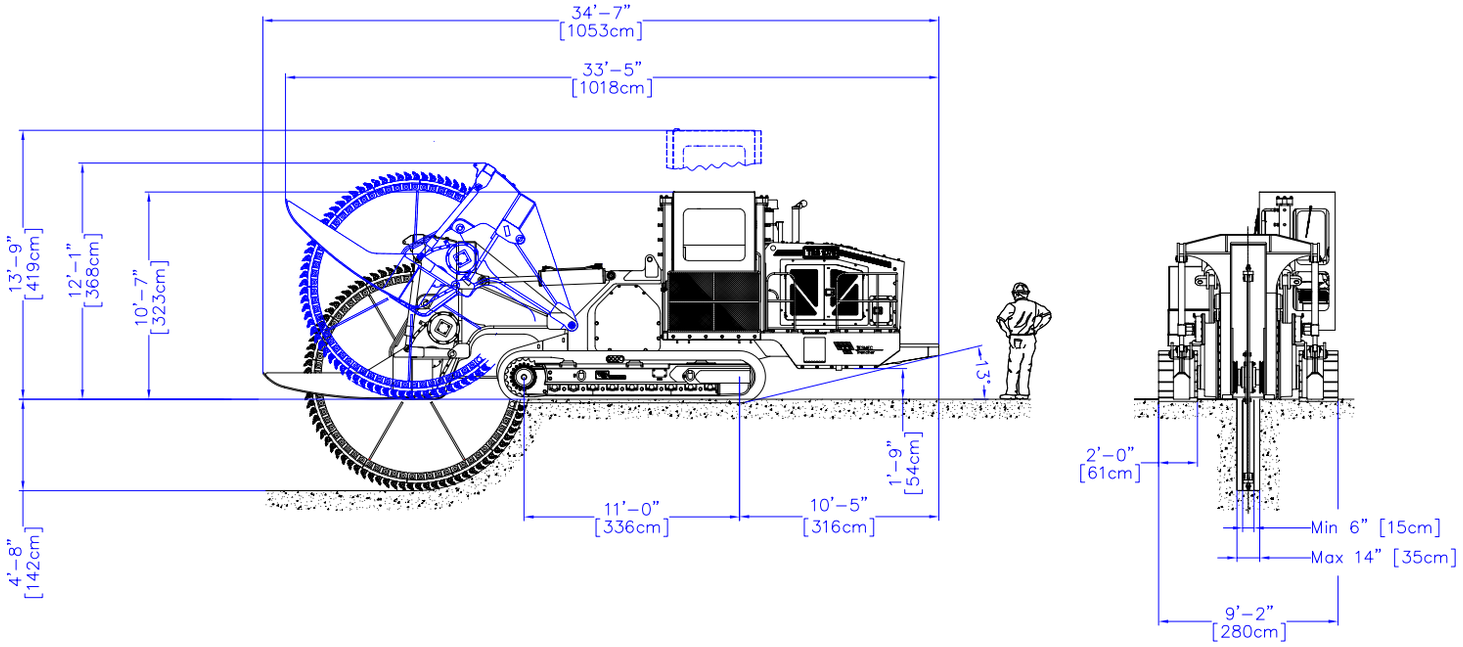
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 4 km/h	0 - 2.5 mph
Low range	0 - 1.7 km/h	0 - 1.1 mph
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 617 fpm	0 - 188 m/min
Cutters for rock configuration	Rotary carbide tipped	
Cutters shank diameter	1 - 1/2"	3.81 cm
Cutters gage	3"	7.62 cm

CROSS CONVEYOR SYSTEM

	US	METRIC
Not available in this configuration		



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1075 BUCKET WHEEL

The Tesmec 1075 Bucket Wheel is a robust excavation and trenching machine designed for a range of industrial applications, particularly in pipeline and cable construction.

Renowned for its remarkable efficiency in excavating and removing significant volumes of dirt or light rocky soil, it offers several key features. These include a rotating bucket wheel equipped with cutting teeth for efficient material removal, a conveyor system for transporting excavated materials, and a sturdy, self-propelled chassis that ensures mobility and stability during operations. Furthermore, the bucket wheel's size can be customized to meet specific job requirements, providing flexibility for a variety of excavation needs. This versatile machine finds utility in heavy-duty tasks, including mining, infrastructure development, and construction projects, due to its efficient operation and mobility, making it an invaluable asset across various industries with substantial excavation and material handling demands.

STATE OF THE ART TECHNOLOGY

***TrenchTronic 5.0* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

***Re.M* (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

SmartTracker (Optional)

TRENCHING DIMENSIONS

7' ROCK 11" - 16" BUCKET

7' DIRT 11" - 28" BUCKET

8' DIRT 11" - 16" BUCKET

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TRANSPORT DIMENSIONS

	US	METRIC
Length	38'	1.159 cm
Width		
complete machine with motors	10' 2"	310 cm
without digging motors	9' 9"	296 cm
Height	10' 7"	323 cm
Weight		
"Dirt"	83,100 - 91,900 lbs	37.700 - 41.700 kg
"Rock"	87,000 - 90,100 lbs	39.500 - 40.900 kg
Ground pressure		
"Dirt"	9.8 - 10.8 psi	0.69 - 0.76 kg/cm2
"Rock"	9.8 - 11 psi	0.72 - 0.75 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V CAT 9.3B ACERT	375 HP (280 kW)	375 HP (280 kW)
Max no load rpm	2,000 RPM	2.000 RPM
Fuel tank capacity	195 gal	738 L
Fuel consumption (at full load)	19.5 gal/hr	73.8 L/hr
AD Blue/DEF consumption	0.63 gal/hr	2.38 L/hr
Cooling rating	135°F ambient air	57°C ambient air
Air cleaner	Dry type, centrifugal precleaner with primary and secondary filters	

TRACKS

	US	METRIC
Track chain type	38/320	
Track lenght	11'	336 cm
Track pad width	2' 8"	81 cm
Track pad type	Single, double or triple grouser	

CRAWLER DRIVE

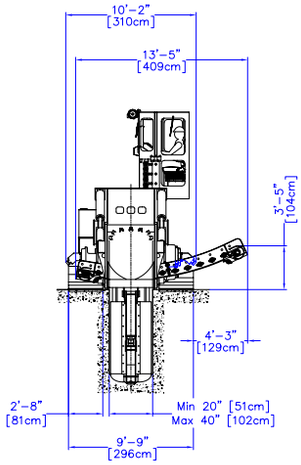
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 2.5 mph	0 - 4 km/h
Low range	0 - 1.1 mph	0 - 1.7 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

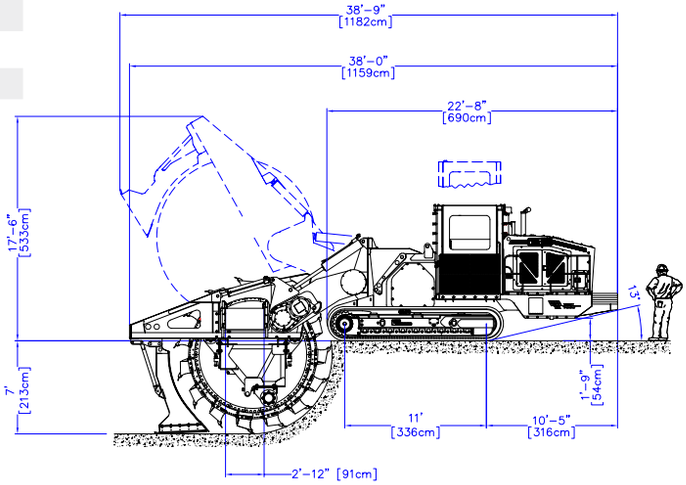
DIGGING DRIVE

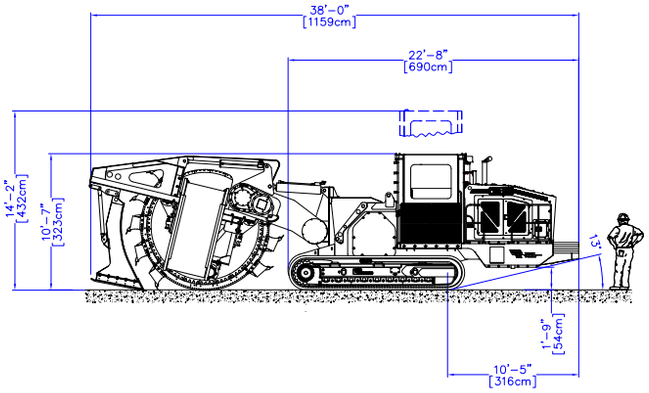
	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 445 fpm	0 - 135 m/min
Cutters for rock configuration	Rotary carbide tipped	
Cutters shank diameter	1 - 1/2"	3.81 cm
Cutters gage	3"	7.62 cm
Cutters for dirt configuration	Spade-Type Teeth	

CROSS CONVEYOR SYSTEM

	US	METRIC
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 1.000 fpm	0 - 304.8 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	2' 12"	91 cm
Conveyor lenght	13' 5"	409 cm
Discharge height	3' 5"	104 cm







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1150EVO CHAINSAW

Tesmec 1150 EVO Chainsaw is a trencher conceived for multiple applications, from mid size pipelines to underground utilities.

This Tesmec trencher allows superior performances compared to traditional digging methods and excavators, granting high performances even in hard rock.

The EVO technology guarantees increased productivity, reduced teeth consumption and maintenance costs. The truck loading conveyor, that can be equipped on the tractor with chainsaw attachment, allows to load the excavated material into a truck in front of the machine.

The TrenchTronic 5.0, TrenchIntel, Re.m and Smart Tracker state of the art technologies maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

1150EVO is a modular machine available with Chainsaw and Rocksaw attachments, as well as Rock Hawg and Dynamic Drive drum for other applications.

STATE OF THE ART TECHNOLOGY

***TrenchTronic 5.0* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

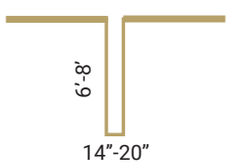
***Re.M* (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

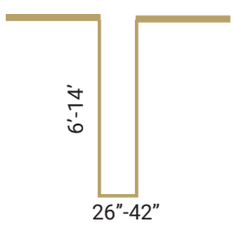
Smart Tracker (Optional) Automatically collects as built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS

SINGLE CHAIN BOOM



DOUBLE CHAIN BOOM



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TRANSPORT DIMENSIONS

	US	METRIC
Lenght 6 ft boom	37' 3"	1.135 cm
8 ft boom	39' 3"	1.196 cm
10 ft boom	41' 7"	1.267 cm
12 ft boom	43' 7"	1.328 cm
14 ft boom	45' 10"	1.398 cm
Width	10' 5"	317 cm
removing digging motors	9' 3"	280 cm
Height	11' 2"	342 cm
Weight	100,300 - 126,610 lbs	45.500 - 57.200 Kg
Ground pressure	14.5 - 18.2 psi	1.02 - 1.27 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V CAT C13	496 HP (370 kW)	496 HP (370 kW)
Tier 3 CAT C13 ACERT	440 HP (328 kW)	440 HP (328 kW)
Max no load rpm		
Tier 4/Stage 5	1,850 RPM	1.850 RPM
Tier 3	2,100 RPM	2.100 RPM
Fuel tank capacity		
Tier 4/Stage 5	358 gal	1.355 L
Tier 3	324 gal	1.230 L
Fuel consumption (at full load)		
Tier 4/Stage 5	21.5 gal/hr	81 L/hr
Tier 3	23 gal/hr	87 L/hr
AD Blue/DEF consumption		
Tier 4 / Stage V	0.85 gal/hr	3.24 L/hr
Cooling rating	122°F ambient air	50°C ambient air
Air cleaner	Dry type, pre cleaner and auto dust ejection	

TRACKS

	US	METRIC
Track chain type	38/320	
Track lenght	12' 5"	378 cm
Track pad width	2'	60 cm
Track pad type	Single, double or triple grouser	

CRAWLER DRIVE

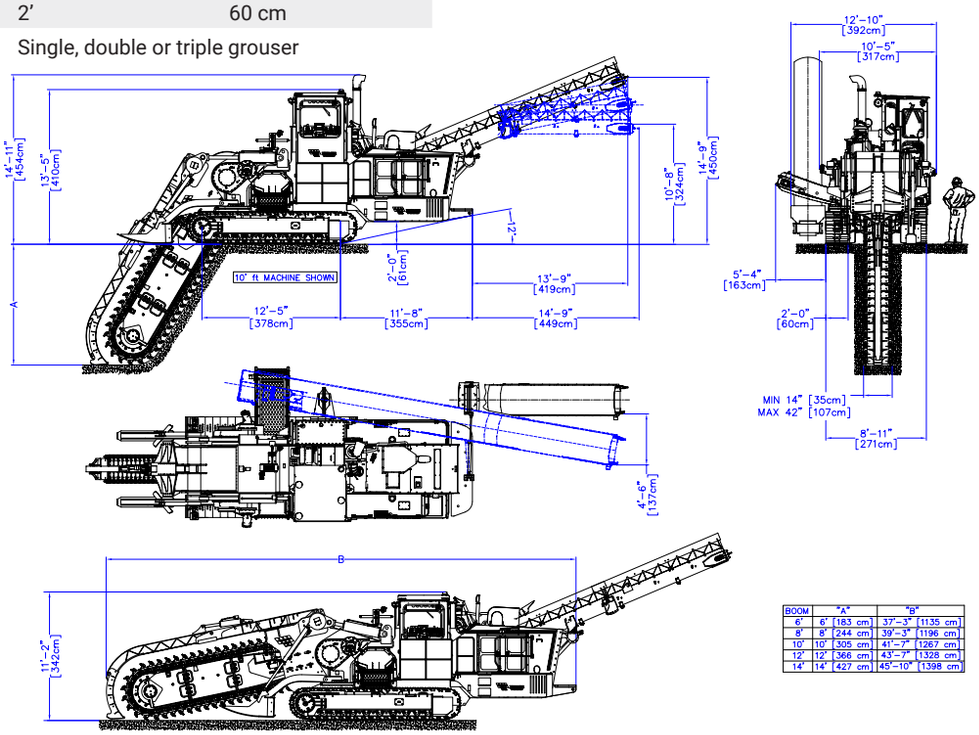
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 2.05 mph	0 - 3.3 km/h
Low range	0 - 0.93 mph	0 - 1.5 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 285 fpm	0 - 87 m/min
	0 - 360 fpm	0 - 110 m/min
	0 - 455 pfm	0 - 139 m/min
	0 - 555 fpm	0 - 169 m/min
Digging chain	54/345	
Digging chain adjustment	Hydraulic	
Digging chain boom top roller	Yes	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1 - 1/2"	3.81 cm
Cutters gage	3"	7.62 cm

CONVEYOR SYSTEM

	US	METRIC
Reversible and shiftable	Yes	Yes
Conveyor belt speed	0 - 750 fpm	0 - 229 m/min
Conveyor discharge direction	Right or left	Right or left
Conveyor belt width	2' 6"	76 cm
Conveyor lenght	11' 11"	363 cm
Discharge height	5' 11"	181 cm



BOOM	"A"	"B"
6'	6' [183 cm]	37'-3" [1135 cm]
8'	8' [244 cm]	39'-3" [1196 cm]
10'	10' [305 cm]	41'-7" [1267 cm]
12'	12' [366 cm]	43'-7" [1328 cm]
14'	14' [427 cm]	45'-10" [1398 cm]

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1150EVO DYNAMIC DRIVE

Tesmec 1150EVO Dynamic Drive is an ideal surface miner to increase productivity in easy to medium-hard minerals up to 50 MPa (for example coal, bauxite and industrial minerals like gypsum, potash, phosphates, salt and soft limestone).

The planetary gearbox integrated in the cutting drum guarantees a final drive of a 100% hydraulic power system. The Dynamic Drive drum is directly actuated by the gearbox, therefore there is no wear of sprockets, digging chains and baseplates, leading to higher efficiency and no power losses, reduced cost for wear parts and no limitation to the max cutting speed (RPM) of the drum.

1150EVO Dynamic Drive is equipped with TrenchTronic 5.0, TrenchIntel, laser system and Re.m, to maximize excavation efficiency, fleet monitoring and ensure orderly and safe jobsite management.

1150EVO is a modular machine also available with Chainsaw, Rocksaw and Rock Hawg attachments for other applications.

STATE OF THE ART TECHNOLOGY

***TrenchTronic 5.0* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

***Re.M* (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

EXCAVATION DIMENSIONS

UP CUTTING

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TRANSPORT DIMENSIONS

	US	METRIC
Lenght		
with drum	33' 6"	1022 cm
without drum and boom	25' 6"	777 cm
Width		
with drum	12' 0"	366 cm
without drum and digging motors	9’ 3”	280 cm
Height	11’ 2”	342 cm
Weight	114,600 - 119,000 lbs	52.000 - 54.000 Kg
Ground pressure	16.5 - 17.2 psi	1.17 - 1.20 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V CAT C13	496 HP (370 kW)	496 HP (370 kW)
Tier 3 CAT C13 ACERT	440 HP (328 kW)	440 HP (328 kW)
Max no load rpm		
Tier 4/Stage 5	1,850 RPM	1.850 RPM
Tier 3	2,100 RPM	2.100 RPM
Fuel tank capacity		
Tier 4/Stage 5	358 gal	1.355 L
Tier 3	324 gal	1.230 L
Fuel consumption (at full load)		
Tier 4/Stage 5	21.5 gal/hr	81 L/hr
Tier 3	23 gal/hr	87 L/hr
AD Blue/DEF consumption		
Tier 4 / Stage V	0.85 gal/hr	3.24 L/hr
Cooling rating	122°F ambient air	50°C ambient air
Air cleaner	Dry type, pre cleaner and auto dust ejection	

TRACKS

	US	METRIC
Track chain type	42/325	
Track lenght	12’ 5”	378 cm
Track pad width	2’	60 cm
Track pad type	Triple grouser (single or demi grouse available as option	

CRAWLER DRIVE

	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 2.05 mph	0 - 3.3 km/h
Low range	0 - 0.93 mph	0 - 1.5 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DIGGING DRIVE

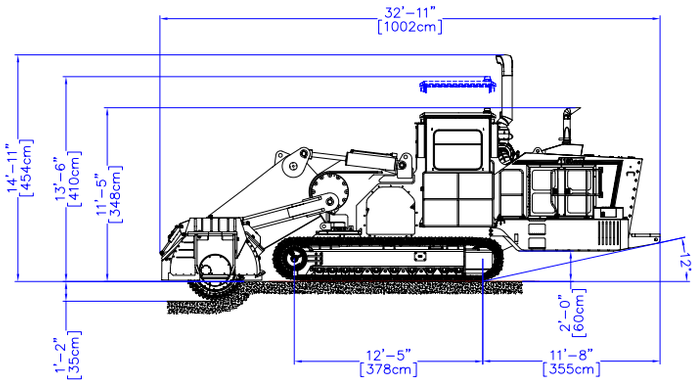
	US	METRIC
Drive	Hydrostatic, two pumps and one motors*	

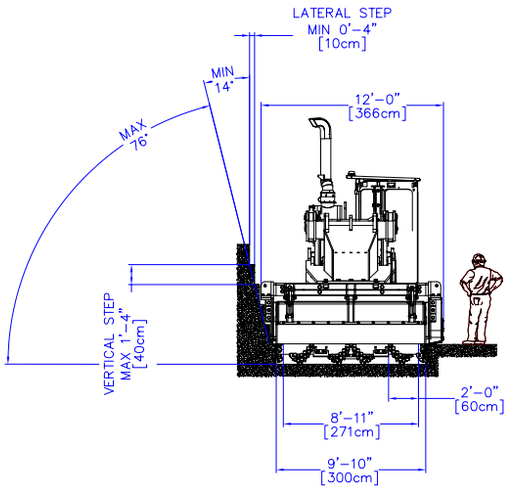
* Planetary Gearbox integrated in the cutting drum, final drive of a 100% hydraulic power system

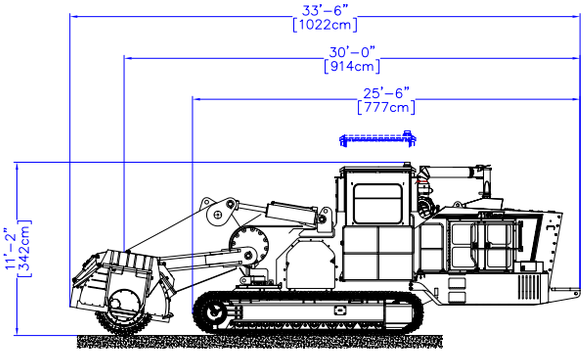
Digging speed ranges	0 - 560 fpm	0 - 171 m/min
	0 - 675 fpm	0 - 206 m/min
	0 - 810 pfm	0 - 247 m/min
	0 - 990 fpm	0 - 302 m/min
Cutters	Rotary carbide tipped	
Cutters shank diameter	1” 1/2	3.81 cm
Cutters gage	3”	7.62 cm

CONVEYOR SYSTEM

	US	METRIC
Not available in this configuration		







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1150EVO ROCKHAWG

Tesmec 1150 EVO Rock Hawg is a versatile surface miner designed for multiple applications in bulk excavation, heavy civil, tunnelling projects and surface mining.

It combines high chain pull and low chain speed thanks to its upgraded flywheels gearboxes and new hydraulic components, guaranteeing the best performance on hard and abrasive rocks, increasing productivity and decreasing teeth consumption and maintenance costs. The ends of the digging drum are bolted on and, if necessary, the drum width can be reduced to 3.00 m for easier transport. 1150 EVO allows vertical walls and square corners cutting, thanks to the rear mounted drum larger than the tracks.

Elevating cab equipped, this versatile trencher can work up-cutting or down-cutting. The last generation laser system allows accurate and inclined surface & constant excavation depth. The TrenchTronic 5.0, TrenchIntel and Smart Tracker systems maximize trenching efficiency.

1150EVO is a modular machine also available with Chainsaw, Rocksaw and Dynamic Drive attachments for other applications.

STATE OF THE ART TECHNOLOGY

***TrenchTronic 5.0* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

***Re.M* (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

EXCAVATION DIMENSIONS

DOWN CUTTING

UP CUTTING

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TRANSPORT DIMENSIONS

	US	METRIC
Lenght		
with drum and drum guard	34' 4"	1045 cm
without drum guard	33' 2"	1011 cm
tractor only	27' 11"	851 cm
Width		
with bolted-on ends or welded drum	10' 6"	320 cm
without drum flanges	10' 5"	317 cm
without drum and digging motors	9' 3"	280 cm
Height	11' 2"	342 cm
Weight	127,800 - 131,600 lbs	58.000 - 59.700 Kg
Ground pressure	18.4 - 19.0 psi	1.30 - 1.33 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V CAT C13	496 HP (370 kW)	496 HP (370 kW)
Tier 3 CAT C13 ACERT	440 HP (328 kW)	440 HP (328 kW)
Max no load rpm		
Tier 4/Stage 5	1,850 RPM	1.850 RPM
Tier 3	2,100 RPM	2.100 RPM
Fuel tank capacity		
Tier 4/Stage 5	358 gal	1.355 L
Tier 3	324 gal	1.230 L
Fuel consumption (at full load)		
Tier 4/Stage 5	21.5 gal/hr	81 L/hr
Tier 3	23 gal/hr	87 L/hr
AD Blue/DEF consumption		
Tier 4 / Stage V	0.85 gal/hr	3.24 L/hr
Cooling rating	122°F ambient air	50°C ambient air
Air cleaner	Dry type, pre cleaner and auto dust ejection	

TRACKS

	US	METRIC
Track chain type	42/325	
Track lenght	12’ 5”	378 cm
Track pad width	2’	60 cm
Track pad type	Triple grouser (single or demi grouse available as option	

CRAWLER DRIVE

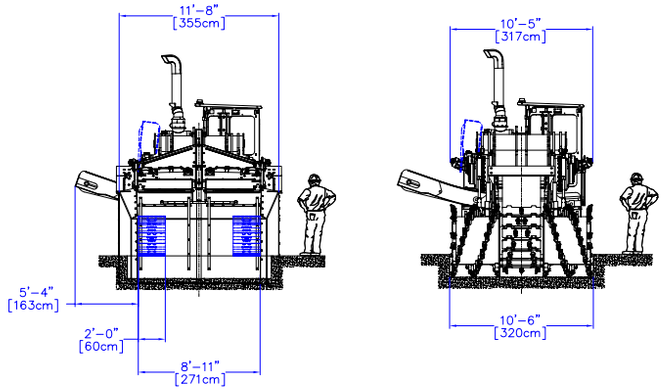
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 2.05 mph	0 - 3.3 km/h
Low range	0 - 0.93 mph	0 - 1.5 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

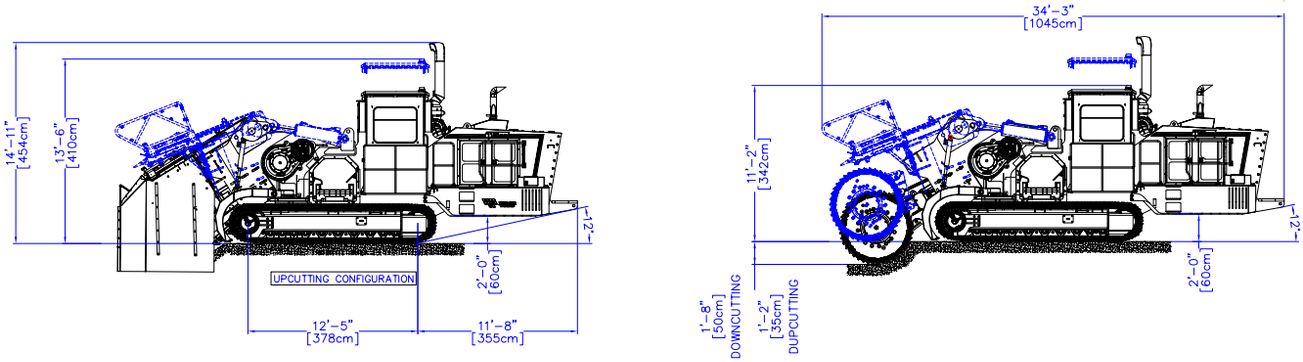
DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 395 fpm	0 - 120 m/min
	0 - 495 fpm	0 - 151 m/min
	0 - 630 pfm	0 - 192 m/min
	0 - 765 fpm	0 - 233 m/min
Digging chain	54/345	
Digging chain adjustment	Hydraulic	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1” 1/2	3.81 cm
Cutters gage	3”	7.62 cm
Drum tip diameter	5’ 4”	163.5 cm

CROSS CONVEYOR

	US	METRIC
Available on Up-cutting configuration only		
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 750 fpm	0 - 229 m/min
Conveyor discharge direction	Right or left	Right or left
Conveyor belt width	2’ 6”	76 cm
Conveyor lenght	11’ 11”	363 cm
Discharge height	5’ 11”	181 cm





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1150EVO ROCKSAW 24T

Tesmec 1150 EVO Rocksaw 24T is a trencher conceived for in-line rock excavation for long-distance fiber optic networks, electric cable projects and small diameter pipelines.

EVO technology guarantees the best performance on hard rocks with increased productivity and reduced teeth consumption and maintenance costs.

The TrenchTronic 5.0, TrenchIntel, Re.m and Smart Tracker state of the art technologies maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

1150EVO is a modular machine also available with Chainsaw, Rock Hawg and Dynamic Drive attachments for other applications.

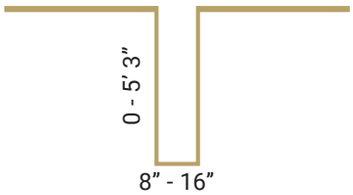
STATE OF THE ART TECHNOLOGY

***TrenchTronic 5.0* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

***Re.M* (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

TRENCHING DIMENSIONS



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TRANSPORT DIMENSIONS

	US	METRIC
Lenght		
with wheel	40' 11"	1.247 cm
without wheel and boom		776 cm
Width		
with wheel	10' 6"	320 cm
without wheel and boom	9' 3"	280 cm
Height		
with low cab, wheel and boom	12' 4"	376 cm
with low cab, without wheel and boom	11' 2"	342 cm
Weight	141.100 - 150.000 lbs	64.000 - 68.000 Kg
Ground pressure	20.0 - 21.2 psi	1.41 - 1.49 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V CAT C13	496 HP (370 kW)	496 HP (370 kW)
Tier 3 CAT C13 ACERT	440 HP (328 kW)	440 HP (328 kW)
Max no load rpm		
Tier 4/Stage 5	1.850 RPM	
Tier 3	2.100 RPM	
Fuel tank capacity		
Tier 4/Stage 5	358 gal	1.355 L
Tier 3	324 gal	1.230 L
Fuel consumption (at full load)		
Tier 4/Stage 5	21.5 gal/hr	81 L/hr
Tier 3	23 gal/hr	87 L/hr
AD Blue/DEF consumption		
Tier 4 / Stage V	0,85 gal/hr	3.24 L/hr
Cooling rating	122°F ambient air	50° ambient air
Air cleaner	Dry type, pre cleaner and auto dust ejection	

TRACKS

	US	METRIC
Track chain type	42/325	
Track lenght	12' 5"	378 cm
Track pad width	2'	60 cm
Track pad type	Triple grouser (single or demi grouse available as option	

CRAWLER DRIVE

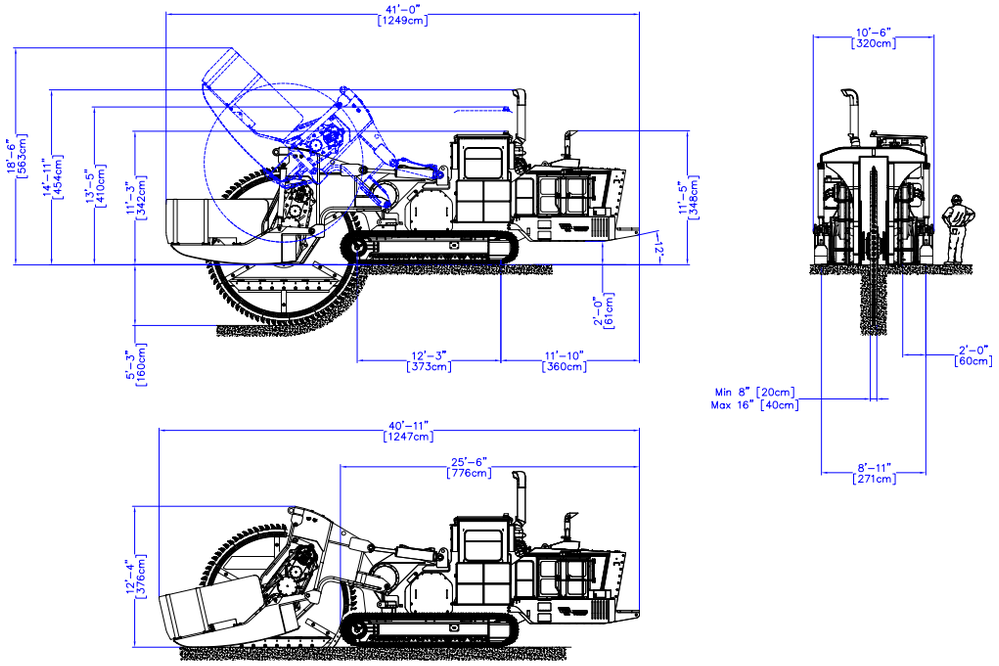
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 2.05 mph	0 - 3.3 km/h
Low range	0 - 0.93 mph	0 - 1.5 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 338 fpm	0 - 103 m/min
	0 - 508 fpm	0 - 155 m/min
	0 - 636 pfm	0 - 194 m/min
	0 - 803 fpm	0 - 245 m/min
Cutters	Rotary carbide tipped	
Cutters shank diameter	1" 1/2	3.81 cm
Cutters gage	3"	7.62 cm
Rockwheel tip diameter	13' 6"	412 cm

CROSS CONVEYOR

	US	METRIC
Not available in this configuration		



M5 CHAINSAW

Tesmec M5 chainsaw is a torque converter trencher, characterized by high chain pull and very low chain speed. It is built for effective excavation and trenching operations in abrasive and rocky terrains, addressing the trenching needs of challenging environments.

Tesmec M5 has its optimal application in case of rock mass unfractured and strong rock, assuring reduced teeth consumption. It is conceived for multiple applications, such as pipelines construction, underground powerlines installation and channel excavation.

Tesmec state of the art technology, such as TrenchTronic, TrenchIntel and Re.M, maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

Truck loading conveyor available as option.

Swap kit available to set up M5 also with Rock Hawg attachment.

STATE OF THE ART TECHNOLOGY

***TrenchTronic 5.0* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

***Re.M* (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

Smart Tracker (Optional) Automatically collects as built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS

SINGLE CHAIN BOOM

DOUBLE CHAIN BOOM

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

NOT STANDARD and subject to preliminary evaluation by Tesmec technical department

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TRANSPORT DIMENSIONS

		US	METRIC
Lenght	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
without crumbshoe	16 ft boom	51’ 5”	1.567 cm
without crumbshoe	18 ft boom	53' 11"	1.643 cm
without crumbshoe	20 ft boom	56’ 5”	1.720 cm
Width			
With 30” (76 cm) standard		10’ 5”	316 cm
With 24” (61 cm) optional		9’ 10”	300 cm
Height	with crumbshoe	11’ 10”	361 cm
	without crumbshoe	11’ 6”	351 cm
Weight		141,000 - 177,000 lbs	63.900 - 80.300 Kg
Ground pressure		13.7 - 17.3 psi	0.96 - 1.22 kg/cm2

ENGINE

		US	METRIC
Model and Max HP (kW)			
Tier 4/Stage V	CAT C13B ACERT	456 HP (340 kW)	456 HP (340 kW)
Tier 3	CAT C13 ACERT	440 Hp (328 kW)	440 Hp (328 kW)
Max no load rpm		2,100 RPM	2.100 RPM
Fuel tank capacity		314 gal	1.190 L
Fuel consumption (at full load)			
Tier 4/Stage V		25.5 gal/hr	97 L/hr
Tier 3		22.7 gal/hr	86 L/hr
AD Blue tank capacity		24.6 gal	93 L
Tier 4/Stage V		0.77 gal/hr	2.91 L/hr
Cooling rating		135°F ambient air	57°C ambient air
Air cleaner		Dry type, centrifugal pre-cleaner with primary and secondary filters	

TRACKS

	US	METRIC
Track chain type	D7	
Track lenght	14’ 4”	437 cm
Track pad width	2’ 6” (standard) 2’ (optional)	76 cm (standard) 61 cm (optional)
Track pad type	Single, double or triple grouser	

CRAWLER DRIVE

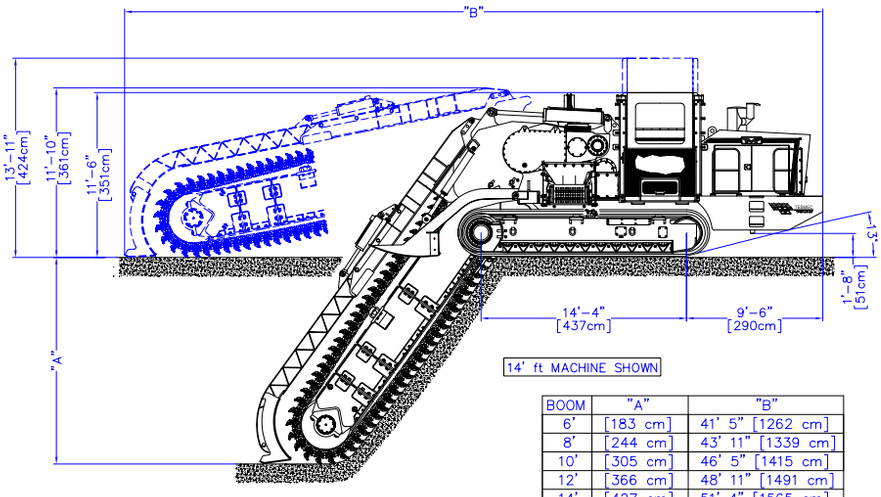
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering and single lever direction	
Infinitely variable speed	Forward and reverse	
High range	0 - 1.3 mph	0 - 2.1 km/h
Low range	0 - 0.9 mph	0 - 1.5 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DIGGING DRIVE

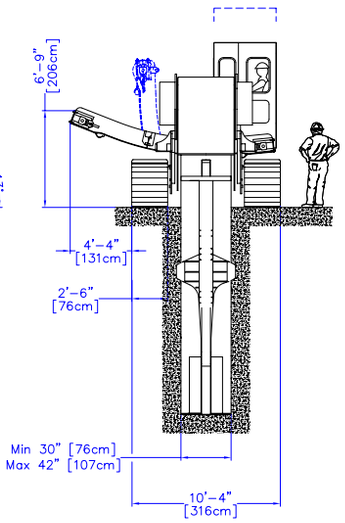
	US	METRIC
Drive	Electronically controlled transmission driving a heavy duty differential that transmits power to headshaft via sprockets and multi-strand roller chain	
Digging speed ranges	101 - 203 fpm	31 - 62 m/min
	185 - 375 fpm	57 - 114 m/min
	247 - 500 fpm	76 - 152 m/min
	354 - 714 fpm	108 - 218 m/min
Digging chain	54/345 for double chain configuration	
	D9R / D9N for single chain configuration	
Digging chain adjustment	Hydraulic	
Digging chain boom top roller	Yes	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1” 1/2	3.81 cm
Cutters gage	3”	7.62 cm

CROSS CONVEYOR

	US	METRIC
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 1,000 fpm	0 - 305 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	2’ 6”	76 cm
Conveyor lenght	12’ 9”	389 cm
Discharge height	6’ 9”	205 cm



BOOM	"A"	"B"
6'	[183 cm]	41' 5" [1262 cm]
8'	[244 cm]	43' 11" [1339 cm]
10'	[305 cm]	46' 5" [1415 cm]
12'	[366 cm]	48' 11" [1491 cm]
14'	[427 cm]	51' 4" [1565 cm]
16'	[488 cm]	51' 5" [1567 cm]
18'	[549 cm]	53' 11" [1643 cm]
20'	[610 cm]	56' 5" [1720 cm]



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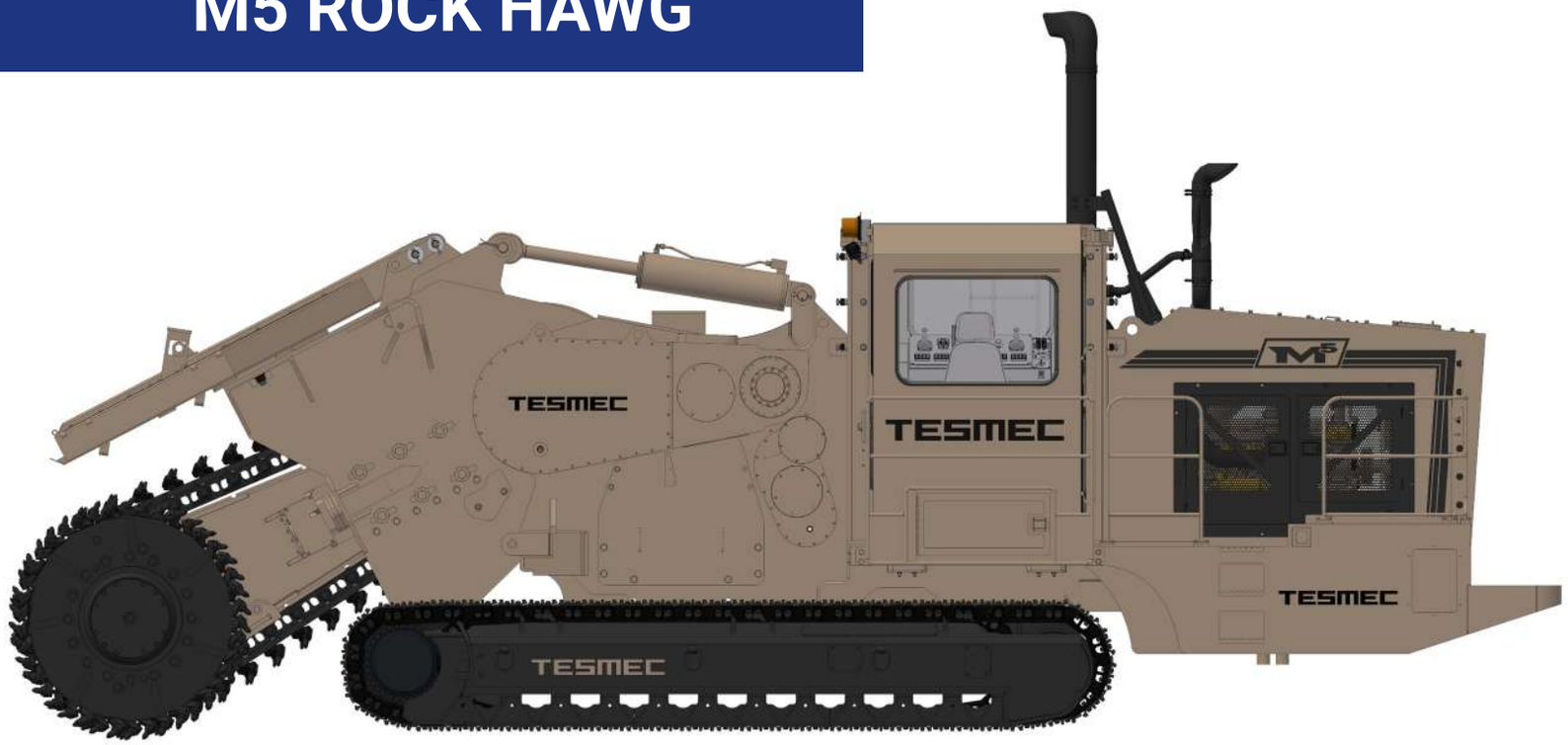
M5 ROCK HAWG



Tesmec M5 Rock Hawg is a torque converter surface miner, characterized by high chain pull and very low chain speed. It is built for effective excavation in site preparation projects, open-pit quarries and surface mining operations.

Equipped with a 10’6” wide drum, the M5 Rock Hawg is the ideal solution for abrasive and rocky terrain, meeting the needs of excavation in difficult environments. The M5 allows vertical walls and square corners excavation thanks to the rear mounted drum larger than the tracks.

Available in Up-Cutting and Down-cutting Configuration, this surface miner is equipped with a pressurized, elevating ROPS cab with air conditioning, heating, and sound suppression.

Tesmec state of the art technology, such as TrenchTronic, TrenchIntel and Re.M, maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

Swap kit available to set up M5 also with chainsaw attachment.

STATE OF THE ART TECHNOLOGY

***TrenchTronic 5.0* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

***Re.M* (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

EXCAVATION DIMENSIONS

DOWN CUTTING

UP CUTTING

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TRANSPORT DIMENSIONS

	US	METRIC
Lenght	34’ 7”	415 cm
Width		
with drum	126” (10’ 6”)	320 cm
without drum	120” (10’)	305 cm
Weight	145,000 - 150,000 lbs	65.800 - 68.000 Kg
Height	11’ 6”	350 cm
Ground pressure	16.3 – 16.8 psi	1.15 – 1.18 kg/cm2

ENGINE

		US	METRIC
Model and Max HP (kW)			
Tier 4	CAT C13B ACERT	456 HP (340 kW)	456 HP (340 kW)
Max no load rpm		2,100 RPM	2.100 RPM
Fuel tank capacity		314 gal	1.189 L
Fuel consumption (at full load)		23.2 gal/hr	88 L/hr
AD Blue tank capacity		24.6 gal	93 L
Cooling rating		135ºF ambient air	57ºC ambient air
Air cleaner		Dry type, pre cleaner and auto dust ejection	

TRACKS

	US	METRIC
Track chain type	CAT D7	
Track lenght	171” (14’ 3”)	435 cm
Track pad width	26” (2’ 2”)	66 cm
Track pad type	Single, double or triple grouser	

CRAWLER DRIVE

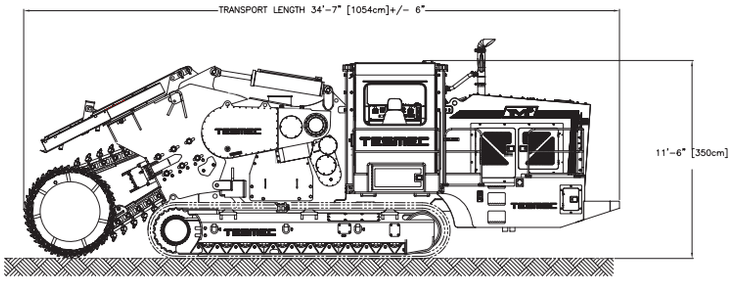
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering and single lever direction	
Infinitely variable speed	Forward and reverse	
High range	0 - 1.3 mph	0 - 2.1 km/h
Low range	0 - 0.9 mph	0 - 1.5 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DIGGING DRIVE

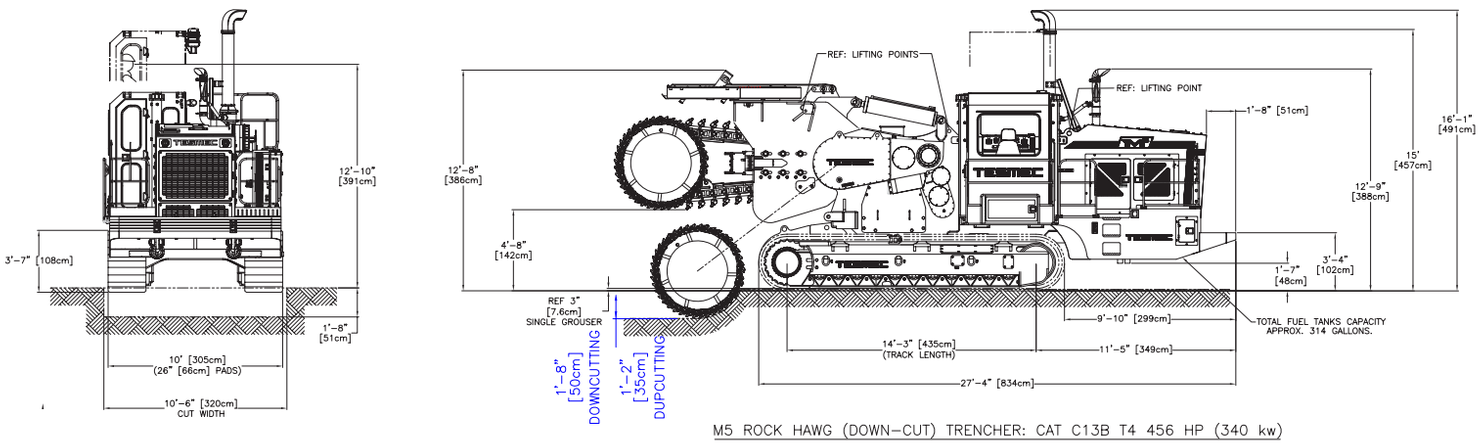
		US	METRIC
Drive		Electronically controlled transmission driving a heavy duty differential that transmits power to headshaft via sprockets and multi-strand roller chain	
Digging speed ranges		101 - 204 fpm	31 - 62 m/min
		186 - 375 fpm	57 - 114 m/min
		248 - 500 fpm	76 - 152 m/min
		354 - 715 fpm	108 - 218 m/min
Digging Drum RPM	1st ratio	8-17 / 139-282 fpm	42 - 86 m/min
	2nd ratio	15-31 / 257-519 fpm	78 - 158 m/min
	3rd ratio	20-41 / 342-692 fpm	104 - 211 m/min
	4th ratio	29-59 / 489-989 fpm	149 - 301 m/min
Digging chain		54/345 CAT	
Digging chain adjustment		Hydraulic	
Cutters		Rotary carbide tipped	
Cutters shank diameter		1” 1/2	3.81 cm
Cutters gage		3”	7.62 cm
Drum tip diameter		64”	163.5 cm

CROSS CONVEYOR

	US	METRIC
Available on Up-cutting configuration only		
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 1000 fpm	0 - 305 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	2’ 6”	76 cm
Conveyor lenght	12’ 9”	389 cm
Discharge height	6’ 9”	209 cm



M5 ROCK HAWG TRENCHER: TRANSPORT POSITION



M5 ROCK HAWG (DOWN-CUT) TRENCHER: CAT C13B T4 456 HP (340 kw)

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1475XL EVO CHAINSAW

Tesmec 1475XL EVO Chainsaw is a trencher conceived for in-line excavation for mid to big size pipelines.

This chainsaw trencher, in XL version, allows superior performances compared to traditional digging methods/excavators, combining high chain pull and low chain speed thanks to its upgraded flywheels gearboxes and new hydraulic components. EVO technology guarantees the best performance on hard and abrasive rocks, increasing productivity and decreasing teeth consumption and maintenance costs.

Equipped with hydraulic stabilizers, cross conveyor system and a pressurized, elevating ROPS cab with air conditioning, heating, and sound suppression.

The TrenchTronic 5.0, TrenchIntel, Re.m and Smart Tracker state of the art technologies maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

1475XL EVO can be set up also with Rock Hawg attachment for other applications.

STATE OF THE ART TECHNOLOGY

***TrenchTronic 5.0* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

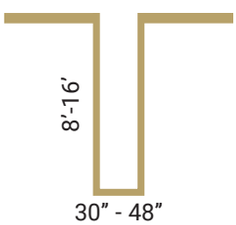
***Re.M* (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

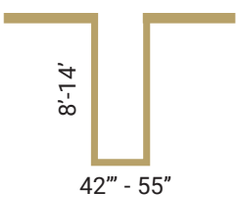
***SmartTracker* (Optional)** Automatically collects as built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS

DOUBLE CHAIN NARROW BOOM



DOUBLE CHAIN WIDE BOOM



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TRANSPORT DIMENSIONS

	US	METRIC
Lenght 8 ft boom	42' 7"	1.298 cm
10 ft boom	45'	1.372 cm
12 ft boom	47' 7"	1.450 cm
14 ft boom	51'	1.554 cm
16 ft boom	52' 5"	1.597 cm
Only tractor and stabilizers	35' 6"	1.082 cm
Only tractor	30' 1"	917 cm
Width		
complete machine	13' 6"	411 cm
without digging motors	11' 6"	350 cm
Height	12' 5"	378 cm
Weight	204,300 - 240,300 lbs	92.700 - 109.000 Kg
Ground pressure	18.7 - 22.04 psi	1.31 - 1.54 Kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage IV CAT C18 ACERT	630 HP (470 kW)	
Tier 3 CAT C18 ACERT	630 HP (470 kW)	
Max no load rpm	2,000 RPM	
Fuel tank capacity	420 gal	1.590 L
Fuel consumption (at full load)		
Tier 4/Stage IV	32.5 gal/hr	122.9 L/hr
Tier 3	34 gal/hr	128.8 L/hr
AD Blue/DEF consumption		
Tier 4/Stage IV	1.13 gal/hr	4,30 L/hr
Cooling rating	129°F ambient air	54.4°C ambient air
Air cleaner	Dry type, two stages with pre-cleaner and automatic dust ejection	

TRACKS

	US	METRIC
Track chain type	365/374	
Track lenght	15' 6"	473 cm
Track pad width	2' 6"	76 cm
Track pad type	Demi-Grouser (Single grouser optional)	

CRAWLER DRIVE

	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 1.54 mph	0 - 2.47 km/h
Low range	0 - 0.77 mph	0 - 1.24 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

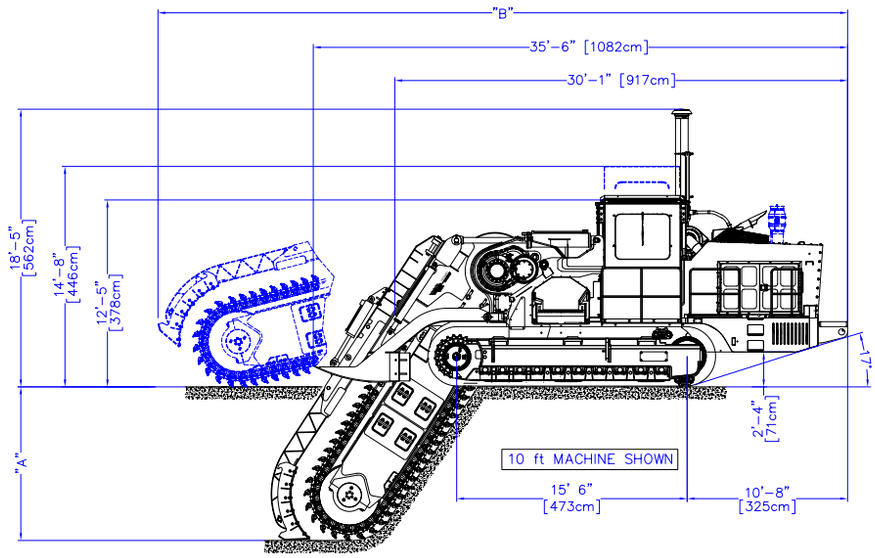
DIGGING DRIVE

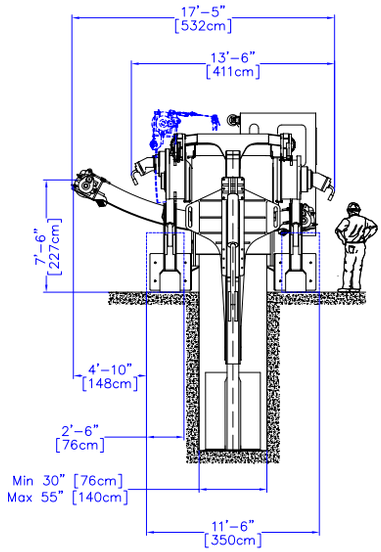
	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 154 fpm	0 - 47 m/min
	0 - 265 fpm	0 - 80 m/min
	0 - 325 pfm	0 - 99 m/min
	0 - 395 fpm	0 - 120 m/min
	0 - 443 fpm	0 - 135 m/min
Digging chain	D9R / D9N	
Digging chain adjustment	Hydraulic	
Digging chain boom top roller	Yes	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1" 1/2	3.81 cm
Cutters gage	3"	7.62 cm
Tailwheel diameter	4'	122 cm

CONVEYOR SYSTEM

	US	METRIC
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 900 fpm	0 - 275 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	2' 12"	91.4 cm
Conveyor lenght	14' 9"	450 cm
Discharge height	7' 7"	231 cm

BOOM	"A"	"B"
8'	8' [244 cm]	42'–7" [1298 cm]
10'	10' [305 cm]	45' [1372 cm]
12'	12' [366 cm]	47'–7" [1450 cm]
14'	14' [427 cm]	51' [1554 cm]
16'	16' [488 cm]	52'–5" [1597 cm]





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1475XXL EVO CHAINSAW

Tesmec 1475XXL EVO Chainsaw is a trencher conceived for in-line excavation for mid to big size pipelines.

This trencher, in XXL version, allows superior performances compared to traditional digging methods/excavators, combining high chain pull and low chain speed thanks to its upgraded flywheels gearboxes and new hydraulic components.
EVO technology guarantees the best performance on hard and abrasive rocks, increasing productivity and decreasing teeth consumption and maintenance costs.

Equipped with hydraulic stabilizers, cross conveyor system and a pressurized, elevating ROPS cab with air conditioning, heating, and sound suppression.

The TrenchTronic 5.0, TrenchIntel, Re.m and Smart Tracker state of the art technologies maximize excavation efficiency, increase productivity, fleet monitoring and recording data.

STATE OF THE ART TECHNOLOGY

***TrenchTronic 5.0* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

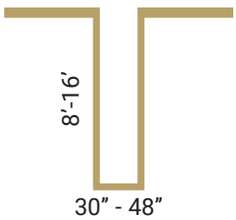
***Re.M* (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

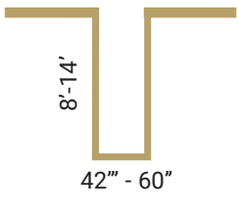
Smart Tracker (Optional) Automatically collects as built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS

DOUBLE CHAIN NARROW BOOM



DOUBLE CHAIN WIDE BOOM



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TRANSPORT DIMENSIONS

	US	METRIC
Lenght 8 ft boom	42' 7"	1.298 cm
10 ft boom	45'	1.372 cm
12 ft boom	47' 7"	1.450 cm
14 ft boom	51'	1.554 cm
16 ft boom	52' 5"	1.597 cm
Only tractor and stabilizers	35' 6"	1.082 cm
Only tractor	30' 1"	917 cm
Width		
complete machine	13' 11"	425 cm
without digging motors	11' 6"	350 cm
Height	12' 5"	378 cm
Weight	212.600 - 253.000 lbs	98.000 - 115.000 Kg
Ground pressure	19.6 - 23.04 psi	1.38 - 1.62 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage IV CAT C18 ACERT	630 HP (470 kW)	
Tier 3 CAT C18 ACERT	630 HP (470 kW)	
Max no load rpm	2,000 RPM	
Fuel tank capacity	420 gal	1.590 L
Fuel consumption (at full load)		
Tier 4/Stage IV	32.5 gal/hr	122.9 L/hr
Tier 3	34 gal/hr	128.8 L/hr
AD Blue/DEF consumption		
Tier 4/Stage IV	1.13 gal/hr	4,30 L/hr
Cooling rating	129°F ambient air	54.4°C ambient air
Air cleaner	Dry type, two stages with pre-cleaner and automatic dust ejection	

TRACKS

	US	METRIC
Track chain type	365/374	
Track lenght	15' 6"	473 cm
Track pad width	2' 6"	76 cm
Track pad type	Double demi-grouser (single available as option)	

CRAWLER DRIVE

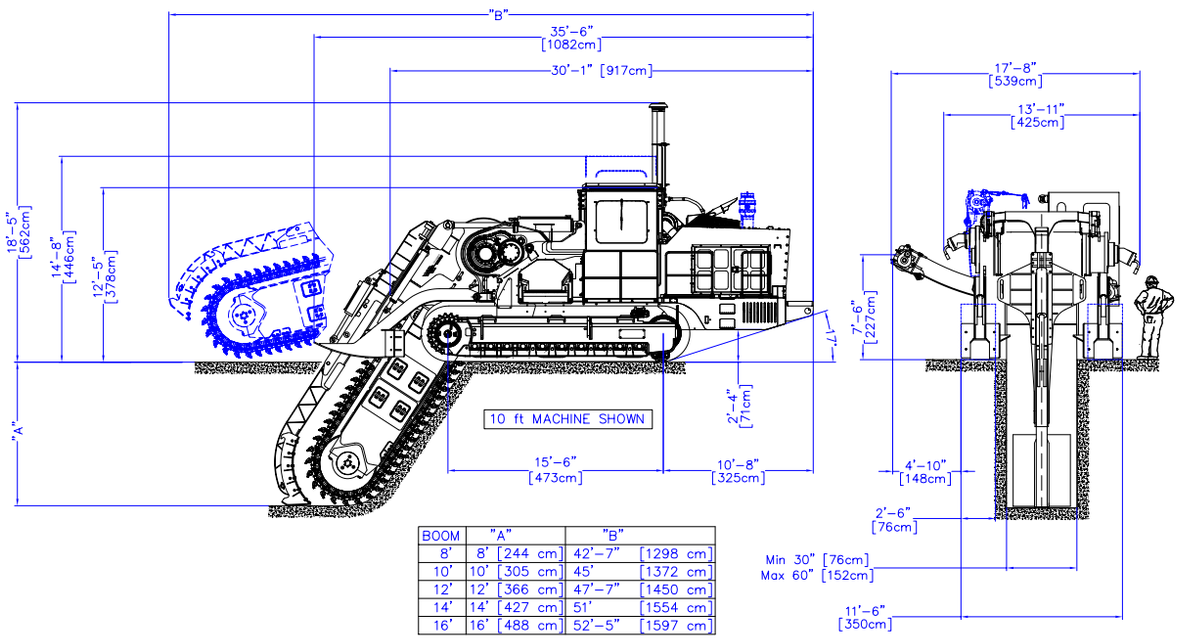
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 1.54 mph	0 - 2.47 km/h
Low range	0 - 0.77 mph	0 - 1.24 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 150 fpm	0 - 46 m/min
	0 - 268 fpm	0 - 82 m/min
	0 - 339 fpm	0 - 103 m/min
	0 - 425 fpm	0 - 130 m/min
	0 - 488 fpm	0 - 149 m/min
Digging chain	D9R / D9N	
Digging chain adjustment	Hydraulic	
Digging chain boom top roller	Yes	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1” 1/2	3.81 cm
Cutters gage	3”	7.62 cm
Tailwheel diameter	4'	122 cm

CONVEYOR SYSTEM

	US	METRIC
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 900 fpm	0 - 275 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	2' 12"	91.4 cm
Conveyor lenght	14' 9"	450 cm
Discharge height	7' 7"	231 cm



BOOM	"A"	"B"
8'	8' [244 cm]	42'–7" [1298 cm]
10'	10' [305 cm]	45' [1372 cm]
12'	12' [366 cm]	47'–7" [1450 cm]
14'	14' [427 cm]	51' [1554 cm]
16'	16' [488 cm]	52'–5" [1597 cm]

1475XL EVO ROCK HAWG

The Tesmec 1475XL EVO Rock Hawg is a cutting-edge machine specially engineered for demanding excavation tasks, particularly in challenging rocky terrains. It offers exceptional efficiency through innovative technology and robust construction.

Equipped with a pressurized elevating ROPS cab featuring A/C and sound suppression, it ensures operator comfort and safety.
The mechanical digging drive, powered by hydrostatic transmission, allows for precise rock removal, enabling vertical walls and square corners.
The integration of a last-generation laser system ensures accuracy and incline adaptability.
Additionally, the TrenchTronic 5.0 system maximizes excavation efficiency, while the EVO technology enhances chain-pull and reduces chain-speed, complemented by improved hydraulic components.
With its adaptability and outstanding features, the Tesmec 1475XL EVO Rock Hawg underscores Tesmec's commitment to delivering high-performance solutions for efficient and effective completion of challenging projects.

STATE OF THE ART TECHNOLOGY

TrenchTronic 5.0 **(standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnosticsystem.

Re.M **(Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

SmartTracker **(Optional)** Automatically collects as built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS

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TRANSPORT DIMENSIONS

	US	METRIC
Lenght		
With drum and drum guard	37' 7"	1.147 cm
Without drum guard	36' 5"	1.110 cm
Without drum (Tractor only)	30' 1"	917 cm
Width		
With drum	13' 9"	420 cm
Without drum	13' 6"	411 cm
Without drum and digging motors	11' 6"	350 cm
Height	12' 5"	378 cm
Weight	240,000 - 255,000 lbs	108.861 - 115.665 Kg
Ground pressure	21.5 - 22.80 psi	1.51 - 1.60 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage IV CAT C18 ACERT	630 HP (470 kW)	
Tier 3 CAT C18 ACERT	630 HP (470 kW)	
Max no load rpm	2,000 RPM	
Fuel tank capacity	420 gal	1.590 L
Fuel consumption (at full load)		
Tier 4/Stage IV	32.5 gal/hr	122.9 L/hr
Tier 3	34 gal/hr	128.8 L/hr
AD Blue/DEF consumption		
Tier 4/Stage IV	1.13 gal/hr	4,30 L/hr
Cooling rating	129°F ambient air	54.4°C ambient air
Air cleaner	Dry type, two stages with pre-cleaner and automatic dust ejection	

TRACKS

	US	METRIC
Track chain type	365/374	
Track lenght	15' 6"	473 cm
Track pad width	2' 6"	76 cm
Track pad type	Demi-Grouser (Single grouser optional)	

CRAWLER DRIVE

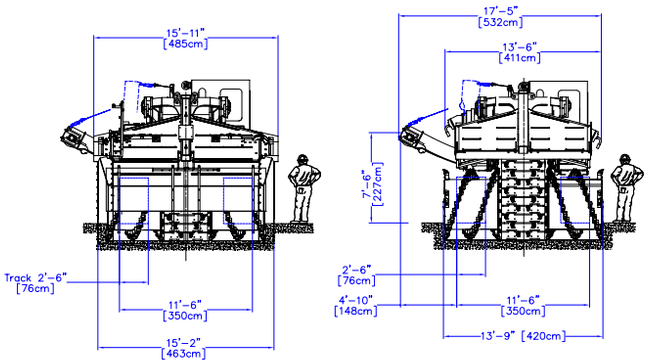
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 1.54 mph	0 - 2.47 km/h
Low range	0 - 0.77 mph	0 - 1.24 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

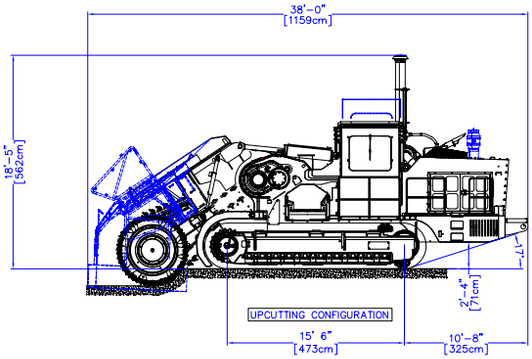
DIGGING DRIVE

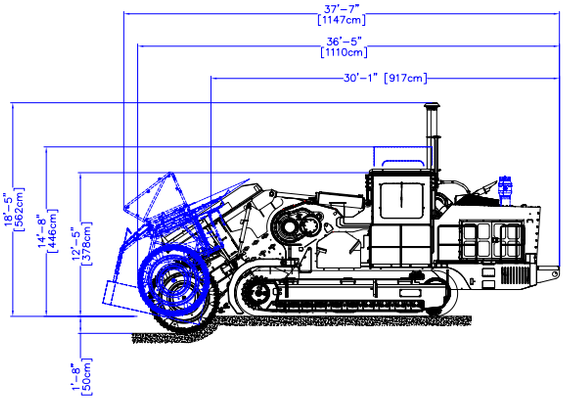
	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 205 fpm	0 - 63 m/min
	0 - 367 fpm	0 - 112 m/min
	0 - 465 pfm	0 - 142 m/min
	0 - 583 fpm	0 - 178 m/min
	0 - 670 fpm	0 - 204 m/min
Digging chain	D9R / D9N	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1" 1/2	3.81 cm
Cutters gage	3"	7.62 cm
Drum tool tip diameter	6' 2"	188 cm

CONVEYOR SYSTEM

	US	METRIC
Available on Up-cutting configuration only		
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 900 fpm	0 - 275 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	2' 12"	91.4 cm
Conveyor lenght	14' 9"	450 cm
Discharge height	7' 7"	231 cm







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1475XL EVO DYNAMIC DRIVE

Tesmec 1475XL EVO Dynamic Drive is a 100 metric ton-class surface miner, featuring a 630 HP (470kW)Tier 4/Stage V or Tier 3 engine, ideal for surface mining of weak to medium-hard rock

STANDARD FEATURES

Productivity Achieve maximum productivity with 1475XL EVO tractor and Dynamic Drive attachment, offered as standard with TrenchTronic and Re.M. It works in up cutting configuration with +/- 5° drum tilt.

Modularity Enhance 1475XL EVO potential exploiting its modularity. This model is available also with Chainsaw and Rock Hawg attachments, making it the ideal solution for multiple applications. Through the swap kit it is possible to change the machine backend and use it for other projects.

Safety in cab Experience the safety of the pressurized cab with air conditioning, heating and sound suppression. This is elevating with ROPS and FOPS, as well as compartment security locks.

OPTIONAL FEATURES

- Air compressor, automatic greasing kit, security kit and work light package
- TrenchIntel (3DGPS system)
- Rubber track pads
- Remote control for maintenance
- Trencher radio control system
- Swap kit to Chainsaw and Rock Hawg attachment

STATE OF THE ART TECHNOLOGY

***TrenchTronic 5.0* (standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

***Re.M* (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

TRENCHING DIMENSIONS

UP CUTTING

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TRANSPORT DIMENSIONS

	US	METRIC
Lenght		
with drum up	39' 2"	1.194 cm
with drum on ground	34' 9"	1.059 cm
without drum (tractor only)	36' 6"	1.112 cm
Width		
with drum and digging motors	16' 5"	500 cm
without drum	11' 5"	350 cm
Height	12' 5"	378 cm
Weight	213.700 - 224.800 lbs	97.000 - 102.000 Kg
Ground pressure	19.47 - 20.49 psi	1.37 - 1.44 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage IV CAT C18 ACERT	630 HP (470 kW)	
Tier 3 CAT C18 ACERT	630 HP (470 kW)	
Max no load rpm	2.000 RPM	
Fuel tank capacity	420 gal	1.590 L
Fuel consumption (at full load)		
Tier 4/Stage IV	32.5 gal/hr	122.9 L/hr
Tier 3	34 gal/hr	128.8 L/hr
AD Blue/DEF consumption		
Tier 4/Stage IV	1.13 gal/hr	1.13 gal/hr
Cooling rating	130°F ambient air	130°F ambient air
Air cleaner	Dry type, two stages with pre-cleaner and automatic dust ejection	

TRACKS

	US	METRIC
Track chain type	365/374	
Track lenght	15' 6"	473 cm
Track pad width	2' 6"	76 cm
Track pad type	Demi-Grouser (Single grouser optional)	

CRAWLER DRIVE

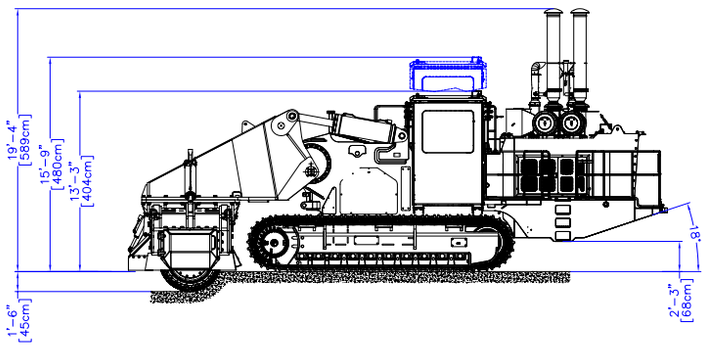
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 1.54 mph	0 - 2.47 km/h
Low range	0 - 0.77 mph	0 - 1.24 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

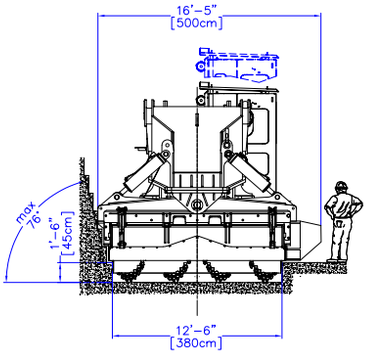
DIGGING DRIVE

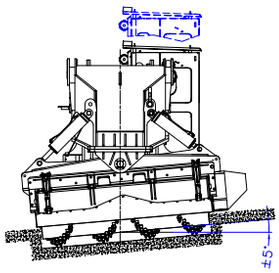
	US	METRIC
Drive	Hydrostatic, four pumps and two motors*	
* Planetary gearbox integrated withing the digging drum, oversized for extreme duty. Final drive of a 100% hydraulic power system		
Digging speed ranges	0 - 534 fpm	0 - 163 m/min
	0 - 667 fpm	0 - 203 m/min
	0 - 834 fpm	0 - 254 m/min
	0 - 1.043 fpm	0 - 318 m/min
Cutters	Rotary carbide tipped	
Cutters shank diameter	1" 1/2	3.81 cm
Cutters gage	3"	7.62 cm
Drum tool tip diameter	55"	140 cm

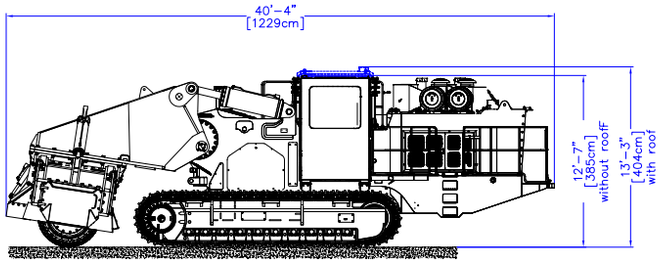
CROSS CONVEYOR

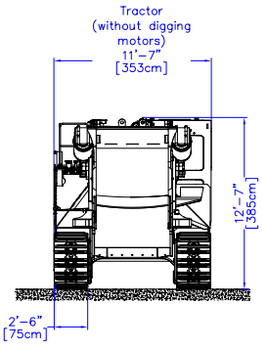
	US	METRIC
Not available in this configuration		











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1475XL EVO BUCKET WHEEL

Tesmec 1475XL EVO Bucket wheel is a high performance 90 metric ton-class trencher featuring a 630 HP (470 kW) engine ideal for mid to big size pipelines projects in dirt and light rocky soils

STANDARD FEATURES

Productivity Achieve maximum productivity with 1475XL EVO tractor and bucket wheel attachment, offered as standard with cross conveyor system, TrenchTronic and Re.M.

Modularity Enhance 1475XL EVO potential exploiting its modularity. This model is available also with a Chainsaw attachment. Through the swap kit it is possible to change the machine backend and use it for other projects.

Safety in cab Experience the safety of the pressurized cab with air conditioning, heating and sound suppression. This is elevating with ROPS and FOPS, as well as compartment security locks.

OPTIONAL FEATURES

- Air compressor, work light package and security kit
- Smart Tracker
- Trencher radio control system
- Swap kit to Chainsaw attachment

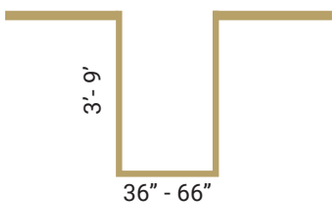
STATE OF THE ART TECHNOLOGY

TrenchTronic 5.0 **(standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

Re.M **(Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

SmartTracker **(Optional)** Automatically collects as built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS



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TRANSPORT DIMENSIONS

	US	METRIC
Lenght	48' 9"	1.485 cm
Width		
complete machine	12' 8"	387 cm
without digging motors	11' 10"	360 cm
Height	14' 0"	427 cm
Weight	169,700 - 218,300 lbs	77.000 - 99.000 Kg
Ground pressure	15.92 psi	1.119 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage IV CAT C18 ACERT	630 HP (470 kW)	
Tier 3 CAT C18 ACERT	630 HP (470 kW)	
Max no load rpm	2,000 RPM	
Fuel tank capacity	420 gal	1.590 L
Fuel consumption (at full load)		
Tier 4/Stage IV	32.5 gal/hr	122.9 L/hr
Tier 3	34 gal/hr	128.8 L/hr
AD Blue/DEF consumption		
Tier 4/Stage IV	1.13 gal/hr	4,30 L/hr
Cooling rating	129°F ambient air	54.4°C ambient air
Air cleaner	Dry type, two stages with pre-cleaner and automatic dust ejection	

TRACKS

	US	METRIC
Track chain type	365/374	
Track lenght	15' 6"	473 cm
Track pad width	2' 6"	76 cm
Track pad type	Demi-Grouser (Single grouser optional)	

CRAWLER DRIVE

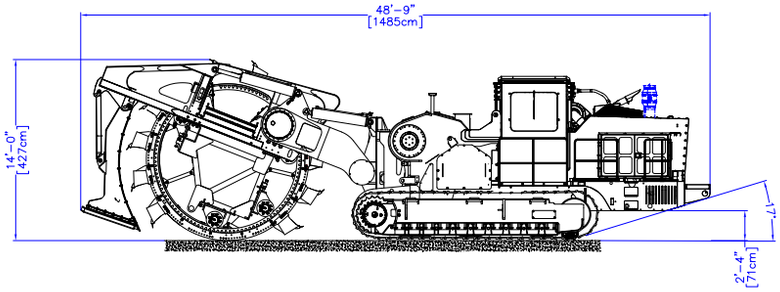
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 1.54 mph	0 - 2.47 km/h
Low range	0 - 0.77 mph	0 - 1.24 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

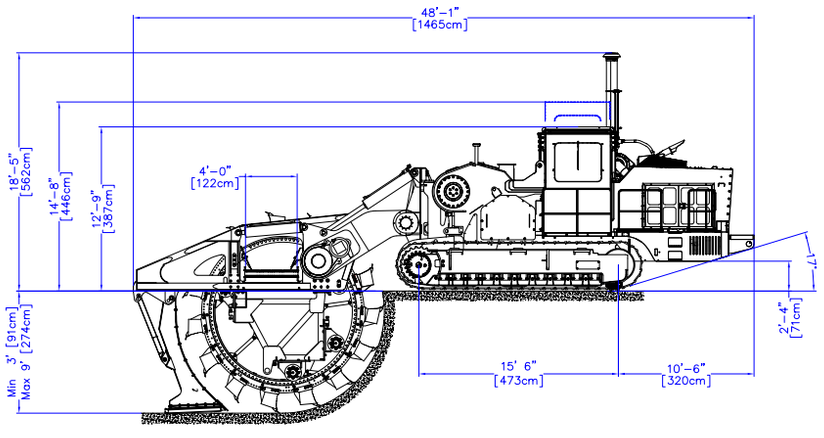
DIGGING DRIVE

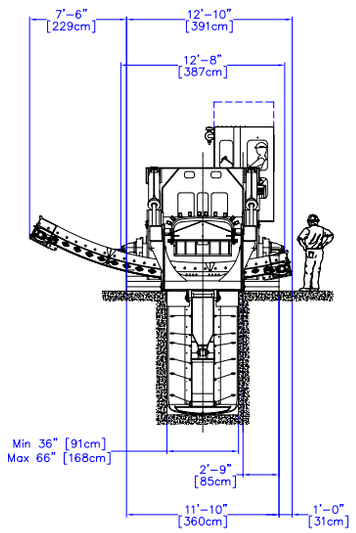
	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	324 ft/min	99 m/min
	390 ft/min	119 m/min
	462 ft/min	141 m/min
	557 ft/min	170 m/min
Digging rims	Plate with forged steel segments multiple drilled for 15 or 18 bucket set up	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1" 1/2	3.81 cm
Cutters gage	3"	7.62 cm

CONVEYOR SYSTEM

	US	METRIC
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 1.000 fpm	0 - 305 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	4' 0"	122 cm
Conveyor lenght	19' 8"	600 cm







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1875XL EVO CHAINSAW

Tesmec 1875XL EVO is the largest 160 metric ton-class trencher and the most powerful featuring a 950 HP (709 kW) engine, designed for big diameter pipelines in hard rock and in the toughest excavating conditions

STANDARD FEATURES

Productivity Achieve maximum productivity with 1875XL EVO tractor and chainsaw attachment, offered as standard together with adjustable stabilizers, crumbshoe and cross conveyor system.

Technology Rely on the already included TrenchTronic and Re.M to maximize excavation efficiency and fleet monitoring.

Safety in cab Experience the safety of the pressurized cab with air conditioning, heating and sound suppression. This is elevating with ROPS, as well as compartment security locks.

OPTIONAL FEATURES

- Side-mounted truck loading conveyor
- Air compressor, automatic greasing kit, security kit and work light package
- TrenchIntel, Smart Tracker and Laser automatic system for depth control
- Rubber track pads
- Remote control for maintenance

STATE OF THE ART TECHNOLOGY

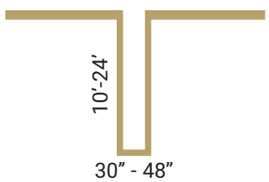
TrenchTronic 4.0 **(standard)** Electronic control with operator selectable digging pressure, fully automatic operation, and remote diagnostic system.

Re.M **(Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

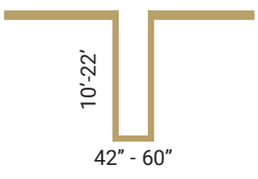
TrenchIntel (Optional) The extra high precision 3DGPS guidance system for automatic depth and grade control, autosteering to a predefined path, pass optimization and fleet control.

TRENCHING DIMENSIONS

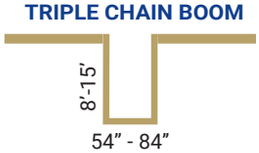
DOUBLE CHAIN NARROW BOOM



DOUBLE CHAIN BOOM



TRIPLE CHAIN BOOM



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TRANSPORT DIMENSIONS

	US	METRIC
Lenght 8 ft boom	46' 5"	1.415 cm
10 ft boom	48' 10"	1.489 cm
12 ft boom	51' 4"	1.564 cm
14 ft boom	53' 9"	1.638 cm
15 ft boom	54' 11"	1.674 cm
16 ft boom	56' 1"	1.710 cm
18 ft boom	58' 6"	1.783 cm
20 ft boom	60' 11"	1.856 cm
22 ft boom	63' 3"	1.928 cm
24 ft boom	65' 7"	2.000 cm
only tractor	35' 7"	1.084 cm
only tractor with stabilizers	40' 3"	1.228 cm
Width		
complete machine	18' 2"	554 cm
without digging motors	14'	428 cm
Height	13' 9"	418 cm
Weight	253,500 - 341,700 lbs	120.000 - 160.000 Kg
Ground pressure	22.4 - 30.3 psi	1.58 - 2.13 kg/cm2

ENGINE

	METRIC	US
Model and Max HP		
Tier 4 / Stage V CAT C27 ACERT	950 HP (709 kW)	
Tier 2 CAT C32 ACERT	950 HP (709 KW)	
Max no load rpm	1.800 RPM	
Fuel tank capacity	430 gal	1.630 L
Fuel consumption	47.55 gal/hr	180 L/hr
Cooling rating	129°F ambient air	54°C ambient air
Air cleaner	Dry type, 2 stages with pre-cleaner and automatic dust ejection	

TRACKS

	METRIC	US
Track chain type	374/365	
Track lenght	15' 8"	477 cm
Track pad width	2' 6"	76 cm
Track pad type	Demi-grouser	

CRAWLER DRIVE

	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 2.1 mph	0 - 3.36 km/h
Low range	0 - 1.1 mph	0 - 1.76 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc brake	

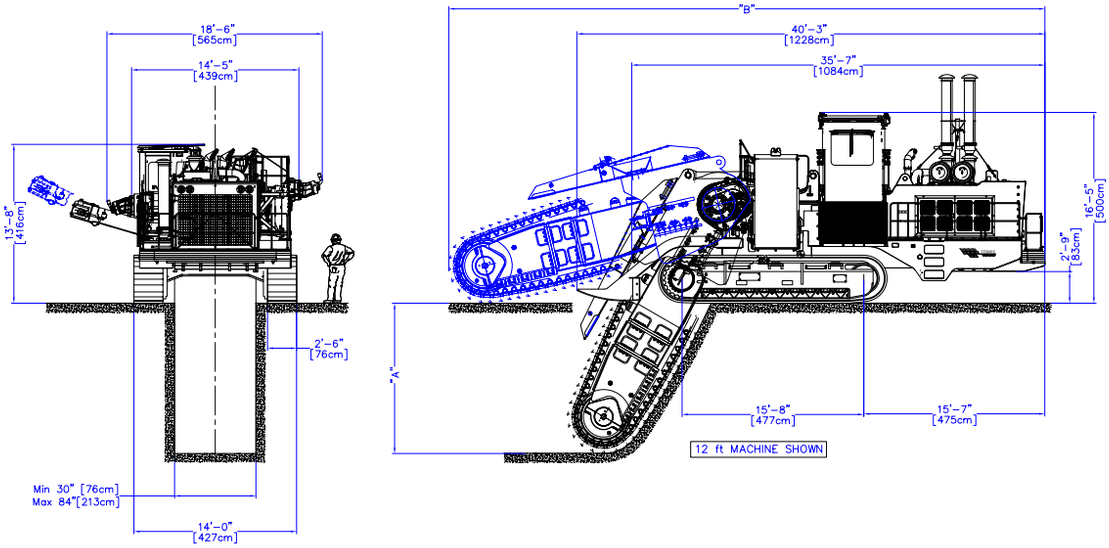
DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, four pumps and two motors	
Flywheel gearboxes	Shaved, helical gearing, case hardened for shock load	
Digging speed ranges	0 - 147 fpm	0 - 45 m/min
	0 - 251 fpm	0 - 77 m/min
	0 - 312 pfm	0 - 95 m/min
	0 - 372 fpm	0 - 114 m/min
	0 - 450 fpm	0 - 137 m/min
Digging chain	Tesmec D9R, D9N and D9X	
Digging chain adjustment	Hydraulic	
Digging chain boom top roller	Yes	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1" 1/2	3.81 cm
Cutters gage	3"	7.62 cm
Tailwheel diameter	4'	122 cm

CONVEYOR SYSTEM

	US	METRIC
Reversible and shiftable	Yes	
Conveyor belt speed	0 - 900 fpm	0 - 274 m/min
Conveyor discharge direction	Right or left	
Conveyor belt width	3' 6"	107 cm
Conveyor lenght	22' 9"	695 cm
Discharge height	10' 2"	310 cm

BOOM	"A"	"B"
8'	8' [244 cm]	46'-5" [1415 cm]
10'	10' [305 cm]	48'-10" [1489 cm]
12'	12' [366 cm]	51'-4" [1564 cm]
14'	14' [427 cm]	53'-9" [1638 cm]
15'	15' [457 cm]	54'-11" [1674 cm]
16'	16' [488 cm]	56'-1" [1710 cm]
18'	18' [549 cm]	58'-6" [1783 cm]
20'	20' [610 cm]	60'-11" [1856 cm]
22'	22' [671 cm]	63'-3" [1928 cm]
24'	24' [732 cm]	65'-7" [2000 cm]



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ST2

Tesmec ST2 is a 25-30 metric ton-class trencher featuring a 510 HP (375 kW) Tier 4/Stage V engine, or a 536 HP (394 kW) Tier 3 engine, designed to allow the simultaneous trenching and mechanical laying for the deployment of networks in rural environments and rocky grounds

STANDARD FEATURES

Productivity Exploit the productivity of ST2 with R1200, R1200E, R1400, R1400E and R1600 rocksaw attachments, featuring an hydraulic offset of 145 cm (4' 9") from center line on left and right, +/- 15° hydraulic tilt (rotation about horizontal axis) and +/- 27.6° hydraulic pivot (rotation about vertical axis). These are offered as standard with crumbshoe and security kit.

Remote control Experience the radio control system, which enables the operator to control the machine remotely, increasing the safety in site, the visibility on the trenching area and on the trenching tool.

OPTIONAL FEATURES

- Extension for little offset and crossbar for great external offset
- Set of 2 reel holder arms + Round bar : Ø60 mm Lg. 2700 mm
- Working light kit
- Accessories for mechanized laying
- Re.M
- Smart Tracker

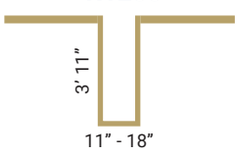
STATE OF THE ART TECHNOLOGY

Re.M The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

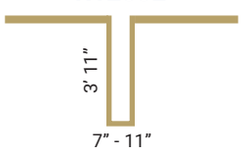
Smart tracker Automatically collects as-built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

TRENCHING DIMENSIONS

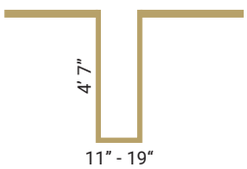
R1200



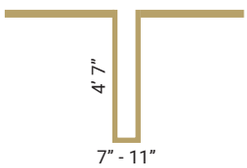
R1200E



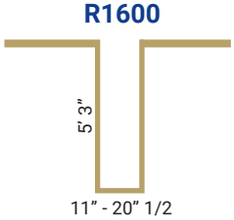
R1400



R1400E



R1600



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TRANSPORT DIMENSIONS

		US	METRIC
Lenght	(R1200 - R1200E)	33' 7"	1027 cm
	(R1400 - R1400E)	35'	1066 cm
	(R1600)	35' 8"	1091 cm
Width		8' 2"	250 cm
Height		10' 9"	327 cm
Weight	(R1200)	56 200 lbs	25.420 Kg
	(R1200E)	54.800 lbs	24.270 Kg
	(R1400)	58.700 lbs	26.630 Kg
	(R1400E)	57.300 lbs	25.060 Kg
	(R1600)	64.600 lbs	29.430 Kg
Ground pressure	(R1200)	9.3 psi	0.64 kg/cm2
	(R1200E)	8.8 psi	0.61 kg/cm2
	(R1400)	9.7 psi	0.67 kg/cm2
	(R1400E)	9.1 psi	0.63 kg/cm2
	(R1600)	10.5 psi	0.74 kg/cm2

ENGINE

	US	METRIC
Model and Max HP (kW)		
Tier 4/Stage V VOLVO TAD1384VE L6	510 HP (375 kW)	
Tier 2 VOLVO TAD1345VE L6	536 HP (394 kW)	
Max no load rpm	1.700 RPM	
Fuel tank capacity	222 gal	840 L
Fuel consumption		
Tler 4 /Stage V	24 gal/hr	90 L/hr
Tier 2	27 gal/hr	100 L/hr
AD Blue/DEF consumption	0.95 gal/h	3.6 L/hr
Cooling rating	122°F ambient air	50°C ambient air
Air cleaner	Dry type, 2 stages with dual pre-cleaner	

CRAWLER DRIVE

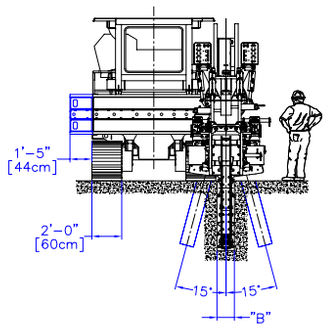
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with double lever steering and double lever direction	
Infinitely variable speed	Forward and reverse	
Transfer mode driving	0 - 1.37 mph	0 - 2.2 km/h
Work mode driving	0 - 0.80 mph	0 - 1.28 km/h
Parking and service brake	Hydraulic due to lack of pressure	

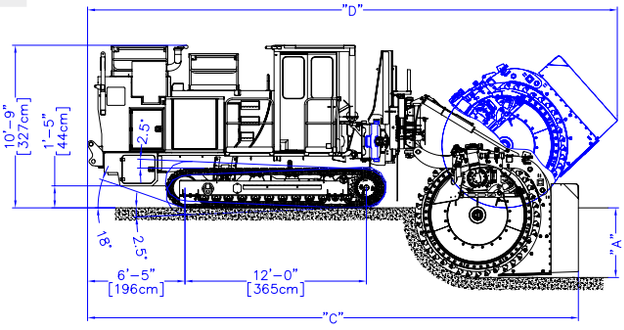
DIGGING DRIVE

	US	METRIC
Drive	Hydrostatic, two pumps and two motors	
Flywheel gearboxes		
Digging speed ranges	0 - 630 fpm	0 - 192 m/min
	0 - 886 fpm	0 - 270 m/min
Digging wheel	Single wheel	
Cutters	Rotary carbide tipped	
Cutters shank diameter	1" - 1" 1/2	2.5 - 3.8 cm
Cutters gage	2" 1/2	6.4 cm

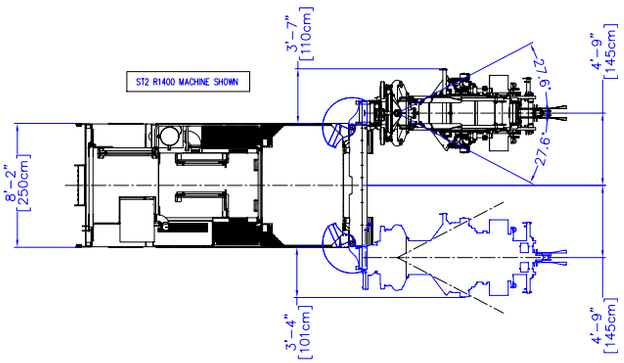
TRACKS

	US	METRIC
Track chain type	B4	
Track lenght	14' 6"	442 cm
Space idler / sprocket	12'	365 cm
Track pad type	Triple grouser	
Track pad width	2' 0"	60 cm
Tilt Undercarriage	+/- 2.5°	





TOOL	"A"	"B"	"C"	"D"
R1200	3'–11" [120 cm]	Min 11" [28 cm] Max 18" [45 cm]	31'–7" [966 cm]	33'–7" [1027 cm]
R1200E	3'–11" [120 cm]	Min 7" [18 cm] Max 11" [28 cm]	31'–7" [966 cm]	33'–7" [1027 cm]
R1400	4'–7" [140 cm]	Min 11" [28 cm] Max 19" [48 cm]	32'–4" [987 cm]	35' [1066 cm]
R1400E	4'–7" [140 cm]	Min 7" [18 cm] Max 11" [28 cm]	32'–4" [987 cm]	35' [1066 cm]
R1600	5'–3" [160 cm]	Min 11" [28 cm] Max 20.4" [52 cm]	33'–3" [1014 cm]	35'–8" [1091 cm]



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