

# 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

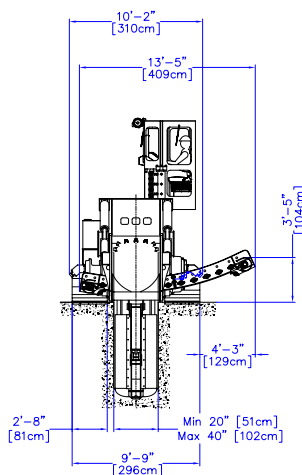
	US	METRIC
Length	38'	1.159 cm
Width		
complete machine with motors	10' 2"	310 cm
without digging motors	9' 9"	296 cm
Height	10' 7"	323 cm
Weight		
"Dirt"	83,100 - 91,900 lbs	37.700 - 41.700 kg
"Rock"	87,000 - 90,100 lbs	39.500 - 40.900 kg
Ground pressure		
"Dirt"	9.8 - 10.8 psi	0.69 - 0.76 kg/cm <sup>2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

## 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

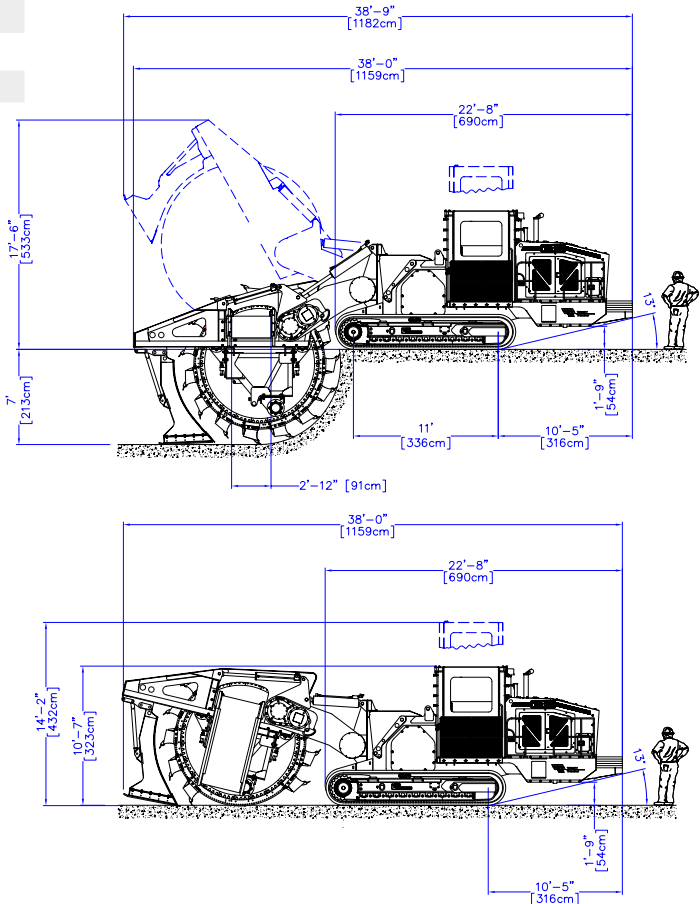
	US	METRIC
Drive	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering	
Infinitely variable speed	Forward and reverse	
High range	0 - 2.5 mph	0 - 4 km/h
Low range	0 - 1.1 mph	0 - 1.7 km/h
Parking and service brake	Spring applied, hydraulic release, wet disc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



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