

# M5



The TESMEC M5 chainsaw trencher stands as our largest torque converter machine, purpose-built for effective excavation and trenching operations.

Its exceptional chain pull, coupled with remarkably low chain speed, positions it at the forefront of the industry. Integrated with cutting-edge technologies like TrenchIntel, TrenchTronic, and Re.M, this machine excels at tackling demanding tasks in the field. Specifically tailored for abrasive and rocky terrains, the M5 addresses the trenching needs of challenging environments. With a focus on bolstering productivity and optimizing the trenching process, the TESMEC M5 trencher is an ideal choice for rigorous and challenging conditions.

## STATE OF THE ART TECHNOLOGY

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

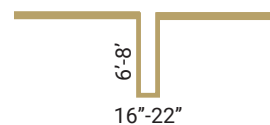
**Re.M (Standard)** The remote monitoring system with machine data remote monitoring, fleet location management, troubleshooting information and operating conditions

**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

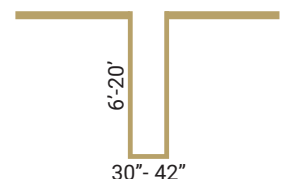
**Smart Tracker (Optional)** Automatically collects as built data while the machine is trenching, avoiding survey stakeout and achieve the complete digitalization of the jobsite

## TRENCHING DIMENSIONS

SINGLE CHAIN BOOM



DOUBLE CHAIN BOOM



## TRANSPORT DIMENSIONS

	US	METRIC	
<b>Length</b>	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
<b>Width</b>			
With 30" (76 cm) standard	10' 5"	316 cm	
With 24" (61 cm) optional	9' 10"	300 cm	
<b>Height</b>	with crumbshoe	11' 10"	361 cm
	without crumbshoe	11' 6"	351 cm
<b>Weight</b>	141,000 - 177,000 lbs	63.900 - 80.300 Kg	
<b>Ground pressure</b>	13.7 - 17.3 psi	0.96 - 1.22 kg/cm <sup>2</sup>	

## ENGINE

	US	METRIC
<b>Model and Max HP (kW)</b>		
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)
<b>Max no load rpm</b>	2,100 RPM	2.100 RPM
<b>Fuel tank capacity</b>	314 gal	1.190 L
<b>Fuel consumption (at full load)</b>		
Tier 4/Stage V	25.5 gal/hr	97 L/hr
Tier 3	22.7 gal/hr	86 L/hr

## AD Blue/DEF consumption

Tier 4/Stage V	0.77 gal/hr	2.91 L/hr
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## Cooling rating

135°F ambient air	57°C ambient air
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## Air cleaner

Dry type, centrifugal pre-cleaner with primary and secondary filters

## TRACKS

	US	METRIC
<b>Track chain type</b>	D7	
<b>Track length</b>	14' 4"	437 cm
<b>Track pad width</b>	2' 6" (standard)	76 cm (standard)
	2" (optional)	61 cm (optional)
<b>Track pad type</b>	Single, double or triple grouser	

## CRAWLER DRIVE

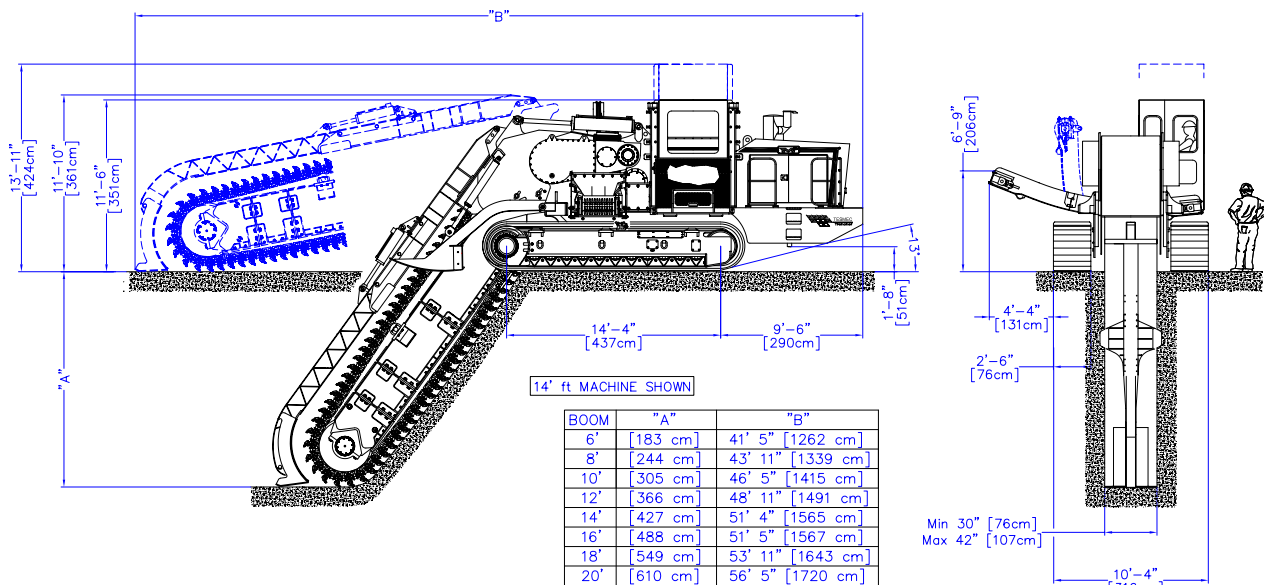
	METRIC	US
<b>Drive</b>	Dual path, hydrostatic, planetary transmissions	
	Full counter rotation with single lever steering and direction	
<b>Infinitely variable speed</b>	Forward and reverse	
High range	0 - 1.3 mph	0 - 2.1 km/h
Low range	0 - 0.9 mph	0 - 1.5 km/h
<b>Parking and service brake</b>	Spring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

## DIGGING DRIVE

	US	METRIC
<b>Drive</b>	Electronically controlled transmission driving a heavy duty differential that transmits power to headshaft via sprockets and multi-strand roller chain	
<b>Digging speed ranges</b>	101 - 203 fpm	31 - 62 m/min
	185 - 375 fpm	56 - 114 m/min
	247 - 500 fpm	75 - 152 m/min
	354 - 714 fpm	108 - 218 m/min
<b>Digging chain</b>	54/345 for double chain configuration D9R / D9N for single chain configuration	
<b>Digging chain adjustment</b>	Hydraulic	
<b>Digging chain boom top roller</b>	Yes	
<b>Cutters</b>	Rotary carbide tipped	
<b>Cutters shank diameter</b>	1 1/2"	3.81 cm
<b>Cutters gage</b>	3"	7.62 cm

## CROSS CONVEYOR

	US	METRIC
<b>Reversible and shiftable</b>	Yes	
<b>Conveyor belt speed</b>	0 - 1,000 fpm	0 - 305 m/min
<b>Conveyor discharge direction</b>	Right or left	
<b>Conveyor belt width</b>	2' 6"	76 cm
<b>Conveyor length</b>	12' 9"	389 cm
<b>Discharge height</b>	6' 9"	205 cm



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