



TD 15 PRO SURFACE CORE DRILL RIG TECHNICAL BROCHURE

www.torquedrill.com

TECHNICAL INFORMATION

Drilling Depth Guidelines		
Fluid Filled	Metric	U.S.
Drill Rod/ Core Barrel	Hole Depth Meters	Hole Depth Feet
NRQ/ NQ	1500	5000
HRQ/ HQ	1015	3330
PHD/ PQ	670	2200
*Depth capacities measured based on convenient under surface structure.		

Prime Mover		
	Metric	U.S.
Standard Unit	Cummins QSL 9, Tier 3 liquid cooled, turbo charged, after cooled, diesel engine.	
Displacement	9 L	543 in ³
Power (maximum) at 2200 RPM	209 kW	280 hp
Emissions Certification	Tier III	Tier 3

Torque and RPM Ratings			
(Hydraulic motor at maximum/minimum displacement, prime mover at 2,200 RPM)			
Speed (no load)			
	RPM	Nm	lbft
1 st Gear	144-199	5322 - 3826	3925-2822
2 nd Gear	288-400	2648- 1898	1963 - 1400
3 rd Gear	514-714	1486 - 1068	1096 - 788
4 th Gear	900-1250	849 - 610	626 - 450

NOTE: Head output speed and torque are infinitely variable in each gear range as indicated. Actual rotation speed is affected by RPM and hydraulic motor displacement setting.

Hydraulic System		
	Metric	U.S.
Primary Pump	Axial piston, variable displacement load sensing, pressure compensated with low pressure standby.	
Max Flow	220 L/m	58 gpm
Max Pressure (factory setting)	31 MPa	4500 psi
Secondary Pump	Axial piston, variable displacement load sensing, pressure compensated with low pressure standby.	
Max Flow	66 L/m	17.5 gpm
Max Pressure (factory setting)	21 MPa	3000 psi
Auxiliary Pump	Axial piston, variable displacement, pressure compensated	
Max Flow	55 L/m	14.5 gpm
Max Pressure (factory setting)	14 MPa	2000 psi
Hydraulic Tank Capacity	242 L	64 Gal

Drill Head		
Rotation Motor	Rexroth hydraulic motor - variable/reversible	
Mechanical Transmission	4 speed	
Ratios	1 st	6.27:1
	2nd	3.12:1
	3rd	1.75:1
	4th	1.00:1
Final Drive	Straight cut gears	
Ratio	2:1	
Head Opener	Side shift style - hydraulically actuated.	
	Nitrogen gas spring actuated chuck	
Hydraulic PQ Chuck	Hydraulically opened, nitrogen gas spring closed	
	Axial holding capacity of 222 400 N (50000 lbf)	
Drill Head	Force fed bearings, oil bath for gears	
Drill Head Lubricating Oil Filtration	25 micron suction oil filter - independent constant flow	

Drill Mast and Feed System		
	Metric	U.S.
Feed Stroke	3.35 m	11 ft
Max Pull Capacity	167.7 kN	37700 lbf
Max Thrust Capacity	88.4 kN	19880 lbf
Rod Pull	3 or 6 m	10 or 20 ft
Drilling Angle	45° off horizontal to 90° vertical down	
Mast Dump (crowd)	2.34 m	7.7 ft
Mast Telescope	3.35 m	11 ft

Draw Works		
	Metric	U.S.
Main Line Hoist	Single speed motor	
Hook Load (single part line)		
Bare Drum	94.7 kN	21,300 lbf
Hoisting Speed (single part line)		
Bare Drum	35 m/min	1.15 ft/s
Main Hoist Cable	15 mm	0.59 in
Minimum Breaking Strength	300.0 kN	67400 lb
Note: Do not use multiple part lines with the main line hoist, use single part line ONLY.		
Foot Clamp Capacity	HWT	
Wireline Hoist		
Level Wind	Accept	
Level Pull		
Bare Drum	12 kN	2700 lb
Full Drum	2.2 kN	502 lb
Line Speed		
Bare Drum	123 m/min	405 ft/min
Full Drum	321 m/min	1054 ft/min
Drum Capacity (4.8mm/316° swaged)	1890 m	6200 ft
Minimum Breaking Strength	2268 kg	5000 lb
Note: Wireline cable length to be specified at time of order		

Additional Information		
	Metric	U.S.
Fuel Tank Capacity	243 L	64 Gal

DIMENSIONS AND WEIGHTS*

Weight = 10 tons

Consisting of:

Power Unit Group Cummins 9 L, Tier 3, 6 cylinder Diesel Engine Unit

Hydraulic Module

Draw Works Grp. c/w 21300 lb Main Line Hoist with Cable, Wireline Hoist less Cable

Hydraulic Mast Raising

Hydraulic Mast Dump

Telescopic Mast Assembly

Rotation Unit Grp. c/w PQ Chuck

Base Frame

Battery - 24V

Hydraulic Foot Clamp HWT Capacity

Triplex Mud Pump

Mud Mixer Assembly

Options

Catwalk, Railing and Access Stairs

Rod Rack Platform

Hydraulic Leveling Jacks/Outriggers

Truck Mounting Sub-frame

Hot Weather Hydraulic Cooling Group

Decals available in multiple languages

Fluid circulation pumps

Mud Mixer

NOTE: The TD15 PRO DTMS requires an additional sub frame for mounting onto a truck.

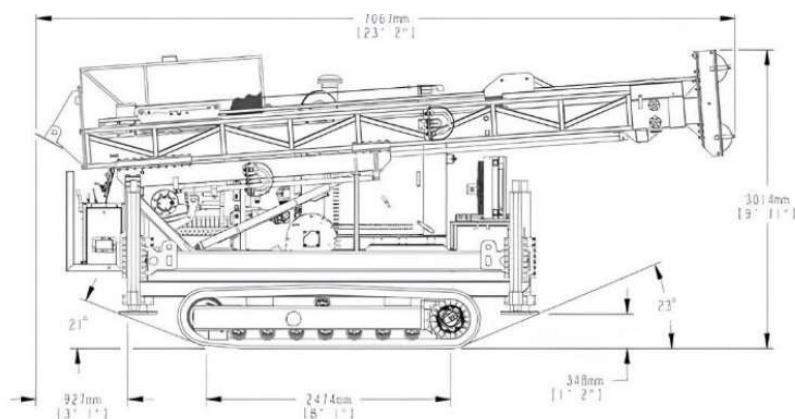
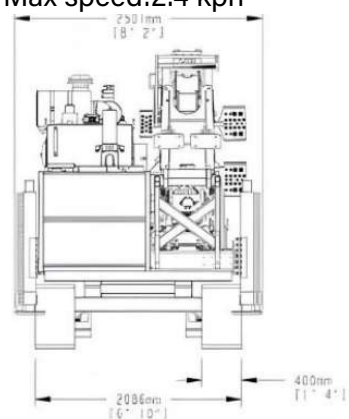
WARNING: Do not operate this drill with rods racked in wind velocities in excess of 85 km/h.

Drill Transport Positions C/W Crawler

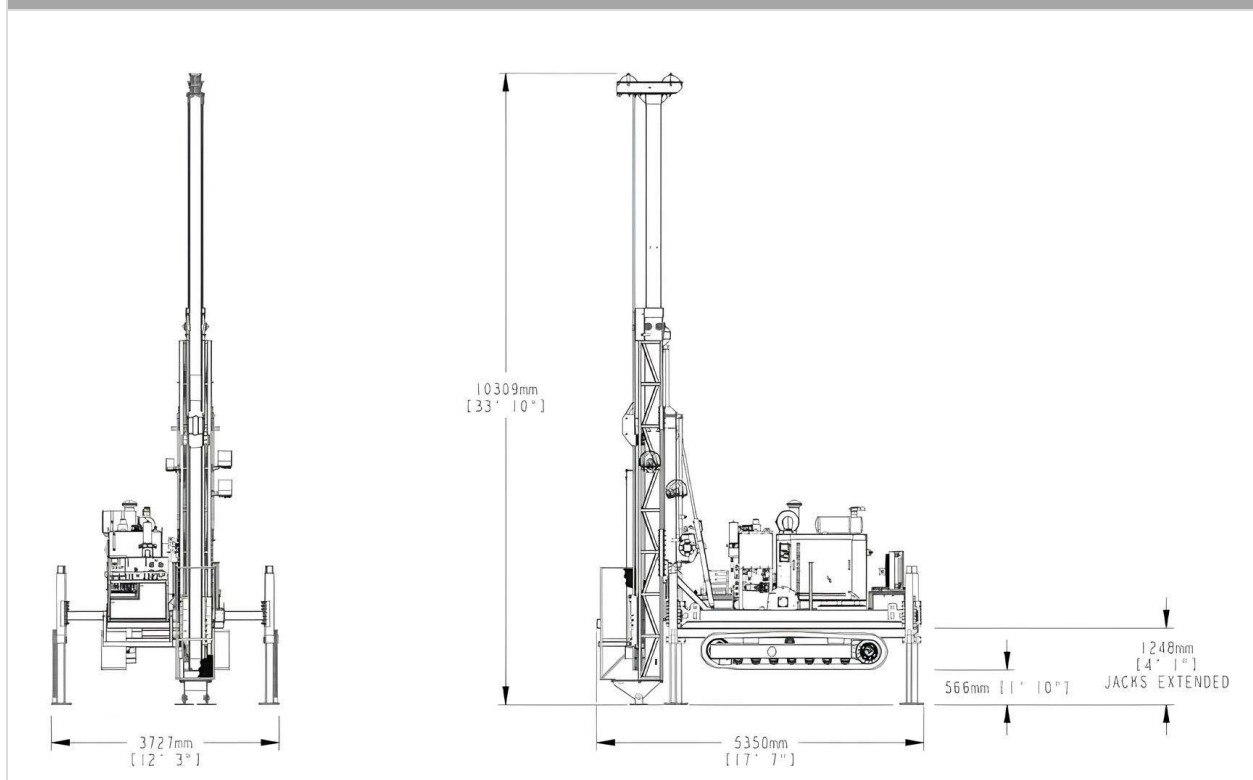
Wet Weight = 28660 lbs (13 ton)

Ground pressure: 0.66 kg/cm²

Max speed: 2.4 kph



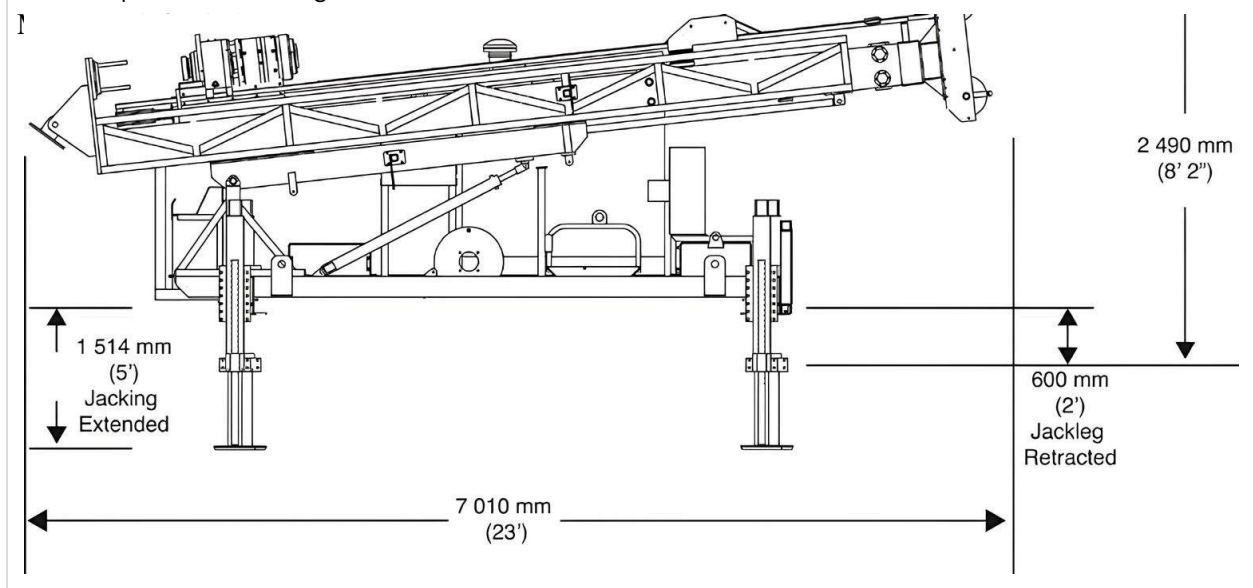
Drill Mast at 90 C/W Crawler



Drill Transport and Position - Basic Drills

Wet Weight = 22000 lbs (10 t)

Ground pressure: 0.71 kg/cm²

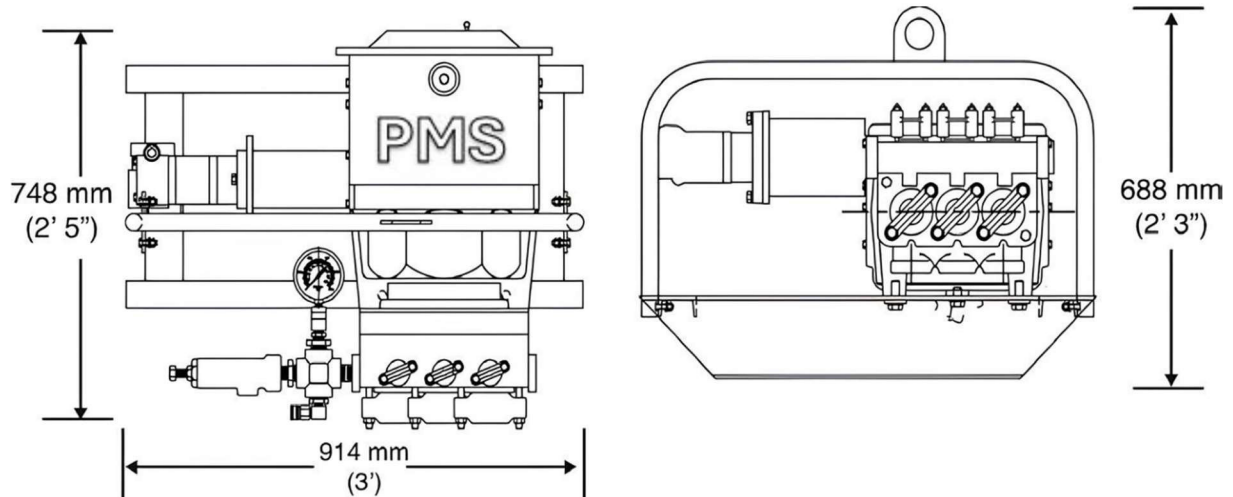


(W11) Fluid Circulation Pump Group (optional)

Wet Weight = 254 kg (560 lb)

The max. Output of W11 pump: = 35 GPM @1000 psi (70 bar)

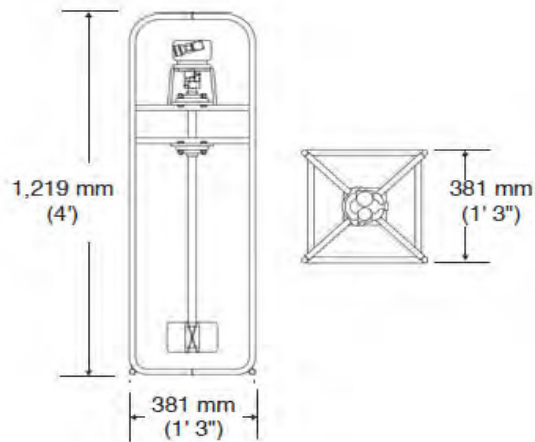
An optional liner kit is available to improve pump operation at lower flow rates. Max output with kit installed is limited to 20 GPM @ 1000 psi (70 bar)



Mud Mixer Assembly (Optional)

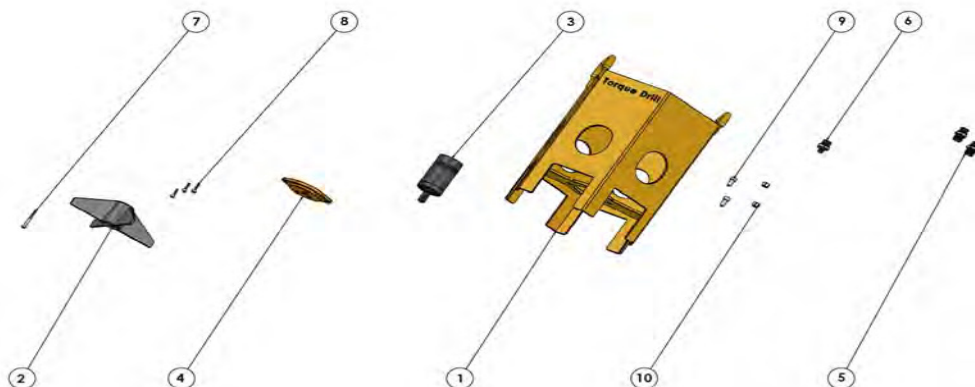
Wet Weight = 31 kg (68 lb)

Note: Maximum speed of the mud mixer shaft at full flow is 2,300 rpm



Mud Mixer Assembly (Standard)

Note: Maximum speed of the mud mixer shaft at full flow is 2300 rpm.



Full Mine Spec Safety Options

Consisting of:

Tramming lights, tramming back-up alarm. (Forward & Reverse)

Fire suppression system

Mainline winch cover, limiter & tensioner kit

Wireline winch limiter

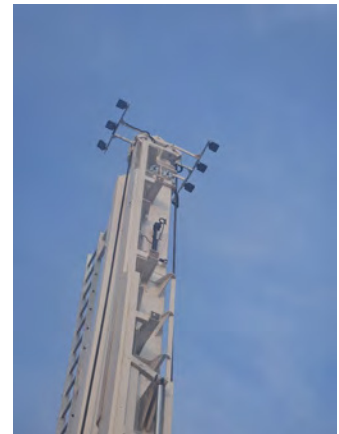
Control panel safety top cover, and operators cage.

Rotation safety barrier (No hands on rotation)

Led lights on top of mast

Remote Control(Radio Control System)

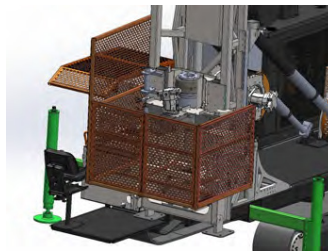
Exhaust Muffler Safety Cover



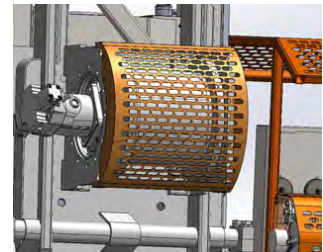
LED LIGHTS ON THE TOP
OF THE MAST



TRAMMING LIGHTS



ROTATION SAFETY BARRIER
(NO HANDS ON ROTATION)



MAINLINE WINCH COVER



CONTROL PANEL SAFETY
TOP COVER



FIRE SUPPRESSION SYSTEM



MAINLINE WINCH LIMITER



EXHAUST MUFFLER
SAFETY COVER



WIRELINE WINCH
LIMITER



RADIO CONTROL
SYSTEM

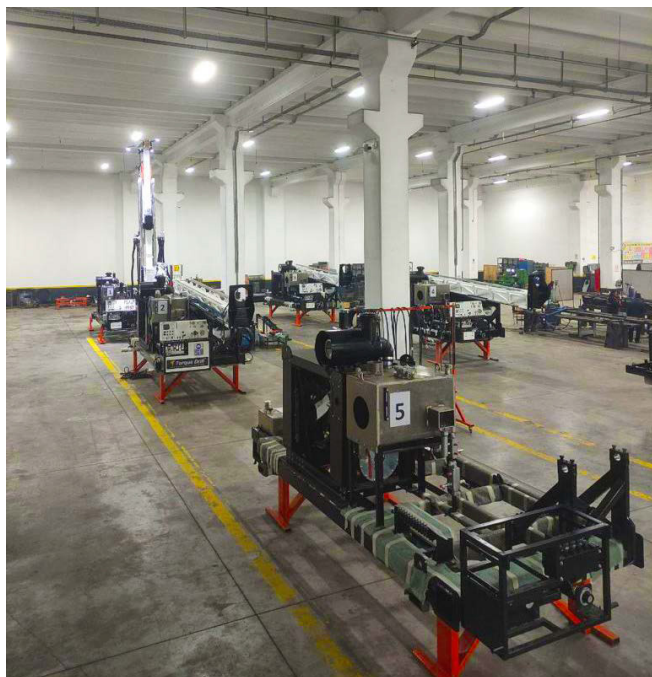
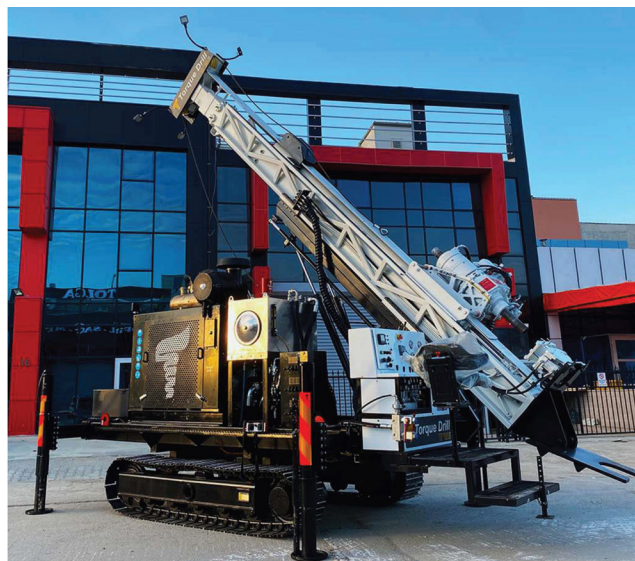
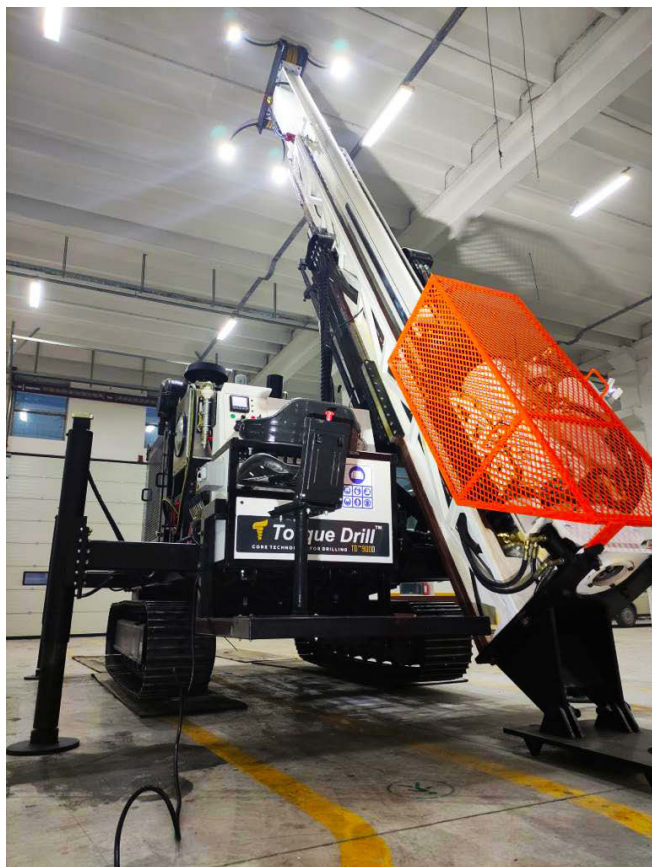


MAINLINE WINCH
TENSIONER











TORQUEDRILL

"CORE TECHNOLOGY FOR DRILLING"

www.torquedrill.com



POLATLAR GROUP DIŞ TİC. LTD. ŞTİ.

📍 Ostim OSB Mah. 1219 Sokak No:25 06374
Yenimahalle-ANKARA/TÜRKİYE

☎ +90 312 385 32 28 Fax: +90 312 385 32 26



**POLATLAR
GROUP**

www.polatlargroup.com