



TD2300DTMS



TORQUEDRILL

"CORE TECHNOLOGY FOR DRILLING"

TD2300 DTMS 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	2661	8730
HRQ/ HQ	1806	5925
PHD/ PQ	1190	3904
*Depth capacities measured based on convenient under surface structure.		

Prime Mover

	Metric	U.S.
Standard Unit	Cummins QSC 8.3 L or QSL 9.0 L liquid cooled, turbo charged charge air cooled diesel engine.	
Displacement	QSC 8.3 L or QSL 9.0 L	506 in3 or 543 in3
Power (maximum) at 2,200 RPM	205 kW or 260 kW	275 hp or 350 hp
Emissions	Tier 4 Final	Tier 4 Final

Torque and RPM Ratings

	Metric	U.S.	
(Hydraulic motor at maximum/ minimum displacement, prime mover at 2,200 RPM)			
	Speed (no load)	Torque (stall)	
	RPM	Nm	ftlbs
1st gear	144-199	5322-3826	3925-2822
2nd gear	288-400	2648-1898	1953-1400
3rd gear	514-714	1486-1068	1096-788
4th 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 engine 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	318 L/m	84 gpm
Maximum 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 gpm
Maximum Pressure (factory setting)	21 Mpa	3000 psi
Auxiliary Pump	Axial piston, variable displacement, pressure compensated.	
Max Flow	54 L/min	14 gpm
Maximum Pressure (factory setting)	14 Mpa	2000 psi
Hydraulic Tank Capacity	435 L	115 gal

Drill Head		
	Metric	U.S.
Rotation Motor	Rexroth hydraulic motor- variable / reversible	
Ratios	1st	6.27:1
	2nd	3.12:1
	3rd	1.75:1
	4th	1.00:1
Final Drive	straight cut gears	
Ratio	02:01	
Head Opener	Pivoting style - hydraulically actuated	
Hydraulic PQ Chuck	Chuck Hydraulically opened, nitrogen gas spring closed. Axial holding capacity of 222 400 N (50,000 lbf)	
Drill Head Lubrication	Force fed bearings, oil bath for gears, external sump	
Drill Head Lubrication Oil Filtration	25 micron suction oil filter	

Drill Mast and Feed System

	Metric	U.S.
Feed stroke	3.35 m	11 ft
Max Pull Capacity	223.6 kN	50,265 lbf
Max Thrust Capacity	117,9 Kn	26,500 lbf
Rod Pull	6 or 9 m	20 or 30 ft
Drilling Angle	45° off horizontal to 90° vertical down	
Mast Dump (crowd)	2.74 m	9 ft
Mast Telescope	2.87 m	9.42 ft

Draw Works

	Metric	U.S.
Main line winch	Two speed motor	
Hook load (single part line)		
Bare Drum	177.9 kN	40000 lb
Hoisting speed (single part line)		
Bare Drum	1.1 m/s & 67 m/s	3.6 ft/s & 2.2 ft/s
Main line winch cable dia.	22 mm	7/8 in
Minimum breaking strenght	508.8 kN	114400 lbf
Note: Do not use multiple part lines with the main line hoist, use single part line ONLY.		
Foot clamp capacity	HWT - 178 kN (Axial)	
Wireline Hoist		
Level wind	Chain driven - dual ratio	
Line Pull		
Bare Drum	17.2 kN	3880 lbs
Full Drum	9.5 kN	2130 lbf
Line Speed		
Bare Drum	160 m/min	525 ft/min
Full Drum	284 m/min	932 ft/min
Drum Capacity		
Note: Wireline cable lenght to be specified at time of order		

Additional Information

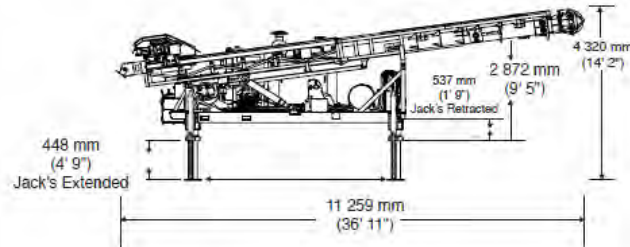
Fuel Tank Capacity	Metric	U.S.
Standard	490 L	129 gal

DIMENSIONS AND WEIGHTS*

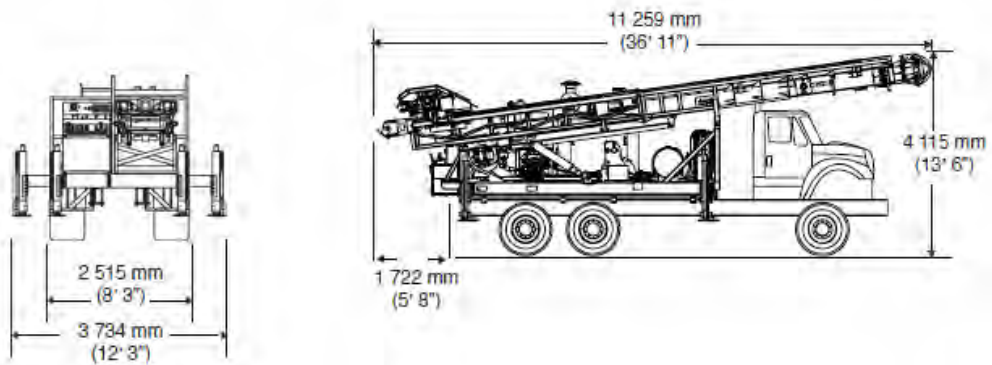
Wet Weight**=13607 kg (32160 lb)
Consisting of:
Power unit group Cummins QSC 8.3 L or QSL 9.0 L, Tier 4F, 6 cylinder
Hydraulic Module
Draw Works Grp. c/w 40,000 lb main line hoist with cable, wireline hoist less cable
Hydraulic mast raising
Hydraulic mast dump
Telescopic mast assembly
Rotation unit grp. c/w PQ Chuck
Base frame
Fuel tank (490 L/129 gal)
Battery 24V
Hydraulic leveling jacks / outriggers (optional)
Foot clamp
Mast access ladders
Hydraulic water pump
*For high mobility, the mast mounted platform is kept lightweight. An optional rod rack is available for vertical holes only, otherwise rods are stacked on the ground.

Options
Truck mounted
Catwalk, railing and access stairs
Hydraulic cooler (hot climate)
Mast rest (truck mount version)
Decals available in multiple languages
Fluid circulation pumps (diesel supply and pressure)
Mud mixer
Warning: do not operate this drill with rods racked in wind velocities in excess of 85 km/h. This unit must not be operated without a truck or drilling skid base installed for stability.

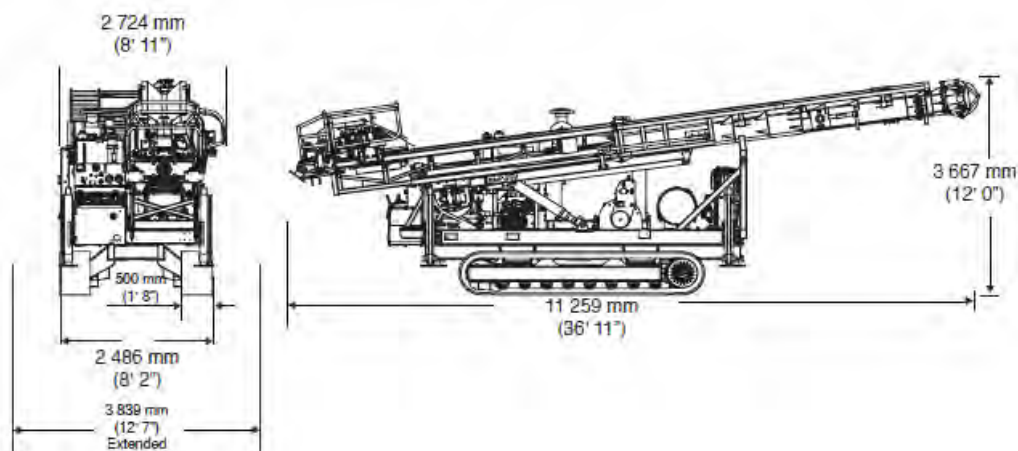
Drill Transport Position - Basic Drill



C/W Optional Truck - Mast Transport Position



Drill Transport Position C/W Optional Crawler

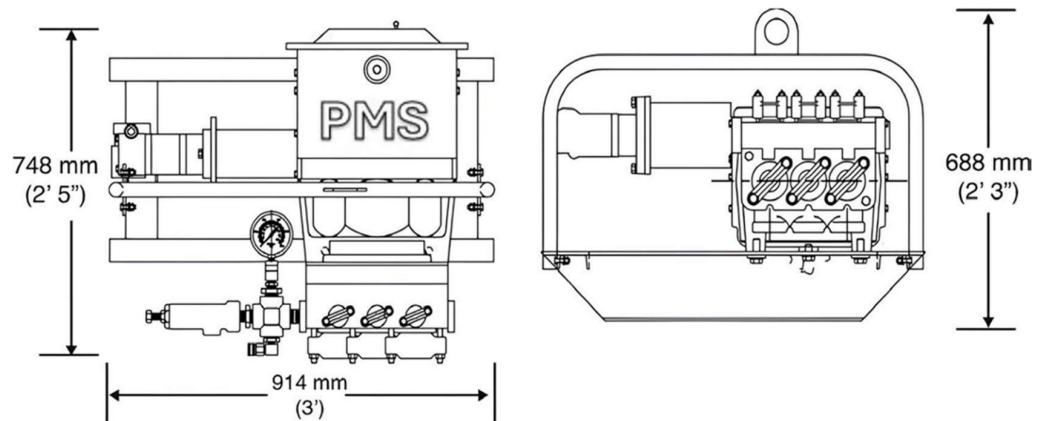


(W11) Fluid Circulation Pump Group (Optional)

Wet Weight = 254 kg (560 lb)

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

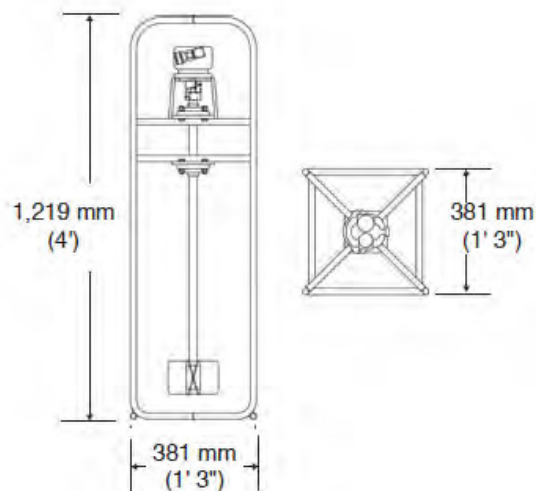
An optional liner kit is available to improve pump operation at lower flow rates. Max output with kit installed is limited to 20 GPM @ 1000 psi (70 bar)



Mud Mixer Assembly (Optional)

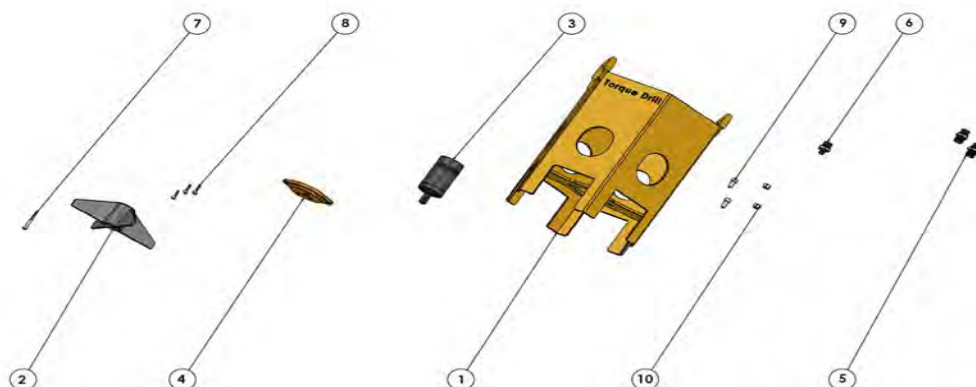
Wet Weight = 31 kg (68 lb)

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

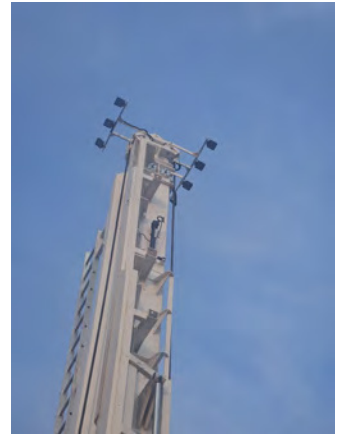
Control panel safety top cover, and operators cage.

Rotation safety barrier (No hands on rotation)

Led lights on top of mast

Remote Control(Radio Control System)

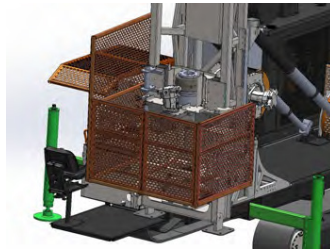
Exhaust Muffler Safety Cover



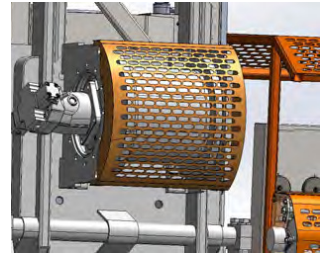
LED LIGHTS ON THE TOP
OF THE MAST



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



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