

MD300

CORE DRILLING MACHINE



Core Drilling Machine

www.melissondaj.com.tr

Core Drilling Machine

MD300; In NQ size 500 meters and HQ size 300 meters can drill down. This drilling machine is designed and manufactured specifically for your mine research with its Multifunction use. Manufactured with world standard equipment and materials, all parts and components of our machine can be easily found all over the world.

+ OUR OPTIONS

- Easy availability of all parts and equipments used in machine anywhere around the world
- Compatible with all occupational safety criteria
- Remote monitoring and management of adaption with high technology
- Easy and safe use
- Ability to make special production in all options according to requests and demands



High Performance

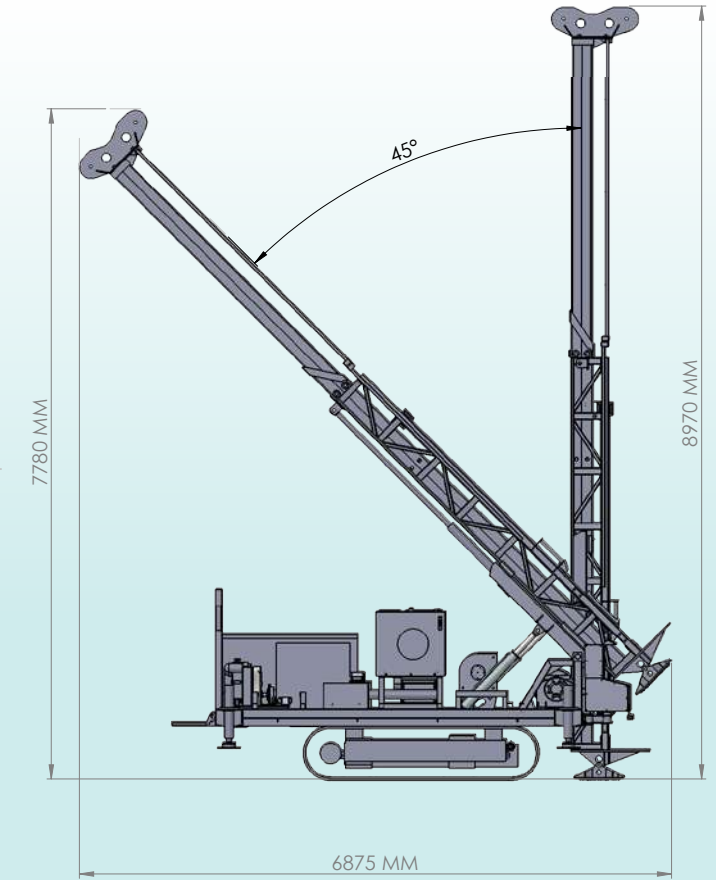
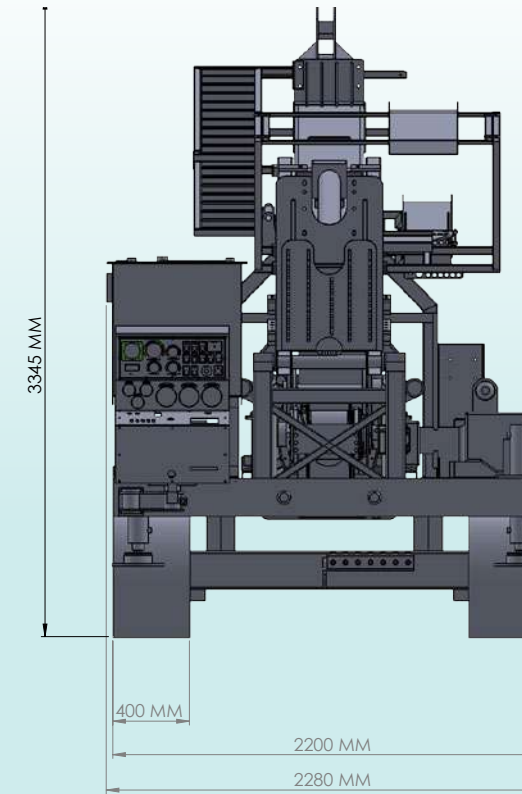
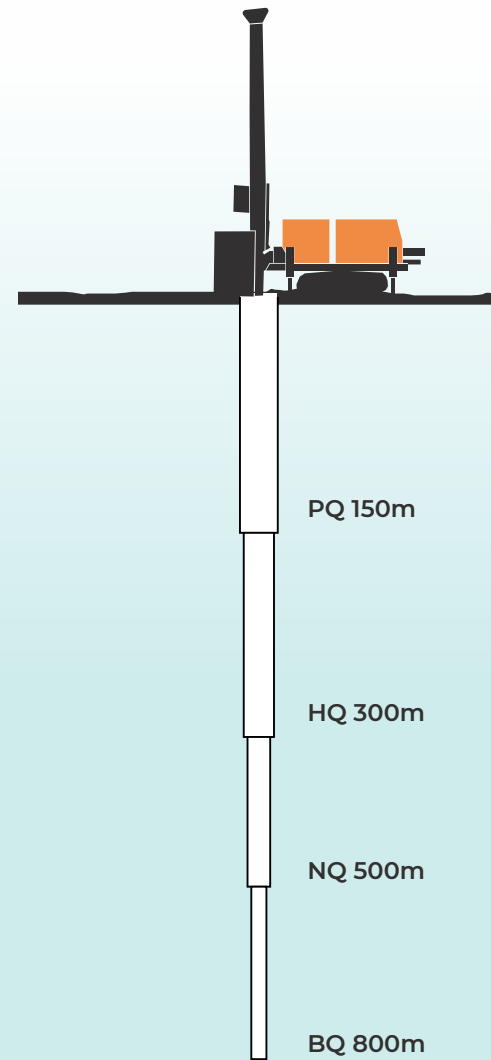
MD300; we aim to provide the highest hydraulic and mechanically full-time performance, thanks to the high quality products that are also used and selected in our production. Aiming to provide you convenience and power in the most difficult land conditions, our machine is a multi-function drilling machine manufactured for you with its design and product quality.

Work Safety

MD300; manufactured according to all occupational safety criteria, our machine provides all HSE standards under land conditions and during operation. Our company supports the zero accidental policy with both our personal trainings and our occupational safety equipment on the machine.

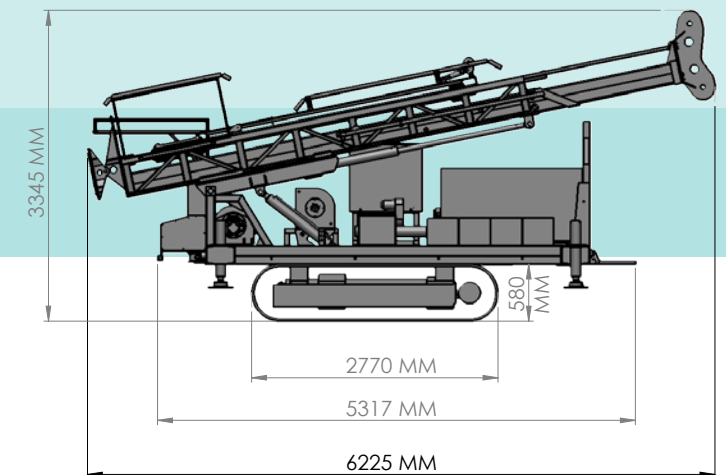
Ease of Use

MD300; has all the analogue and digital indicators on the machine. Our panel provides the opportunity to monitor all data at the same time. It is designed for easy and simple use from difficult land conditions. This panel is also supported with remote monitoring and usage module and can be managed from thousands of kilometers by the moving panel and remote management module.

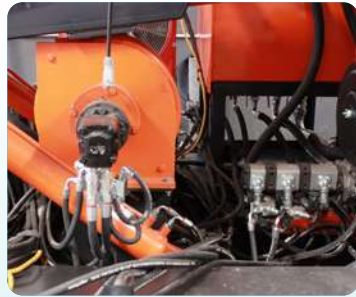


Main Parts:

- Hydraulic telescopic mast
- Convenient control panel
- Optional diesel engine
- Hydraulic jaws
- Main winch and wireline winch
- 200 liter fuel tank
- Triplex mud pump
- The best crawler brands in the world



UNIT	BRAND	FLOW	PRESSURE
MAIN HYDRAULIC PUMP ⌵ Variable Displacement Axial Pump ⌵ Load Sensing	Kawasaki/Rexroth	85 cc	280 bar
Second Hydraulic (Piston) Pump	Kawasaki/Rexroth	32 cc	230 bar
Thirt Hydraulic Pump (Piston) Pump	Kawasaki/Rexroth	19 cc	180 bar
Forth Hydraulic (Gear) Pump	Kawasaki/Rexroth	19 cc	180 bar
Fifth Hydraulic (Gear) Pump	Kawasaki/Rexroth	8 cc	180 bar
Wireline Hydromotor	Brevini/Danfoss	310 cc	
Mud Pump Hydromotor	Danfoss	100 cc	
Main Winch Hydromotor	Parker	80 cc	
Hydraulic Controller Units	Danfoss/Bucher		
Control Panel Hydraulic Components	Sun/Oleoweb		
Hydraulic Tank Capacity	200 Lt		
Cooler	Akg	DOUBLE COOLING	
Filters	RETURN , SUCTION , PRESSURE AND ROTARY UNIT		



DRILLING ANGLE	0 - 90° Vertical		
Feed Stroke	335cm		
Feed Pull	12.500kg		
Feed Thrust	8.000 kg		
Mast Features	✎	Telescopic Folding Mast	
	✎	6 mt Rod Pul	
	✎	Independent 2 Hydraulic Piston	
	✎	Hydraulically Side Moving Rotation Unit	
	✎	Main Winch on the Mast	
	✎	Emergency Safety Wire Ropes	
	✎	SPT Auto Hammer	
Winch and Wire Ropes			
Main Winch	✎	BRADEN	
	✎	Fixed Speed Hydraulic Powered Motor	
	✎	9.000 Kg. Pull Up Capacity	
	✎	15m/min Pull Up Speed	
	✎	18mm Dia Wire Rope	
Wireline Winch	✎	37 kN Free Drum Force	
	✎	8,9 kN Full Drum Force	
	✎	130m/min Free Drum Speed	
	✎	550m/min Full Drum Speed	
	✎	6 mm DIA , 1.600m Steel Rope	
Crawler		STRICKLAND SRL 8-12 TON	

HYDRAULIC FEATURES

DRILL MAST AND FEED SYSTEM



DRILLING CAPACITIES

Wireline Rod Name	Outer dimensions (mm)	Dry Well (m)	Wet Well (m)
BQ	55,60	600	800
NQ	69,90	350	500
HQ	88,90	200	300
PQ	114,00	120	150

ENGINE

ENGINE MODUL	Cummins / Ford / Volvo / Mercedes-Benz		
Maxsimum Power	160 Hp - 220 Hp @2200 rpm		
Full Tank Capacity	200 Lt		
Emission Certification	Tier-4 Certification		
Tork Values	987 Nm @ 1500 rpm		
Control Unit	Electronic Control (ECM)		

ROTATION UNIT (LF70 LONGYEAR TYPE)

Hydromotor	80 cc		REXROTH
Chuck Inner Diameter	119mm		
Jaw Quantity	5 Pieces		
Axial Holding Capacity	110.700 N		
Jaw Type	Hydraulic Compression Spring Opening		
Mechanical Transmission	Funk 4 Gear	4 Gear	
Main Gear Ratio	2:1		
Transmission	Gear Ratios	RPM	Torque
1.	6,27:1	160 rpm - 260 rpm	3.987 Nm
2.	3,12:1	320 rpm - 522 rpm	1.984 Nm
3.	1,75:1	571 rpm - 930 rpm	1.115 Nm
4.	1,00:1	1.000 rpm – 1.630 rpm	634 Nm



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SONDAJ**
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