

GEOTECHNICAL

DRILLING RIG MD600X



SETTING THE INDUSTRY STANDARD FOR HIGH-
QUALITY GEOTECHNICAL DRILLING RIGS.



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Multipurpose Hydraulic Drill - MD600X

The newest addition to our fleet, the MD600X drilling rig, is engineered for the U.S. market, addressing the specific needs of American drillers. Built on a solid platform with a 20in wide track, it excels in challenging terrains, delivering over 8,000 lb-ft of torque and 1250 RPM for various drilling works. The rig combines a progressive cavity pump, perfect for grouting and a triplex pump for coring, allowing it to drill depths of up to 500 meters in N wireline and 450 meters in NW/NWJ configurations.

TECHNICAL INFORMATION

DRILLING DEPTH CAPACITIES

- | | |
|---------------------------|---|
| • Hollow Stem Augers | 3-1/4 in [83 mm] ID: 164 ft [50 m] |
| • Continuous Flight Auger | 6 in [152.4 mm] OD: 295 ft [90 m] |
| • Rotary Drilling | NW: 1,500 ft [457 m] ; |
| | 4-1/2 in [114 mm] OD Drill Pipe: 590 ft [180 m] |
| • Diamond Core Drilling | N Wireline: 1,600 ft [487 m] |

POWER UNIT SPECIFICATIONS

- | | |
|----------------------|--|
| • Model | John Deere Engine Tier 4F- Stage V - 125 KW (173 Hp) |
| • Fuel Tank Capacity | 33 Gallons [125 L] |
| • Ignition System | 12V Electric Start |
| • Oil Tank Capacity | 116 Gallons [440 L] |

ROTATION HEAD SPECIFICATIONS

- Eight Speed Gearbox + Two Speed Variable Displacement Motor
- Top mounted Heavy duty water swivel
- hollow auger spindle 3-3/4 inch I.D Box + NWJ Pin
- Highest Torque - 8,482 ft-lb @ 68 RPM
- Highest Speed - 1250RPM
- Proportional Rotation head Lever

HYDRAULIC FEED SYSTEM

- | | |
|---------------------|-----------------------------------|
| • Pulldown Force | 15,432 lbs [7,000 kg] |
| • Pull up Force | 22,046 lbs [10,000 kg] |
| • Feed Down Rate | 0-74 ft/min [0-23 m/min] |
| • Feed Retract Rate | 0-45 ft/min [0-13.5 m/min] |
| • Feed stroke | 6.8ft [2.1m] / 13ft [4m] Optional |
| • Mast Dumping | 37.4 in [950mm] |

HOISTS

- High Line Capacity Winch 11,023 lbs [5,000 kg], Cable Diameter 5/8 in [16mm]
- Auxiliary - Single Line Capacity 5,500 lbs [2,500 kg], Cable Diameter 1/2 in [12.7mm]
- Wireline 2,200 lbs [1,000 kg], Cable Diameter 1/4 in [6.4mm], Wireline Line Capacity 1,968ft [600m]

AUTOMATIC SPT HAMMER

- SPT Automatic Hammer ASTM D-1586, 140 lb [63.5 kg], 30in Drop - 50BPM

ENGINE LEVELER MECHANISM

- Designed to support continuous engine operation on slopes of up to 45 degrees.

ATTENTION PLEASE



Drilling capacities are indicative and may vary depending on ground conditions, drilling methods, and tooling used. Specifications may be updated as part of our continuous product improvement.

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ROD CLAMP SYSTEM

- Double Breakout Clamps
- Clamping Range

Swing out Assembly to make room for Augers and large casings
1 1/2" (38 mm) through 5 1/2" (140mm)

MUD PUMP

- Progressive Cavity Pump
- Triplex Piston Pump

35 GPM (140LPM) - 225 PSI (16 Bar)

35 GPM (140 LPM) - 735 PSI (50 Bar)

20in Wide Track Undercarriage Assembly - 25,000lbs [12,500 kg] Max. Capacity

- Remote Control + manual Override
- Track shoe width: 500mm [19.68 in]
- Two Speed Modes / Walking Speed: 4-5km/hour
- Beacon light - Travel Mode

Standard MD600X Features

- Engine Controller Unit + Engine leveler Mechanism
- 3 x Night Lights
- 2 Mud Pumps : Progressive Cavity Pump + Piston Pump
- High Capacity Winch + Auxiliary Winch + Wireline Winch
- Double rod Clamp breakout system, 11.8 in Max Passage
- Automatic SPT Hammer 140lb
- Carrier Winch
- Toolbox
- Sliding base for Boom, 7.8in [200mm] front-back, 5.9in [150mm] Left Right from center
- Remote controlled track undercarriages
- Rod Rack 100ft [30meters] AWJ + 100ft [30 meters] NQ
- Auger Rack 50ft [15 meters] of 3-1/4in Hollowed Augers
- JD Link - John Deere
- 4 Camera CCTV System - live monitoring and recording
- Trackunit - GPS - Power Unit Parameters live monitoring and logging

Optional Features

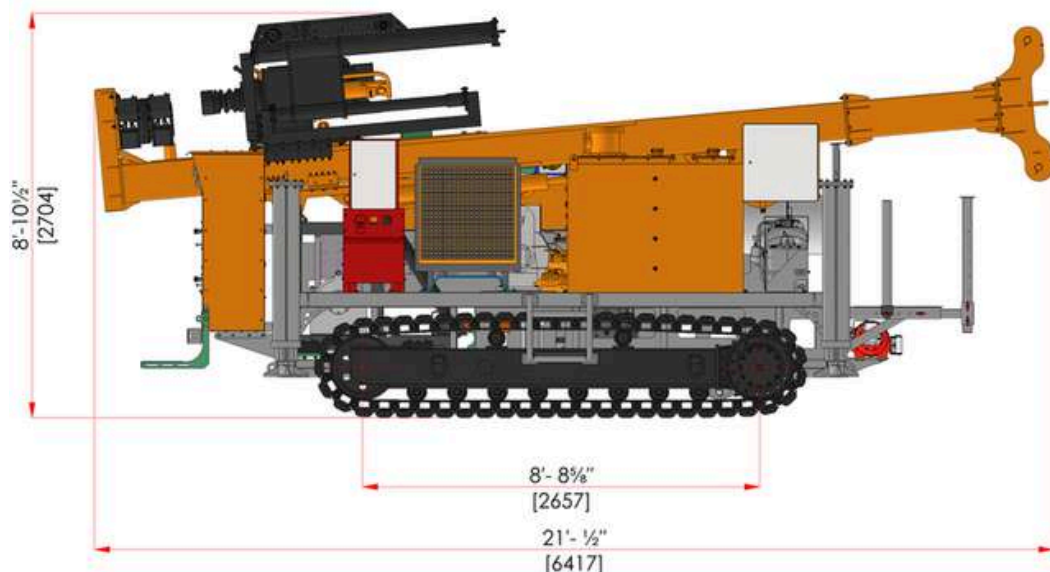
- Drilling Parameters logging, live monitoring and transmitting
- Available in Skid/Track/Truck
- Safety Cage



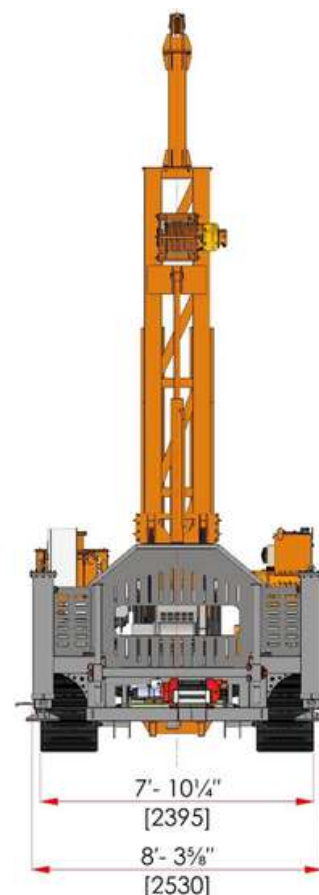
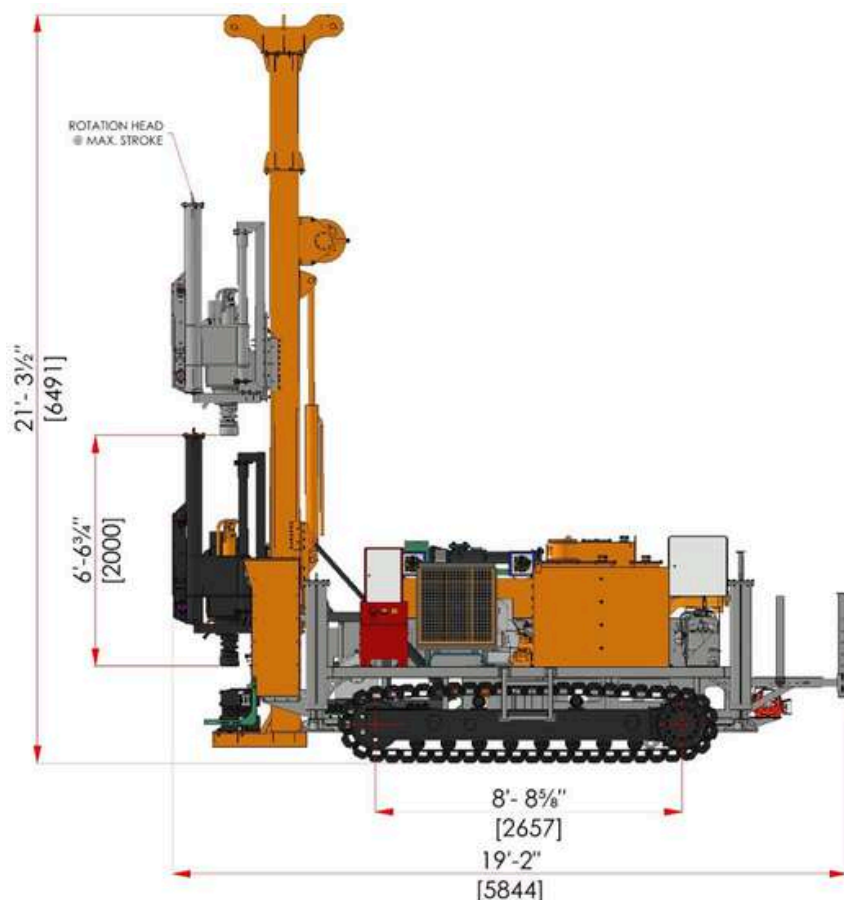
Layout

- Total Weight : 11,500 Kgs [23,000 lbs]
- Length : 21ft 3½ in [6,491 mm]
- Width : 8ft 3⅝ in [2,530 mm]
- Height : 8ft 10½ in [2704 mm]

HYDRAULIC POWER. AUGER READY.



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