MD6640 Rotary Blasthole Drill

Bailing Velocities: 15.5° C (60° F) @ Sea Level							
Diameter			Nominal Compressor Rating – m³/min (icfm)				
Но	ole	Pi	pe	84.9 (3,000)	107.6	(3,800)
cm	in	cm	in	m/min	ft/min	m/min	ft/min
25.1	9.875	17.8	7	3450	11,300	4378	14,359
27.0	10.625	19.4	7.625	3050	10,000	3879	12,724
31.1	12.25	21.9	8.625	2200	7,300	2807	9,206
31.1	12.25	23.5	9.25	2600	8,500	3293	10,800
34.9	13.75	27.3	10.75	2300	7,500	2890	9,478
38.1	15	32.4	12.75	2700	8,800	3402	11,157
38.1	15	34.0	13.375	3650	11,900	4606	15,108
40.6	16	32.4	12.75	1800	5,900	2273	7,456
40.6	16	34.0	13.375	2150	7,100	2754	9,034

Recommended Bailing Velocity Range: 1524-3658 m/min (5,000-12,000 ft/min)

Mast Components

Mast Components					
Mast					
Standard mast for drill pipe and one pipe rack	19.81 m	65 ft			
Optional mast	21.33 m	70 ft			
Computer analyzed, HD tubular lattice const	ruction with	back braces			
Raising and Lowering	(2) 228.6 mm (9 in) diameter hydraulic cylinders				
Angle Hole Drilling	25° off vertical in 5° increments*				

Hoist/Pulldown

excavator grade DC motor Bit Loading Up to Up to 141,000 lb 63 975 kg Feed Rate Up to Up to 7.62 m/min 25 ft/min **Hoist Rate** Up to Up to 22.86 m/min 75 ft/min Up to Lowering Rate Up to 22.86 m/min 75 ft/min Electronic Depth Indicator Standard Auxiliary Winch - Standard Capacity 12,000 lb 5443 kg

Chainless rack and pinion system driven by head-mounted

Pipe Racks

Single Rack 0.31 m (13.375 in) OD pipe at least 25 mm (1 in) wall thickness Standard Optional Rack Configurations and Maximum Drill Pipe Diameter 2 Pipe Racks Maximum diameter may vary

Rotary Drive

Rotary Drive - DC motor 145 kW (195 hp) @ 475V Bit Maximum Speed 125 rpm Standard Cat® Shock Coupling

Electrical

Equipment				
Static DC Variable Output				
Power Requirements				

3 Phase, 50/60 Hz, Voltage 4,160V to 7,200V**

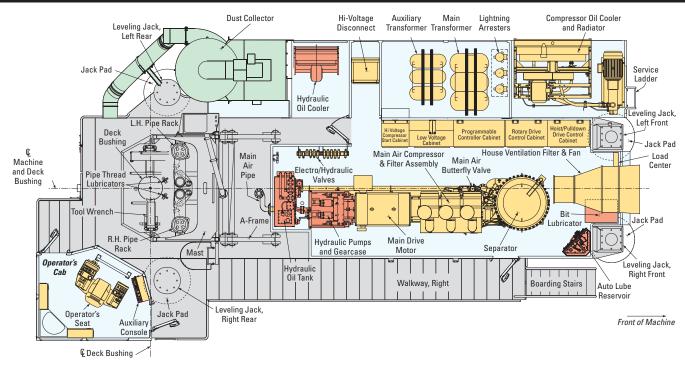
Main Electrical Systems	
Air Compressor/AC Induction Motor	
Dual Shaft – Standard	448 kW (600 hp) @ 4,160V available for 85 m³/min (3,000 ft³/min) compressor
Optional	597 kW (800 hp) available for 108 m³/min (3,800 ft³/min) compressors
Hoist/Pulldown – DC Motor	97 kW (130 hp) @ 475V
Main Hydraulic Oil Pumps	Driven from main air compressor motor
Machinery House Pressurization — @ 529 m³/min (18,700 ft³/min) with 2.2 kW (3 hp) bleed fan	15 kW (20 hp) @ 460V
Operator Cab Pressurization with Heater and Air Conditioner	Standard

Hydraulic Oil Cooler Fan 4 kW 5 hp **Drive Transformer** 3 Phase, 425 kVA dry-type 3 Phase, 250 kVA dry-type Transformer, Auxiliary Lighting 120/240V Windshield Wipers -Standard **Upper and Lower Front**

^{*}With optional angle hole equipment.

^{**}For alternate power configurations consult Caterpillar.

MD6640 Rotary Blasthole Drill



COMPONENTS

- Bit Viewing Hatch Hydraulic Operated
- Hydraulic Breakout Wrench (optional)
- Dust Collector
- Tipton Dry Dust Control (optional)
- Leveling Jack (4)
- Service Platform
- Water Injection Dust Control 3785 L (1,000 gal)
- Hydraulic Oil Cooler and Guard
- Transformers
- Compressor Oil Cooler
- Heated and Insulated Cooler Compartment (optional)
- Cable Reel (optional)
- Boarding Stairs
- Main Air Compressor Package

- Main Drive Motor
- Hydraulic Pumps and Gearcase
- Pipe Racks 1 Standard (2 optional)
- Operator's Cab
- Hydraulic Oil Reservoir
- Electro/Hydraulic Valves
- Air Compressor Motor Control Center (MCC)
 High Voltage Compressor Start Cabinet
- Low Voltage Motor Control Center (MCC) Low Voltage Cabinet
- Programmable Controller (PLC) Cabinet
- Rotary Drive Control Cabinet
- Hoist/Pulldown Drive Control Cabinet
- Auto-Lube System and Reservoir

OPTIONS

- 18.3 m (60 ft) or 21.3 m (70 ft) Masts
- Angle Hole Drilling
- Automatic Fire Suppression Systems Interface
- Cold Weather Options
- Dry Dust and Water Injection Dust Control Systems
- Dust Curtains
- Remote Propel
- Front Tow Bar/Rear Tow Hooks

- GPS Interface
- Hydraulic Breakout Wrench (controlled from operator's control console)
- Hydraulic Drive Cable Reels
- Optional 108 m³/min (3,800 ft³/min) Compressor
- Programmed Drill Control
- Quick-Fill System for Oils and Lubricants

Additional options to meet customer's needs.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

AEHQ6544-01 (12-13) Replaces AEHQ6544

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.



