

# MD6250

## Rotary Blasthole Drill Specifications

### 11.2 or 13.6 m (36.7 or 44.6 ft) Mast Configurations



#### Description

The MD6250 crawler-mounted blasthole drill is designed to drill from 152-250 mm (6-9.8 in) diameter holes. MD6250 is optimized for single-pass or multi-pass drilling, in both Rotary and DTH drilling modes.

#### Basic Specs

##### 11.2 m (36.7 ft) mast

Hole diameter range	Up to 152-250 mm	Up to 6-9.8 in
Hole depth range		
Single-pass depth	11.2 m	36.7 ft
Multi-pass depth	Down to 53.6 m	Down to 176.7 ft
Pull-down capacity	Up to 200.17 kN	Up to 45,000 lbf
Hoist capacity	Up to 200.17 kN	Up to 45,000 lbf
Hoist speed	0.81 m/sec	2.67 ft/sec
Bit load (single-pass)	Up to 22 321 kg	Up to 49,210 lb

##### 13.6 m (44.6 ft) mast

Hole diameter range	Up to 152-250 mm	Up to 6-9.8 in
Hole depth range		
Single-pass depth	13.6 m	44.6 ft
Multi-pass depth	Down to 37.9 m	Down to 124.6 ft
Pull-down capacity	Up to 289.13 kN	Up to 65,000 lbf
Hoist capacity	Up to 216.85 kN	Up to 48,750 lbf
Hoist speed	0.66 m/sec	2.16 ft/sec
Bit load (single-pass)	Up to 32 655 kg	Up to 71,993 lb

#### Basic Specs (continued)

##### U.S. EPA Tier 2 equivalent

Engine	C27 ACERT™ @ 1,800 rpm
Emissions	U.S. EPA Tier 2 equivalent
Rated horsepower	652 kW      875 hp
Elevation capability	4750 m      15,000 ft

##### U.S. EPA Tier 4 Final

Engine	C27 ACERT @ 1,800 rpm
Emissions	U.S. EPA Tier 4 Final
Rated horsepower	655 kW      879 hp
Elevation capability	3658 m      12,000 ft

Compressor, Rotary drilling      56.6 m³/min (2,000 ft³/min)  
@ 8.6 bar (125 psi)

Compressors, DTH drilling      38.2 m³/min (1,350 ft³/min)  
@ 34.4 bar (500 psi)

42.2 m³/min (1,500 ft³/min)  
@ 24.1 bar (350 psi)

Angle drilling available      30° (in 5° increments)

# MD6250 Specifications

## Engine Choices

U.S. EPA Tier 2 equivalent

Engine	C27 ACERT @ 1,800 rpm	
Emissions	U.S. EPA Tier 2 equivalent	
Rated horsepower	652 kW	875 hp

U.S. EPA Tier 4 Final

Engine	C27 ACERT @ 1,800 rpm	
Emissions	U.S. EPA Tier 4 Final	
Rated horsepower	655 kW	879 hp

- Dual starter motors
- Ether starting aid
- Scheduled oil sampling (S-O-S<sup>SM</sup>) ports
- Common air intake filters provide +500 hour service interval normal operating conditions

## Compressor Choices

DTH drilling	Includes tool lubrication system and hammer storage	
1350 cfm/500 psi	38.2 m <sup>3</sup> /min (1,350 ft <sup>3</sup> /min) @ 34.4 bar (500 psi) includes 113 L (30 gal) tool oiler	
1500 cfm/350 psi	42.2 m <sup>3</sup> /min (1,500 ft <sup>3</sup> /min) @ 24.1 bar (350 psi) includes 113 L (30 gal) tool oiler	
Rotary drilling	Optional tool lubrication system	
2000 cfm/125 psi	56.6 m <sup>3</sup> /min (2,000 ft <sup>3</sup> /min) @ 8.6 bar (125 psi)	

With the compressors variable volume control, the operator can limit air output and engine speed both resulting in reduced fuel consumption. All of these compressors contain this feature.

Compressor control box enclosure with purged air lines

## Receiver Tank Choices

- Low pressure 8.6 bar (125 psi) for ASME/CRN/AU or CE
- High pressure 24.1 or 34.4 bar (350 or 500 psi) for ASME/CRN/AU or CE

## Cooling

- Coolers with easy cleaning access
- Separate engine cooling module
- All cooler core sections are replaceable
- Functional in ambient temperature of 52° C (125° F)
- Automatic variable speed fan control

## Climate Choices

Climate Level 1 Standard fluids and lubricants

- -1° C (30° F)
- Withstands high heat to 52° C (125° F)

Climate Level 2 Arctic fluids and lubricants

- -18° C (-0.4° F)

Climate Level 4 Arctic fluids and lubricants

- -40° C (-40° F) Level 4 Arctic fluids and lubricants; -40° C (-40° F) Temps
- Engine coolant and water tank heater, battery trays and provision for fuel heating – diesel fired
- 50 Hz High Pressure (or choose Low Pressure) Compressor, Tier 4 engine
- Arctic fluids, Genset ready, heaters and blankets for tanks, extra batteries, heated water suction lines, drill pipe thread grease bucket
- Shore power connection box with switchable 240-600 volt, 50 amp waterproof connection

## Frame and Work Deck

- Jacks, mast pivot and deck are welded integrally to mainframe for maximum durability and long life
- Stationary drill deck for vertical and angle drilling
- Four leveling jacks provide leveling on a 7° bench (any orientation)
- Slip resistant surface on all decks and walkways
- Fuel tank capacity 1609 L (425 gal)
- Fuel capacity expansion for additional 1609 L (425 gal)
- Three (3) egress points on deck areas in addition to main access
- Heavy duty tow hooks (front end)
- Four (4) lift lugs, for use with cables or chains
- Walkway, with railing and toe guards, for cab perimeter to drill deck
- Fire suppression ready (includes platform on non-drill end to mount bottles, and frame around power train to mount nozzles)
- Pipe guide roller assembly mounted on drill deck for loading drill pipe

## Frame Access Choices

- Access ladder to the cab area with spring loaded self-closing gate
- Cascading, hydraulic stairs with walkway around the cab to the deck. Includes tram interlock for when the ladder is down.

## Drill Deck Misc.

- Toolbox
- Hydraulic viewing hatch on drill deck with spotlight
- Drill pipe thread greaser with remote fill tank or disposable grease bucket
- Jib crane ready (option)

## Undercarriage

Model	Cat® 336E EL Excavator type	
Ground clearance	618 mm	24 in
Carrier rollers	Three carrier rollers	
Track chain guards and guides	Level two	
Drawbar pull	417 000 N	307,563 lbf
Travel speed display	2.45 kph	1.5 mph
Triple grousers	600 mm (23.6 in); for hard rock 1.44 bar (21 psi) ground pressure	
Triple grousers	750 mm (29.5 in); for soft rock 1.17 bar (17 psi) ground pressure	

## Hydraulics

- Auxiliary circuit pump
- Two fan pumps
- Two primary pumps
- Charge pump
- Scheduled Oil Sampling (S·O·S) ports

## Mast and Pipe Carousel Features

- Pipe carousel, standard:
  - 11.2 m (36.7 ft) Mast: Accepts quantity of four (4) 10.6 m (35 ft) pipes
  - 13.6 m (44.6 ft) Mast: Accepts quantity of four (4) 6.09 m (20 ft) pipes
- Pipe carousel, dual purpose:
  - 11.2 m (36.7 ft) Mast: Accepts quantity of two (2) 10.6 m (35 ft) pipes and quantity of two (2) 7.6 m (25 ft) starter pipes (starter pipes are already included with tool group order)
  - 13.6 m (44.6 ft) Mast: Accepts quantity of two (2) 6.09 m (20 ft) pipes and quantity of two (2) 3 m (10 ft) starter pipes (starter pipes are already included with tool group order)
- Vertical or angle drilling 0-30°; in 5° increments
- Hydraulically actuated, self-indexing pipe carousel accepts various pipe diameters
- All mast configurations are designed for changing bit above deck
- Single cylinder pulldown/hoist system
- Auto tensioning of pull down and hoist cables
- Deck wrench fits flats of corresponding drill pipe diameters and DTH hammer
- Feed system accommodates multiple pipe diameters
- Base plate bushing diameters accommodate bits 152-216 mm (6.0-8.5 in)
- Hydraulic break out wrenches (HOB0) available with adjustable grip ranges
- Configured with roller deck bushing
- Pipe positioner with pipe diameter specific inserts
- Overhead winch with remote; variable speed drive with ≥ 1818 kg (4,000 lb) rating, length to reach 6 m (20 ft) past drill deck (option)
- Tool oiler, 113 L (30 gal) oil injection system
- Variable hydraulic break out wrench grip range choices are 114 mm to 152 mm (4.5 in to 6.0 in) or 152 mm to 216 mm (6.0 in to 8.5 in)
- Camera on mast is closed circuit and used to view the pipe carousel/top drive operation
- Pipe positioner for angle drilling, multi-pass pipe handling
- Rotation gear box with single motor, up to 160 rpm, up to 11 600 N·m (8,555 lbf-ft) torque
- Manual pipe catcher – One (1) wire rope hydraulically actuated pipe catcher, pipe positioner, manual bit basket or
- Hydraulic – One (1) hydraulic pipe catcher, hydraulically actuated pipe positioner, hydraulic bit basket

# MD6250 Specifications

## Mast Packages: Standard or Premium Choices

11.2 m (36.7 ft) Mast		
Single-pass depth	11.2 m	36.7 ft
Multi-pass depth	Down to 53.6 m	Down to 176.7 ft
Pulldown – rated single cylinder pull-down/hoist system	Up to 200.17 kN	Up to 45,000 lbf
Hoist	Up to 200.17 kN	Up to 45,000 lbf
13.6 m (44.6 ft) Mast		
Single-pass depth	13.6 m	44.6 ft
Multi-pass depth	Down to 37.9 m	Down to 124.6 ft
Pulldown	Up to 289.13 kN	Up to 65,000 lbf
Hoist	Up to 216.85 kN	Up to 48,750 lbf
Angle drilling	Available with any mast	

## Mast Accessories

- 11.2 m (36.7 ft) or 13.6 m (44.6 ft) Manual pipe catcher – One (1) wire rope pipe catcher, manual bit basket
- 11.2 m (36.7 ft) Mast Hydraulic – One (1) hydraulic pipe catcher, hydraulically actuated pipe positioner, hydraulic bit basket
- 13.6 m (44.6 ft) Mast Hydraulic – One (1) hydraulic pipe catcher, plus one (1) wire rope, hydraulically actuated pipe positioner, hydraulic bit basket

## Tool Package Rotary

- One-piece roller deck bushing
- Pipe positioner roller
- Deck wrench
- Cross over subs
- Pipe wiper seal
- Drill tool lubricator (optional)

## Tool Package DTH

- Two-piece bushing
- Pipe positioner inserts
- Sliding deck wrench
- Cross over adapter for hammer
- Pipe wiper seal
- Drill tool lubricator is included with selection of DTH Compressor

## Drill Pipe (Mast size dependent)

### Standard carousel pipe:

#### 6.09 m (20 ft) pipes for 13.6 m (44.6 ft) Mast – Accepts quantity of four (4)

Rotary/DTH	127 mm	5 in
Rotary	152 mm	6 in
Rotary	178 mm	7 in
Rotary	193 mm	7.625 in
DTH	139 mm	5.5 in
DTH	165 mm	6.5 in

#### 10.6 m (35 ft) pipes for 11.2 m (36.7 ft) Mast – Accepts quantity of four (4)

Rotary/DTH	127 mm	5 in
Rotary	152 mm	6 in
Rotary	178 mm	7 in
Rotary	193 mm	7.625 in
DTH	139 mm	5.5 in
DTH	165 mm	6.5 in

### Dual purpose carousel pipe:

#### 6.09 m (20 ft) pipes for 13.6 m (44.6 ft) Mast – Accepts quantity of two (2)

Quantity of two (2) 3 m (10 ft) starter pipes (included in the drill tool package)		
Rotary and DTH	140 mm	5.5 in
Rotary and DTH	168 mm	6.625 in

#### 10.6 m (35 ft) pipe for 11.2 m (36.7 ft) Mast – Accepts quantity of two (2)

Quantity of two (2) 7.6 m (25 ft) starter pipes (included in the drill tool package)		
Rotary and DTH	140 mm	5.5 in
Rotary and DTH	168 mm	6.625 in

## Overhead Winch System with remote (option)

Capacity rating	1818 kg	4,000 lb
Cable diameter	13 mm	0.5 in
Reach – past the drill deck	6.1 m	20 ft

- Variable speed drive

## Rotary Head Top Drive System

Torque, single motor	11 700 N·m	8,629 lbf-ft
Rotation speed	0-150 rpm	

- Spindle – 138 mm (5.5 in) API regular thread with splined collar, shock sub
- Rotary torque control
- Virtual rotary head travel interlocks

## Operator Environment

- Cab design:
  - Spacious FOPS cab has 3 m<sup>2</sup> (32.4 ft<sup>2</sup>) floor space with an integrated operator station
  - Cab rubber shock-mounts absorb mechanical vibration and restrict exterior noise
  - Operator station design integrates an ergonomic seat, joystick controls with full instrumentation, and dual 254 mm (10 in) color displays, high definition screen and 12 volt power port
  - Additional display screen for cc cameras; color, high-definition 254 mm (10 in)
  - Power convertor 24V to 12V
  - Radio-ready for communication and entertainment radio
  - Cab roof access system with ladder, cage and rails (optional)
  - Two swing out doors and Cat keyed locks
  - Literature holder
- Cab packages:
  - Standard configuration includes a fabric seat, removable floor mat, single pane window glass, and wiper for the driller window
  - Premium configuration includes a leather seat with heat and ventilation, dual pane window glass, a second removable guard for front window, a foot rest, wipers for the driller window plus front and rear windows
- Seating:
  - Seat swivels, locks and has two point/76 mm (3 in) seat belt, tilts (5° adjustment), lumbar support, fore/aft seat adjustment 80 mm (3.1 in)
  - Fold away trainer's seat with seat belt (option)
- Windows:
  - Large windows front, rear and right cab side; full length drill window with guard
  - Window shade (option)
  - Windshield wipers with a common washer tank
  - Manometer Pressure Gauge (option)
- Lighting:
  - LED interior lights and map light at operators seat, backlit joysticks and keypads
  - Flood lights for the drill perimeter
  - Spot lights for power group area; drill deck; mast carousel; access ladder and walkways
  - Standard lighting is 1,300 lumens flood light on perimeter, area spot lights have 1,950 lumens
  - Premium lighting is 4,200 lumens per flood light on perimeter
  - Mast clearance lights, cab mounted strobe, front mounted tram beacon
- HVAC:
  - HVAC floor vent in the foot rest area
  - Roof-mounted air conditioner/heating/pressurizing unit
  - Filter access from deck, 500 service interval
  - Defogging HVAC vents on main window
- Cameras:
  - Two (2) CC cameras (front and left side) providing 360° vision coverage from operators seat
  - Camera on the mast to view pipe carousel/top drive operation

## Operating System Controls (Standard)

- All electric controls for drilling, tramping, leveling plus auxiliary functions
- Rotary torque control
- Virtual rotary head travel stops
- Pipe positioner engaged/disengaged indicator
- Drill depth meter
- Drill performance and display system
- Pump drive gearbox temperature system
- Delayed engine shut down
- Filter indicators for hydraulic, fuel, compressor and engine
- Jack pressure sensors in display
- Data logging of machine health with warnings and fault code records with export capability
- Dust suppression control
- Mast lock indicator
- ECM proportional fan speed control system
- Tram interlock, machine stability limits
- Tram interlock, pipe in hole
- Tram interlock, mast up and locked or down and parked
- Tram interlock, jack retracted
- Tram interlock, winch parked
- Cab environment controls (AC, filter, heat, fan speeds)
- Pre wired for Terrain and Autonomous Operation

## Premium Controls

- Package 1 Controls, Drills Assist
- Auto level
- Auto mast
- Auto drill single-pass
- Auto retract

## Automation and Technology

- Autonomous ready
- Drill depth indicator
- Drill Assist (auto level, auto retract, auto mast, single-pass auto drill)
- Cat Terrain ready
- Product Link Elite – Satellite, Cellular, Dual (options)
- Wiring for third party interface

# MD6250 Specifications

## Dust Control Choices

Water injection – tank mounted below front deck	1271 L	336 gal
Self-purging for winterization		
Water flow meter, volume control, tank fill level indicator		
Water injection plus dust collector		
127 m <sup>3</sup> /min (4,500 ft <sup>3</sup> /min) dust collector; includes standard water injection		
Dust collector box with ground level access		
Self-cleaning filters, dust chute clean-out door		
High volume water injection (maximum) – tanks total capacity	2786 L	736 gal
Tank below deck – capacity (isolated for extreme cold weather)	1514 L	400 gal
Tank above deck – capacity	1271 L	336 gal

- Foam injection system
- Static dust curtains, four sides boxed enclosed
- Water pump interlock
- Dust curtain hydraulic lifters raise front and rear dust curtains (option) (recommended with dust collector)
- Tram off spray system (option)

## Safety and Security

- Fire suppression ready (includes platform only)
- Approach angle of 15 degrees facilitates loading and unloading on a lowboy
- Alloy drill deck covers, for servicing when mast is horizontal
- Seven (7) engine shut down buttons, by each drill egress/access point, in cab, in engine area, on drill deck
- Hinged window guard over the full length of the front drill window
- Three (3) egress points on deck areas in addition to main access
- Self-closing gates secure egress ladder locations
- Electric horn activated by push button in the cab
- Automatic tram alarm with yellow strobe light
- Under deck mount battery box with keyed battery disconnect/ starter lockout/remote jump start terminals
- Air hose retention device
- Slip resistant surfaces
- Tow hooks
- Lifting lugs

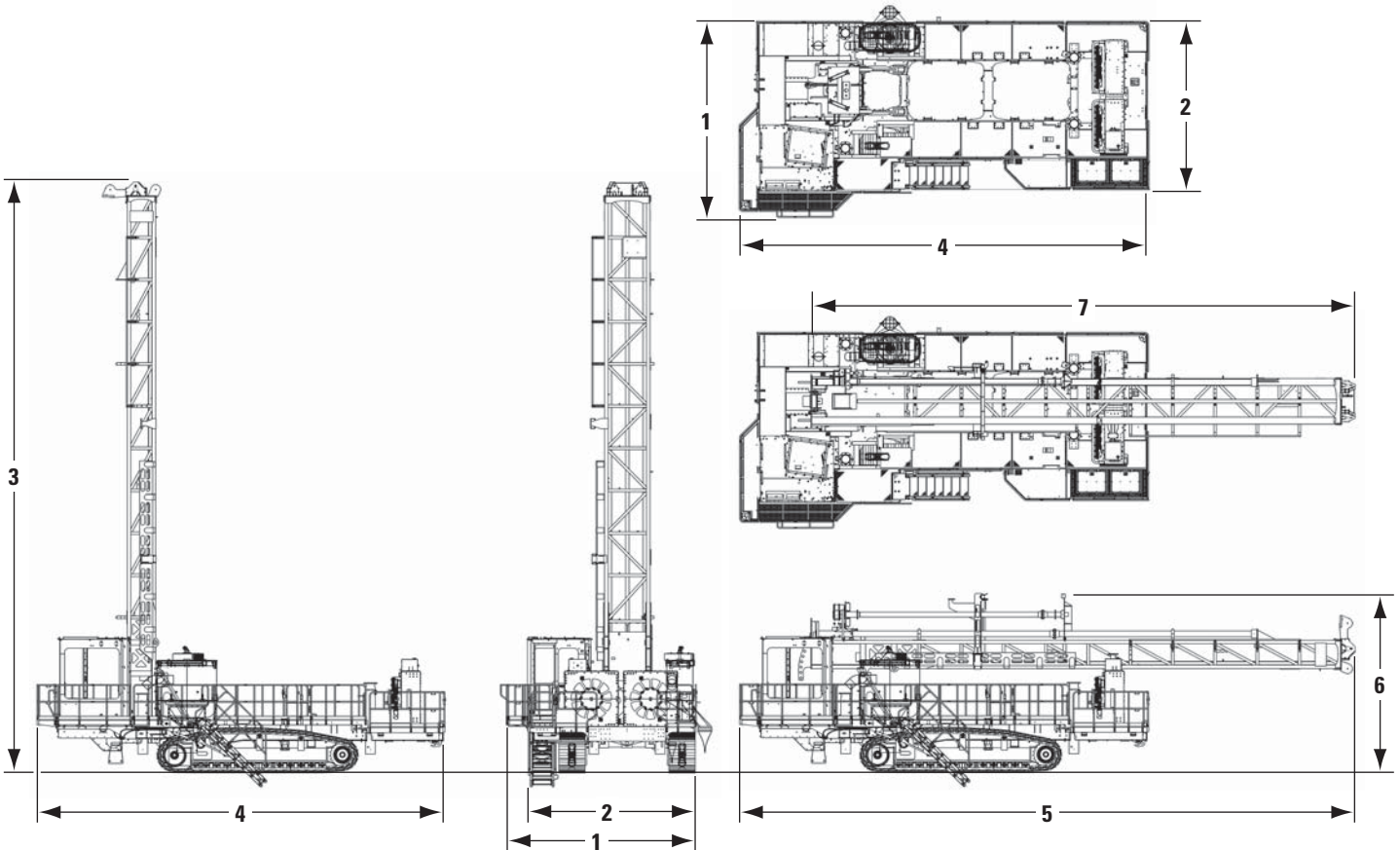
## Service Packages

- Basic – Centralized manual lubrication for all pivot points, gravity fill for fuel and water
- Standard – Fast fill for fuel and water, automated lubrication system
- Premium – Service center for lubricant drain and fill, automated lubrication system, fast fill fuel and water, blowdown hose

# MD6250 Specifications

## Dimensions

All dimensions are approximate.



	11.2 m (36.7 ft) Mast		13.6 m (44.6 ft) Mast	
1 Width front	5.624 m	18.45 ft	5.624 m	18.45 ft
2 Width rear	4.819 m	15.81 ft	4.819 m	15.81 ft
3 Height mast up	17.011 m	55.81 ft	19.460 m	63.84 ft
4 Body length	11.708 m	38.41 ft	11.708 m	38.41 ft
5 Length mast down	17.721 m	58.13 ft	20.170 m	66.17 ft
6 Height mast down	5.134 m	16.84 ft	5.134 m	16.84 ft
7 Mast only length	11.2 m	36.7 ft	13.6 m	44.6 ft

## Weights

Working weight range

56 468 kg to 64 154 kg

124,490 lb to 141,436 lb

# MD6250 Configuration Choices

## Mandatory Choices

Mandatory choices may vary. Consult your Cat dealer for details.

### ENGINE

- C27 ACERT, 652 kW (875 hp), 1,800 rpm Tier 2 equivalent
- C27 ACERT, 655 kW (879 hp), 1,800 rpm Tier 4 Final

### COMPRESSOR/RECEIVER TANK

- Rotary/Low Pressure:
  - 56.6 m<sup>3</sup>/min (2,000 ft<sup>3</sup>/min) @ 8.6 bar (125 psi); with Low Pressure Receiver Tank for ASME/CRN/AU or CE Tank; rotary tool oiler (optional)
- DTH/High Pressure:
  - 38.2 m<sup>3</sup>/min (1,350 ft<sup>3</sup>/min) @ 34.4 bar (500 psi), with High Pressure Receiver Tank (500 psi) for ASME/CRN/AU or CE Tank; hammer storage and 113 L (30 gal) tool oiler
  - 42.2 m<sup>3</sup>/min (1,500 ft<sup>3</sup>/min) @ 24.1 bar (350 psi), with High Pressure Receiver Tank (350 psi) for ASME/CRN/AU or CE Tank; hammer storage and 113 L (30 gal) tool oiler

### DRILL DECK MISCELLANEOUS

- Toolbox
- Jib crane ready
- Drill pipe thread greaser with remote fill tank or disposable grease bucket

### FRAME ACCESS

- Fixed access ladder
- Cascading, hydraulic stairs with walkway around the cab to the deck

### UNDERCARRIAGE

- 600 mm (23.6 inch) triple grousers – hard rock with rock guards
- 750 mm (29.5 inch) triple grouser – soft rock

### MAST

- 11.2 m (36.7 ft) Mast
  - Single-pass depth – 11.2 m (36.7 ft)
  - Multi-pass depth – Up to 53.6 m (176.7 ft)
  - Vertical or angle drilling package
- 13.6 m (44.6 ft) Mast
  - Single-pass depth – 13.6 m (44.6 ft)
  - Multi-pass depth – Up to 37.9 m (124.6 ft)
  - Vertical or angle drilling package

### MAST ACCESSORIES

- 11.2 (36.7 ft) or 13.6 (44.6 ft) Mast
  - Manual pipe catcher – One (1) wire rope pipe catcher, manual bit basket
- 11.2 m (36.7 ft) Mast
  - Hydraulic – One (1) hydraulic pipe catcher, hydraulically actuated pipe positioner, hydraulic bit basket
- 13.6 m (44.6 ft) Mast
  - Hydraulic – One (1) hydraulic pipe catcher, plus one (1) wire rope, hydraulically actuated pipe positioner, hydraulic bit basket

### PIPE CAROUSEL, STANDARD

- 11.2 m (36.7 ft) Mast
  - Accepts quantity of four (4) 10.6 m (35 ft) pipes
- 13.6 m (44.6 ft) Mast
  - Accepts quantity of four (4) 6.09 m (20 ft) pipes

### PIPE CAROUSEL, DUAL PURPOSE

- 11.2 m (36.7 ft) Mast: accepts a quantity of two (2) 10.6 m (35 ft) pipes and a quantity of two (2) 7.6 m (25 ft) starter pipes (starter pipe is already included with tool group order)
- 13.6 m (44.6 ft) Mast: accepts a quantity of two (2) 6.09 m (20 ft) pipes and a quantity of two (2) 3 m (10 ft) starter pipes (starter pipe is already included with tool group order)

### BREAK OUT WRENCH

- Variable grip hydraulic break out wrench grip range:
  - 114-152 mm (4.5-6.0 in)
  - 152-216 mm (6.0-8.5 in)



## Mandatory Choices *(continued)*

Mandatory choices may vary. Consult your Cat dealer for details.

### DRILL TOOL PACKAGES – 11.2 m (36.7 ft) MAST

- Rotary 127 mm (5 in) pipe diameter – One (1) piece roller deck bushing, pipe positioner roller, deck wrench, cross over subs, pipe wiper seal, drill tool lubricator
- Rotary 152 mm (6 in) pipe diameter – One (1) piece roller deck bushing, pipe positioner roller, deck wrench, cross over subs, pipe wiper seal, drill tool lubricator
- Rotary 165 mm (6.5 in) pipe diameter – One (1) piece roller deck bushing, pipe positioner roller, deck wrench, cross over subs, pipe wiper seal, drill tool lubricator
- Rotary 178 mm (7 in) pipe diameter – One (1) piece roller deck bushing, pipe positioner roller, deck wrench, cross over subs, pipe wiper seal, drill tool lubricator
- Rotary 193 mm (7.625 in) pipe diameter – One (1) piece roller deck bushing, pipe positioner roller, deck wrench, cross over subs, pipe wiper seal, drill tool lubricator
- DTH 139 mm (5.5 in) pipe diameter – Two (2) piece bushing, pipe positioner inserts, sliding deck wrench, cross over adapter for hammer, pipe wiper seal
- DTH 165 mm (6.5 in) pipe diameter – Two (2) piece bushing, pipe positioner inserts, sliding deck wrench, cross over adapter for hammer, pipe wiper seal
- Dual purpose 127 mm (5.5 in) pipe diameter – Two (2) piece bushing, pipe positioner inserts, sliding deck wrench
- Dual purpose 168 mm (6.625 in) pipe diameter – Two (2) piece bushing, pipe positioner inserts, sliding deck wrench

### DRILL TOOL PACKAGES – 13.6 m (44.6 ft) MAST

- Rotary 127 mm (5 in) pipe diameter – One (1) piece roller deck bushing, pipe positioner inserts, sliding deck wrench, cross over hammer adapter, pipe wiper seal
- Rotary 152 mm (6 in) pipe diameter – One (1) piece roller deck bushing, pipe positioner inserts, sliding deck wrench, cross over hammer adapter, pipe wiper seal
- Rotary 165 mm (6.5 in) pipe diameter – One (1) piece roller deck bushing, pipe positioner inserts, sliding deck wrench, cross over hammer adapter, pipe wiper seal
- Rotary 178 mm (7.0 in) pipe diameter – One (1) piece roller deck bushing, pipe positioner inserts, sliding deck wrench, cross over hammer adapter, pipe wiper seal
- Rotary 193 mm (7.625 in) pipe diameter – One (1) piece roller deck bushing, pipe positioner inserts, sliding deck wrench, cross over hammer adapter, pipe wiper seal
- DTH 139 mm (5.5 in) pipe diameter – Two (2) piece bushing, pipe positioner inserts, sliding deck wrench, cross over adapter for hammer, pipe wiper seal
- DTH 165 mm (6.5 in) pipe diameter – Two (2) piece bushing, pipe positioner inserts, sliding deck wrench, cross over adapter for hammer, pipe wiper seal
- DTH 178 mm (7.0) pipe diameter – Two (2) piece deck bushing, pipe positioner insert, sliding deck wrench, cross over hammer adapter, pipe wiper seal
- Dual purpose 127 mm (5.5 in) pipe diameter – Two (2) piece bushing, pipe positioner inserts, sliding deck wrench
- Dual purpose 168 mm (6.625 in) pipe diameter – Two (2) piece bushing, pipe positioner inserts, sliding deck wrench

### SUBS

- Shock absorbers with crossover sub
  - 127 mm (5 in)
  - 140 mm (5.5 in)
  - 152 mm (6 in)
  - 165 mm (6.5 in)
  - 178 mm (7.0 in)
  - 194 mm (7.625 in)
- Shock subs for Dual Purpose 13.6 m (44.6 ft) Mast
  - 140 mm (5.5 in)
  - 168 mm (6.625 in)
- Shock subs for Dual Purpose 11.2 m (36.7 ft) Mast
  - 168 mm (6.625 in)
- Top subs
  - 127 mm (5 in)
  - 152 mm (6 in)
  - 165 mm (6.5 in)
  - 178 mm (7.0 in)
  - 194 mm (7.625 in)

### OPERATOR ENVIRONMENT

- Lighting
  - Standard Light, 1,300 lumens flood light on perimeter, area spot lights have 1,950 lumens
  - Premium Light, 4,200 lumens per flood light on perimeter, area spot lights have 1,950 lumens mast clearance lights and cab mounted yellow strobe light and front mounted tram beacon
- Cab packages
  - Standard configuration includes a fabric seat, removable floor mat, single pane window glass, and wiper for the driller window
  - Premium configuration includes a leather seat with heat and ventilation, dual pane window glass, a second removable guard for front window, a foot rest, wipers for the driller window plus front and rear windows
- View hatch
- Hydraulically operated viewing hatch in drill deck with spotlight
- Decals/Films
  - ANSI
  - ISO

# MD6250 Configuration Choices

## Mandatory Choices *(continued)*

Mandatory choices may vary. Consult your Cat dealer for details.

### SERVICE PACKAGES

- Basic – Centralized manual lubrication for all pivot points, gravity fill fuel and water
- Standard – Fast fill for fuel and water, automated lubrication system
- Premium – Service center for lubricants fill, fast fill fuel and water, automated lubrication system, blowdown hose

### DUST CONTROL

- Water injection system
  - 1271 L (336 gal) mounted below front deck
- Water injection plus dry dust collector
  - 127 m<sup>3</sup>/min (4,500 cfm) dust collector
  - Water storage 1271 L (336 gal)
  - 6 L/min (1.5 gpm) consumption rate
- High volume water injection
  - Water storage 2786 L (736 gallon)
  - 1514 L (400 gal) tank mounted below deck
  - 1271 L (336 gal) mounted above deck
  - 6 L/min (1.5 gpm) consumption rate

### BATTERIES

- Four (4) Cat sealed batteries
- Six (6) Cat sealed batteries – required for cold weather level 2 and 4 and/or autonomy packages

### CLIMATE

- Climate Level 1
  - -1° C (30° F)
  - Withstands high heat to 52° C (125° F)
  - Standard fluids and lubricants
- Climate Level 2
  - -18° C (-0° F)
  - Arctic fluids
  - Requires two additional batteries
- Climate Level 4
  - -40° C (-40° F)
  - Engine coolant and water tank heater, battery trays and provision for fuel heating – diesel fired
  - 50 Hz high pressure compressor, Tier 4 engine
  - Arctic fluids, Genset ready, heaters and blankets for tanks, extra batteries, heated water suction lines, drill pipe thread grease bucket
  - Shore power connection box supports switchable 240-600 volt, 50 amp waterproof connection

### TECHNOLOGY AND AUTOMATION

- Drill depth indicator and interlocks
- Drill Assist (auto level, auto retract, auto mast, single-pass auto drill)
- Product Link Elite (see selection choices below)

## Factory Options

Options may vary. Consult your Cat dealer for details.

### FRAME

- Fuel tank expansion of +1609 L (425 gal) for total of 3218 L (850 gal) (option) required for autonomy packages
- Fire suppression ready (includes platform on non-drill end to mount bottles, and frame around power train to mount nozzles)
- Jib crane ready

### MAST

- Overhead winch with remote; variable speed drive with  $\geq 1818$  kg (4,000 lb) rating, length to reach 6 m (20 ft) past drill deck (option)
- Tool oiler, 113 L (30 gal) oil injection system for Rotary Drilling
- Thread greaser with reloadable tank for disposable grease bucket

### SERVICE TOOLS

- Bushing retention tool – 89 to 152 mm (3.5 to 6.0 in) wrench flats
- Lifting bails (available on request; required for commissioning)
- API thread 89 mm (3.5 in)
- API thread 114 mm (4.5 in)
- API thread 140 mm (5.5 in)
- BECO thread 89 mm (3.5 in)
- BECO thread 101 mm (4.0 in)
- BECO thread 114 mm (4.5 in)
- BECO thread 165 mm (6.0 in)

### OPERATOR ENVIRONMENT

- Fold up trainer's seat with seat belt
- Manometer pressure gauge
- Window guard
- Window shades
- Cab roof access system with ladder, cage and rails (only available with cascading stairs and cab walkway)
- Hole site viewing hatch with light
- Tool box in deck

### TECHNOLOGY PRODUCTS

- Product Link Elite; satellite, cellular or dual
- Terrain guidance system hardware

### DUST SUPPRESSION

- Dust curtain hydraulic lifters raise front and rear dust curtains (recommended with dust collector)
- Tram off spray system

### WORK TOOLS

- Rotary tool lubrication system

### DRILL BITS, ROTARY TRICONE

- Available with Rotary or DTH Dual Purpose only
- Obtain S/M/H codes from the Rock Formation to Bit Conversion table <https://catpublications.com> search for PEXQ1027
- Ship out plans for each drill configuration allow for one pallet of bits. Additional pallets may require an additional truck.
  - 171 mm (6.75 in), Option 1, (S2)
  - 171 mm (6.75 in), Option 2, (M1)
  - 171 mm (6.75 in), Option 3, (M3)
  - 200 mm (7.875 in), Option 1, (S2)
  - 200 mm (7.875 in), Option 2, (M1)
  - 200 mm (7.875 in), Option 3, (M3)
  - 229 mm (9.0 in), Option 1, (S3)
  - 229 mm (9.0 in), Option 2, (M2)
  - 229 mm (9.0 in), Option 3, (H1)
  - 251 mm (9.875 in), Option 1, (M1)
  - 251 mm (9.875 in), Option 2, (M3)
  - 251 mm (9.875 in), Option 3, (H1)

### DRILL PIPE

#### Standard carousel pipe:

- **6.09 m (20 ft) pipes for 13.6 m (44.6 ft) Mast – Accepts quantity of four (4)**
  - Rotary 127 mm (5 in)
  - Rotary 152 mm (6 in)
  - Rotary 178 mm (7 in)
  - Rotary 193 mm (7.625 in)
  - DTH 139 mm (5.5 in)
  - DTH 165 mm (6.5 in)
- **10.6 m (35 ft) pipes for 11.2 m (36.7 ft) Mast – Accepts quantity of four (4)**
  - Rotary 127 mm (5 in)
  - Rotary 152 mm (6 in)
  - Rotary 178 mm (7 in)
  - Rotary 193 mm (7.625 in)
  - DTH 139 mm (5.5 in)
  - DTH 165 mm (6.5 in)

#### Dual purpose carousel pipe:

- **6.09 m (20 ft) pipes for 13.6 m (44.6 ft) Mast – Accepts quantity of two (2)**
  - Quantity of two (2) 3 m (10 ft) starter pipes are included in the drill tool package
  - Rotary and DTH 140 mm (5.5 in)
  - Rotary and DTH 168 mm (6.625 in)
- **10.6 m (35 ft) pipe for 11.2 m (36.7 ft) Mast – Accepts quantity of two (2)**
  - Quantity of two (2) 7.6 m (25 ft) starter pipes are included in the drill tool package
  - Rotary and DTH 140 mm (5.5 in)
  - Rotary and DTH 168 mm (6.625 in)

# MD6250 Rotary Blasthole Drill

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