

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 in Rotary or DTH (Down the Hole) modes to single pass or multi pass depths.

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 53.9 m	Down to 176.7 ft
Pull-down capacity	Up to 20 411 kg	Up to 45,000 lb
Hoist capacity	Up to 20 411 kg	Up to 45,000 lb
Hoist speed	0.81 m/sec	2.65 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 29 483 kg	Up to 65,000 lb
Hoist capacity	Up to 22 113 kg	Up to 48,750 lb
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	
Power Rating (ISO 14396)	616 kW	826 hp

U.S. EPA Tier 4 Final

Engine	C27 ACERT @ 1,800 rpm	
Emissions	U.S. EPA Tier 4 Final	
Power Rating (ISO 14396)	650 kW	872 hp
Compressor, Rotary drilling	56.6 m ³ /min (2,000 ft ³ /min) @ 8.6 bar (125 psi)	
Compressors, DTH drilling	38.2 m ³ /min (1,350 ft ³ /min) @ 34.4 bar (500 psi)	
	42.4 m ³ /min (1,500 ft ³ /min) @ 24.1 bar (350 psi)	

Angle drilling	Vertical to 30° (in 5° increments)	
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MD6250 Specifications

Engine Choices

- Dual starter motors
- Scheduled oil sampling (S·O·SSM) ports
- Common air intake filters provide +500 hour service interval in normal operating conditions
- Ether starting aid (ether bottle supplied locally)

Compressor Choices

DTH drilling	Includes tool lubrication system and hammer storage
1350 cfm/500 psi	38.2 m ³ /min (1,350 ft ³ /min) @ 34.4 bar (500 psi) includes 113.5 L (30 gal) tool oiler
1500 cfm/350 psi	42.4 m ³ /min (1,500 ft ³ /min) @ 24.1 bar (350 psi) includes 113.5 L (30 gal) tool oiler
Rotary drilling	Optional tool lubrication system
2000 cfm/125 psi	56.6 m ³ /min (2,000 ft ³ /min) @ 8.6 bar (125 psi)

With the compressor's variable volume control, the operator can limit air output resulting in reduced fuel consumption. Both high and low pressure compressors contain this feature.

Electronic compressor control and regulation 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

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

Climate Level 2 Arctic fluids and lubricants

- Rated down to -18° C (-0.4° F)

Climate Level 4 Arctic fluids and lubricants

- Rated down to -40° C (-40° F)
- Diesel fired heating system that heats and circulates engine coolant through: engine block, below deck water tank, heating elements for battery trays, with a provision for fuel tanks.
- Full Arctic lubricant package to include: engine oil, compressor oil and hydraulic oil.
- Electric heating package with breaker panel to power: 120V heating blanket for compressor receiver tank, compressor control box, heat trace for compressor control lines, heat trace for hosing from water tank to water pump and water fast-fill assembly, plus tank.
- Shore power connection box with switchable 240-600V (50 amp) connection (diesel gen set and/or plug supplied locally). Box includes standard 50 hz battery charger, if 60 hz charger required to be ordered via after market, refer to P-n 540-4271
- Breaker panel includes five (5) additional breakers for locally supplied heating elements if needed.

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 surfaces
- 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
- Pipe guide roller assembly mounted on drill deck for loading drill pipe
- Walk-around access (with railing and toe guards) for cab perimeter to drill deck (option)
- Cab-roof access ladder with guard plus roof and safety railing for ease of access to air conditioner/pressurizer/heater (option)
- Platform to mount fire suppression bottles and/or diesel gen set on non-drill-end (option)

Frame Access Choices

- Fixed access stairs to the cab area
- Cascading hydraulic stairs with walkway around the cab to the drill deck (option). Includes jack and tram interlock activated when the stairs are down

Drill Deck Misc.

- Toolbox
- Hydraulic viewing hatch on drill deck with spotlight
- Drill pipe thread greaser actuated from the cab
- Jib crane ready (option)

Undercarriage

Model	Cat® 336E EL Excavator type	
Lower rollers	Twelve (12)	
Carrier rollers	Three (3)	
Track chain guards and guides	Level two	
Drawbar pull	417 000 N	93,745 lbf
Travel speed	2.45 kph	1.5 mph
Triple grousers	600 mm (23.6 in); for hard rock 1.10 bar (15.9 psi) ground pressure	
Triple grousers	750 mm (29.5 in); for soft rock 0.88 bar (12.7 psi) ground pressure	

Hydraulics

- Two (2) primary pumps – 145 cc (piston, with proportional electronic controls)
- One (1) auxiliary circuit pump – 110 cc (piston, load sensing)
- Two (2) fan pumps – 74 cc (piston, with proportional electronic controls)
- Two (2) charge pumps – 43.9 + 56.5 cc (double stack gear, fixed displacement)
- Scheduled Oil Sampling (S·O·S) ports

Mast and Pipe Carousel Features

- Pipe carousel, standard:
 - 11.2 m (36.7 ft) Mast: holds quantity of four (4) 10.6 m (35 ft) pipes
 - 13.6 m (44.6 ft) Mast: holds quantity of four (4) 6.1 m (20 ft) pipes
- Pipe carousel, dual purpose:
 - 11.2 m (36.7 ft) Mast: holds quantity of two (2) 10.6 m (35 ft) pipes and quantity of two (2) 7.62 m (25 ft) pipes, and adapters to connect to DTH hammer and tricone bit (DTH hammer and tricone not included)
- Vertical or angle drilling 0-30°; in 5° increments
- Hydraulically actuated, self-indexing pipe carousel accepts pipe diameters from 127 mm (5.0 in) to 194 mm (7.625 in)
- Dual purpose pipe carousel accepts 140 mm (5.5 in) or 168 mm (6.625 in) pipe – contact factory for additional pipe diameters
- Drill strings configured for bit changes (above the deck)
- Single cylinder pulldown/hoist system
- Auto tensioning of pull down and hoist cables
- Sliding deck wrench assembly
- Feed system accommodates multiple pipe diameters
- Base plate bushing diameters accommodate bits 152-216 mm (6.0-8.5 in)
- Configured with roller deck bushing
- Pipe positioner actuated from the cab
- Overhead winch with cable and hook plus remote control; variable speed drive with ≥ 1818 kg (4,000 lb) rating, length to reach 6.1 m (20 ft) past drill deck (option)
- Tool oiler, 113.5 L (30 gal) oil injection system (option for low pressure compressor configurations)
- Variable grip hydraulic break out wrench 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)
- Closed circuit camera in mast is used to view pipe carousel/top drive operation while racking pipes
- Pipe positioner for angle drilling or multi-pass pipe handling, actuated from the cab, with safety interlocks
- Rotation gear box with single motor, up to 160 rpm, up to 11 600 N·m (8,555 lbf-ft) torque
- Pipe catcher; manual or hydraulically activated operation

MD6250 Specifications

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, One (1) hydraulically actuated pipe catcher, hydraulically operated bit basket
- 13.6 m (44.6 ft) Mast, One (1) hydraulically actuated pipe catcher, plus one (1) wire rope pipe catcher, hydraulically operated bit basket

Tool Package Rotary

- One-piece roller deck bushing
- Pipe positioner rollers
- Deck wrench
- Top sub
- Bit sub
- Pipe wiper seal
- Drill tool lubricator (optional)
- Shock sub (option)

Tool Package DTH

- Two-piece roller deck bushings
- Pipe positioner rollers
- Deck wrench
- Shock sub
- Top Sub
- Hammer Sub
- Pipe wiper seal
- Drill tool lubricator is included with selection of DTH Compressor

Carousel (Mast size and pipe diameter dependent)

Standard carousel pipe:

6.1 m (20 ft) pipes for 13.6 m (44.6 ft) Mast – holds quantity of four (4)

127 mm	5.0 in
140 mm	5.5 in
152 mm	6.0 in
165 mm	6.5 in
178 mm	7.0 in
194 mm	7.625 in

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

127 mm	5.0 in
140 mm	5.5 in
152 mm	6.0 in
165 mm	6.5 in
178 mm	7.0 in
194 mm	7.625 in

Dual purpose carousel pipe:

11.2 m (36.7 ft) Mast: holds quantity of two (2) 10.6 m (35 ft) pipes and quantity of two (2) 7.62 m (25 ft) pipes, and adaptors to connect to DTH hammer and tricone bit (DTH hammer and tricone not included)

Dual purpose pipe carousel accepts 140 mm (5.5 in) or 168 mm (6.625 in) pipe – contact factory for additional pipe diameters

Overhead Winch System with remote (option)

Capacity rating	1814 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	0-160 rpm	

- Spindle – 140 mm (5.5 in) API regular thread with splined collar
- Rotary torque control
- Virtual rotary head travel interlocks

Operator Environment

- Cab design:
 - Spacious FOPS cab has 3 m² (32.3 ft²) 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 touchscreen 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 stereo
 - 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, single pane window glass, and wiper for the driller window
 - Premium configuration includes additional storage, a leather seat with heat and ventilation, heavy duty suspension, dual pane window glass, a removable guard for front window, wipers for the driller window plus front and rear windows
- Seating:
 - Seat swivels, locks and retractable, two-point/76 mm (3 in) wide 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 shades (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 package includes 4,200 lumens flood light on perimeter, mast clearance lights, cab mounted strobe, front mounted tram beacon (option)
- HVAC:
 - Floor heating vent
 - Roof-mounted air conditioner/heating/pressurizing unit
 - Filter access from deck, 500 service interval
 - Defogging HVAC vents on main window
- Cameras:
 - Three (3) 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, tramming, leveling plus auxiliary functions
- Rotary torque control
- Virtual rotary head travel stops
- Pipe positioner engaged/disengaged indicator, with interlock
- Drill depth meter
- Drill performance and display 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

- Drill Assist automated functionality:
 - Auto level, auto jack retract (standard)
 - Auto mast raise and lock, auto mast unlock and park (standard)
 - Auto drill single pass (option)

Automation and Technology

- Drill performance indicators: feed and rotary torque pressure, head RPM, bit air pressure, target depth and drill depth, pipe counter, water injection flow rate, advance per revolution, rate of penetration
- Drill Assist (auto level, auto retract jacks, auto raise and lower mast, single-pass auto drill)
- Cat Terrain ready
- Product Link Elite
- Autonomy ready

MD6250 Specifications

Dust Control Choices

Water injection – tank mounted below front deck	1271 L	336 gal
Water flow meter, volume control, tank fill level indicator		
Water injection plus dry dust collector		
127 m ³ /min (4,500 ft ³ /min) dust collector; includes standard water injection		
Self-cleaning filters, dust chute self-cleaning filters, dust chute with ejector		
High volume water injection (maximum) – tanks total capacity	2786 L	736 gal
Tank below deck – capacity (isolated for extreme cold weather)	1271 L	336 gal
Tank above deck – capacity	1514 L	400 gal
<ul style="list-style-type: none">• Foam injection system• Static dust curtains, four sided/boxed enclosed• Dust curtain hydraulic lifters raise front and rear dust curtains (option) (recommended with dust collector)• Tram off spray to wet the ground around the cuttings pile (option)		

Safety and Security

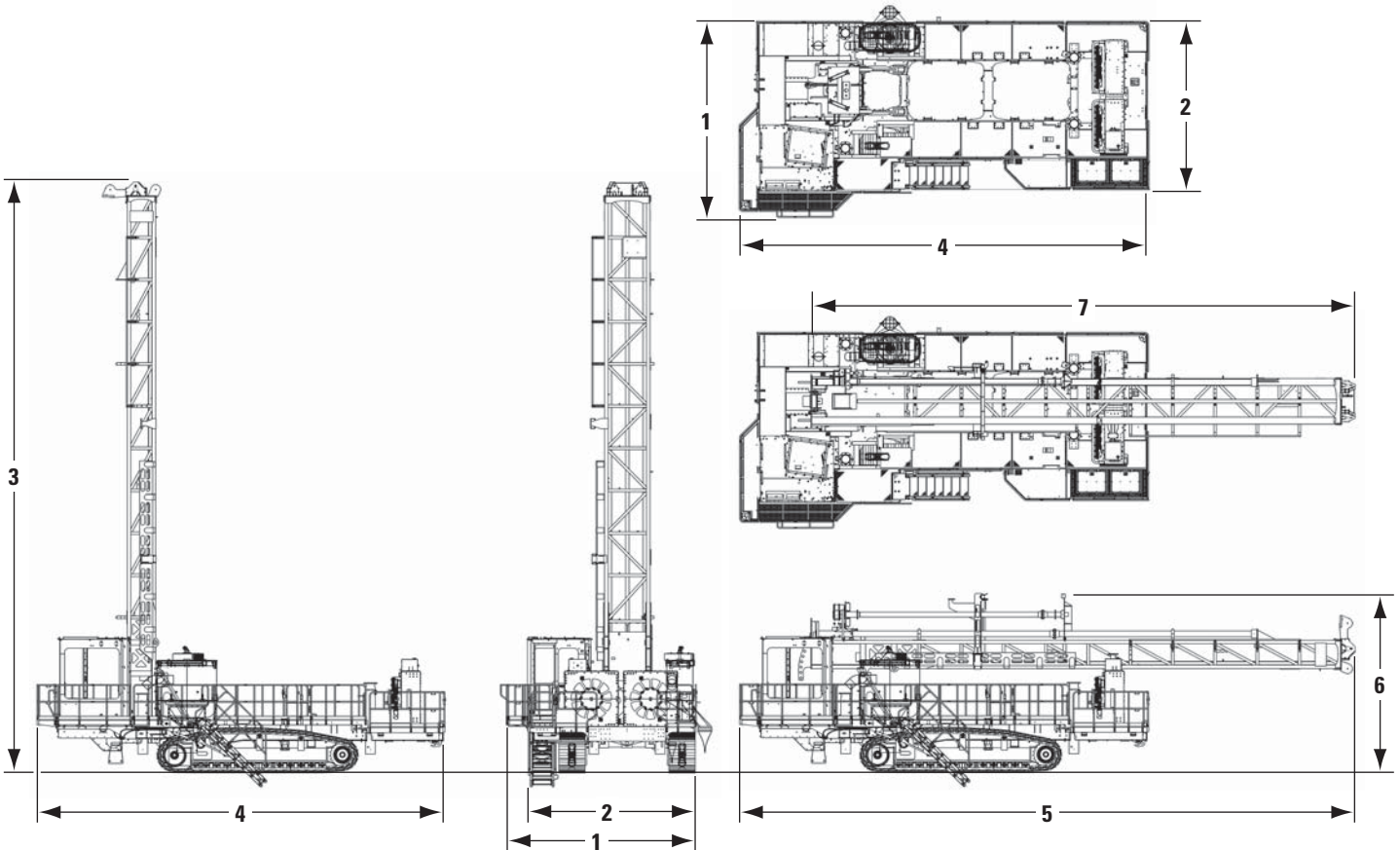
- Platform on non-drill-end for mounting fire suppression bottles and/or diesel gen set (option)
- Approach angle of 15 degrees facilitates loading and unloading on a lowboy
- Alloy drill deck covers, for servicing when mast is horizontal
- Seven (7) engine shut down buttons, by each drill egress/access point, in cab, in engine area, on drill deck
- Over forty (40) conditional safety interlocks
- 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
- Under deck mounted battery box with keyed battery disconnect/starter disconnect/remote jump start terminals
- Compressor air hoses with safety retention cables
- Slip resistant surfaces
- Tow hooks on non-drill-end
- Lifting lugs
- Front window guard (option)

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 (option)
- Service center for lubricant drain and fill, automated lubrication system, fast fill fuel and water, blow down hose (option)

Dimensions

All dimensions are approximate.



	11.2 m (36.7 ft) Mast		13.6 m (44.6 ft) Mast	
1 Width cab end	5.624 m	18.45 ft	5.624 m	18.45 ft
2 Width non-cab end	4.845 m	15.9 ft	4.845 m	15.9 ft
3 Height mast up	17.146 m	56.3 ft	19.546 m	61.13 ft
4 Body length	11.708 m	38.41 ft	11.708 m	38.41 ft
5 Length mast down	17.78 m	58.3 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	16.32 m	53.5 ft	18.72 m	61.4 ft

Note: Width and length dimensions include: cascading stairs and walk-around access for cab.

Weights

Working weight range	56 468 kg to 64 154 kg	124,490 lb to 141,436 lb
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MD6250 Configuration Choices

Mandatory Choices

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

ENGINE

- C27 ACERT, 1,800 rpm Tier 2 equivalent
- C27 ACERT, 1,800 rpm Tier 4 Final

COMPRESSOR/RECEIVER TANK

- Rotary/Single Stage, Low Pressure:
 - 56.6 m³/min (2,000 ft³/min) @ 8.6 bar (125 psi); with Low Pressure Receiver Tank for ASME/CRN/AU or CE Tank; rotary tool oiler (optional)
- DTH/Two Stage, High Pressure:
 - 38.2 m³/min (1,350 ft³/min) @ 34.4 bar (500 psi), with High Pressure Receiver Tank (500 psi) for ASME/CRN/AU or CE Tank; hammer storage and 113.5 L (30 gal) tool oiler
 - 42.4 m³/min (1,500 ft³/min) @ 24.1 bar (350 psi), with High Pressure Receiver Tank (350 psi) for ASME/CRN/AU or CE Tank; hammer storage and 113.5 L (30 gal) tool oiler

FRAME ACCESS

- Fixed access ladder
- Cascading, hydraulic stairs with walkway around the cab to the deck (required for cab roof access system)

UNDERCARRIAGE

- 600 mm (23.6 inch) triple grousers – hard rock
- 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 operated bit basket
- 13.6 m (44.6 ft) Mast
 - Hydraulic – One (1) hydraulic pipe catcher, plus one (1) wire rope, hydraulically operated bit basket

PIPE CAROUSEL, STANDARD

- 11.2 m (36.7 ft) Mast
 - holds quantity of four (4) 10.6 m (35 ft) pipes
- 13.6 m (44.6 ft) Mast
 - holds quantity of four (4) 6.1 m (20 ft) pipes

PIPE CAROUSEL, DUAL PURPOSE

- 11.2 m (36.7 ft) Mast: holds a quantity of two (2) 10.6 m (35 ft) pipes and a quantity of two (2) 7.62 m (25 ft) pipes with adaptors to connect to DTH Hammer and Tricone Bit (DTH Hammer and Tricone Bit not included)

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 – Roller deck bushing, pipe positioner roller, deck wrench, cross over subs, pipe wiper seal (select top sub arrangement in next section)
- Rotary 152 mm (6 in) pipe diameter – Roller deck bushing, pipe positioner roller, deck wrench, cross over subs, pipe wiper seal (select top sub arrangement in next section)
- Rotary 165 mm (6.5 in) pipe diameter – Roller deck bushing, pipe positioner roller, deck wrench, cross over subs, pipe wiper seal (select top sub arrangement in next section)
- Rotary 178 mm (7.0 in) pipe diameter – Roller deck bushing, pipe positioner roller, deck wrench, cross over subs, pipe wiper seal (select top sub arrangement in next section)
- Rotary 194 mm (7.625 in) pipe diameter – Roller deck bushing, pipe positioner roller, deck wrench, cross over subs, pipe wiper seal (select top sub arrangement in next section)
- DTH 140 mm (5.5 in) pipe diameter – Two (2) piece bushing, pipe positioner roller, deck wrench, cross over adapter for hammer, pipe wiper seal (select top sub arrangement in next section)
- DTH 165 mm (6.5 in) pipe diameter – Two (2) piece bushing, pipe positioner roller, deck wrench, cross over adapter for hammer, pipe wiper seal (select top sub arrangement in next section)
- Dual purpose 140 mm (5.5 in) pipe diameter – Two (2) piece bushing, pipe positioner roller, deck wrench and dual purpose carousel
- Dual purpose 168 mm (6.625 in) pipe diameter – Two (2) piece bushing, pipe positioner roller, deck wrench and dual purpose carousel

DRILL TOOL PACKAGES – 13.6 m (44.6 ft) MAST

- Rotary 127 mm (5.0 in) pipe diameter – Roller deck bushing, pipe positioner roller, deck wrench, cross over sub, pipe wiper seal (select top sub arrangement in next section)
- Rotary 152 mm (6.0 in) pipe diameter – Roller deck bushing, pipe positioner roller, deck wrench, cross over sub, pipe wiper seal (select top sub arrangement in next section)
- Rotary 165 mm (6.5 in) pipe diameter – Roller deck bushing, pipe positioner roller, deck wrench, cross over sub, pipe wiper seal (select top sub arrangement in next section)
- Rotary 178 mm (7.0 in) pipe diameter – Roller deck bushing, pipe positioner roller, deck wrench, cross over sub, pipe wiper seal (select top sub arrangement in next section)
- Rotary 194 mm (7.625 in) pipe diameter – Roller deck bushing, pipe positioner roller, deck wrench, cross sub, pipe wiper seal (select top sub arrangement in next section)
- DTH 140 mm (5.5 in) pipe diameter – Two (2) piece bushing, pipe positioner roller, deck wrench, cross over adapter for hammer, pipe wiper seal (select top sub arrangement in next section)
- DTH 165 mm (6.5 in) pipe diameter – Two (2) piece bushing, pipe positioner roller, deck wrench, cross over adapter for hammer, pipe wiper seal (select top sub arrangement in next section)
- DTH 178 mm (7.0 in) pipe diameter – Two (2) piece deck bushing, pipe positioner roller, deck wrench, cross over hammer adapter, pipe wiper seal (select top sub arrangement in next section)

SUBS

- Shock absorber with crossover adapter
 - 127 mm (5.0 in)
 - 140 mm (5.5 in)
 - 152 mm (6.0 in)
 - 165 mm (6.5 in)
 - 178 mm (7.0 in)
 - 194 mm (7.625 in)
- Shock subs with long top sub adaptor for Dual Purpose 11.2 m (36.7 ft) Mast
 - 140 mm (5.5 in)
 - 168 mm (6.625 in)
- Top subs (Rotary package only)
 - 127 mm (5.0 in)
 - 152 mm (6.0 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, single pane window glass, and wiper for the driller window
 - Premium configuration includes additional storage, a leather seat with heat and ventilation, heavy duty suspension, dual pane window glass, a removable guard for front window, wipers for the driller window plus front and rear windows
- 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, and blowdown hose

DUST CONTROL

- Water injection system
 - 1271 L (336 gal) mounted below front deck
- Water injection plus dry dust collector
 - 127 m³/min (4,500 cfm) dust collector
 - Water storage 1271 L (336 gal)
- High volume water injection
 - Water storage 2786 L (736 gallon)
 - 1271 L (336 gal) tank mounted below deck
 - 1514 L (400 gal) mounted above deck

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
 - Rated down to –1° C (30° F)
 - Withstands high heat to 52° C (125° F)
 - Standard fluids and lubricants
- Climate Level 2
 - Rated down to –18° C (–0° F)
 - Arctic fluids and lubricants
- Climate Level 4
 - Arctic fluids and lubricants
 - Diesel fired heating system
 - Electric powered heating system

TECHNOLOGY AND AUTOMATION

- Drilling parameters and interlocks
- Drill Assist (auto level, auto retract jacks, auto raise and lower 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) (Required for autonomy packages)
- Platform on non-drill-end to mount fire suppression bottles and/or diesel gen set
- Jib crane ready (Jib crane not included)

MAST

- Overhead winch assembly with cable and hook, plus with remote control; variable speed drive with ≥ 1814 kg (4,000 lb) rating, length to reach 6.1 m (20 ft) past drill deck
- Tool lubrication system for Rotary Drilling with 113.5 L (30 gal) capacity
- Pipe thread greaser with reloadable tank for disposable grease bucket

SERVICE TOOLS

- Bushing retention tool – 102-194 mm (4.0-7.625 in)
- Work Tools
 - 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 102 mm (4.0 in)
 - BECO thread 114 mm (4.5 in)
 - BECO thread 152 mm (6.0 in)

DRILL DECK MISC.

- Tool box in deck
- Hydraulic viewing hatch with spotlight

OPERATOR ENVIRONMENT

- Fold up trainer's seat with seat belt
- Cabin pressure manometer gauge
- Window shades
- Cab roof access system with ladder, cage and rails (only available with cascading stairs and cab walkway)

TECHNOLOGY PRODUCTS

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

DUST SUPPRESSION

- Dust curtains, four sides boxed in, with hydraulic lifters to raise front and rear dust curtains (recommended with dust collector)
- Tram off spray system

DRILL BITS, ROTARY TRICONE

- Recommended for Rotary Applications
- All bits have standard nozzles
- 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:

- **10.6 m (35 ft) pipes for 11.2 m (36.7 ft) Mast – Accepts quantity of four (4)**
 - 127 mm (5.0 in)
 - 140 mm (5.5 in)
 - 152 mm (6.0 in)
 - 165 mm (6.5 in)
 - 178 mm (7.0 in)
 - 194 mm (7.625 in)
- **6.1 m (20 ft) pipes for 13.6 m (44.6 ft) Mast – Accepts quantity of four (4)**
 - 127 mm (5.0 in)
 - 140 mm (5.5 in)
 - 152 mm (6.0 in)
 - 165 mm (6.5 in)
 - 178 mm (7.0 in)
 - 194 mm (7.625 in)
- **10.6 m (35 ft) pipe for 11.2 m (36.7 ft) Mast – Accepts quantity of two (2)**
 - Quantity of two (2) 7.62 m (25 ft) pipes with adaptors to connect to DTH hammer or tricone bit (hammer and tricone bit not included)
 - 140 mm (5.5 in)
 - 168 mm (6.625 in)

*Contact factory for additional pipe diameters

MD6250 Rotary Blasthole Drill

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AEHQ7996-06 (04-2019)
Replaces AEHQ7996-05

