MD6310 Rotary Blasthole Drill 13.7 m or 17.5 m (44.9 ft or 57.4 ft) Mast Configuration



Description

The MD6310 crawler-mounted blasthole drill is designed to drill from 203 mm to 311 mm (8 in to 12.25 in) diameter holes in Rotary or DTH (Down The Hole) modes to single pass or multi pass depths.

Basic Specs

13.7 m (44.9 ft) Mast			
Hole diameter range	203-311 mm	8-12.25 in	
Single pass depth	13.7 m	44.9 ft	
Multi pass depth	Down to 74.6 m	Down to 244.9 ft	
Pull-down capacity	Up to 29 484 kg	Up to 65,000 lb	
Hoist capacity	Up to 29 484 kg	Up to 65,000 lb	
Hoist speed	44.76 m/min	146.8 ft/min	
Bit load (single pass)	Up to 31 640 kg	Up to 69,755 lb	
17.5 m (57.4 ft) Mast			
Hole diameter range	203-311 mm	8-12.25 in	
Single pass depth	17.5 m	57.4 ft	
Multi pass depth	Down to 47.9 m	Down to 157.4 ft	
Pull-down capacity	Up to 39 009 kg	Up to 86,000 lb	
Hoist capacity	Up to 39 009 kg	Up to 86,000 lb	
Hoist speed	37.4 m/min	122.7 ft/min	
Bit load (single pass)	Up to 42 149 kg	Up to 92,922 lb	

Basic Specs (continued)

Emissions: U.S. EPA Tier 4 Fina	ıl	
Engine	C32 @ 1,800 rpm	
Rated horsepower SAE J1995	760 kW	1,018 hp
Emissions: Equivalent to Tier 2		
Engine	C32 @ 1,800 rpm	
Rated horsepower SAE J1995	770 kW	1,032 hp
Compressor		
Rotary drilling	56.6 m³/min (2,000 ft³/min)	
	@ 8.6 bar (125 p	DS1)
Rotary drilling	73.6 m³/min (2,600 ft³/min) @ 7.6 bar (110 psi)	
DTH drilling	42.2 m ³ /min (1,500 ft ³ /min)	
	@ 34.4 bar (500 psi)	
Angle drilling	Vertical to 30° (in 5° increments)	



MD6310 Specifications

Engine Choices

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

Compressor/Receiver Choices

DTH drilling

• 42.2 m³/min (1,500 ft³/min) @ 34.4 bar (500 psi)

Rotary drilling

- 56.6 m³/min (2,000 ft³/min) @ 8.6 bar (125 psi)
- 73.6 m³/min (2,600 ft³/min) @ 7.6 bar (110 psi)
- With the compressors variable volume control, the operator can limit air output and engine speed both 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/CR N/AU or CE
- High pressure 34.4 bar (500 psi) for ASME/CR N/AU or CE

Cooling

- Coolers with easy cleaning access
- Separate engine cooling module
- Replaceable cooler core sections
- 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) temperatures
- Withstands high heat to 52° C (125° F)
- Climate Level 2 Arctic fluids and lubricants
- Rated down to -18° C (-0.4° F) temperatures
- Extra batteries

Climate Level 4 Arctic fluids and lubricants

- -40° C (-40° F) temperatures
- Engine coolant and water tank heater, battery trays and provision for fuel heating diesel fired
- 50 Hz, High or Low Pressure Compressor, Tier 4 Final 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
- Note: Standard battery charger in breaker box @ 50 Hz, if customer using 60 Hz Genset – DPO 60 Hz charger available (50 or 60 Hz input ok for all other circuits/heating pads)

Frame and Work Deck

- Jacks, mast pivot and deck are welded integrally to mainframe for maximum durability and long life
- Stationary rear deck; for vertical and angle drilling
- Four leveling jacks to provide leveling on a 7° bench (any orientation)
- Slip resistant surface on all decks and walkways
- Fuel tank capacity 1609 L (425 gal)
- Fuel tank expansion of +1609 L (425 gal) for total of 3218 L (850 gal)
- Manual, centralized, lubrication banks for all pivot points on drills, or automated lubrication system (option)
- Heavy duty tow hooks (front end)
- Lift lugs, quantity four, for use with cables or chains
- Bolt-on platform for cold weather generator or fire suppression bottles (option)
- Jib crane ready (option)
- Three egress points on deck areas in addition to main access
- Walkway around cab to drill deck (option)
- Bit storage box in-deck with hinged cover (option)
- DTH Hammer storage on drill deck with high pressure configuration (option)
- Hydraulically operated viewing hatch in drill deck with spotlight (option)
- Drill pipe thread greaser with remote fill tank or disposable grease bucket
- Sturdy guardrails, toe guards, self closing gates

Frame Access Choices

- Fixed access ladder to the cab area with spring loaded selfclosing gate
- Cascading, hydraulic self-leveling access stairs to cab area.
- Includes tram interlock for when the ladder is down. (option) • Cab perimeter walkway available with either choice

Undercarriage

Cat [®] 349E EL Excavator type		
490 mm	19.3 in	
13 lower rollers		
3 carrier rollers		
Level two		
560,000 N	125,893 lbf	
2.45 kph	1.5 mph	
600 mm	23.6 in	
750 mm	29.5 in	
	490 mm 13 lower rollers 3 carrier rollers Level two 560,000 N 2.45 kph 600 mm	

Hydraulics

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

Mast

Hydraulic, indexing pipe carousels accept various pipe diameters

Configuration choices include single pass, multi pass, vertical out to 30 degree angle drilling

- 13.7 m (44.9 ft) or 17.5 m (57.4 ft) Mast configurations complete with pipe rack carousel
- Pulldown/hoist system is a single cylinder
- Auto tensioning of pull down and hoist cables
- Feed system accommodates multiple pipe diameters
- Base plate bushing diameters accommodate bits 203 mm (8.00 in) to 311 mm (12.25 in)
- Variable grip hydraulic break out wrench (HOBO) for range of pipe diameters
- Sliding deck wrench assembly fits both drill pipe and DTH hammer flats
- Configured with roller deck bushing for tricone applications, two-piece deck bushing for DTH
- Angle drilling 0-30°; in 5° increments
- Drill pipe positioner
- Thread greaser (actuated from the cab)
- Overhead winch with remote; variable speed drive with ≥ 1818 kg (4,000 lb) rating, length to reach 6.1 m (20 ft) past drill deck (option)
- Mast lanyard mounting provisions (option)
- Rotation Gear Box with dual motor arrangement, up to 160 rpm, and 16,000 N·m of torque (11,800 ft-lb)
- Pipe catcher; manual or optional hydraulically actuated
- Tool oiler 113 L (30 gal) oil injection system (Rotary drilling only)
- Mast access ladder and grating (option)

MD6310 Specifications

Mast Packages

Mast accessories manual	One wire rope pipe catcher, hydraulically actuated pipe positioner, manual bit basket
Mast accessories hydraulic	One hydraulic pipe catcher, hydraulically actuated pipe positioner, hydraulic bit basket
Mast accessories manual	Two wire rope (17.5 m/57.4 ft) pipe catchers, hydraulically actuated pipe positioner, manual bit basket
Mast accessories hydraulic	One hydraulic pipe catcher, plus one wire rope, hydraulically actuated pipe positioner, hydraulic bit basket
Angle drilling	Available with either mast

Carousel (Mast size and pipe diameter dependent)

13.7 m (44.9 ft) Mast Carousel; holds quantity of 4×12.19 m (40 ft) pipes; total depth 62.5 m (204.9 ft)

Pipe diameters	178 mm	7 in		
	193 mm	7.625 in		
	203 mm	8 in		
	219 mm	8.625 in		
13.7 m (44.9 ft) Mast Carou	sel; holds quantity	of 5 × 12.19 m		
(40 ft) pipes; total depth 74.	6 m (244.9 ft)			
Pipe diameters	193 mm	7.625 in		
	219 mm	8.625 in		
17.5 m (57.4 ft) Mast Carous	sel; holds quantity	of 4 × 7.6 m (25 ft)		
pipes; total depth 48 m (157	7.5 ft)			
Pipe diameters	178 mm	7 in		
	193 mm	7.625 in		
	203 mm	8 in		
	219 mm	8.625 in		
17.5 m (57.4 ft) Mast Carousel; holds quantity of 2×7.6 m (25 ft)				
pipes; total depth 32.7 m (107.4 ft)				
Pipe diameter	235 mm	9.25 in		

Hydraulic Break Out Wrench

Variable grip hydraulic break out wrench grip ranges

- 178-219 mm (7.0-8.625 in)
- 235 mm (9.25 in)

Drill Pipe

12.1 m (40 ft) pipes – pipe rack carousel holds a quantity of four or five pipes	13.7 m (44.9	ft) Mast
DTH	178 mm	7 in
Rotary or DTH	193 mm	7.625 in
Rotary	203 mm	8 in
Rotary	219 mm	8.625 in
7.62 m (25 ft) pipes – pipe rack carousel holds a quantity of four or five pipes	17.5 m (57.4	ft) Mast
DTH	178 mm	7 in
Rotary or DTH	193 mm	7.625 in
Rotary	203 mm	8 in
Rotary	219 mm	8.625 in
7.62 m (25 ft) pipes – pipe rack carousel holds a quantity of four or five pipes	17.5 m (57.4	ft) Mast
Rotary	235 mm	9.25 in
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Tool Package Rotary

- Roller deck bushing
- Pipe positioner inserts
- Deck wrench, sliding
- Top Sub, or Shock sub and cross over adapter (option)
- Bit sub
- Pipe wiper seal

Tool Package DTH

- Two piece bushing
- Pipe positioner inserts
- Deck wrench, sliding
- Shock sub and top sub adapter
- Cross over hammer adapter
- Pipe wiper seal

Overhead Winch System (optional)

Capacity rating	1814 kg	4,000 lb
Cable diameter	13 mm	0.5 in
Winch reach – past the drill deck	6.1 m	20 ft

• Variable speed control

Rotary Head Top Drive System

- Spindle with 168 mm (6.625 in) API regular thread with splined collar
- Rotation gear box with motor arrangement, up to 160 rpm, and 16 000 N·m (11,800 lbf-ft) of torque
- Rotary torque control
- Virtual rotary head travel stops and interlocks

- Delayed engine shut down

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- · Pre-wired for Terrain and autonomous operation
- records; export capability

Operator Environment

- · Cab, Standard
- -Fabric seat
- -Single pane window glass
- -Windshield wiper for driller window
- -Window shades (option)
- Foldaway trainer's seat (option)
- -Removable floor mat
- · Cab, Premium
- Leather seat with heat and ventilation
- -Dual pane window glass
- Front window guard
- -Foot rest
- -Additional in-cab storage box
- -Additional windshield wipers on front and rear windows
- -Window shades (option)
- Foldaway trainer's seat (option)
- -Removable floor mat
- Spacious FOPS cab has 3 m² (32.4 ft²) floor space with an integrated operator station
- Extended cab option 4.2 m² (45.2 ft²); prewired for refrigerator and space for a microwave
- Cab perimeter walkway available for both cab sizes
- Drill performance touchscreen display
- Cab rubber shock-mounts absorb mechanical vibration and restrict exterior noise
- Two swing out hinged doors with windows and Cat keyed locks
- Operator station design integrates an ergonomic seat, armchair joystick controls with full instrumentation, and two 254 mm (10 in) color, 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
- Pipe positioner indicator engaged/disengaged
- Radio-ready for communication and entertainment radio
- Cab roof access ladder (option)
- Independent circuit breakers
- Literature holder
- 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)
- Trainer's seat that folds away and has retractable seat belt (optional)
- Lighting:
- -LED interior lights; separate reading light, and backlit joysticks and keypads
- -Zone controls for area light and spot lighting for night drilling
- -Flood lights for the drill perimeter
- -Spot lights for power group area; drill deck; mast carousel; access ladder and walkways
- -Standard lighting is Halogen, 1,300 lumens flood light on perimeter, area spot lights have 1,950 lumens
- -Premium lighting is LED, 4,200 lumens per flood light on perimeter
- -Mast clearance lights, cab mounted strobe, front mounted tram beacon (option)

- HVAC:
 - -Floor vents in the foot rest area
 - -Roof-mounted air conditioner/heating/pressurizing unit
 - -Filter access from deck, does not require roof access, and has approximately 500 hour service interval

MD6310 Specifications

- -Defogging HVAC vents on driller window
- Cameras:
 - Mounted on the front and left sides to provide 360° view from operator's 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
- Electronic compressor control
- Rotation torque control
- Virtual rotary head travel stops and interlocks
- Pipe positioner engaged/disengaged indicator
- Drill depth meter
- · Drill performance and display system
- Rotary head rpm gauge (digital display in screen)
- Filter indicators for hydraulic, compressor and engine
- Jack pressure sensors in the display
- Dust suppression control
- · Mast lock indicator
- ECM controlled 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, jacks retracted
- Cab environment controls (AC, filter, heat, fan speeds)
- Cabin pressure manometer with indicator (option)
- Dust curtain lifting system auto hydraulic raise front and rear
- Zone control for area lighting and spotlighting during dark conditions
- Data logging of machine health with warnings, and fault code

MD6310 Specifications

Automation and Technology

- Drill depth indicator and interlocks
- Auto level, auto retract, auto mast
- Drill assist (single pass auto drill) (option)
- Product Link Elite (hardware from factory, subscription package via dealer)
- Autonomy ready
- Optional Command for Drilling enables each operator to manage more than one machine
- Optional Cat Terrain for Drills Mining System Interface – Production
- -Navigation
- Wiring for third party interface

Dust Suppression Choices

- Dust curtain hydraulic lifters raise front and rear dust curtains (recommended with dust collector)
- Tram off spray to wet the ground around the cuttings pile (not recommended for cold weather applications)
- Water injection (standard)
- -Water tank capacity 1514 L (400 gal)
- Water injection and dry dust collector (option)
- -Water tank capacity 1514 L (400 gal)
- $-204 \text{ m}^3/\text{min}$ (7,200 cfm) dry dust collector
- -Self-cleaning filters, dust chute with clean-out door
- High Volume Water Injection system (Not compatible with basic service package)
- Water tanks total capacity 3785 L (1,000 gal) maximum
- Primary tank above deck 1514 L (400 gal) capacity (heated for extreme cold weather)
- Secondary tank above deck 2271 L (600 gal) capacity deck
- Static dust curtains, four sides boxed in (standard)
- Hydraulic lifters for front and rear dust curtains (optional)
- Low water level indicator

Service Packages

- Basic/Manual Centralized Manual Lube; Gravity Fill for fuel and water
- Standard Fast Fill for fuel and water; Automatic Lubrication System
- Premium Service center for lubricant drain and fill (compressor oil, hydraulic oil, gearbox oil, engine oil, tool lubrication and grease), Automatic Lubrication System, Fast Fill for fuel and water, blowdown hose

Service Tool Options

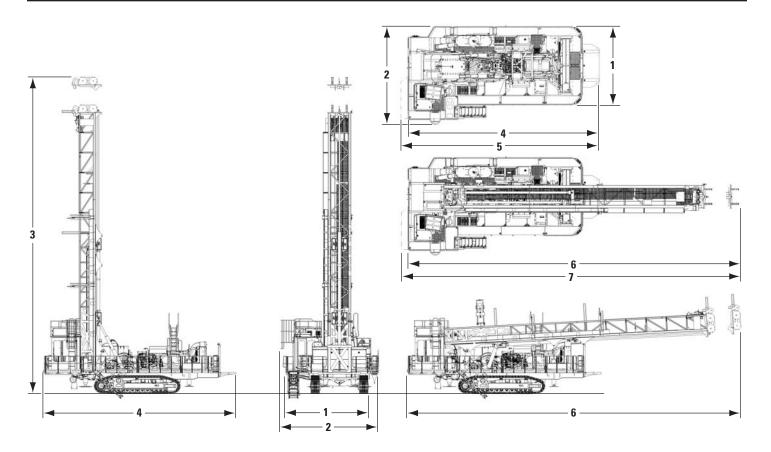
- Bushing Retention Tool 178 to 235 mm (7.000 to 9.250 in) pipe diameter
- Lifting bails (available on request; required for commissioning)
- -114 mm (4.5 in) API thread
- 140 mm (5.5 in) API thread
- 168 mm (6.625 in) for top sub/shock sub API thread
- 114 mm (4.5 in) for 178 mm (7 in) pipe BECO thread
- 152 mm (6 in) for 193 mm (7.625 in) up to 235 mm (9.25 in) pipe BECO thread

Safety and Security

- Approach angle of 14 degrees facilitates loading and unloading on a lowboy
- Alloy drill deck covers, with storage provision
- Six engine shut down buttons: one in cab, at drill deck, on deck at power train, ground accessible by main access point and each side of the drill front and left
- Electric horn activated by push button in the cab
- Tram Alarm with yellow strobe light is automatic and audible (option)
- Hinged protective guard for full front drill window
- Guards for exhaust pipes and turbo lines
- Mast access ladder with mast grating (option)
- Three egress points on deck areas in addition to main access
- Self-closing, gates secure egress ladder locations
- In-deck mount battery box
- Ground level keyed battery disconnect/starter lockout with remote jump start terminals.
- Air hose retention devices

Dimensions

All dimensions are approximate.



		13.7 m (44.9 ft) Mast		17.5 m (57.4 ft) Mast	
1	Width front	5.39 m	17.68 ft	5.39 m	17.68 ft
2	Width rear	6.32 m	20.74 ft	6.32 m	20.73 ft
3	Height mast up	19.93 m	65.39 ft	23.77 m	77.99 ft
4	Body length – standard cab	13.27 m	43.54 ft	13.27 m	43.54 ft
5	Body length – extended cab	13.79 m	42.24 ft	13.79 m	42.24 ft
6	Length mast down – standard cab	21.1 m	69.23 ft	24.9 m	81.69 ft
7	Length mast down – extended cab	21.62 m	70.87 ft	25.43 m	83.33 ft
Weights					
Worl	king weight range – minimum/maximum	75 800/97 000 kg	167,110/213,848 lb	75 500/97 500 kg	166,449/214,950 lb

Mandatory Choices

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

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 - 73.6 m³/min (2,600 ft³/min) @ 7.6 bar (110 psi) with Low Pressure Receiver Tank for ASME/CRN/AU or CE
- DTH/Two Stage, High Pressure
- 42.5 m³/min (1,500 ft³/min) @ 34.4 bar (500 psi) with High Pressure Receiver Tank for ASME/CRN/AU or CE; hammer storage and tool oiler

FRAME ACCESS

- · Fixed stairs
- · Cascading, hydraulic stairs with walkway

DRILL DECK MISCELLANEOUS

- Drill pipe thread greaser with reloadable tank that can also hold a disposable grease bucket
- Cover in place of thread greaser
- With toolbox
- Cover in place of toolbox

UNDERCARRIAGE

- 600 mm (23.6 in) triple grousers hard rock
- 750 mm (29.5 in) triple grouser soft rock

MAST

- 13.7 m (44.9 ft) single pass depth
- Vertical or Angle Drilling
- Up to 29 484 kg (65,000 lb) pull-down/hoist
- 17.5 m (57.4 ft) single pass depth
- -Vertical or Angle Drilling
- Up to 39 009 kg (86,000 lb) pull-down/hoist

MAST ACCESSORIES

- 13.7 m (44.9 ft) or 17.5 m (57.4 ft)
- Manual one wire rope (13.7 m/44.9 ft) or two wire rope (17.5 m/57.4 ft) pipe catchers, hydraulically actuated pipe positioner, manual bit basket
- 13.7 m (44.9 ft) Mast
- Hydraulic one hydraulic pipe catcher, hydraulically actuated pipe positioner, hydraulic bit basket
- 17.5 m (57.4 ft) Mast
- Hydraulic one hydraulic pipe catcher, plus one wire rope, hydraulically actuated pipe positioner, hydraulic bit basket

PIPE CAROUSEL

- 13.7 m (44.9 ft) Mast/12.19 m (40 ft) Pipe Rack
- 178 mm (7 in) pipe; four pod with retainer; total depth 62.5 m (204.9 ft)
- 193 mm (7.625 in) pipe; four pod with retainer; total depth 62.5 m (204.9 ft)
- -203 mm (8 in) pipe; four pod with retainer; total depth 62.5 m (204.9 ft)
- -219 mm (8.625 in) pipe; four pod with retainer; total depth 62.5 m (204.9 ft)
- 193 mm (7.625 in) pipe; five pod with retainer; total depth 74.6 m (244.9 ft)
- -219 mm (8.625 in) pipe; five pod with retainer; total depth 74.6 m (244.9 ft)
- 17.5 m (57.4 ft) Mast/7.62 m (25 ft) Pipe Rack
- 178 mm (7 in) pipe; four pod with retainer; total depth 48 m (157.4 ft)
- 193 mm (7.625 in) pipe; four pod with retainer; total depth 48 m (157.4 ft)
- 203 mm (8 in) pipe; four pod with retainer; total depth 48 m (157.4 ft)
- -219 mm (8.625 in) pipe; four pod with retainer; total depth 48 m (157.4 ft)
- -235 mm (9.25 in) pipe; two pod with retainer; total depth 32.7 m (107.4 ft)

BREAK OUT WRENCH

- Variable grip hydraulic break out wrench grip range of 178-219 mm (7.0-8.625 in)
- Variable grip hydraulic break out wrench for 235 mm (9.25 in)

Mandatory Choices (continued)

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

DRILL TOOL PACKAGES - 13.7 m (44.9 ft) MAST

- ROTARY DRILLING Package
- 193 mm (7.625 in) pipe diameter one piece roller deck bushing, pipe positioner inserts, sliding deck wrench, bit sub, pipe wiper seal (select top sub arrangement in next section)
- 203 mm (8 in) pipe diameter one piece roller deck bushing, pipe positioner inserts, sliding deck wrench, bit subs, pipe wiper seal (select top sub arrangement in next section)
- -219 mm (8.625 in) pipe diameter one piece roller deck bushing, pipe positioner inserts, sliding deck wrench, bit subs, pipe wiper seal (select top sub arrangement in next section)
- DTH DRILLING Package
- 178 mm (7 in) pipe diameter two piece bushing, pipe positioner inserts, sliding deck wrench, cross over adapter for hammer, pipe wiper seal (select top sub arrangement in next section)
- 193 mm (7.625 in) pipe diameter two piece bushing, pipe positioner inserts, sliding deck wrench, cross over adapter for hammer, pipe wiper seal (select top sub arrangement in next section)

DRILL TOOL PACKAGES – 17.5 m (57.4 ft) MAST

- ROTARY DRILLING Package
- 193 mm (7.625 in) pipe diameter roller deck bushing, pipe positioner inserts, sliding deck wrench, cross over hammer adapter, pipe wiper seal
- -203 mm (8 in) pipe diameter roller deck bushing, pipe positioner inserts, sliding deck wrench, cross over hammer adapter, pipe wiper seal
- -219 mm (8.625 in) pipe diameter roller deck bushing, pipe positioner inserts, sliding deck wrench, cross over hammer adapter, pipe wiper seal
- 235 mm (9.25 in) pipe diameter roller deck bushing, pipe positioner inserts, sliding deck wrench, bit sub, pipe wiper seal
- DTH DRILLING Package
- 178 mm (7.0 in) pipe diameter two piece bushing, pipe positioner inserts, sliding deck wrench, cross over adapter for hammer, pipe wiper seal, (select top sub arrangement in next section)
- 193 mm (7.625 in) pipe diameter two piece bushing, pipe positioner inserts, sliding deck wrench, cross over adapter for hammer, pipe wiper seal, (select top sub arrangement in next section)

SUBS

- Shock Absorbers with crossover sub (required with DTH package, optional with Rotary package)
- –178 mm (7 in)
- -193 mm (7.625 in)
- -203 mm (8 in)
- -219 mm (8.625 in)
- -235 mm (9.25 in)
- Top Subs (Rotary package only)
- -193 mm (7.625 in)
- -203 mm (8 in)
- -219 mm (8.625 in)
- -235 mm (9.25 in)

OPERATOR ENVIRONMENT

• Cab, Standard

- Fabric seat

- Single pane window glass
- -Windshield wiper for driller window
- -Removable floor mat
- Cab, Premium
- Leather seat with heat and ventilation
- Dual pane window glass
- Front window guard
- Foot rest
- Additional in-cab storage box
- Additional windshield wipers on front and rear windows
- -Removable floor mat
- Lighting
- Standard Halogen 1,300 lumens flood light on perimeter, area spot lights have 1,950 lumens
- Premium LED 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
- View hatch
- -Deck cover plate in lieu of viewing hatch
- Viewing hatch with spot light
- Decals
- Decals (films) ANSI
- -ISO (films) ISO

Mandatory Choices (continued)

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

SERVICE PACKAGES

- 13.7 m (44.9 ft) Mast
- Basic/Manual Centralized Manual Lube 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
- 17.5 m (57.4 ft) Mast
- Basic/Manual Centralized Manual Lube for all pivot points; Gravity Fill for fuel and water
- Standard Fast Fill for water and fuel; Automated lubrication system
- Premium Service center for lubricant drain and fill, Automated lubrication system, Fast Fill fuel and water, blowdown hose

DUST SUPPRESSION

- Water Injection system with 1514 L (400 gal) tank
- Water injection with 1514 L (400 gal) tank plus dry dust collector
- High Volume Water Injection system with total 3785 L (1,000 gal) tank: 1514 L (400 gal) tank mounted above deck and 2271 L (600 gal) mounted above deck. (Not compatible with basic service.)

BATTERIES

- Four Cat sealed batteries
- Six Cat sealed batteries (required for cold weather Level 2 and 4 and/or semiautonomy packages)

CLIMATE

- Level 1 Standard Fluids and lubricants; Rated down to -1° C (30° F) temperatures; withstands high heat to 52° C (125° F)
- Level 2 Arctic fluids and lubricants; Rated down to -18° C (-0.4° F) temperatures; extra batteries (option)
- Level 4 Arctic fluids and lubricants
- Level 4 40° C (–40° F) temperatures
- Engine coolant and water tank heaters, battery trays, and provision for fuel heating – diesel fired
- 50 Hz High Pressure Compressor, Tier 2 or 4 Final engine
- Arctic fluids, Genset ready, heater and blankets for tanks, extra batteries, heated water suction lines
- Shore power connection box with switchable 240-600 volt, 50 amp waterproof connection
- -Extra batteries (option)

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

MAST

- Overhead winch with remote; variable speed drive with ≥ 1814 kg (4,000 lb) rating, length to reach 6.1 m (20 ft) past drill deck
- Rotary tool lubrication, 113 L (30 gal) oil injection system
- Mast access ladder, mast grating and lanyard posts

OPERATOR ENVIRONMENT

- Trainer seat that folds away
- Window shades
- Cabin pressure manometer gauge
- Cab roof access ladder

SERVICE TOOL OPTIONS

- Bushing Retention Tool 178 to 235 mm (7 to 9.250 in) pipe diameter
- Lifting bails (available on request; required for commissioning)
- -114 mm (4.5 in) API thread
- -140 mm (5.5 in) API thread
- 168 mm (6.625 in) for top sub/shock sub API thread
- 114 mm (4.5 in) for 178 mm (7 in) pipe BECO thread
- 152 mm (6 in) for 193 mm (7.625 in) up to 235 mm (9.25 in) pipe BECO thread

TECHNOLOGY PRODUCTS

- Product Link Elite cellular
- Product Link Elite satellite
- Product Link Elite Dual (cellular and satellite)
- Terrain for Drilling

GROUND ENGAGING TOOLS

- Drill bits, rotary tricone
- -228 mm (9.0 in), OPT 1, (S3)
- -228 mm (9.0 in), OPT 2, (M2)
- -228 mm (9.0 in), OPT 3, (H1)

-251 mm (9.875 in), OPT 1, (M1) -251 mm (9.875 in), OPT 2, (M3) -251 mm (9.875 in), OPT 3, (H1)

- 270 mm (10.625 in), OPT 1, (S3) - 270 mm (10.625 in), OPT 2, (M3) - 270 mm (10.625 in), OPT 3, (H1)

- 311 mm (12.25 in), OPT 1, (M1) - 311 mm (12.25 in), OPT 2, (M3) - 311 mm (12.25 in), OPT 3, (H1)

DUST SUPPRESSION

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

DRILL PIPE

- 12.1 m (40 ft) Pipes, 13.7 m (44.9 ft) Mast Carousel holds quantity of four
- DTH 178 mm (7 in)
- Rotary/DTH 193 mm (7.625 in)
- -Rotary 203 mm (8 in)
- -Rotary 219 mm (8.625 in)
- 7.62 m (25 ft) Pipes, 17.5 m (57.4 ft) Mast Carousel holds quantity of four
- DTH 178 mm (7 in)
- Rotary/DTH 193 mm (7.625 in)
- Rotary 203 mm (8 in)
- Rotary 219 mm (8.625 in)
- Rotary 235 mm (9.25 in) Carousel accepts quantity of two

MD6310 Rotary Blasthole Drill

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