

MD6310 Rotary Blasthole Drill

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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Engine Options		
Emissions: U.S. EPA Tier 4 Final		
Engine Power	C32B @ 1,	800 rpm
ISO 14396	751 kW	1,007 hp
ISO 14396 (DIN)	1021 mhp ((PS)
Emissions: Equivalent to US EPA Tier	2	
Engine Power	C32B @ 1,	800 rpm
ISO 14396	769 kW	1,031 hp
ISO 14396 (DIN)	1046 mhp	(PS)

• Dual starter motors

• Scheduled oil sampling (S·O·SSM) ports

• Ether starting aid; ether bottle supplied locally

Compressor/Receiver Options

Compressor

Rotary drilling	56.6 m³/min (2,000 ft³/min) @ 8.6 bar (125 psi)
Rotary drilling	73.6 m³/min (2,600 ft³/min) @ 7.6 bar (110 psi)
DTH drilling	42.3 m³/min (1,500 ft³/min) @ 34.4 bar (500 psi)

• DTH option includes tool oiler

• Electronic compressor control and regulation

• With the compressor's variable volume control, the operator can limit air output to help reduce fuel consumption.

Receiver Tank Choices

- Low pressure 8.6 bar (125 psi) for American Society of Mechanical Engineers (ASME)/Canadian Registration Number (CRN)/ Australia (AU) or Conformité Européenne (CE)
- High pressure 34.4 bar (500 psi) for ASME/CRN/AU or CE

Cooling

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

Climate Options

- 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 cold weather fluids and lubricants
- Rated down to -18° C (-0.4° F) temperatures

Climate Level 4 Arctic fluids and lubricants, heating package

- Rated down to -40° C (-40° F) temperatures
- Diesel fired heating system that heats and circulates engine coolant through the: engine block, primary water tank, heating elements for battery trays with a provision for fuel tanks
- Full arctic lubricant package includes: engine oil and hydraulic oil
- Electric heating package with breaker panel to power:
- 120V heating blanket for compressor receiver tank, heat trace for compressor control lines, heat trace for housing 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 genset and or plug, sold separately
- 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 rear deck; for vertical and angle drilling
- Four leveling jacks provide leveling by up to:
- -10° (side to side)
- -7° (drill end, downhill)
- -7° (non-drill end, downhill)
- Fuel tank capacity 1609 L (425 gal)
- Optional fuel capacity expansion adds additional 1609 L (425 gal) fuel tank, for total capacity of 3218 L (850 gal).
 Note: This is required for autonomy packages.
- Heavy duty tow hooks (front end)
- Four (4) lift lugs, for use with cables or chains
- Bolt-on platform for cold weather generator or fire suppression bottles
- Fixed access stairs to the cab area
- Three egress points on deck areas in addition to main access
- Cab perimeter walkway
- Sturdy guardrails, toe guards, self-closing gates

Undercarriage

Model	Cat [®] 349	
	Excavator	ype
Lower rollers	Fourteen (1	4)
Carrier rollers	Three (3)	
Track chain guards and guides	Level two	
Draw bar pull	547 000 N	403,446 lbf
Travel speed	2.45 kph	1.5 mph
Triple grousers; ground bearing pressure 1.28 bar (18.5 psi)	750 mm	29.5 in

Hydraulics

- Two (2) primary pumps 210 cc (piston, with proportional electronic controls)
- One (1) auxiliary circuit pump 110 cc (piston, load sensing)
- Two (2) fan pumps 90 cc (piston, with proportional electronic controls)
- Two (2) charge pumps 43.9 + 56.5 cc (double stack gear, fixed displacement)
- S·O·S ports

Mast and Pipe Rack Carousel Features

13.7 m (44.9 ft) Mast		
Hole diameter range	229-311 mm	9-12.25 in
Single pass depth	13.7 m	44.9 ft
Multi pass depth	74.6 m	244.9 ft
Pull-down capacity	39 009 kg	86,000 lb
Hoist capacity	29 484 kg	65,000 lb
Hoist speed	37.4 m/min	122.7 ft/min
Maximum bit load (single pass)	Up to 41 165 kg	Up to 90,753 lb
17.5 m (57.4 ft) Mast		
Hole diameter range	229-311 mm	9-12.25 in
Single pass depth	17.5 m	57.4 ft
Single pass depth	17.5 111	37 . 4 It
Multi pass depth	48 m	157.4 ft
	-,,,,	
Multi pass depth	48 m	157.4 ft
Multi pass depth Pull-down capacity	48 m 39 009 kg	157.4 ft 86,000 lb

• Mast configurations include pipe rack carousel and angle drilling package (vertical, out to 30 degrees in 5-degree increments)

- Hydraulically actuated, self-indexing pipe rack carousel accepts pipe diameters from 178 mm (7.0 in) to 235 mm (9.25 in)
- Drill strings configured for above-deck bit changes
- Single hydraulic cylinder and cable system for pulldown/hoist
- Auto tensioning of pull down and hoist cable
- Variable grip hydraulic break out wrench for range of pipe diameters
- Sliding deck wrench assembly
- Configured with roller deck bushing for tricone applications, two-piece deck bushing for DTH
- Closed circuit camera for viewing pipe rack carousel/top drive operation while racking pipes
- Drill pipe positioner
- Rotation Gear Box with dual motor arrangement, up to 160 rpm, and 16,000 N·m of torque (11,800 ft-lb)

Mast Packages

Mast accessories manual 13.7 m (44.9 ft) Mast	One wire rope pipe catcher, hydraulically actuated pipe positioner
Mast accessories hydraulic	One hydraulic pipe catcher, hydraulically actuated pipe positioner
Mast accessories manual 17.5 m (57.4 ft) Mast	Two wire rope pipe catchers, hydraulically actuated pipe positioner
Mast accessories hydraulic	One hydraulic pipe catcher, plus one wire rope, hydraulically actuated pipe positioner
Angle drilling	Included with either mast

Bit basket - Manual bit basket for 13.7 and 17.5 m mast

Bit basket – Hydraulic for (13.7 and 17.5 m mast)

• Recommended for use with tricone or DTH bits up to 279 mm (11 in) diameter

Bit basket – Hydraulic for (for use with 17.5 m mast and 311 mm [12.25 in] bit only)

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)

ım 7 in
nm 7.625 in
nm 8 in
nm 8.625 in
n

13.7 m (44.9 ft) Mast Carousel; holds quantity of 5×12.19 m (40 ft) pipes; total depth 74.6 m (244.9 ft)

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Pipe di	ameters	194 mm	7.625 in
		219 mm	8.625 in

13.7 m (44.9 ft) Mast Carousel, dual purpose; holds quantity of two (2) 12.19 m (40 ft) pipes and quantity of two (2) 9.14 m (30 ft) pipes, and adapters to connect to DTH hammer and tricone bit (DTH hammer and tricone not included)

• Accepts 194 mm (7.625 in) pipe – contact factory for additional pipe diameters

17.5 m (57.4 ft) Mast Carousel; holds quantity of 4×7.62 m (25 ft)	
pipes; total depth 48 m (157.4 ft)	

Pipe diameters	178 mm	7 in
	194 mm	7.625 in
	203 mm	8 in
	219 mm	8.625 in
17.5 m (57.4 ft) Mast Carouse pipes; total depth 32.7 m (10'	, I ,	of 2 × 7.62 m (25 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)

• 219-235 mm (8.625-9.25 in)

Drill Pipe

Drill Pipe		
12.19 m (40 ft) pipes – pipe rack carousel holds a quantity of four (4) or five (5) pipes	13.7 m (44.9 ft)	Mast
DTH	178 mm	7 in
Rotary or DTH	194 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 (4) or five (5) pipes	17.5 m (57.4 ft) 1	Mast
DTH	178 mm	7 in
Rotary or DTH	194 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 two (2) pipes	17.5 m (57.4 ft) l	Mast

 Rotary
 235 mm
 9.25 in

Dual purpose carousel pipe: 13.7 m (44.9 ft) Mast; holds quantity of two (2) 12.19 m (40 ft) pipes and quantity of two (2) 9.14 m (30 ft) pipes

Tool Package Rotary

- One-piece roller deck bushing
- Pipe positioner claws
- Deck wrench, sliding
- Top sub
- Bit sub
- Pipe wiper seal

Tool Package DTH

- Two piece bushing
- Pipe positioner claws
- Deck wrench, sliding
- Shock sub
- Top Sub
- Hammer Sub
- · Pipe wiper seal
- Drill tool lubricator included with DTH compressor selection

Rotary Head Top Drive System

- Spindle with 168 mm (6.625 in) API regular thread and splined collar
- Rotation gear box with dual 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

Operator Environment

- Cab, Standard
- -Fabric seat
- -Single pane window glass
- -Removable drill window guard
- -Windshield wiper for driller window
- Cab, Premium
- Leather seat with fabric inlay and heat/ventilation
- -Heavy duty seat suspension
- -Dual pane window glass
- Removable drill window guard and fixed window guard facing power train
- Wipers for the driller window plus front and rear windows
- Spacious Falling Object Protective Structure (FOPS) cab has $3 m^2 (32.4 \text{ ft}^2)$ floor space with an integrated operator station
- Extended cab has 4.2 m² (45.2 ft²); space for refrigerator and microwave (not pre-wired/appliances are not included); Additional storage space
- · Cab perimeter walkway included for both cab sizes
- -Cab rubber shock-mounts
- 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)
- Three (3) cc cameras (front and left side) providing 360° vision coverage from operator's seat; camera in the mast to view pipe rack carousel/top drive operation
- -Power converter 24V to 12V
- -Radio-ready for communication and entertainment stereo
- Two swing-out doors and Cat keyed locks
- Literature holder
- -Removable floor mat
- 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 (3.2 in)
- Windows:
- Large windows front, rear and right cab side; full-length drill window with guard
- -Windshield wipers with a common washer tank

- Lighting:
 - LED interior lights; separate reading light, and backlit joysticks and keypads
- -Zone controls for area lights 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
- Lighting package includes 4,200 lumens flood light on perimeter, as well as mast clearance lights, cab-mounted strobe, and frontmounted tram beacon
- HVAC:
- -Floor heating vent
- -Roof-mounted air conditioner/heating/pressurizing unit
- Filter access from deck
- Defogging HVAC vents on main window
- MERV16 element standard, high-efficiency particulate absorbing (HEPA) element available via aftermarket

Operating System Controls (Standard)

- All electric controls for drilling, tramming and leveling, plus auxiliary functions
- Electronic compressor control
- Rotary torque control
- Virtual rotary head travel stops and interlocks
- Pipe positioner engaged/disengaged indicator
- Drill depth meter
- Drill performance and drill health display system
- Data logging of machine health with warnings and fault code records with export capability
- Delayed engine shut down
- Rotary head rpm gauge (digital display in screen)
- Filter indicators for hydraulic, fuel, compressor and engine
- Jack pressure sensors in display
- Dust suppression control
- Mast lock indicator
- Electronic Control Module (ECM) proportional fan speed control system
- Tram interlock for machine stability limits
- Tram interlock for pipe in hole
- Tram interlock for mast up and locked or down and parked
- Tram interlock for jack retracted
- Tram interlock for winch parked
- Cab environment controls (Air Conditioning (AC), filter, heat, fan speeds)
- Prewired for MineStarTM Terrain and Command autonomous operation
- Drill Assist automated functionalities:
- -Auto Level (and auto jacks retract)
- -Auto Mast (raise, lower and lock into place)
- -Auto Drill (single pass or multi-pass)

Automation and Technology

- Drill depth indicator and interlocks
- Product Link[™] Elite*
- Drill Assist automated functionalities
- Auto Level (and auto jacks retract)
- -Auto Mast (raise, lower and lock into place)
- -Auto Drill (single- or multi-pass)
- Cat MineStarTM Terrain for drilling* (Integrated)
- MineStar Command for drilling* (Ready)

*Hardware from factory; software license required (sold separately). Contact your dealer for more information.

Dust Suppression Options

- Water tank mounted on top deck, capacity 1514 L (400 gal)
- Includes water flow meter, volume control, tank fill level indicator
- 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, plus dust chute with ejector
- High Volume Water Injection system
- 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

Service Packages

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

Service Tool Options

- Bushing Retention Tool 178 to 235 mm (7.00 to 9.25 in) pipe diameter
- Lifting bails (available by request)
- API reg thread 114 mm (4.5 in); for 203 mm (8 in class) DTH hammer and 229 mm (9 in) tricone bits
- API reg thread 168 mm (6.625 in); for top sub/shock sub and 250-311 mm (9.875-12.25 in) tricone bits
- Bucyrus Erie Company (BECO) thread 114 mm (4.5 in); for 178 mm (7 in) pipe
- -BECO thread 152 mm (6 in); for 194-235 mm (7.625-9.25 in) pipe

Safety and Security

- Approach angle of 16.8 degrees facilitates loading and unloading on a lowboy
- Alloy drill deck covers, for servicing when mast is horizontal
- Eight (8) engine shut down buttons, by each drill egress/access point, as well as in cab, in engine area, and 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
- Mast access ladder with mast grating (option)
- Electric horn activated by push button in the cab
- Automatic tram alarm, audible
- 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

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	17.7 ft	5.39 m	17.7 ft
2 Width rear	6.32 m	20.7 ft	6.32 m	20.7 ft
3 Height mast up	19.93 m	65.4 ft	23.77 m	78.0 ft
4 Body length – standard cab	13.27 m	43.5 ft	13.27 m	43.5 ft
5 Body length – extended cab	13.79 m	45.2 ft	13.79 m	45.2 ft
6 Length mast down – standard cab	21.1 m	69.2 ft	24.9 m	81.7 ft
7 Length mast down – extended cab	21.62 m	70.9 ft	25.43 m	83.3 ft

vveights

Working weight range – minimum/maximum

75 800/97 000 kg 167,11

167,110/213,848 lb

75 500/97 500 kg 166,449/214,950 lb

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
POWER TRAIN OPTIONS		-	CAB OPTIONS (continued)		-
Cat C32B @ 1,800 rpm, 763 kW (1,023 hp), equivalent to U.S EPA Tier 2	~		Foldaway trainer's seat, complete with retractable seatbelt		√
Cat C32B @ 1,800 rpm, 752 kW (1,008 hp), U.S. EPA Tier 4 Final	\checkmark		Cabin pressure manometer gauge Window shades		✓ ✓
Rotary/Single Stage, Low Pressure - 56.6 m ³ /min (2,000 ft ³ /min) @ 8.6 bar (125 psi); with Low Pressure Receiver	~		Viewing hatch for hole spotting with spotlight (hydraulically operated)		v √
Tank for ASME/CRN/AU or CE			Cab roof access system (includes ladders, cage and rails)		\checkmark
Rotary/Single Stage, Low Pressure -73.6 m ³ /min (2,600 ft ³ /min) @ 7.6 bar (110 psi) with Low Pressure Receiver Tank for ASME/CRN/AU or CE DTH/Two Stage, High Pressure		✓ 	Lighting package: Flood light on perimeter is 4200 lumens, area spotlights have 1950 lumens. Mast clearance lights, cab-mounted and front mounted amber	✓	
-42.5 m ³ /min (1,500 ft ³ /min) @ 34.4 bar			strobe tram beacon		
(500 psi) with High Pressure Receiver			CONTROLS Drill depth indicator and interlocks	√	
Tank for ASME/CRN/AU or CE; hammer storage and tool oiler				 ✓	
CAB OPTIONS			Drill Assist – Auto Level (and auto jacks retract)	v	
Standard cab; includes a fabric seat, single pane window glass, windshield	\checkmark		Drill Assist – Auto Mast (raise, lower and lock into place)	\checkmark	
wiper for driller window, removable			Drill Assist - Auto Drill (single pass)		\checkmark
driller window guard, removable floor mat, cab size 3 m^2 (32.4 ft ²)			PRODUCT LINK/TERRAIN		
Premium cab size 3 m^2 (32.4 ft ²);		✓	Product Link TM (Cellular)	✓	
includes leather with fabric inlay			Product Link (Dual: Cellular + Satellite)		\checkmark
seat with heat/ventilation, additional			MineStar TM Terrain for drilling*		\checkmark
storage plus windshield wipers on front and rear windows, dual pane window			FRAME		
glass, a removable driller window guard plus front window guard facing power train, removable floor mat,			Fuel tank expansion of +1609 L (425 gal) for total of 3218 L (850 gal) required for autonomy packages		✓
cab size 3 m ² (32.4 ft ²)			*Requires MineStar Terrain for drilling software license, sold separ		arately.
Extended cab premium: includes premium package plus dedicated space for refrigerator and microwave (not pre- wired/appliances are not included), cab size 4.2 m ² (45.2 ft ²)		~	(0	continued on	next page)
Extended cab standard: includes standard package plus dedicated space for refrigerator and microwave (not pre- wired/appliances are not included), cab size 4.2 m ² (45.2 ft ²)		✓			

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
MAST		
13.7 m (44.9 ft) single pass depth; – Vertical or angle drilling		\checkmark
17.5 m (57.4 ft) single pass depth; – Vertical or angle drilling		\checkmark
Mast access system including steps, handrails, three platforms, mast grating and lanyard posts		~
No Mast Access/Handrail only	\checkmark	
Drill pipe thread greaser with reloadable tank that can also hold a disposable grease bucket		~
Tool lubrication System (Rotary Tricone, 113.5 L [30 gal])		✓
Overhead winch assembly with remote, cable and hook		✓
MAST ACCESSORIES		
13.7 m (44.9 ft) or 17.5 m (57.4 ft) Mast:		
Pipe catcher, manual One wire rope (13.7 m/44.9 ft) or two wire rope (17.5 m/57.4 ft), hydraulically actuated pipe positioner	\checkmark	
Bit basket, manual	\checkmark	
Bit basket, hydraulic – recommended for use with tricone or DTH bits up to 11 in (279 mm) diameter		\checkmark
13.7 m (44.9 ft) Mast:		
Pipe catcher, hydraulic – one hydraulic pipe catcher, hydraulically actuated pipe positioner		~
Bit basket, hydraulic – recommended for use with tricone or DTH bits up to 11 in (279 mm) diameter		√
17.5 m (57.4 ft) Mast:		
Pipe catcher, hydraulic – one hydraulic pipe catcher, Plus one wire rope, hydraulically actuated pipe positioner		✓
Bit basket, hydraulic (for use with 12.25 in (311 mm) bit only)		\checkmark

	Standard	Optional
PIPE CAROUSEL 13.7 M (44.9 FT) MAST/ 12.19 M (40 FT) PIPE RACK (SELECT ONE)		
178 mm (7 in) pipe; four pods total depth 62.5 m (204.9 ft)		\checkmark
194 mm (7.625 in) pipe; four pods total depth 62.5 m (204.9 ft)		\checkmark
203 mm (8 in) pipe; four pods total depth 62.5 m (204.9 ft)		\checkmark
219 mm (8.625 in) pipe; four pods total depth 62.5 m (204.9 ft)		\checkmark
194 mm (7.625 in) pipe; five pod; total depth 74.6 m (244.9 ft)		\checkmark
219 mm (8.625 in) pipe; five pod; total depth 74.6 m (244.9 ft)		\checkmark
PIPE CAROUSEL 13.7 M (44.9 FT) MAST DUAL P	URPOSE/	
12.19 M (40 FT) PIPE RACK (SELECT ONE)		
Holds total quantity of four (4) pipes:		\checkmark
two (2) 12.19 m (40 ft) pipes and two (2) 0.14 m (20 ft) pipes includes a deptate to		
9.14 m (30 ft) pipes; includes adapters to connect to DTH hammer and tricone bit		
(DTH hammer and tricone not included)		
PIPE CAROUSEL 17.5 M (57.4 FT) MAST/		
7.62 M (25 FT) PIPE RACK (SELECT ONE)		
178 mm (7 in) pipe; four pods total depth 47.9 m (157.4 ft)		√
194 mm (7.625 in) pipe; four pods total depth 47.9 m (157.4 ft)		√
203 mm (8 in) pipe; four pods total depth 47.9 m (157.4 ft)		\checkmark
219 mm (8.625 in) pipe; four pods total depth 47.9 m (157.4 ft)		\checkmark
235 mm (9.25 in) pipe; two pods; total depth 32.7 m (107.4 ft)		\checkmark
BREAK OUT WRENCH (SELECT ONE)		
Variable grip hydraulic break out wrench grip range of 178–219 mm (7.0-8.625 in)		\checkmark
Variable grip hydraulic break out wrench for 235 mm (9.25 in)		~

(continued on next page)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
SERVICE PACKAGES/FLUID SYSTEM		-	FRAME/DECK		-
13.7 M (44.9 FT) MAST (SELECT ONE)			Machine access via fixed stairs	\checkmark	
Standard fast fill for fuel and water only; automated lubricant system		✓	Machine access via cascading, hydraulic stairs with walkway		\checkmark
Premium with Service Center for		\checkmark	Walkway around cab to drill deck	\checkmark	
lubricant drain and fill; automated lubricant system, fast fill fuel and water;			No Tool Storage Box (Cover Only)	✓	
blowdown hose			Tool Storage Box		✓
SERVICE PACKAGES/FLUID SYSTEM			Jib Crane Ready Only		\checkmark
17.5 M (57.4 FT) MAST (SELECT ONE)			DUST SUPPRESSION		
Standard fast fill for fuel and water only;		\checkmark	Static dust curtains, four sides boxed in	✓	
automated lubricant system			Dust curtain hydraulic lifters raise front		✓
Premium with Service Center for lubricant drain and fill; automated		\checkmark	and rear dust curtains (recommended with dust collector)		
lubricant system, fast fill fuel and water; blowdown hose			Water Injection only (No Dust Collector); 1514 L (400 gal) tank	\checkmark	
CLIMATE/REGIONAL CONSIDERATIONS			Water Injection and Dust Collector;		✓
Batteries, sealed quantity four (4)	\checkmark		1514 L (400 gal) tank plus dry dust		
Batteries, sealed quantity six (6) (required		\checkmark	collector		
for cold weather Level 2 and 4 and/or semi autonomy packages)			High Capacity Water Injection; with total		\checkmark
Climate level 1:	✓		3785 L (1,000 gal) tanks: 1514 L (400 gal) and 2271 L (600 gal) both mounted		
– Standard fluids and lubricants. With a	v		above deck		
temperature range of $-1^{\circ} C (30^{\circ} F)$ to			Tram-off spray system		✓
52° C (125° F)			UNDERCARRIAGE		
Climate level 2:		\checkmark	750 mm (29.5 in) triple grouser for soft	✓	
-Cold weather fluids and lubricants.			rock applications		
Rated down to -18° C (-0.4° F) temperatures			(continued on	next page
Climate level 4 Arctic fluids and		✓	· · · · · · · · · · · · · · · · · · ·		107
lubricants -40° C (-40° F) temperatures		v			
– 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, heated water 					
suction lines					
- Shore power connection box with					
switchable 240-600 volt, 50 amp					
waterproof connection					
Certifications EAEU	\checkmark				
Certifications CE	√				
	✓				
Decals, ANSI	v				

inserts, sliding deck wrench and dual

purpose carousel

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
DRILL TOOL PACKAGES/ROTARY – 13.7 M (44.9 FT) MAST (SELECT ONE)			DRILL TOOL PACKAGES/ROTARY 17.5 M (57.4 FT) MAST (SELECT ONE)		
 194 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 		~	 194 mm (7.625 in) pipe diameter Roller deck bushing, pipe positioner inserts, sliding deck wrench, bit sub, pipe wiper seal 		~
arrangement in next section) 203 mm (8 in) pipe diameter – One-piece roller deck bushing, pipe positioner inserts, sliding deck wrench,		✓	 203 mm (8 in) pipe diameter Roller deck bushing, pipe positioner inserts, sliding deck wrench, bit sub, pipe wiper seal 		√
bit subs, pipe wiper seal (select top sub arrangement in next section) 219 mm (8.625 in) pipe diameter		✓	 219 mm (8.625 in) pipe diameter Roller deck bushing, pipe positioner inserts, sliding deck wrench, bit sub, 		✓
 One-piece roller deck bushing, pipe positioner inserts, sliding deck wrench, bit subs, pipe wiper seal (select top sub arrangement in next section) DRILL TOOL PACKAGES/DTH – 			pipe wiper seal 235 mm (9.25 in) pipe diameter – Roller deck bushing, pipe positioner inserts, sliding deck wrench, bit sub, pipe wiper seal		~
13.7 M (44.9 FT) MAST (SELECT ONE)			DRILL TOOL PACKAGES/DTH		
 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) 		v	 17.5 M (57.4 FT) MAST (SELECT ONE) 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) 	r	*
 194 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) 		✓	 (seter top sub arrangement in next section) 194 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 	r	✓
Dual purpose 194 mm (7.625 in) pipe diameter – Two (2) piece bushing, pipe positioner		\checkmark	section)	(continued on	next page)

Standard and optional equipment may vary. Consult your Cat dealer for details.

Standard (Optional	Standard	Optional
SUBS (SELECT ONE)		TRICONE DRILLING BITS GROUP (SELECT ONE)	
Shock absorbers with crossover sub (required with DTH		228 mm (9.0 in), OPT 1, (S3)	\checkmark
package, optional with Rotary package)		228 mm (9.0 in), OPT 2, (M2)	\checkmark
178 mm (7 in)	\checkmark	228 mm (9.0 in), OPT 3, (H1)	\checkmark
194 mm (7.625 in)	\checkmark	251 mm (9.875 in), OPT 1, (M1)	\checkmark
203 mm (8 in)	\checkmark	251 mm (9.875 in), OPT 2, (M3)	✓
219 mm (8.625 in)	\checkmark	251 mm (9.875 in), OPT 3, (H1)	~
235 mm (9.25 in)	✓	270 mm (10.625 in), OPT 1, (S3)	✓
Shock subs with long top sub adaptor for Dual Purpose (44.9 ft) Mast	13.7 m	270 mm (10.625 in), OPT 2, (M3)	√
194 mm (7.625 in)	\checkmark	270 mm (10.625 in), OPT 3, (H1)	✓
Top Subs (Rotary package only)		311 mm (12.25 in), OPT 1, (M1)	✓
194 mm (7.625 in)	\checkmark	311 mm (12.25 in), OPT 2, (M3)	✓
203 mm (8 in)	\checkmark	311 mm (12.25 in), OPT 3, (H1)	~
219 mm (8.625 in)	\checkmark	DTH HAMMERS AND BITS	
235 mm (9.25 in)	\checkmark	203 mm (8 in) HP	\checkmark
VARIABLE GRIP HYDRAULIC BREAKOUT WRENCH (SELECT O	NE)	SERVICE TOOLS	
Grip range; ✓ 219, 235, 273 mm (8.625, 9.25, 10.75 in)		Lifting Bail 114 mm (4.5 in) API reg thread for 203 mm (8 in class) DTH hammer and 229 mm (9 in) tricone bits pipe	\checkmark
Grip range; ✓ 324, 340 mm (12.75, 13.375 in) DRILL PIPE – 12.19 M (40 FT) PIPE FOR 13.7 M (44.9 FT) MAST;		Lifting Bail 168 mm (6.625 in) API reg thread for top sub/shock sub for 250-311 mm (9.875-12.25 in) tricone bits	~
CAROUSEL HOLDS QUANTITY OF FOUR OR FIVE		Lifting Bail 114 mm (4.5 in)	
219 mm (8.625 in) Rotary	\checkmark	BECO for 178 mm (7 in) pipe	
203 mm (8 in) Rotary	\checkmark	Lifting Bail 152 mm (6 in)	✓
194 mm (7.625 in) DTH/Rotary	\checkmark	BECO for 194 mm (7.625 in) and up to	
178 mm (7 in) DTH/Rotary	\checkmark	235 mm (9.25 in) pipe	
DRILL PIPE – 7.62 M (25 FT) PIPE FOR 17.5 M (57.4 FT) MAST; CAROUSEL HOLDS QUANTITY OF TWO OR FOUR		Bushing Retention Tool 178 to 235 mm (7 to 9.250 in) pipe diameter	\checkmark
219 mm (8.625 in) Rotary	\checkmark		
203 mm (8 in) Rotary	\checkmark		
194 mm (7.625 in) DTH/Rotary	\checkmark		
178 mm (7 in) DTH/Rotary	\checkmark		
235 mm (9.25 in) Rotary only; carousel accepts quantity of two only	\checkmark		
DRILL PIPE – 9.14 M (30 FT) PIPE FOR 13.7 M (44.9 FT) MAST; CAROUSEL HOLDS TOTAL QUANTITY OF FOUR (4); TWO (2) 12.19 M (40 FT) PIPES AND TWO (2) 9.14 M (30 FT) PIP ADAPTERS TO CONNECT TO DTH HAMMER AND TRICONE BI			
INCLUDED (HAMMER AND BIT ARE NOT INCLUDED)			

√

Pipe Thread Greaser

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