

# MD6420C

## Rotary Blasthole Drill



### 10-, 13- or 16-Meter Mast Configuration

Hole diameter	Up to 311 mm	Up to 12.25 in
16 m/50 ft mast		
Depth single pass	16.46 m	54 ft
Multi-pass	Up to 46.9 m	Up to 154 ft
13 m/40 ft mast		
Depth single pass	13.4 m	44 ft
Multi-pass	Up to 74.4 m	Up to 244 ft
10 m/35 ft mast		
Depth single pass	10.29 m	33 ft 9 in
Multi-pass	Up to 63.4 m	Up to 208 ft
Angle drilling	30° (in 5° increments)	

### Operating Temperature

Minimum ambient rating (standard)	-1° C	30° F
Maximum ambient rating (standard)	48° C	118° F
Altitude	Up to 4572 m	Up to 15,000 ft

### Pull-down/Hoisting Capacity

Bit load force	Up to 42 000 kg	Up to 92,594 lb
Pull-down capacity	Up to 383 kN	Up to 86,000 lbf
Hoist capacity	Up to 383 kN	Up to 86,000 lbf
Drilling feed rate	0-33.5 m/min	0-110 ft/min
Retract rate	0-33.5 m/min	0-110 ft/min
Head travel (16 m/50 ft mast)	18.29 m	720 in
Head travel (13 m/40 ft mast)	15.24 m	600 in
Head travel (10 m/35 ft mast)	12.2 m	480 in
Cable type – 29 mm (1.125 in)	DYFORM 8	

### Rotary Drive System

Torque, dual motors	0-17 313 N·m	0-12,769 lbf-ft
Rotation speed	0-137 rpm	

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## Compressor (Standard)

Type	Popit inlet, fixed displacement	
Discharge air flow (sea level)	56.6 m <sup>3</sup> /min	2,000 ft <sup>3</sup> /min
Maximum operating pressure	6.9 bar	100 psi

## Compressor (Optional)

Type 1	Butterfly inlet, adjustable from half to full displacement	
Discharge air flow (sea level)	73.56 m <sup>3</sup> /min	2,600 ft <sup>3</sup> /min
Maximum operating pressure	6.9 bar	100 psi

Type 2	Popit inlet, fixed displacement	
Discharge air flow (sea level)	42.5 m <sup>3</sup> /min	1,500 ft <sup>3</sup> /min
Maximum operating pressure	10.3/24.1/ 34.4 bar	150/350/ 500 psi
Hi/low pressure switch, bit oil injection system	114 L	30 gal

## Engine – C32 (standard)

Model	C32, U.S. EPA Tier 2 equivalent	
Rated horsepower	775 kW	1,039 hp
Fuel tank	1514 L plus, 1703 L	400 gal plus, 450 gal

## Engine – C32 (optional)

Model	C32, Tier 2 equivalent	
Rated horsepower	680 kW	912 hp
Fuel tank	1514 L plus, 1703 L	400 gal plus, 450 gal

## Operator's Cab

Location	To the right from the mast if facing rear deck from the rear end	
Type	Shock-mounted; two-man, integrated FOPS certified	
Floor area	4.85 m <sup>2</sup>	52.22 ft <sup>2</sup>
Height inside	2146 mm	84.50 in
Windows (tinted safety glass laminated in rubber mounting)	14 mm	0.56 in
Number of windows	12	
Number of doors	Two (2) with windows (included in above)	
Climate control	Roof-mounted, AC/heating/pressurizing unit	
Other	Window wipers and washers	

## Controls

- Operations/maintenance manuals and all schematics are stored in drill monitor
- English control system display text ex-factory. May be changed to other languages by dealer.
- Basic engine shut down timer
- Drill performance and monitoring/diagnostics system
- Electronic compressor control
- Electronic control
  - Monitoring
  - Diagnostic system
- Filter indicators
- High/low tram speed select (high only when mast is down) interlock
- HMI touch screen control
- Mast lock indicator
- ECM (Electronic Control Module) provides fast and reliable control of all drill functions
- Pump drive gearbox temperature sensor
- Rotary head RPM gauge – digital
- Tram interlock, machine outside stability limits
- Tram interlock, pipe in hole
- Tram interlock, mast up and locked or down and parked
- Jack/tram interlock
- Cab environment control (AC, filter indicator, heat, fan speeds)
- Pipe positioner sensor
- Drill depth meter
- Drill function interlock, mast up and locked
- Rotary torque control
- Head clear interlock, rotary drive clear of carousel
- Winch interlock
- Jack pressure sensor
- Virtual rotary head travel stop
- Wiring for terrain interface provided
- Dial type engine gauges

## Undercarriage

Number of rollers on each side	13	
Rock guards/chain guards	Standard full-length guards	
Maximum drive horsepower per track	216 kW	290 hp
Brakes	Spring set, hydraulic release	
Brake release	Automatic	
Tram speed maximum	2.27 km/h	1.41 mph
Gradeability mast down		
CDH (cab down hill)	25%	
CUH (cab up hill)	13%	
Front	Three-point oscillating type	
Track adjustment means	Hydraulic with grease gun	
Track drive disconnect	Standard (manual)	

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## Mainframe, Decks and Walkways

Jacks, mast pivot and deck	Welded integrally to mainframe
Machine deck	Access both sides

## Base Machine

- Fuel tanks isolation valves
- Hydraulic tank with isolation valves and interlocks
- Slip resistant decks and walkways
- 3217 L (850 gal) fuel, (two tanks mounted under engine/compressor) with manual and remote fill
- Bolt-on hand rails with kick plates
- Cat® maintenance free batteries
- Stainless battery box, sliding drawer type
- Remote jump start terminals
- Tow hooks (front end)
- Lift lugs (for base machine minus mast)
- Walkways around the drill, 360 degrees
- Swing up steps, access/egress
- Self-closing gates
- Two stage mast raise cylinders
- Fixed dust curtains – four sides

## Leveling Jacks

Number	4	
Lift capacity – each	428 kN	96,163 lbf
Pad diameter		
Non-drill end	762 mm	30 in
Drill end	914 mm	36 in
Stroke on non-drill end	152 cm	60 in
Stroke on drill end	122 cm	48 in

## Drill Table and Work Deck

Table height off ground	1448 mm	57 in
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- Pipe loading guide roller
- Stationary rear deck
- Left rear swing gated handrail (dual gate design)
- Rear deck bit storage box with aluminum cover
- Hydraulic viewing hatch with LED hatch viewing spot light

## Accessories, Tools and Handling Equipment

### Shock Sub (DTH Application)

- Thread – API reg. 140 mm (5.5 in)

### Top Adapter Sub

- Diameter depends on pipe diameter
- Top thread – API reg. 140 mm (5.5 in)
- Bottom thread 6 BECO

### Bit Sub (Rotary Application)

- Top thread – 6 BECO
- Bottom thread – API reg. 168 mm (6.625 in)
- Table bushing roller-type or two-piece with replaceable liner

### Pipe Rack (Inside the Mast)

- Carousel with stationary pods and breaker plates

### 16 m Configuration

- 7.62 m (25 ft) × 2 as starter and four pieces of 7.62 m (25 ft) in carousel
- Outside diameter – 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)

### 13 m Configuration

- 12.2 m (40 ft) starter and five pieces of 12.2 m (40 ft) in carousel
- Outside diameter – 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)

### 10 m Configuration

- 10.66 m (35 ft) starter and five pieces of 10.66 m (35 ft) in carousel
- Outside diameter – 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)
- Length of drill – 10.67 m (35 ft)

### Winch System

- Rating – 1588 kg (3,500 lb)
- Cable size – 13 mm (0.5 in)

### Pipe Handling

- Deck wrench
- Fixed cable pipe catcher or optional hydraulic safety arm/pipe catcher with drill function interlock, when pipe catcher is not closed
- Removable or optional hydraulic bit basket
- Lifting bail-drill pipe/bit sub

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## Dimensions

All dimensions are approximate.



	10 m Mast		13 m Mast		16 m Mast	
<b>1</b>	6.82 m	22.4 ft	6.82 m	22.4 ft	6.82 m	22.4 ft
<b>2</b>	13.4 m	44 ft	15.8 m	52 ft	18.9 m	62 ft
<b>3</b>	12.9 m	42.5 ft	12.9 m	42.5 ft	12.9 m	42.5 ft
<b>4</b>	14.8 m	48.5 ft	14.8 m	48.5 ft	14.8 m	48.5 ft

# MD6420C Rotary Blasthole Drill Standard Equipment

## Standard Equipment

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

### POWER TRAIN

- Engine, Cat C32, Tier 2 equivalent, 1,800 rpm
- Manifold covers, turbo and exhaust
- Engine fire frame
- Fire wall, engine and hydraulic drive
- Exhaust pipe blankets

### MAST

- Hole diameter, up to 311 mm (12<sup>1</sup>/<sub>4</sub> in)
- Rated capacity, up to 383 kN (86,000 lbf)
- Pulldown/hoist system, single cylinder
- Rotary drive, dual motors
- 0-137 rpm, 0-17 313 N·m (0-12,769 lbf-ft) maximum torque
- Angle drilling, up to 30 degrees
- Mast locks and indicator in cab
- Auto cable tensioning system
- Hydraulic Operated Break-Out wrench (HOBOW)
- Shear bolt deck wrench cover
- Dust hood with hinged quick change dust seal
- Remote thread lube system
- Mast lanyard mounting plates

### OPERATOR ENVIRONMENT

- Cab, shock mounted, insulated
- Two-man extra-large FOPS
- Operator seat with air suspension
- Trainer's seat
- Operator's console: split with stainless steel panels and back-lit gauges
- Electric controls for drilling, tramming, leveling and auxiliary functions
- Dome lights, overhead interior
- Dash light
- Two (2) hinged doors, heavy duty latching
- Twelve (12) windows
- Full front drill window
- Roof window, with protective cage
- Windshield wipers, washer tank kit
- Air conditioning/heating/pressurizing roof mounted, hydraulic driven
- Cab ladder, roof platform and railing
- Electric horn
- Slope indicators
- CD stereo kit with speakers
- 24V to 12V converter

- Operations/maintenance manuals
- English control system display text may be changed to other languages
- Electronic Control Module (ECM)
- HMI touch screen control
- Drill performance monitoring and diagnostics system
- Drill depth meter
- Travel stop, virtual rotary head
- Jack/tram interlock
- Tram interlock, pipe in hole
- Tram interlock: mast up and locked or down and parked
- Mast lock indicator
- Tram speed select interlock: high only when mast is down
- Tram interlock: machine outside stability limits
- Drill function interlock mast up and locked
- Head clear interlock: rotary drive clear of carousel
- Winch interlock
- Pipe positioner sensor
- Jack pressure sensor
- Rotary head RPM gauge, digital
- Rotary torque control
- Electronic compressor control
- Filter indicators
- Pump drive gearbox temperature sensor
- Dial type engine gauges
- Basic engine shut down timer
- Cab environment control: AC, filter indicator, heat, fan speeds
- Wiring for terrain interface

### SAFETY AND SECURITY

- Air hose safety sleeves (whip socks)
- Hinged protective cage: for drill view window
- Battery and starter disconnects with lock-outs
- Eight (8) engine shut down buttons
- Tram alarm
- Strobe beacon on:
  - Cab and front left side of drill
  - Clearance light, mast crown
- Twenty (20) lights for night drilling
- Two (2) closed circuit cameras (front and left side) with monitor in cab

### COOLING

- Shutdown switch, low coolant level
- Cooler fans, variable speed, ECM

### FRAMES

- Four (4) leveling jacks:
  - Two (2) × 121.9 cm (48 in) rear
  - Two (2) × 152.4 cm (60 in) front
- Tow hooks, front end
- Lift lugs, for base machine without mast
- Mast raise cylinders, two stage
- Walkways, around the drill, 360 degrees
- Decks and walkways, slip resistant
- Hand rails, bolt-on, with kick plates
- Swing up steps, access/egress
- Self-closing gates
- Stationary, rear deck
- Hydraulic viewing hatch with LED hatch viewing spot light
- Fixed dust curtains, four sides
- Rear deck bit storage box with aluminum cover
- Pipe loading guide roller
- Left rear swing gated handrail, dual gate
- Fuel tanks:
  - Two (2) tanks mounted below deck
  - 3217 L (850 gal) fuel
  - Manual and remote fill
  - Isolation valves
- Hydraulic tank with isolation valves and interlocks
- Cat maintenance free batteries
- Battery box, stainless, sliding drawer
- Cat remote jump start terminals

### OTHER STANDARD EQUIPMENT

- Standard Caterpillar colors
- Filter kit, 50 hours
- Foam injection connection
- Loop filters between hydraulic pumps and motors
- Return filters, hydraulic
- Auto lubrication system, centralized
- Feed traveling sheave lube provision
- Hydraulic pressure test points



# MD6420C Rotary Blasthole Drill Mandatory Attachments

## Mandatory Attachments

### POWER TRAIN

#### Engine and Compressor

- Low horsepower package
  - Engine: Tier 2 equivalent, 680 kW (912 hp), 1,800 rpm
  - Compressor: 56.6 m<sup>3</sup>/min (2,000 ft<sup>3</sup>/min) @ 6.9 bar (100 psi), 1,800 rpm, poppit inlet
  - Fixed displacement
- High horsepower package
  - Engine: Tier 2 equivalent, 775 kW (1,039 hp), 1,800 rpm
  - Compressor: 42.5 m<sup>3</sup>/min (1,500 ft<sup>3</sup>/min) @ 10.3/24.1/34.5 bar (150/350/500 psi), 1,800 rpm, poppit inlet
  - Hi/low pressure switch, bit oil injection system, 114 L (30 gal) for DTH
  - Fixed displacement
- High horsepower package
  - Engine, Tier 2 equivalent, 775 kW (1,039 hp), 1,800 rpm
  - Compressor: 73.6 m<sup>3</sup>/min (2,600 ft<sup>3</sup>/min) @ 6.9 bar (100 psi), 1,800 rpm, butterfly inlet
  - Adjustable from half to full displacement

### MAST

#### Mast, Pipe Carousel, 10 m

- 10 meter mast, five (5) pipe carousel
- Mast:
  - Up to 10.29 m (33 ft 9 in) single pass hole depth
  - Drill on tracks, changing bit above deck
  - Single pass hole using one (1) each 10.67 m (35 ft) length drill pipe
  - With bit sub 76 cm (30 in)
- Carousel:
  - Five (5) pipe capacity allowing 63.39 m (208 ft) total hole depth
  - Pipe diameter 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)
  - 10.67 m (35 ft) length drill pipe (drill pipe not included)
  - Bit load with one pipe up to 41 347 kg (91,152 lb)
  - Winch 3629 kg (8,000 lb), with 1588 kg (3,500 lb) lift capacity

#### Mast, Pipe Carousel, 13 m

- 13 meter mast, five (5) pipe carousel, with additional mast rest
- Mast:
  - Up to 13.4 m (44 ft) single pass hole depth
  - Drill on tracks, changing bit above deck
  - Single pass hole using one (1) each 12.19 m (40 ft) length drill pipe with bit sub 229 cm (90 in)
- Carousel:
  - Five (5) pipe capacity allowing 74.37 m (244 ft) total hole depth
  - Pipe diameter 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)
  - 12.19 m (40 ft) length drill pipe (drill pipe not included)
  - Bit load with one pipe up to 41 563 kg (91,630 lb)
  - Winch 3629 kg (8,000 lb), with 1588 kg (3,500 lb) lift capacity

#### Mast, Pipe Carousel, 16 m

- 16 meter mast, four (4) pipe carousel, with additional mast rest
- Upper roller pipe catcher arm with drill function interlock when pipe catcher is not closed
- Mast:
  - Up to 16.46 m (54 ft) single pass hole depth
  - Drill on tracks, changing bit above deck
  - Single pass hole using two (2) each 7.62 m (25 ft) length drill pipe
  - With bit sub 231 cm (91 in)
- Carousel:
  - Four (4) pipe capacity allowing 46.93 m (154 ft) total hole depth
  - Pipe diameter 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)
  - 7.62 m (25 ft) length drill pipe (drill pipe not included)
  - Bit load with two pipes up to 42 000 kg (92,594 lb)
  - Winch 3629 kg (8,000 lb), with 1588 kg (3,500 lb) lift capacity

### Rotary Application

- Mast, 10 m – diameter, 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)
  - Tooling 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in) diameter
  - Roller bushing
  - Bit sub 76.2 cm (30 in) long
  - Five (5) pipe retainer
- Mast, 13 m – diameter, 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)
  - Tooling 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in) diameter
  - Roller bushing
  - Bit sub 228.6 cm (90 in)
  - Five (5) pipe retainer
- Mast, 16 m – diameter, 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)
  - Tooling 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in) diameter
  - Roller bushing
  - Bit sub 228.6 cm (90 in)
  - Four (4) pipe retainer

### DTH Application

- Mast, 10 m – diameter, 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)
  - Tooling 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in) diameter
  - Split bushing
  - Customer supplied bit sub
  - Five (5) pipe retainer
- Mast, 13 m – diameter, 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)
  - Tooling 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in) diameter
  - Split bushing
  - Customer supplied bit sub
  - Five (5) pipe retainer
- Mast, 16 m – diameter, 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in)
  - Tooling 194 mm (7<sup>5</sup>/<sub>8</sub> in) or 219 mm (8<sup>5</sup>/<sub>8</sub> in) diameter
  - Split bushing
  - Customer supplied bit sub
  - Four (4) pipe retainer

## Mandatory Attachments

### Top Sub/Shock Sub

- Top sub, rotary application
  - Standard for rotary application, DTH cannot use top sub
- Shock sub, dual application
  - DTH has to use shock sub, optional for rotary application
  - Shock sub with crossover sub, rotary or DTH

### Deck Wrench

- Deck wrench, with bit basket
- Deck wrench with hydraulically operated bit basket

### Drill Pipe Catcher

- Pipe catcher, fixed cable
- Pipe catcher, hydraulic drill function interlock

### UNDERCARRIAGE

- Undercarriage, 750 mm (29.53 in)
  - Undercarriage with full length rock guards and tram distance meter
  - 750 mm (29.53 in) triple grousers
  - Used for soft ground application
- Undercarriage, 600 mm (23.62 in)
  - Undercarriage with full length rock guards and tram distance meter
  - 600 mm (23.62 in) triple grousers
  - Used for hard ground application

### OPERATOR ENVIRONMENT

#### Control Group

- Standard (includes all parts listed under standard equipment)
- Deluxe (includes standard machine control group features) plus:
  - Auto leveling and retract
  - Automation/operator assist auto angle
- Ultra (includes deluxe control group features) plus:
  - Auto drilling, excluding pipe change
  - One-touch drilling is only applicable when using single pass drilling

### FUEL SYSTEMS

- Fast fill, full service, rotary
  - Full service center, fill and evacuation fuel, compressor, coolant, engine oil, hydraulic and gear box
  - 500 hours engine oil reserve system

### COOLING

- Climate, standard climate range
  - Ambient temperature range:  $-1^{\circ}\text{C}$  (30° F) to  $48^{\circ}\text{C}$  (118° F)
  - Cab cooling to  $19^{\circ}\text{C}$  (66° F)
  - Safety laminated tinted glass
- Hot climate
  - Ambient temperature range:  $-1^{\circ}\text{C}$  (30° F) to  $52^{\circ}\text{C}$  (126° F)
  - Cab cooling to  $19^{\circ}\text{C}$  (66° F)
  - Safety laminated tinted glass
  - Window shades
  - High temp hydraulic oil
  - High temp compressor oil

### DUST SUPPRESSION

- No dust suppression
- Water injection, 2324 L (614 gal)
  - One (1) tank with 1378 L (364 gal)
  - Two (2) tanks with 473 L (125 gal) each
  - Fast fill water system
  - Stainless steel plumbing
  - ECM control of water injection pump interlock
  - Water flow meter/current control and tank level

### STAIRS

- Frame, Standard
  - Includes basic mainframe and deck features plus:
    - Fixed stairs to main deck cab area, on cab side of frame
- Frame, Ultra
  - Includes basic mainframe and deck features plus:
    - Cascading, self-leveling stairs to main deck cab area
    - Stairs on cab side of the frame
    - Switched walkway lighting at ground and deck levels
    - Tram interlock if stairs are down

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## Optional Attachments

Optional attachments may vary. Consult your Cat dealer for details.

### MAST ACCESS LADDER

- Ladder to access mast, grating for maintenance inside mast
- Posts only for lanyard attachment to use with cable for traveling hook and harness
- Ladder, 10 m mast
- Ladder, 13 m mast
- Ladder, 16 m mast

### ROTARY APPLICATION

- Mast, 17.5 m
  - 342 cm (134.7 in) long bit sub to be used in place of 228.6 cm (90 in) long bit sub on 16 m rotary mast to attain 17.5 m (57.4 ft) single pass drill depth. Requires bit change below drill table.

### OPERATOR ENVIRONMENT

- Window Shades
  - Included in hot climate package
  - Optional for other climate packages

### ATTACHMENTS

- Dust suppression
- Hydraulic dust curtains
  - Fixed curtains on left and right sides
  - Auto raise hydraulic lifted curtains for rear and front
  - Includes ECM control tram interlock if dust curtains are not up

- Drill pipe
  - Drill pipe, 194 mm × 7.62 m (7<sup>5</sup>/<sub>8</sub> in × 25 ft)
    - 194 mm (7<sup>5</sup>/<sub>8</sub> in) diameter, 7.62 m (25 ft) long, 152 mm (6 in) BECO threads
    - For use with 16 m mast
  - Drill pipe, 194 mm × 7.62 m (7<sup>5</sup>/<sub>8</sub> in × 25 ft)
    - 219 mm (8<sup>5</sup>/<sub>8</sub> in) diameter, 7.62 m (25 ft) long, 152 mm (6 in) BECO threads
    - For use with 16 m mast
  - Drill pipe, 194 mm × 9.14 m (7<sup>5</sup>/<sub>8</sub> in × 30 ft)
    - 194 mm (7<sup>5</sup>/<sub>8</sub> in) diameter, 9.14 m (30 ft) long, 152 mm (6 in) BECO threads
    - Recommended for 13 m mast DTH starter steel
  - Drill pipe, 194 mm × 9.14 m (7<sup>5</sup>/<sub>8</sub> in × 30 ft)
    - 219 mm (8<sup>5</sup>/<sub>8</sub> in) diameter, 9.14 m (30 ft) long, 152 mm (6 in) BECO threads
    - Recommended for 13 m mast DTH starter steel
  - Drill pipe, 194 mm × 10.67 m (7<sup>5</sup>/<sub>8</sub> in × 35 ft)
    - 194 mm (7<sup>5</sup>/<sub>8</sub> in) diameter, 10.67 m (35 ft) long, 152 mm (6 in) BECO threads
    - For use with 10 m mast
  - Drill pipe, 194 mm × 10.67 m (7<sup>5</sup>/<sub>8</sub> in × 35 ft)
    - 219 mm (8<sup>5</sup>/<sub>8</sub> in) diameter, 10.67 m (35 ft) long, 152 mm (6 in) BECO threads
    - For use with 10 m mast
  - Drill pipe, 194 mm × 12.19 m (7<sup>5</sup>/<sub>8</sub> in × 40 ft)
    - 194 mm (7<sup>5</sup>/<sub>8</sub> in) diameter, 12.19 m (40 ft) long, 152 mm (6 in) BECO threads
    - For use with 13 m mast
- Drill pipe, 194 mm × 12.19 m (7<sup>5</sup>/<sub>8</sub> in × 40 ft)
  - 219 mm (8<sup>5</sup>/<sub>8</sub> in) diameter, 12.19 m (40 ft) long, 152 mm (6 in) BECO threads
  - For use with 13 m mast
- Clean
  - Blow down hose with nozzle
  - Clean with air
- Pump, wash down
  - Diesel powered wash down pump
  - High pressure water to clean the machine
- Dust control
  - Spray water on dirt when tramming starts
  - For use with water injection
- Winch control
  - Winch control, remote
    - Remote pendant winch control
- Platform
  - Tank platform, fire suppression
    - Holds up to three (3) of 113 kg (250 lb) tanks
- JIB crane
  - JIB crane, pedestal control
    - Mounted on drill deck
  - JIB crane, remote control
    - Radio remote control
- Start up commissioning
  - Factory service engineer on site for 12 working days to direct start-up and commissioning, and provide hands-on maintenance and operation training

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