

250XPC Rotary Blasthole Drill General Specifications



Working ranges

Hole diameter	200 mm to 311 mm	7 7/8 in. to 12 1/4 in.
Single pass mast		
Standard hole depth:	19.8 m	65 ft.
Maximum hole depth:	59.4 m	195 ft.
Multi-pass mast		
Standard hole depth:	73.1 m	240 ft.
Optional hole depth:	85.3 m	280 ft.
Maximum bit loading	40,823 kg	90,000 lbs.

Mast			
Construction	Lattice type using alloy steel structural shapes		
Single pass mast	19.8 m	65 ft.	
Multipass mast	12.2 m	40 ft.	
Raising and lowering	Two hydraulic cylinders	267 mm	10.5 in.
Standard diameter:			
Angle drilling	Up to 30° in 5° increments (only available with multipass mast)		

Pipe handling			
Type	Parallelogram style pipe rack, one rack is standard		
Single pass:	5 pipe rotary carousel for 73.1 m (240 ft.) total depth		
Multi-pass	6 pipe carousel for 85.3 m (280 ft.) total depth		
Pipe size	Diameter: 178 mm - 273 mm 7 in. - 10.75 in.		
Options	Additional pipe rack, up to two total 6 pipe carousel for 85.3 m (280 ft.) total depth		
Auxiliary equipment	Standard deck wrench		
Auxiliary winch	Capacity:	5,443 kg	12,000 lbs.
Breakout wrench	P&H brand SureWrench		

Lower/Propel			
Crawler type	Heavy-duty B-9 excavator type, Intertractor design		
Shoe width	902 mm (35.5 in.) width, double grousers		
Propel machinery	Dual hydrostatic planetary drive with spring set, hydraulic release brake, 149 kw (200 hp) per crawler, towing release		
Propel speed (maximum)	High:	3.06 kph	1.90 mph
	Low:	1.53 kph	.95 mph
Maximum grade	41%		
Take-up adjustment	High pressure grease gun for hydraulic tensioning cylinder		

Hydraulic System	
Main system	Closed loop design utilizing dual variable-displacement piston pumps for propel, rotary, and pulldown
Auxiliary system	Open loop design utilizing an axial piston pump for mast raising, machine leveling, and pipe handling
Control valves	Manifold mounted electro-hydraulic, PLC controlled 24V DC Solenoid
Hydraulic lines	Extensive use of high pressure steel tubing
Filtration	3-micron return filters, 5-micron high pressure filters, 3-micron charge filters, suction strainers

Electrical control systems
 GUI (Graphical User Interface):
 Standard touch screen including operating parameters
 Standard operator error protection systems available (over-temperature shut-downs, over-tilt protection, pipe rack interlock protection, pipe protection software, etc.)

Hoist/pulldown			
Design	Dual hydrostatic / direct drive chainless rack and pinion		
Bit loading (maximum)	40,823 kg	90,000 lbs.	
Drill feed rate	to	13.72 m/min	45 ft/min
Hoist rate	to	27.43 m/min	90 ft/min

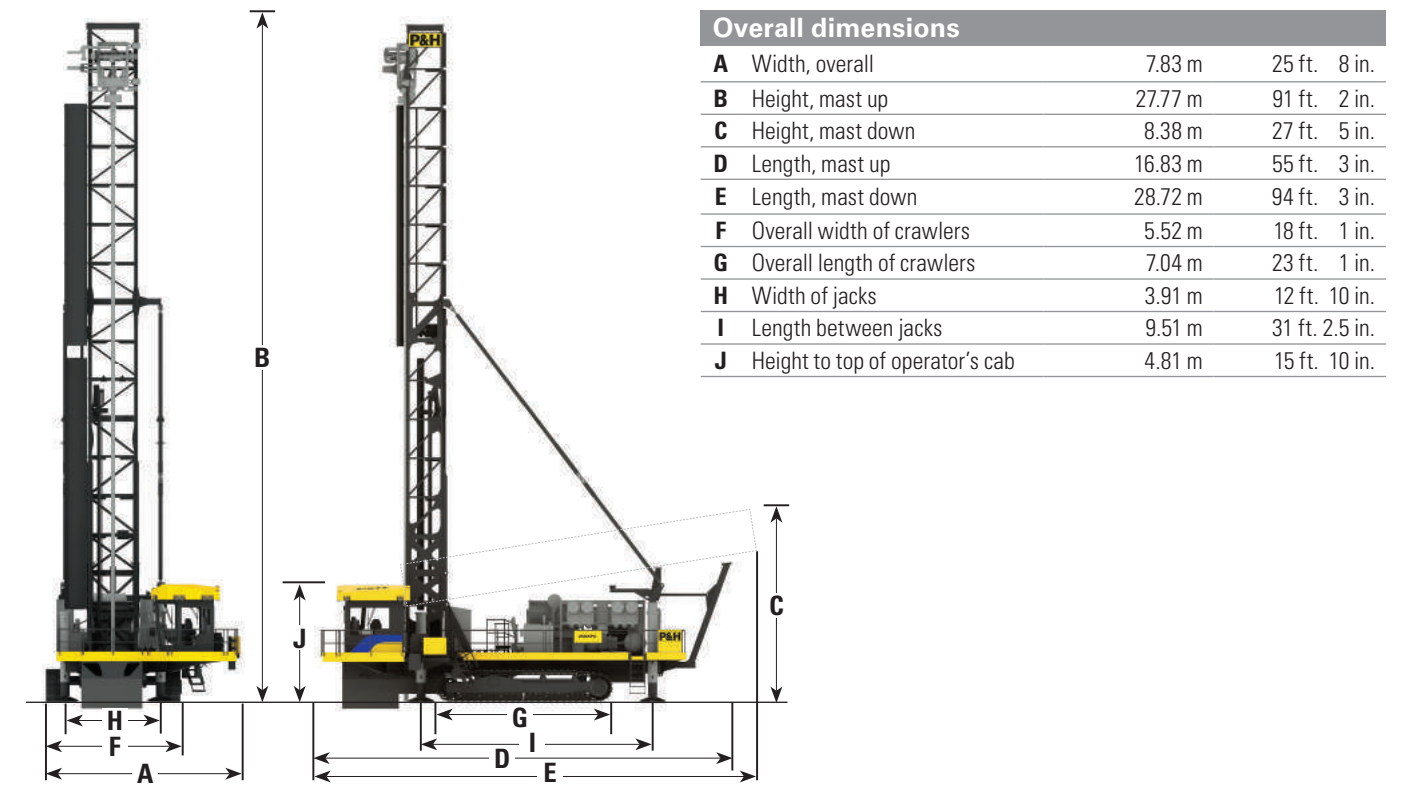
Rotary machinery	
Design	Dual hydrostatic / helical gear
Rotation speed	0-130 RPM
Maximum torque	Up to 15,356 Nm (11,326 ft.-lbs.) at 75 RPM

Air system			
Compressor Gardner-Denver SSY Series oil-flooded screw type			
Available volumes	Standard:	85 m³/min	3,000 cfm*
	Optional:	97 m³/min	3,450 cfm*
Operating Pressure	448 kPa		65 psi
Air filters	Dual Donaldson 2-stage, dry type		

*Nominal air volume. Actual values may vary according to application.

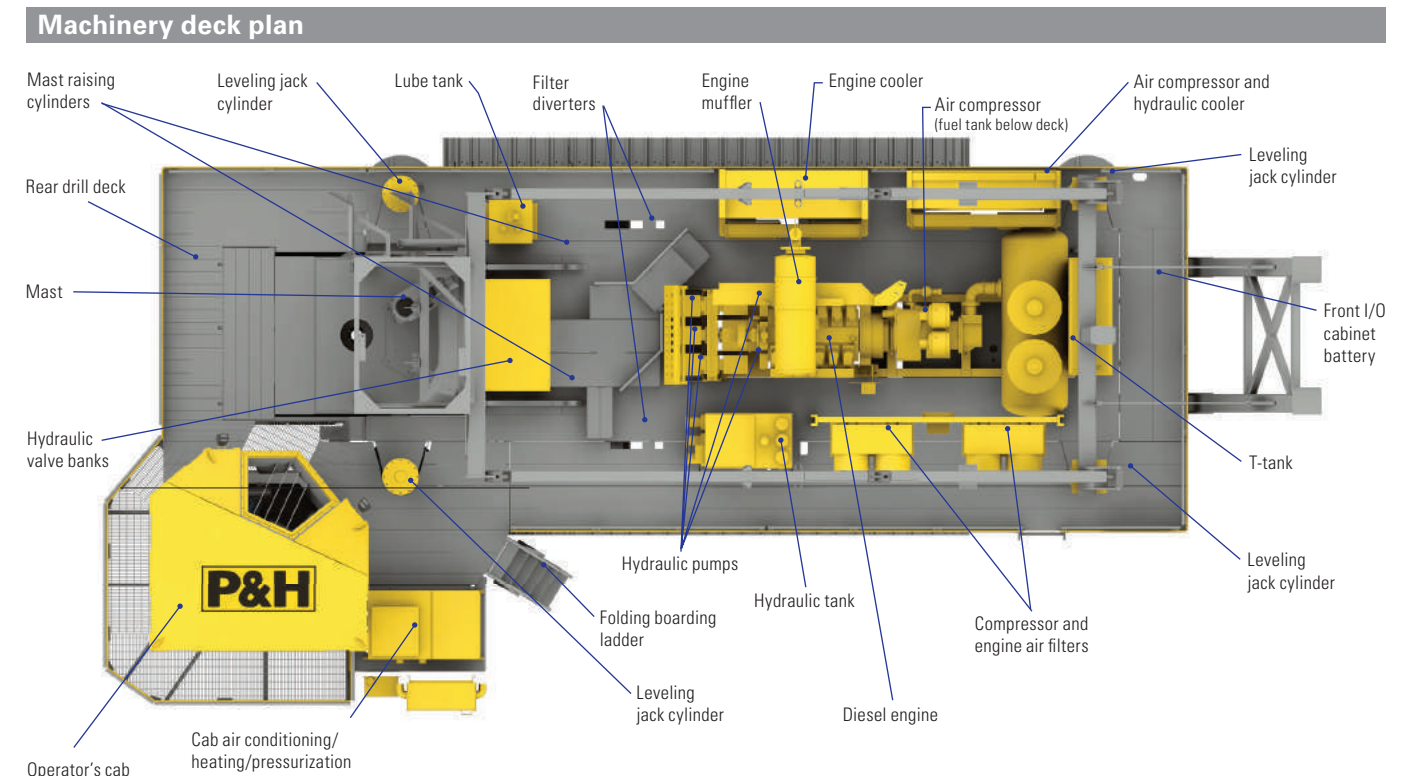
Power unit	
Diesel engine	
Power rating	Cummins QST 30
Standard:	783 kW (1,050 hp) @ 1800 rpm (Tier I/II)
	MTU/Detroit Series 4000
Optional:	1193 kW (1,600 hp) @ 1800 rpm (Tier I/II) (Used in high altitude applications)
Fuel Consumption*	113.5 L/hr (30 gal/hr)
Fuel Capacity	4,542 liters (1,200 U.S. gallons)
Air Filtration	Dual Donaldson Series, 2-stage dry type
Electrical System	24 volt DC, standard 260 Amp alternator

*Fuel consumption is approximate based on normal operating conditions.



Overall dimensions			
A	Width, overall	7.83 m	25 ft. 8 in.
B	Height, mast up	27.77 m	91 ft. 2 in.
C	Height, mast down	8.38 m	27 ft. 5 in.
D	Length, mast up	16.83 m	55 ft. 3 in.
E	Length, mast down	28.72 m	94 ft. 3 in.
F	Overall width of crawlers	5.52 m	18 ft. 1 in.
G	Overall length of crawlers	7.04 m	23 ft. 1 in.
H	Width of jacks	3.91 m	12 ft. 10 in.
I	Length between jacks	9.51 m	31 ft. 2.5 in.
J	Height to top of operator's cab	4.81 m	15 ft. 10 in.

Weights – approximate			
Operating weight (maximum)		142,882 kg	315,000 lbs.
Shipping weight with mast		124,738 kg	275,000 lbs.
Ground bearing pressure for track pads		127 kPa	18.4 psi
Ground bearing pressure for jacks		765 kPa	111 psi



Leveling jacks

Cylinders	Four (4) 203 mm (8 in.) diameter x 1,676 mm (66 in.) stroke		
Jack pads			Ground Pressure
	Diameter: 762 mm (30 in.)	765 kPa	111 psi
Auto level	Standard feature		

Lighting

Standard: LED floodlights for work and area lighting

Operator's cab

Type	Rear mounted with vibration and noise suppression
FOPS rating	Level II
Noise	< 80 dB while drilling
Controls	PLC controlled, backlit for night operation
Glazing	Shatter-resistant, laminated glass on all sides, roof window with guard
Climate control	Bergstrom* HVAC unit providing pressurization and filtration

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Optional equipment

- Bit lubrication
- Cold weather package
- Fire suppression
- High altitude package
- Remote propel control
- Wiggins 'Fastfil'* system

Drill consumables

- Drill pipe
- Top and bottom subs
- Shock subs
- Stabilizers
- Deck bushings

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