

285XPC

Rotary Blasthole Drill

General Specifications



Working ranges

| | | |
|----------------------|---------------------|----------------------|
| Hole diameter | 229 mm to 349 mm | 9 in. to 13 ¾ in. |
| Single pass mast | | |
| Standard hole depth: | 19.8 m | 65 ft. |
| Maximum hole depth: | 59.4 m | 195 ft. |
| Maximum bit loading | 53,524 kg | 118,000 lbs. |

Mast

| | | | |
|----------------------|--------------------------------------------------|--------|----------|
| Construction | Lattice type using alloy steel structural shapes | | |
| Single pass mast | 19.8 m | 65 ft. | |
| Raising and lowering | Two hydraulic cylinders diameter: | 267 mm | 10.5 in. |

Pipe handling

| | | | |
|---------------------|-----------------------------------------------------|----------|-------------|
| Type | Parallelogram style pipe rack, one rack is standard | | |
| Pipe size | Diameter: 178 mm - 273 mm 7 in. - 10.75 in. | | |
| Options | Additional pipe rack, up to two total | | |
| 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) | 53,524 kg | 118,000 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 17,626 Nm (13,000 ft.-lbs.) at 65 RPM | | |

Air system

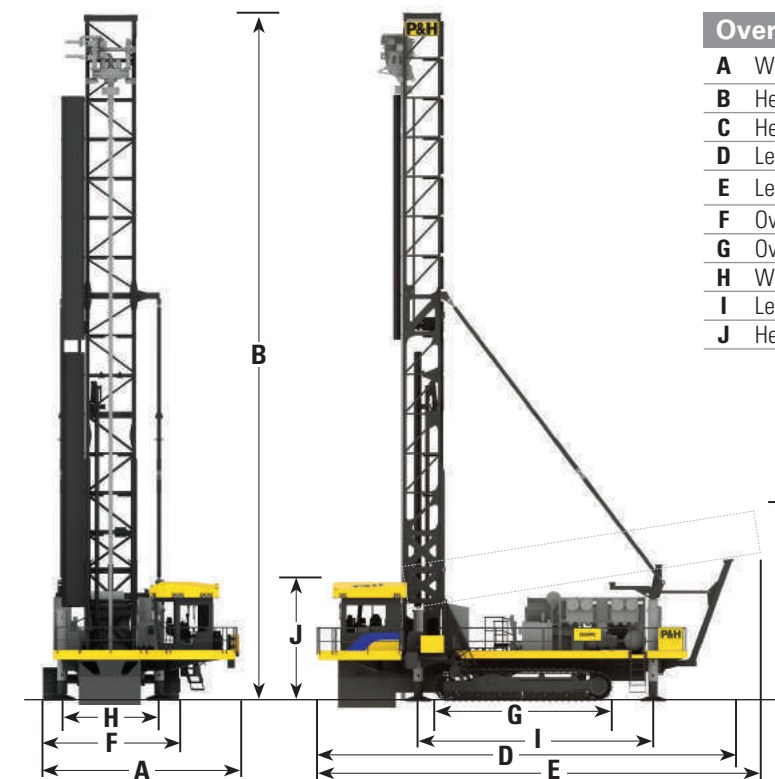
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|--------------------|--------------------------------------------------|------------------------|------------|
| Compressor | Gardner-Denver SSY series oil-flooded screw type | | |
| Available volumes | Standard: | 97 m ³ /min | 3,450 cfm* |
| Operating 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 | 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.



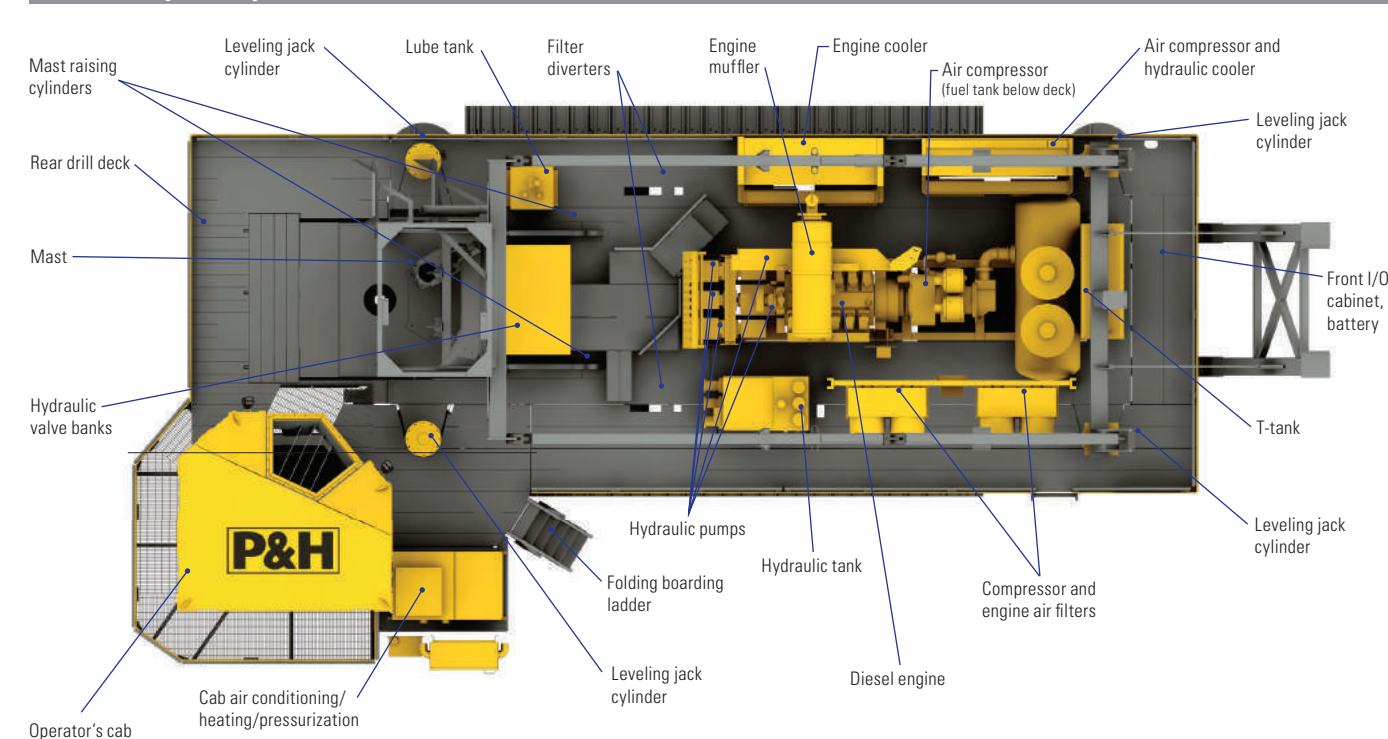
Overall dimensions

| | | |
|------------------------------------------|---------|----------------|
| 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) | 146,510 kg | 323,000 lbs. |
| Shipping weight with mast | 128,367 kg | 283,000 lbs. |
| Ground bearing pressure for track pads | 129 kPa | 18.8 psi |
| Ground bearing pressure for jacks | 787 kPa | 114 psi |

Machinery deck plan



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.) | 787 kPa | 114 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 |

*Bergstrom, Wiggins and Fastfil trademarks are property of their respective owners.

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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