This drill provides up to 118,000 lb (53,524 kg) of bit loading and was specifically designed for 270 to 349 mm diameter hole needs in copper, iron ore and other hard rock mines around the world.

### Working ranges

<table>
<thead>
<tr>
<th>Hole diameter</th>
<th>Single pass mast Standard hole depth:</th>
<th>Maximum bit loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>270 mm to 349 mm</td>
<td>19.8 m 59.4 m</td>
<td>53, 524 kg</td>
</tr>
<tr>
<td>10 ¼ in to 13 ¾ in</td>
<td>65 ft 195 ft</td>
<td>118,000 lb</td>
</tr>
</tbody>
</table>
General specifications

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)
- Bit loading (maximum): 53,524 kg (118,000 lb)
- Hoist rate: 27.43 m/min (90 ft/min)
- 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 lb)
- Auxiliary winch

Power unit:
- Diesel engine:
  - Power rating: Standard: 783 kW (1,050 hp) @ 1,800 rpm (Tier III)
  - Optional: 1,193 kW (1,600 hp) @ 1,800 rpm (Tier III)
- Fuel consumption*: 146.510 kg (323,000 lb)
- Fuel capacity: 4,542 liters (1,200 US 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.

Hydraulic system:
- Main system:
  - Closed loop design utilizing dual variable-displacement piston pumps for propel, rotary, and pulldown
  - Open loop design utilizing an axial piston pump for mast raising, machine leveling, and pipe handling
- Auxilary valves:
  - Manifold mounted electro-hydraulic, PLC controlled 24V DC Solenoid
- Hydraulic lines:
  - Extensive use of high pressure steel tubing
  - 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 shutdowns, over-tilt protection, pipe rack interlock protection, pipe protection software, etc.)

Air system:
- Compressor:
  - Gardner Denver SSY series oil-flooded screw type
  - Available volumes: Standard: 97 m³/min (3,450 cfm)
  - Operating pressure: 448 kPa (65 psi)
- Air filtration:
  - Dual Donaldson 2-stage, dry type

Aerospace:
- Operating pressure: 448 kPa (65 psi)
- Take-up adjustment:
  - High pressure greese gun for hydraulic cylinder

Machinery deck plan
- • Diesel engine
- • Front I/O cabinet, battery
- • Engine air filters
- • Air compressor and engine air filters
- • Air compressor (fuel tank below deck)
- • Hydraulic with engine air filters
- • Hydraulic valves

Overall dimensions:
- A. Overall dimensions:
  - Width, overall: 7.83 m (25 ft 8 in)
  - Height, mast up: 27.77 m (91 ft 2 in)
  - Height, mast down: 8.38 m (27 ft 9 in)
  - Length, mast up: 16.83 m (55 ft 3 in)
  - Length, mast down: 28.72 m (94 ft 3 in)
  - Overall width of crawlers: 5.52 m (18 ft 3 in)
- B. Overall length of crawlers: 7.04 m (23 ft 3 in)
- C. Width of jacks: 9.97 m (33 ft 10 in)
- D. Length between jacks: 9.51 m (31 ft 2.5 in)
- E. Height to top of operator’s cab: 4.81 m (15 ft 11 in)

Weights – approximate:
- Operating weight (maximum): 146,510 kg (323,000 lb)
- Shipping weight with mast: 128,367 kg (283,000 lb)
- Ground bearing pressure for track pads: 129 kPa (18.8 psi)
- Ground bearing pressure for jacks: 787 kPa (114 psi)
### Leveling jacks

<table>
<thead>
<tr>
<th>Cylinders</th>
<th>Four (4) 203 mm (8 in) diameter x 1,676 mm (66 in) stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack pads</td>
<td>Ground Pressure</td>
</tr>
<tr>
<td>Diameter</td>
<td>762 mm (30 in)</td>
</tr>
<tr>
<td></td>
<td>787 kPa</td>
</tr>
<tr>
<td></td>
<td>114 psi</td>
</tr>
</tbody>
</table>

### Auto level

<table>
<thead>
<tr>
<th>Standard feature</th>
<th>Ground Pressure</th>
</tr>
</thead>
</table>

### Operator's cab

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

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

### Lighting

| Standard feature           | LED floodlights for work and area lighting                |

### Optional equipment

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

### Drill consumable

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

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