Featuring intelligent compressor control and auto-bit handling, this machine can be configured for rotary or DTH drilling, diesel or electric power, and single- or multi-pass drilling.

### Working ranges

<table>
<thead>
<tr>
<th>Hole diameter</th>
<th>Maximum single pass</th>
<th>Maximum multi-pass</th>
<th>Maximum bit loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 mm to 270 mm</td>
<td>16.8 m</td>
<td>85 m</td>
<td>34,925 kg</td>
</tr>
<tr>
<td>7 7/8 in to 10 5/8 in</td>
<td>55 ft</td>
<td>280 ft</td>
<td>77,000 lb</td>
</tr>
</tbody>
</table>
General specifications

Mast/tower
Mast construction Structural plate steel
Mast raising cylinders Hydraulic (2x)
Carraige/rotary head travel 19.1 m 62.5 ft
Maximum bit loading 34,925 kg 77,000 lb
Mast length 22.9 m 75.0 ft
Mast width 1.0 m 38.4 in
Mast depth 1.0 m 38.5 in
Angle drilling (option) 0.30° 5° increments

Pile handling
Type Single-pass: 2 pipe carousel for 33.5 m (110 ft) total depth
Multi-pass: Up to 6 pipe rotary carousel 85 m (280 ft) total depth
Pipe size

<table>
<thead>
<tr>
<th>Carousel capacity</th>
<th>Diameter</th>
<th>Maximum depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>219 mm</td>
<td>88 % in or less 61 m 200 ft</td>
</tr>
<tr>
<td>5</td>
<td>219 mm</td>
<td>88 % in or less 73 m 240 ft</td>
</tr>
<tr>
<td>6</td>
<td>104 mm</td>
<td>7 % in or less 85 m 280 ft</td>
</tr>
</tbody>
</table>

Options
Ability to handle 25 ft pipe

Air system
Compressor type Rotary screw, oil floaated
Standard output 56.6 m³/min 2,200 cfm
Operating pressure 8.89 bar 125 psi
Optional output 8.89 bar 125 psi
DTH output (standard) 42.5 m³/min @ 24.13 bar 1,500 cfm @ 305 psi
DTH output (option) 42.5 m³/min @ 34.50 bar 1,500 cfm @ 500 psi
Compressor control Electrically actuated, CANbus

Fluids/maintenance
Fuel tank capacity (standard) 1,514 liters 400 gallons
Fuel tank capacity (optional) 2,366 liters 625 gallons
Water tank capacity (standard) 1,514 liters 400 gallons
Water tank capacity (option) 1,136 liters 300 gallons
DGL tank capacity 68 liters 18 gallons
Ground level battery and starter isolation
Quick fluid service system (fuel, hydraulic, engine oil, coolant, compressor oil, grease and water) at ground level
Live oil sampling

DTH drilling
• Up to 203 mm (8 in) Diameter down-the-hole hammer with 229 mm (9 in) maximum bit diameter

Feeding
Pipe handling
Type Rack and piece
Pulldown force 302 kN 67,900 lbf
Hoisting force 302 kN 67,900 lbf
Carriage speed (maximum) 0 to 40.0 m/min 0 to 131.5 ft/min
Motor type (hydraulic) Variable displacement axial piston with integral brake

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Power unit
DIN EN 15695 level cab filtration
• FOPS level II
• Reduction gear, T4 and T4
• Power rating 783 kW 1,050 hp
• Electric option ≥3-phase alternating current 6.3 kV
Secondary voltage (≥24, 12)

Lower works and propel
Crawler type BB excavator type
Motor type Two-speed, variable displacement piston
Low propel speed 0.186 mph 0.301 mph
High propel speed 0.312 mph 0.524 mph
Travel stability rear up, drill string engaged 15° (25%) Travel stability front up, drill string engaged 15° (25%)
Shoe/track pad width (standard) 750 mm 29.5 in
Shoe/track pad width (option) 900 mm 35.4 in
Ground pressure with standard shoe 126 kpa 18.3 psi

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Overall dimensions

<table>
<thead>
<tr>
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<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width, overall</td>
<td>5.43 m 17 ft 10 in</td>
</tr>
<tr>
<td>Height, mast up</td>
<td>24.5 m 80 ft 5 in</td>
</tr>
<tr>
<td>Height, mast down</td>
<td>7.9 m 26 ft 0 in</td>
</tr>
<tr>
<td>Length, mast up</td>
<td>13.1 m 43 ft 0 in</td>
</tr>
<tr>
<td>Length, mast down</td>
<td>24.0 m 78 ft 9 in</td>
</tr>
<tr>
<td>Length, mast down -- Multi-pass</td>
<td>10.95 m 35 ft 7 in</td>
</tr>
<tr>
<td>Overall length of crawlers</td>
<td>4.12 m 13 ft 9 in</td>
</tr>
<tr>
<td>Overall length of crawlers</td>
<td>7.02 m 23 ft 0 in</td>
</tr>
<tr>
<td>Width of non-drill and jacks</td>
<td>1.4 m 4 ft 7 in</td>
</tr>
<tr>
<td>Length of drill jacks</td>
<td>2.8 m 9 ft 1 in</td>
</tr>
<tr>
<td>Length between jacks</td>
<td>7.14 m 23 ft 5 in</td>
</tr>
<tr>
<td>Height to top of operators cab</td>
<td>4.36 m 14 ft 4 in</td>
</tr>
</tbody>
</table>

General features
Operators cab
• Air suspended operators seat
• DIN EN 15695 level cab filtration
• FOPS level II
• HVAC with pressurizer
• Interior and exterior LED lighting
• Refrigerator
• Sound level rating of 82 dB(A) or less
• Trainer/buddy seat
• Window tint
Lighting
• LED lighting
Draping system
• Boarding stairs
Lubrication
• Automatic lubrication (machinery)
• Centralized lubrication
### Operators cab
- Window shades
- Window wipers
- Walk around cab access
- Microwave
- Storage locker
- AM/FM/WB/USB/iPod/iPhone/Satellite radio
- Deluxe trainer’s seat

### Lubrication
- Centralized fluid drains
- Preheat system (auto lube)
- Extended maintenance interval filtration
- Bit lubrication
- Hammer lubrication
- Auto lubrication system

### Compliance
- MDG, AU compliant
- EU compliant
- Russian compliant

### Drill deck
- Boarding ramp (main access only)
- Auxiliary power unit (APU)
- Preheat system (for APU)
- Radio remote control (propel and leveling)
- Mast access platform
- Cold weather package
- Tool kit, drilling tools
- Tool kit, maintenance
- Storage locker/job box
- Machinery area enclosure
- Engine cover, rain guard
- Additional sound suppression
- Pressure washer
- Deck crane option

### Drill automation
- High precision GPS navigation
- Single- and multi-machine tele-remote control
- Auto hole-to-hole navigation
- Obstacle detection and mitigation
- Hawkeye 360° camera system
- Auto pipe handling
- Auto mast positioning
- Auto dust suppression
- Adaptive auto level
- Enhanced auto drill
- Stratification modeling
- Data interface compatible
- Auto bit changer

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