Leopard DI650i is a diesel powered, self-contained crawler mounted intelligent down-the-hole drill rig designed for demanding high-capacity production drilling applications in surface mining, as well as large-scale quarry applications. The drill is equipped with an operator’s cabin, fixed boom, dry dust collector, drill pipe changer and incorporates a state-of-art design and layout.

**KEY FEATURES**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hole diameter</td>
<td>115 - 203 mm (4½” – 8”)</td>
</tr>
<tr>
<td>Drill pipes</td>
<td>89, 102, 114, 127 and 140mm* (3½”, 4”, 4½”, 5” and 5 ½”)</td>
</tr>
<tr>
<td>DTH-Hammer</td>
<td>4”, 5”, 6” (optimum size)</td>
</tr>
<tr>
<td>Engine output</td>
<td>403 kW/1800 rpm (Tier 3)</td>
</tr>
<tr>
<td>Air delivery</td>
<td>28,3 m³/min (1000cfm) working pressure up to 30 bar (435 psi)</td>
</tr>
<tr>
<td>Production capacity</td>
<td>2.1 Mt/a, one shift operation</td>
</tr>
<tr>
<td>Total weight</td>
<td>25,100 kg (55,336 lb) dry weight</td>
</tr>
</tbody>
</table>

*with MRH6 option
STANDARD COMPONENTS

- Rotary head HTRH6
- Chain feed
- Pipe changer, carousel type
- Fixed boom
- Cabin iCAB
- Carrier, track mounted
- Powerpack, diesel driven, hydraulic pumps and onboard compressor
- Dust collector X-200
- Hydraulic system, load sensing
- Control system, PLC controlled proportional electro- hydraulics
- Working lights, 9 pcs
- Service lights in engine compartment, 5pcs
- 1 Set Manuals, paper copy
- 1 Set Manuals, USB memory

SELECTION OF OPTIONS

- Alternative seat with 3-point seat belt and air cushioning
- H13 Cabin filter, HEPA
- Cooler bag in cabin
- Radio CD/MP3 Bluetooth, Handsfree, DAB
- Radio with CD-MP3 player
- Reversing camera
- Roller blinds for cabin windows
- Explosion proof cabin window
- Heated mirrors
- Emergency glass breaker hammer (additional outside of the cabin)
- Kit for alternative pipes, each
- Service winch (requires remote control-, or full-radio option)
- Thread greasing
- Full cycle one hole automatic drilling
- Compressor flow control system
- MRH6 HD Rotation head, up to 203mm hole size and 140mm drill pipes
- Central lubrication system Lincoln
- Central lubrication system Sandvik
- Electric fuel filling pump
- Electric hydraulic oil filling pump
- Fast fill connection for engine coolant, hydraulic and engine
- Fast fill connection for fuel Wiggins
- Fluid service fill safety lock out
- Fire suppression system Sandvik Eclipse, automatic
- Fire suppression Ansul (hybrid), automatic
- Guides for grousers
- Hydraulic rear ground support
- Pressure washer (requires water injection option)
- Radio remote control for service winch
- Full-radio remote for tramming, drilling and service winch
- Led lights, 9 pcs
- Led lights 15 pcs.
- Disengagement clutch for compressor, manual
- Extra heat protection for exhaust gas muffler
- Fuel powered engine heater, extra large
- Jump start device (high current el. socket)
- Dustmizer (requires water injection)
- Dust collector noise silencer
- Water injection system
- Extra manuals, price will be added according to pricing sheet
- Drill bit opening device for 4 1/2" - 5 1/8" drill bits
- Drill bit opening device for 6" - 8" drill bits
- TIMi for inclined holes and hole depth measurement
- GPS aiming device for TIMi inclined holes
- Automatic feed alignment for TIMi
- TIMi for inclined holes with TIM3D readiness (Leica/Trimble)
- Feed to tramming support assist (requires TIM3D-readiness or TIM3D)
- TIM3D drill navigation system (Leica / Trimble)
- Automatic feed alignment and positioning for TIM3D
- Driller's Office planning software (one-year license)
- SanRemo Gold fleet data transfer (Quake 2G/3G GSM / SAT Modem)
- SanRemo Premium wireless data transfer for TIM3D (Quake 2G / 3G)
- Extended warranty service up to 36 months / 5000 engine hours
- Extended warranty service up to 48 months / 7000 engine hours

THE JAWS FOR DRILL STEELS

<table>
<thead>
<tr>
<th>DRILL STEEL TYPE</th>
<th>DRILL STEEL DIAMETER</th>
<th>RECOMMENDED HOELE DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipes</td>
<td>89 mm</td>
<td>115 - 127 mm, 4½&quot; - 5&quot;</td>
</tr>
<tr>
<td>Pipes</td>
<td>102/114 mm</td>
<td>140 - 172 mm, 5 ½&quot; - 6 ¾&quot;</td>
</tr>
<tr>
<td>Pipes</td>
<td>127/140 mm</td>
<td>152-203 mm, 6&quot; - 8&quot;</td>
</tr>
</tbody>
</table>
### DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>25,100 kg (55,336 lbs) dry weight</td>
</tr>
<tr>
<td>Width</td>
<td>3.00 m (9.8 ft)</td>
</tr>
<tr>
<td>Height</td>
<td>a, 3.5/4.2 m (11.5/13.8 ft), transportation/on site operation</td>
</tr>
<tr>
<td>Total length</td>
<td>c, 12.4 m (40.7 ft)</td>
</tr>
</tbody>
</table>

Sandvik Mining and Rock Technology reserves the right to make changes to the information on this data sheet without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.

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