Leopard DI650i T3 SURFACE DRILLS

TECHNICAL SPECIFICATION

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</td>
</tr>
<tr>
<td></td>
<td>(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)</td>
</tr>
<tr>
<td></td>
<td>working pressure up to 30 bar</td>
</tr>
<tr>
<td></td>
<td>(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</td>
</tr>
</tbody>
</table>

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.
STANDARD COMPONENTS

Rotary head HTRH6

Chain feed

Pipe changer, indexing carousel type

Fixed boom

Cabin iCAB

Carrier, track mounted

Powerpack, diesel driven, hydraulic pumps and onboard compressor

Dust collector X-200

Hydraulic system, electric load sensing

Control system, PLC controlled proportional electro-hydraulics

Working lights, 9 pcs

Service lights in engine compartment, 5 pcs

1 Set Manuals, paper copy

1 Set Manuals, CD rom

THE JAWS FOR DRILL STEELS

<table>
<thead>
<tr>
<th>DRILL STEEL TYPE</th>
<th>DRILL STEEL DIAMETER</th>
<th>RECOMMENDED HOLE DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipes</td>
<td>89 mm</td>
<td>115 - 127 mm 1 1/2&quot; - 5&quot;</td>
</tr>
<tr>
<td>Pipes</td>
<td>102/114 mm</td>
<td>140 - 172 mm 5 1/2&quot; - 6 3/4&quot;</td>
</tr>
<tr>
<td>Pipes</td>
<td>127/140 mm</td>
<td>152-203 mm 6&quot; - 8&quot;</td>
</tr>
</tbody>
</table>

SELECTION OF OPTIONS

Alternative seat with 3-point seat belt and air cushioning

H13 Cabin filter, HEPA

Cooler bag in cabin

Radio, 12V, CD, USB, Bluetooth and siriusXM interface

Radio CD/MP3 Bluetooth, Handsfree, DAB

Radio with CD-MP3 player

Reversing camera, RH side view and transportation support camera

Roller blinds for cabin windows

Explosive proof cabin window and floor

Heated mirrors

Single person anchorage

Emergency glass breaker hammer (additional outside of the cabin installation)

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

Feed to tramming support assist (requires 3D-readiness or TIM3D)

TIM3D drill navigation system

Automatic feed alignment and positioning for TIM3D

Driller’s Office planning software (one-year license)

Connectivity 2G GSM / SAT package for MySandvik and SanRemo

SanRemo Premium wireless data transfer for TIM3D

Kit for alternative pipes, each

Drill pipe tool (requires remote control-, or full-radio option)

Thread greasing

Full cycle one hole drilling automatics

Compressor flow control system

MRH6 HD Rotation head, up to 203mm hole size

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 oils

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 drill pipe tool

Full-radio remote for tramming, drilling and pipe tool

Led lights, 9 pcs

Led lights, 15 pcs

Disengagement clutch for compressor, manual

Extra heat protection for exhaust gas muffler and piping

Fuel powered engine heater, extra large

Jump start device (high current el. socket)

Readiness for extra large fuel powered heater

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 1 1/2" - 5 1/8", or 6" - 8" drill bits
COVERAGE AREA AND DIMENSIONS

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>25 100 kg (55,336 lb) (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.

ROCKTECHNOLOGY.SANDVIK