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**Leopard DI650i T3
(Surface Drill)**



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Sandvik Leopard DI650i T3 Surface Drill Rig

Smart Drilling | Precision Blasting | Built for High-Performance Production

Location: Benoni

Overview

- **Model:** Sandvik Leopard DI650i T3
- **Type:** Crawler-Mounted Down-the-Hole (DTH) Drill Rig
- **Application:** Surface mining, large-scale quarrying, and construction drilling
- **Known For:** Automation-ready, fuel efficiency, and operator comfort
- **Year:** 2019
- **Hours:** 7,290

Why Choose the Leopard DI650i T3?

- High penetration rates with excellent accuracy
- Lower fuel consumption per meter drilled
- Automation-ready for modern mining fleets
- Easy service access and modular components
- Designed for productivity, reliability, and comfort

Finance available on this machine. Contact our expert team today.



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Performance Features

- Intelligent control with **iTorque drilling control system**
- **Advanced compressor management** for lower fuel consumption
- **Modular boom and feed design** for maintenance ease
- Intuitive **touchscreen user interface** and onboard diagnostics
- **High-quality Sandvik DTH hammer compatibility**

Operator Comfort & Safety

- Large ROPS/FOPS-certified cabin with ergonomic controls
- Pressurized cab with excellent visibility
- Climate control, touchscreen panels, camera systems
- Fully adjustable seating with reduced noise and vibration levels
- Optional satellite connectivity for remote monitoring and diagnostics

The Leopard DI650i T3 is a high-performance, heavy-duty drill rig designed for tough conditions. It features an advanced hydraulic system for efficient drilling, powerful engine performance, and a user-friendly interface. Ideal for quarrying, mining, and construction projects, it delivers maximum productivity with reduced fuel consumption and maintenance costs, making it a reliable and cost-effective solution for demanding applications.





Travel System

- Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released. The travel motor, brake and planetary gears are well protected within the track frame.

Max. drawbar pull	kN	565
Max. travel speed (Low)	km/h	2.8
Max. travel speed (High)	km/h	4.4
Gradeability	°	33

Service Refill

Fuel tank		1 265
Hydraulic system, total		900
Hydraulic tank		460
Engine oil		55
Engine coolant		72
Slew reduction unit		2 x 6.5
Travel reduction unit		2 x 25
PTO gear box		1 x 7.5

Hydraulic System

- The new electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for high-productivity, high-digging capacity and excellent fuel economy. The summation system, boom, arm and swing priority along with boom, arm and bucket regeneration provides optimum performance.
- The following important functions are included in the system:
- Summation system: Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.
- Boom priority: Gives priority to the boom operation for faster raising when loading or performing deep excavations.
- Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.
- Swing priority: Gives priority to swing functions for faster simultaneous operations.
- Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.
- Holding valves: Boom and arm holding valves prevent the digging equipment from creeping.

Main pump. Type 3 x variable displacement axial pumps

Maximum flow l/min 2 x 515; 1 x 147

Pilot pump. Type Gear pump

Maximum flow l/min 1 x 42

Relief value setting pressure

Implement	MPa	34.3
Travel circuit	MPa	34.3
Slew circuit	MPa	28.4
Pilot circuit	MPa	3.9



Hydraulic Cylinders

Mono boom	∅ x mm	2
Bore x Stroke		215 x 1 930
Arm	∅ x mm	1
Bore x Stroke		240 x 2 180
Bucket	∅ x mm	1
Bore x Stroke		200 x 1 500
ME Bucket	∅ x mm	1
Bore x Stroke		230 x 1500

Hydraulic Motors

- Travel: Variable displacement axial piston motor with mechanical brake
- Slew: Fixed displacement axial piston motor with mechanical brake

CAB

- The operator's cab has easy access via a wide door opening.
- The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels.
- The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door.
- Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically-controlled fan. The air is distributed throughout the cab from 14 vents.
- Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has 12 different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level

Sound level in cab according to ISO 6396		
LpA	dB	74
External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009		
LWA	dB	111

Recent Maintenance & Upgrades

Engine:

- Caterpillar C15 (Tier 3)
- Fully rebuilt — *Dyno test report available*

Cooling System:

- All coolers professionally reconditioned

Rotary Head:

- Model: HTRH6
- Fully rebuilt with new hydraulic motors
- Comes with **2,000-hour or 3-month warranty**
- New guides and chain idler fitted

Pipe Graber:

- Two brand new encoders installed and calibrated

Compressor:

- All compressor valves reconditioned to **OEM specification**

PLC & Controls:

- Full operating system (PLC) **software update completed**







Extinguishing
system release



SANDVIK
LEOPARD
DI 650i





ASSET FINANCE CORPORATION

Office - 011 467 2990

(Sales & Finance) Mkhize Buso - 084 332 2464

(Technical) John Young - 082 777 1536

(Sales & Finance) Louis Lizemore - 066 243 2682

info@assetfincorp.co.za www.assetfincorp.co.za