

The Cat MD6250 blasthole drill was launched by Caterpillar in early 2017



BARLOWORLD EQUIPMENT

Launches autonomy ready CAT mining drill

Caterpillar’s latest blasthole drill, the Cat MD6250, offers lower ownership costs and improved drilling efficiency through rugged design and integrated auto technology.

The drill will be available to southern African customers through Barloworld Equipment, Caterpillar’s mining and earthmoving equipment dealer.

Ramon Glaus, product manager for Cat drills at Barloworld Equipment, says the Cat MD6250 will be formally launched locally in early 2018. “We have waited a long time for this, the first full Cat drill with integrated Caterpillar technology. We will now be able to offer our customers the total solution, including the first steps to fully autonomous drilling.”

Barloworld Equipment and Caterpillar are celebrating 90 years in partnership in 2017 and Barloworld has been servicing and supporting drills for many years.

The Cat MD6250 blasthole drill, launched by Caterpillar in early 2017, delivers optimum drilling efficiency in single and



The MD6250 offers various standard and optional auto drilling features for drill pattern and depth accuracy

multi-pass applications for both rotary and down-the-hole (DTH) drilling. Featuring standard automatic operation, the drill runs within ideal operating parameters for maximum bit life and reduced total cost of ownership.

The mainframe's sculpted design boasts heavy cross-bracing in high-load areas for maximum machine longevity, while the tubular box section provides optimum structural rigidity. The machine's four levelling jacks, mast pivot and deck are all welded integrally to the mainframe for maximum durability and long life.

The MD6250 is application-built for efficient drilling. With mast heights of 11.2 m or 13.7 m, it is ideal for single pass drilling down to 10 m and 12 m benches. A carousel pipe rack for multi-pass drilling and a 30-degree angle hole package for cast blasting make it ideal for numerous mining applications.

A true global machine, it is EU compliant, GOST certifiable, AUS compliant, CSA certified, MDG15 and MDG41 aligned, and meets Tier 2 and Tier 4 Final emissions standards.

Efficient hard and soft rock drilling

Offering superior performance in DTH and rotary for soft, medium, hard and extremely hard rock applications, the flexible MD6250 drills hole diameters reaching 152 – 250 mm with bit loads of 22,321 kg and 32,655 kg respectively for the 11.2 m and 13.7 m mast configurations. The drill delivers single-pass hole depths of 11.2 m and 13.7 m, and the 11.2 m mast is capable of drilling multi-pass hole depths reaching 53.6 m, while the 13.7 m mast drills multi-pass depths of up to 37.9 m.

Highly maneuverable and flexible, the MD6250 features angle drilling from 0° to 30° degrees in 5° degree increments. It has an approach angle of 15° for easy ramp access and loading.

Featuring the Cat 336E EL undercarriage, the versatile drill can be equipped with either 600 mm triple grousers for hard rock applications or 750 mm triple grousers for working in soft rock. Three-point oscillating suspension allows the machine to negotiate rugged terrain without transferring excessive torsional forces to the main frame.

High powered performance

The Cat MD6250 drill's power train features the Cat C27 ACERT engine with a 652 kW power rating at 1 800 rpm in its Tier 2 configuration and 655 kW rating in its Tier 4 Final configuration. The compressor arrangements feature variable air control that can be adjusted to 50 percent less



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volume to meet application requirements and increase fuel efficiency. The 500 hour engine and air intake filter service intervals help to reduce long term operating costs.

Built for drilling in a variety of extremes, the MD6250 delivers reliable operation at elevations as high as 4 750 m. Standard ambient temperature operation ranges from -1° C to 52° C, while arctic temperature packages enable working in subzero temperatures reaching -40° C.

To meet site needs, the new drill can be equipped with a variety of compressors, all with variable volume control. For DTH drilling, operations have compressor choices of 38.2 m³/min @ 34.4 bar (500 psi) or 42.2 m³/min @ 24.1 bar (350 psi). A 52.6 m³/min @ 8.6 bar (125 psi) compressor is standard for rotary drilling.

Drilling accuracy

The MD6250 drill offers various standard and optional auto drilling features to ensure drill pattern and depth accuracy. This helps operations to reduce explosives costs, improve blast performance and optimise muckpile uniformity to reduce downstream processing costs.

The standard package includes auto drill assist to control every step of the drill cycle, simplify the operator's job and improve accuracy. Standard Cat Product Link technology enables operations to improve fleet management through customisable reports and mapping.

To further boost drilling efficiency, an Autonomy Group package includes Cat

Command for drilling, which guides the driller so that every hole is accurately placed, drilled to the proper depth and angle, and able to stand up until blasting. To fit the site's budget and needs, this package can include semi-autonomous drilling for single row missions or fully autonomous drilling for multi-row missions. Cat Terrain for drilling provides precision machine guidance so that operators can complete patterns accurately and productively.

Operating comfort and safety

Featuring the latest Caterpillar design, the new MD6250 drill boasts a spacious FOPS cab with 3 m² of floor space and integrated operator station. Rubber shock-mounts absorb mechanical vibration from drilling and reduce exterior noise. Joystick controls with full instrumentation and dual 254 mm colour touch screen displays improve operator productivity. The deluxe operator seat is heated and ventilated and includes recline, tilt and lumbar support for comfort. The HVAC system features filtration for clean air quality and a new floor vent for improved operator comfort.

Cameras mounted on the mast and front and left sides of the drill give the operator full view of the pipe carousel/top drive operation and a 360° view from the operator's seat for improved safety. A full-length window offers an unobstructed view of the drill deck, while large cab windows surround the operator to offer excellent visibility of the work area. **MRA**

Specifications

Engine	Cat C27 ACERT
Max net power @ 1 800 rpm (Tier 4 Final /Tier 2)	655 kW / 652 kW
Bit load – 11.2 m / 13.7 m mast	22 321 kg / 32 655 kg
Hole diameter	Up to 152 – 250 mm
Single-pass hole depth – 11.2 m / 13.7 m mast	11.2 m / 13.6 m
Multi-pass hole depth – 11.2 m / 13.7 m mast	53.6 m / 37.9 m