

MEDIA RELEASE

Sandvik to unveil new drilling and materials handling products at QME

Sandvik Mining and Construction will unveil a number of new surface mining and materials handling products – in addition to its range of underground soft rock mining equipment – on display on **Stand 9108** during the 2008 Queensland Mining and Engineering (QME) exhibition at the Mackay Showground from July 22-24.

In terms of surface mining, Sandvik's focus will be on surface blasthole drilling tools from its full range of rotary and DTH applications, while in materials handling, it will be showing the latest innovations in conveyor rollers and components.

Sandvik drilling products

Sandvik provides a comprehensive range of drilling tools, services and solutions for many drilling applications including:

- surface mining
- horizontal directional drilling
- water well
- mineral exploration
- mine dewatering
- construction.

The company's focus at QME will be on its surface blasthole drilling tools from its large range, covering both rotary and down-the-hole (DTH) applications, and including some new products on display for the first time at the exhibition. New products on display will include:

- The new 229 mm and 270 mm 07QX2 RR440 ultra-premium sealed bearing TCI roller cone drill bit, which has been specifically designed for the surface coal mining market.
Powered by Sandvik's patented Charger QX2 bearing technology, these bits incorporate a dual seal bearing designed for extended bearing hours, withstanding higher weight and rotation speed, drilling longer and faster for lower drilling costs and maintaining bottom hole pattern.
This technology is based on the proven success of Sandvik's RR320T4 premium air bearing drill bit, combining a system of co-dependent and interdependent features that harness the latest in material science, engineering and manufacturing technology.
- The new 229 mm MTX-1 RR440 ultra premium sealed bearing milled tooth drill bit – again specifically designed for surface coal mining.
This is a new development of a traditional Milltooth drilling product using Charger Sealed Bearing Technology, combined with proprietary grade hardfacing to give a high-performance rotary drill bit for soft overburden drilling applications.

- New water separation technology dewatering subs.
Designed for use with Sandvik's RR320 premium open-air bearing bits to remove water from the bailing air prior to entry into the air bearing, these subs result in a significant reduction to bearing wear and increased bit life, delivering the most cost-effective drilling solution.

Also on display will be a selection of Sandvik's upgraded conventional DTH hammers and bits range, divided into three performance categories with different features to suit different customer groups and applications. They include:

- The RH550 range characterised by high performance, high penetration rates and high working pressures for maximum productivity
- The RH450 range, incorporating high reliability, proven technology and high performance at lower pressures
- The RH350 range, a lower-cost alternative with industrial standard solutions, designed to offer endurance, reliability and simplicity.

Materials handling products

On the materials handling side of the business, Sandvik's display at QME will include its new Moulded End Cap (MEC) roller that is available in both steel and aluminium. There will also be information on the revolutionary new HM150 formed roller.

Sandvik's MEC roller range is a low noise option, with the aluminium version offers the advantage of significantly reduced weight over a traditional steel roller.

These rollers are a cost effective alternative in all current roller applications where there is a need to reduce noise – and in the case of the aluminium rollers provides significant weight reductions.

Sandvik's heavy duty HM150 formed rollers offer significant advantages over rollers manufactured using traditional welded designs.

The roller shell is formed from a single piece of steel tube. This eliminates the need for a separate end cap and provides a roller capable of handling extremely high tonnages and belt speeds. The HM150 roller is currently operating on conveyor systems with capacities up to 52,000 tonnes per hour and belt speeds up to 11 m/s.

The forming process increases shell thickness by 50% for about 100 mm at the centre of the roller, where the physical loads are the greatest.

The remainder of the tube wall thickness is reduced by some 20%, removing unnecessary material and reducing weight – resulting in a longer-lasting roller shell.

According to Sandvik, the large diameter tubular shaft also offers optimum strength to weight ratio with improved shaft deflection characteristics.

These features, including high quality labyrinth seals, mean a smoother running roller that lowers power consumption by up to 3 watts per roller, further reducing running costs.

Sandvik's HM150 rollers are designed for use in applications requiring high belt loading and speeds.

Sandvik product specialists will be onsite throughout QME to answer questions on surface drilling, conveyor components and environmental products as well as crushing and screening solutions including the range of Sandvik screen media.

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