Screen Replacement

The recent supply of a complete resonance screen with an additional screen box to an Australian iron ore mine underpins MBE Minerals SA's drive to participate in global markets. The supply of these screens is the continuation of the screen replacement programme of 20 such machines for this major Australian iron ore producer.

"Significantly, the original screens were manufactured in South Africa by MBE Minerals in 1997 and have been operating successfully in a fashion that is typical of their reputation for extended life cycles in arduous hard rock applications. We can reference a number of enduring heavy duty vibrating screen installations in the iron ore sector, including ones in the South African Northern Cape that have been in operation for more than 40 years," says Johannes Kottmann, managing director of MBE Minerals SA.

The 2.4 by 4.5 metre screen employs the principle of resonance and dynamic vibration adsorption for its screening action. "A number of design elements have been incorporated to enhance performance, including the operation of the screen box at near resonance frequency. This allows the actuating device to replace only energy lost to the oscillating system by mechanical resistance and material transport," Johannes explains.

"Our screens are manufactured to provide increased throughput, while at the same time reducing both downtime and maintenance costs. Leveraging an extensive footprint of products for sizing, scalping, dewatering and media recovery, we are able to customise each screen to the specific requirements of the customer's application," Johannes concludes.

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Auto Level Feature

Superior Industries, Inc, has released new technology that allows its TeleStacker Conveyors to maintain level movement while in radial travel mode.

This technology allows the telescopic radial stacking conveyor to maintain a balanced conveyor structure. As a result, the TeleStacker Conveyors belting is less prone to mistracking. Uneven conveyor structure, says Superior, is one of the leading causes of inaccurate belt tracking.

Auto level technology is standard on all FD Axle model TeleStacker Conveyors equipped with PilePro Automation. Superior manufactures FD Axle models in lengths of 33.5m, 39.6m, 41.5m, 45.7m and 48.0m.

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Safe, No Fuss

A first in South Africa, the unique and robust Bobcat industrial wheel mover has been specially designed and engineered locally to ensure the safe, easy and efficient removal and perfect positioning of large wheels with diameters ranging from 36" to 90". Weighing 214kg, this workhorse boasts a lifting capacity of close to 1700 kg and is capable of safely handling tyres on any large vehicles or machinery operating in construction, mining, agriculture, forestry, and general industry.

According to Bobcat Equipment's national sales manager, Andre Steenkamp, "Changing or moving a large heavy tractor tyre or even sprayer tyres is simply no fuss with the new attachment. In addition to safety and convenience, this innovation can deliver massive savings to the end-user. Instead of having to halt production to commit an integrated tool handler or front end loader to remove a wheel, we offer companies a dedicated purpose-built attachment to do the job."

The wheel mover attachment has no hydraulics and can be fitted to a pallet fork or connected with a standard Bobtach for skid steer loaders. The attachment features a right lean safety bar as well as a safety arm which is adjustable from side to side to fit around fenders and also holds the tyre in place during transportation. Three rollers fitted on each side facilitate tyre rotation.

The attachment's economic design ensures very few wear and tear parts and features remarkably low operational and maintenance costs.

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