

NEW CONDITION MONITORING SERVICE

To complement conventional condition monitoring practices, Joest Kwatani has developed a new service that evaluates the skill levels of its customers' staff at their plants, as well as production and quality requirements.

Once these are linked to existing systems, the company has the ability to pre-empt equipment failure, and retain valuable, long-term data on plant performance. The screening equipment manufacturer has complemented conventional condition monitoring practices with advanced testing and measuring technology.

"This assists our customers to achieve a continuous supply of quality production tonnage, while protecting company assets and reducing the total cost of ownership of plant and equipment," says Kim Schoepflin, managing director, Joest Kwatani. She adds that adopting conventional condition monitoring, testing and measurement techniques



are not enough to ensure optimal operation of plant and equipment. "Mines should be working closely with original equipment manufacturers that are in a better position to develop a bespoke solution suited to the technology and its operating environment."

Schoepflin predicts that the role of condition monitoring/testing and measurement in the future is likely to increase to counter a growing global trend in the mining industry to specify lighter screens and associated support structures when a plant is first designed, in an effort to contain costs.

Equipment auditing, including periodic condition monitoring, is used to assess the status of a screen at a point in time

Andre Kuhn, general manager: Power Generation, Cummins Southern Africa

GENSETS FOR ROBUST ENVIRONMENTS

A particularly impressive line of products launched at Power and Electricity World Africa was a series of generator sets designed and engineered for critical applications that demand a robust, reliable source of power.

The QSK95 series of gensets from Cummins ensures uninterrupted operations for a variety of applications, including processes in the mining industry. According to the company, the gensets exceed industry standards by providing 100% one-step load acceptance in under 10 seconds. "This innovative product enjoys a rating of up to 3 500 kW and delivers high-horsepower output while achieving installation economies with a small-footprint design. Innovation is about unlocking and unleashing new ways of thinking, delivering against a background of continuous improvement," says Andre Kuhn, general manager: Power Generation, Cummins Southern Africa.

The series of gensets are rated at up to 3.5 MW and 3.75 MVA. Not only do they offer a smaller footprint, but they also offer improved durability, lower maintenance and lower fuel consumption. Cummins produces its own components, ranging from engines and alternators to transfer switches and control systems.

New vacuum for labs

A compact, fully assembled and ready-to-operate high-vacuum system has been added to the Turbolab product range by Oerlikon Leybold Vacuum. The new system was designed to be used in laboratories, spectroscopy and micro balances as well as sputtering and evaporating systems. The system is available in either table-top or mobile cart variants. The table-top variant has a new diaphragm backing pump for the industry-proven TurboVac i Turbo-molecular pumps, which attain ultimate pressures of between 10⁻⁷ mbar to 10⁻¹⁰ mbar and pumping speeds for N₂ of 65 l/s to 430 l/s, depending on the model selected.



According to John Russel, business development manager, Integrated Pump Technology – distributor of Oerlikon Leybold Vacuum products within Southern Africa – Turbolab can be tailored to individual customer needs. "There is a choice of up

to six connected accessories that include purge gas or venting valves, cooling units, heater collars and vacuum measurement devices, all connected through built-in communication ports," he explains. "A plug-and-play approach allows the user to connect a computer to the Turbolab via a standard LAN interface. The built-in web server then allows users to access all critical parameters and conditions, and draw reports stored in an internal memory," concludes Russell.



The Turbolab 80 workbench variant is a compact, easily operated high-vacuum system

New technology for Anglo

The first Loesche vertical roller mills and complete grinding series will be delivered to Sinoma International's Nova Cimangola plant in Angola.

The order includes one cement raw material mill with a capacity of 400 tonnes an hour and two cement mills, each with a capacity of 150 tonnes an hour. Other equipment like rotary star feeders, metal detectors, the engineering for the cyclones, classifier motors and the control system are also in Loesche's scope of supply, as well as a two years' worth of operation spare parts contract.



Loesche cement mill