

Maximised Uptime

Several key issues can affect the life cycle and productivity of a screen and have an impact on the bottom line at minerals processing operations. These include the shortage of skills within the industry, which often results in sub-standard maintenance being performed. In addition, maintenance is often undertaken on a reactive rather than a proactive basis, which can lead to further costly issues.

“Significantly, Joest Kwatani engineers aim for maximised tonnage of the screen during its lifetime. However, since screens are such critical elements in the process it is important to undertake regimented maintenance to ensure ongoing efficient operation and improved yield,” says Theresa Walton, general manager, service at Joest Kwatani.

These issues are best addressed by the implementation of a service level agreement that is customised for individual mine requirements. The first step is to



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undertake a full audit covering the operating performance and the condition of the screen. “We also consider the upstream processes to ensure that the feed is within the original specifications for which the screen was engineered,” says Theresa.

Under the terms of the service level agreement, Joest Kwatani undertakes continuous audits at predetermined

intervals to measure improvements in performance as well as the condition of the screen. Remedial action is often recommended and could entail the proactive identification of vibrating machines which require extensive repair work or refurbishment as a result of their age.

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Easy and Reliable

ifm electronics' new rotational speed evaluation systems DD0203 and DD0296 supply the basic functions of rotational speed monitoring and standstill detection by means of external pulse pick-up.

All settings are intuitive via four potentiometers: The rotational speed is set using a logarithmic scale, multiplier x

1 / x 100 and output function, start-up delay and hysteresis.

Featuring one semiconductor output and one relay output which function can be set in case of under speed or over speed. Four LEDs indicate the switching and operating states.

The integrated wide-range power sup-

ply, which can be supplied with direct or alternating voltage, guarantees high flexibility. The monitor's supply 24 V DC output power to the connected sensors.

Small in design with plug-in screw terminals simplify installation.

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Used Plant Equipment

Dura Equipment Sales invests hundreds of millions of rands each year in the procurement and refurbishment of quality used plant machines to enter a second term of life in mining, construction, plant hire and other applications. With a more affordable price tag, these machines offer small and medium size operations the opportunity to expand their fleet with highly productive machines at a fraction of the cost of new equipment.

Ernest Human, Dura Equipment Sales marketing manager says, “Machines on offer range from small TLB-type machines for agricultural applications and general construction, to road resurfacing machines, loaders, dumpers, excavators, graders and large production machines for mining applications. These are serviced within our fully equipped workshop facility and, where refurbishment is required, we

restore them to near factory condition ready for resale.”

The company also has the expertise to import and export machines across the border making the setting up of operations in any African country a seamless operation no matter where machines come from or are going to.

“With more than 110 machines available in Johannesburg and many more throughout our branches, there is sure to be a machine to match almost any requirement,” concludes Ernest.

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