

Crushers and Screens

CNC Crushers Roadstone has benefitted from uninterrupted production, ranging from 1 000t to 1 200t of aggregate a day for road construction in various areas of the North West province, after it introduced Trio comminution equipment to its Stilfontein operations.

The company is operating three Trio cone crushers and an inclined Trio screen which it bought from Weir Minerals Africa.

CNC Crushers Roadstone's TC36SH (short head) weighs 12 000kg and has a feed opening of between 100mm and 180mm, as well as a head diameter of 914mm. It has a maximum power capacity of 90kW and has a capacity of between 27Mtp/h and 186Mtp/h.

Meanwhile, its TC51S (standard head) has a head diameter of 1 295mm and weighs 22 500kg. It has a feed opening of between 65mm and 135mm, and a maximum power of 200kW. The unit

has a capacity of between 36Mtp/h and 255Mtp/h.

In terms of the company's screening requirements, the aggregate producer has opted for a Trio TIO5162 inclined double deck screen.

JD Singleton, Weir Minerals' general manager for Trio products in Africa and Middle East, says Trio TIO Series screens generate their motion via three timed shafts with eccentric counterweights. The combination of three shafts provides an oval strike with adjustable amplitude, speed and operating angle that are determined by application, feed size and gradation. The vibrating unit uses an oil bath lubrication arrangement.

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Trio TIO5162 double deck inclined screen.

Stepping Up Condition Monitoring

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 (OEM) that are in a better position to develop a bespoke solution that is suited to the technology and its operating environment.

Says Joest Kwatani's managing director, Kim Schoepflin, "We have 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 their plant and equipment."

In developing this service, the company evaluates the skills levels of its customers' staff at the plant, as well as their production and quality requirements. Once these are linked to existing systems, Joest Kwatani has the ability to pre-empt equipment failure, as well as the retention of valuable long term data on plant performance.

The OEM calls on its extensive knowledge of different mining applications to continuously refine its monitoring tools. This intellectual property has been garnered from the thousands of vibrating screen and feeder installations Joest Kwatani has undertaken at mineral sands, coal, gold, diamond, platinum, iron ore and manganese mines throughout Africa.

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PE's Manganese Terminal

ELB Engineering Services has been contracted by Transnet Capital Projects for the refurbishment of Tippler A and B at the Port Elizabeth Manganese Terminal.

ELB's scope of work will include design, supply of new components, stripping, refurbishment of the tippler including mechanicals, structural and electricals and the installation of the two 1964 Strachan and Henshaw tipplers.

The refurbishment of the two tipplers will be carried out in a phased approach. Tippler A will be refurbished first with a number of new components and once completed, tippler B will be refurbished. This project will extend these two tipplers' lifecycle by another five years, while the new terminal building is being built.

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