

Shaving time off processing

Carefully engineered scalping panels, to remove oversize rocks from crushing and screening processes, can play a major role in the effective operation of a plant and contribute positively to its overall throughput.

Yet optimisation of this critical element is often overlooked in favour of other more visible aspects of a plant which often call for more costly screening techniques or even capital equipment upgrades. By removing choking rock debris from entering the process however, many issues can be avoided and process times dramatically improved.

In this critical part of the process few companies understand more about the dynamics of material flows than Tega Industries, a leading supplier of scalping panels in Southern Africa. Having studied and designed dozens of systems for different processing plants, they have learned to adapt technologies to suit different conditions for different types of mines.

Engineered solutions

According to Tega Industries product specialist Fred Weigelt, the kind of ore being processed will determine the design of the rider bars and will even influence the flare of the openings. If designed correctly this can minimise deflection and contribute to ore moving more easily along the screen, as well as effectively excluding oversize rock more efficiently.

“Our engineered rubber solutions are tailor made to individual applications and are designed to provide the maximum throughput with the longest trouble-free service life possible. Even considering the harsh environments they are exposed to we are still able to produce products that will perform correctly and efficiently throughout their extended lifecycle,” says Fred.

He explains that the use of rubber is always preferable when larger apertures are required and where large ore sizes are being processed. In comparison to alternative liners, rubber provides better impact absorption because of its relative shore hardness and flexibility.

Latest technology

Tega Industries’ specially formulated rubber is more durable where large rocks are fed onto the panels directly from a chute. The same flexibility also allows better clearing of materials and reduces the possibility of rocks getting jammed into the openings. Considering the cost of breakages or time spent unclogging panels it makes more sense to use rubber.

“One of the advantages of dealing with Tega Industries is our ability to develop customised solutions tailored to the individual requirements of each mine. In line with our commitment to provide “Total Solutions” to customers, we invest heavily in research and development which means that we are able to make use of the very latest technology available to improve customers’ processes,” concludes Fred.

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