

Multotec redefines screening media attachment

To help address risk and remove potential safety hazards, Multotec has developed a range of hammer-less screening media attachment systems that significantly reduce the amount of hammer blows traditionally required when installing or removing screen media.

Designed for faster, easier changeouts while lowering the number of hammer blows needed, these systems not only make the process quicker and easier for maintenance, but also significantly improve operator safety, reducing the risk of injuries, fatigue and unplanned downtime in demanding mining environments.

"Safety is at the heart of every innovative solution we design," says Denzyl Macauley, Screening Support Manager at Multotec. "By reducing hammer use during panel changeouts, we are directly addressing one of mining's most common safety hazards and helping reduce the number of hand injuries on site," he adds.

Conventional attachment systems require repeated hammer blows to fasten modular screen panels to support frames on mineral processing equipment such as trommels and vibratory screens. Each panel typically requires multiple hammer blows per pin, along with additional tools such as screwdrivers and crowbars. The removal process is also a two-step process, which increases both time and risk. These tasks are often carried out in confined and ergonomically challenging spaces.

For maintenance personnel, this creates multiple safety hazards: from hand and finger injuries caused by missed hammer blows, to pinch points when holding pins in place during hammering and repetitive strain from repeated, forceful exertion. In some cases, hot work such as flame cutting is required, which introduces additional burn and spark risks.

In today's mining industry, where safety is non-negotiable, such risks not only endanger personnel but also lead to unplanned stoppages and productivity losses due to extended installation times.

Delivering safety and productivity simultaneously

As an alternative, Multotec's hammer-less attachment systems for screen media simplify static and vibrating screen media changeouts, making them faster, safer and more efficient. Instead of repeated hammering, panels can be clipped or snapped into place using just a few light hammer blows or simple hand leverage. This minimises the force required, reduces the number of moving parts compared to conventional systems, and lowers overall maintenance effort and cost.

"By simplifying the process and reducing



Multotec's Adaptable, Cost-effective, Ergonomic (ACE) fixing solution is engineered for unparalleled security and features a robust dual locking mechanism that ensures maximum reliability.

hammer blows, our latest attachment systems make screen panel changeouts faster, easier and safer," explains Jean Laurens, Screening Support Engineer at Multotec. "That means fewer injuries, greater efficiency and less disruption to production," he adds.

Furthermore, Multotec offers several latest-generation hammer-less systems for use on modular runner-type screens that accommodate interlocking, standardised screen panels. These can also be retrofitted to any existing screen decks or systems currently in operation.

The ERX system, designed for extremely heavy-duty applications, secures modular interlocking polyurethane or rubber panels using fixed clamping strips and a top locking strip. This eliminates the need for multiple bolts and nuts and eliminates hot work, such as grinding or cutting, during changeouts.

The Y-LOK system is specifically tailored for Multotec trommel screens, where modular polyurethane or rubber screen panels attach via a snap-on mechanism along a Y-shaped groove rail system, enabling quick and secure installation with minimal hammering.

For general screen attachment needs, the CCX and HALO systems provide versatile clip-in and snap-on solutions suitable for applications ranging from sizing and dewatering to media recovery. These systems reduce reliance on tools, enabling single-person changeouts by hand while remaining compatible with all screen media materials.

Derived from the ERX series, Multotec's Adaptable, Cost-effective, Ergonomic (ACE) fixing solution requires zero hammer blows, eliminating the risk of impact injuries during screen panel changeouts. The ACE panels lock in place with just hand pressure, so there is no impact risk and no pinch points.

Once in place, ACE is engineered for unparalleled security and features a robust dual locking mechanism that ensures maximum reliability. When paired with the top locking strip, it becomes virtually fail-proof, staying securely in place even where other fastening solutions have failed, making the system the most reliable solution on the market.

When the time comes for removal, ACE requires no screwdrivers or pry bars. Multotec's engineered, battery-powered tool makes panel removal simple, fast and safe.

These advanced attachment systems demonstrate Multotec's focus on putting personnel safety first while streamlining changeouts. Reducing risks and simplifying installation, decreasing operator fatigue, and improving alertness and morale result in a safer working environment, faster maintenance, greater plant availability and improved productivity.

Available through Multotec's global branch network, these attachment systems reflect the company's strong commitment to innovation and safety, helping reduce injuries, improve working conditions, and increase productivity.

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