

Metso

Superior XM Series crusher upgrades

Optishell

Metso's Optishell allows you to rotate the shells of your crusher, extending the life of wear parts up to 40%.

Challenges

As mines process through their ore bodies, material hardness and feeding arrangements can change. This can cause previously normal wear conditions on your crusher to vary, leading to uneven or abnormal liner wear. This leads to decreased liner life and possibly more liner changeouts than previously expected, which directly impacts uptime and the bottom line.

What it is

The Optishell gives you the ability to rotate the topshell of your crusher, moving your worn liners away from the high-wear areas of your feed and extending the life of the liner set to keep your wear parts running longer. Weldments add motor mounts and an adjustment ring to your bottomshell, similar to the adjustment ring on a Nordberg™ cone crusher. Slide plates are then added into the separated topshell joint and the whole crusher is rotated around the topshell joint with the spider and mainshaft remaining in place.

How it helps

Maximize production

Optishells help extend the life of your liner set, giving you the flexibility to enhance the usable life of your liner sets by moving sections of worn liners away from direct dump locations. This helps gain more production from each set of liners in your crusher.

Improved safety

Our engineers have developed the rotation of the machine to be safe for your crews, with shell removal not required to execute successful movement of the shells. Hydraulic separators simply separate the interference fit of your shells and slide plates are put in place. No other manual labor is required to make this rotation happen at your site, increasing safety risk to your staff.

Sustainability advantage

Optishells allow you to extend the working life of your liners and help account for uneven wear or unexpected changes in ore hardness. By rotating the crusher, life of up to 40% can be achieved on your liners.

Optishells are developed for any Superior™ Gyratory Crusher 4265 size and larger.



Read more at
metso.com/gyratory-crusher-upgrades