

Metso:Outotec

Flotation services

Center launder upgrade



The Metso Outotec center launder upgrade can deliver substantial improvements in a key aspect of the flotation process: froth recovery.

In order to secure maximum flotation performance, both collection zone recovery and froth recovery need to operate efficiently.

Both collection recovery and froth recovery need to operate efficiently to obtain maximum recovery.

Collection recovery involves combining slurry, air, and chemical reagents in a tank and agitating them to create bubbles that carry valuable materials to the surface.

The froth must be promptly collected to the launder lip to maximize froth recovery. Optimal flotation recovery is achieved when these two processes work efficiently in harmony.

The Metso Outotec center launder upgrade is composed of three parts:

- Center launder
- Outer crowder
- Froth cone

Each tailor-made for your site to address your specific conditions.

The center launder radically reduces the froth transport distance to the launder lip.

A shorter transport distance enhances the likelihood of froth overflowing the launder lip. The longer the transport distance the more likely the bubble is to burst, resulting in the valuable material sinking back to the bottom of the tank, and being carried out with the tailings.

The new froth cone and outer crowder maximizes froth recovery and creates a thicker, more stable, and more productive froth. Both the cone and crowder push the froth towards the center launder.

This is especially important near the end of the circuit, after all the fast floating and well-liberated particles have been reported to the launders.

The Metso Outotec center launder adjusts the froth area produced by the equipment in each cell, resulting in higher froth recovery and higher concentrate mass pull, and higher recovery throughout the circuit. The cells recover more valuable material reducing loss through the tailings

This is achievable through current equipment with no additional operating expenses in the form of water or reagents.

Benefits

- Improved metallurgical performance
- Maximized mass pulls
- Improved concentrate recovery
- Robust and flexible
- Enhanced flow control
- Easy to upgrade existing cells

Flotation
Improved recovery in the flotation circuit is possible through one positive, sustainable, and efficient upgrade.

We aim to be a sustainability leader in our industry. Sustainability at Metso Outotec is founded on our strategy, and code of conduct, as well as on selected, globally acknowledged guidelines and principles. By providing new and better technologies and changing current ways of operating, we help our customers meet their sustainability goals.

Partner for positive change

Read more at mogroup.com

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