Metso

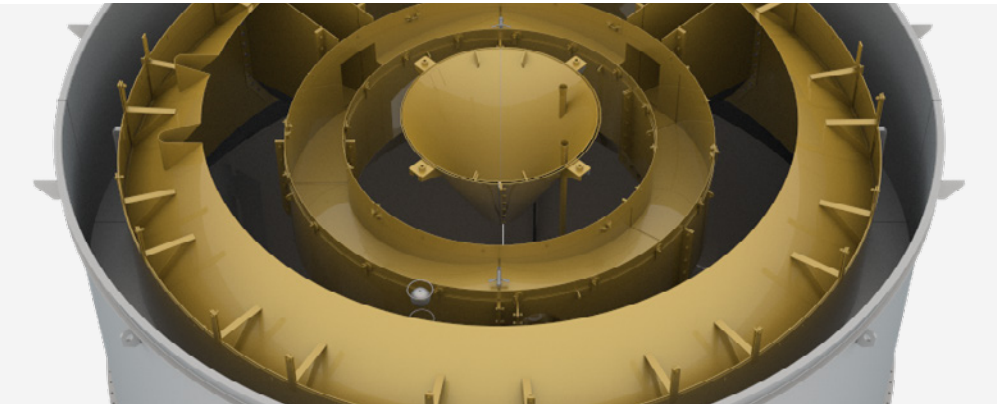
Flotation services

RCS froth management upgrade

Flotation

Metso's RCS Launder upgrade unleashes cutting-edge froth management for peak metallurgical excellence in every cell.

Metso integrates technological advancements to modernize legacy RCS Flotation Cells incorporating the latest innovations in froth management to ensure maximized metallurgical performance with a launder upgrade.



The RCS Launder Upgrade by Metso Outotec presents a significant opportunity for substantial improvements in the crucial aspect of froth recovery within the flotation process. Efficient operation of both the collection zone recovery and froth zone recovery is imperative for achieving maximum flotation performance.

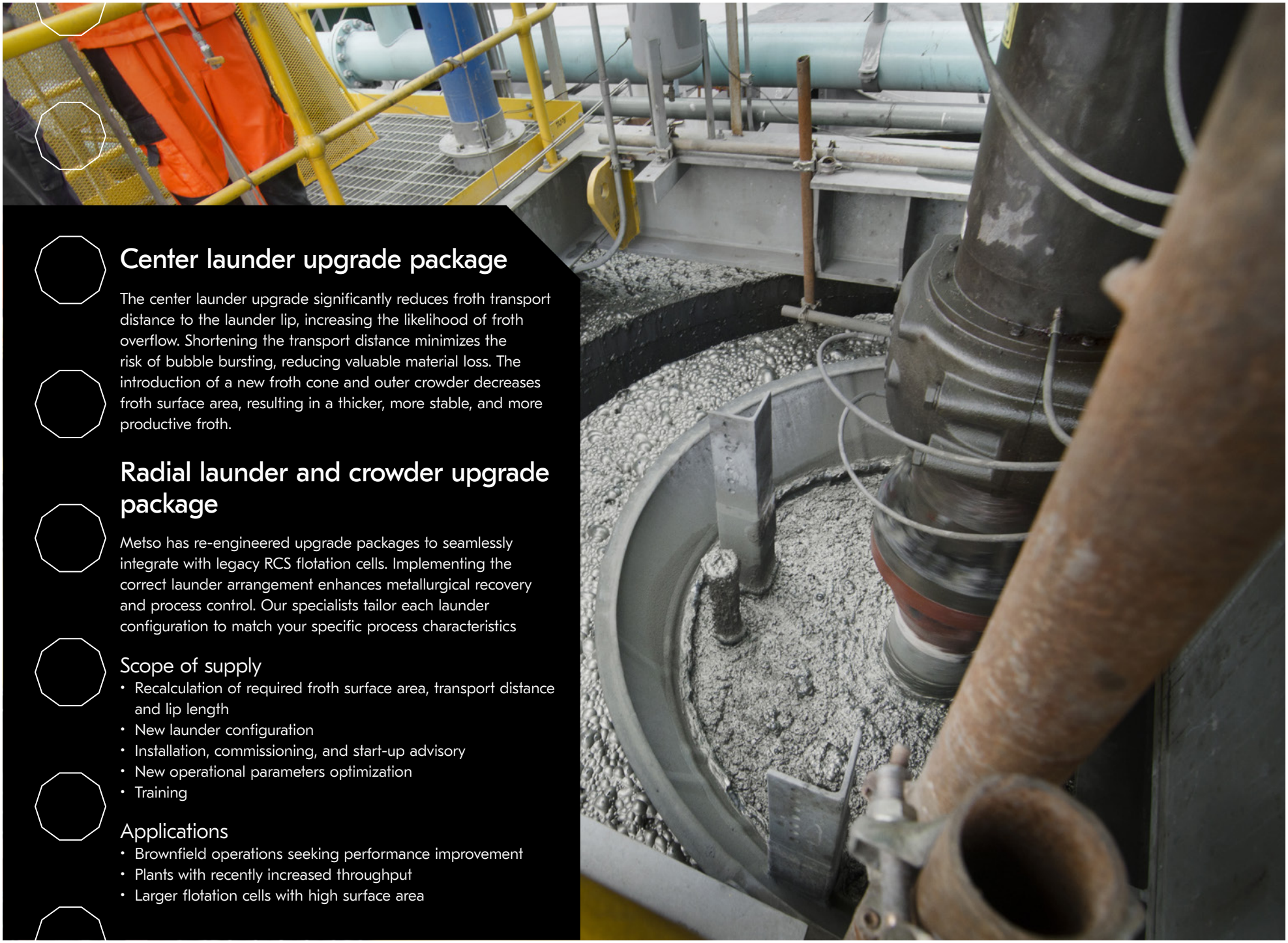
The traditional RCS Flotation cells feature the DV™ (Deep Vane) flotation mechanism design, enhancing air dispersion and bubble size distribution. The patented DV™ mechanism guarantees optimized collection zone recovery.

Following the merger of Metso and Outotec into Metso Outotec, the potential to maximize froth zone recovery in legacy RCS Flotation cells has become achievable through an upgrade in launder configuration, integrating the latest froth management developments.

Why modernize to the launder configuration?
Launders play a vital role in any flotation cell, and selecting a launder with the right design and orientation tailored to your specific application is crucial for attaining optimal metallurgical performance.

Benefits

- Higher metallurgical recovery due to increased froth collection
- Optimized froth transport distance and froth surface area
- Enhanced process control
- Maximized metallurgical performance in the froth zone
- Installation and commissioning flexibility



Center launder upgrade package

The center launder upgrade significantly reduces froth transport distance to the launder lip, increasing the likelihood of froth overflow. Shortening the transport distance minimizes the risk of bubble bursting, reducing valuable material loss. The introduction of a new froth cone and outer crowder decreases froth surface area, resulting in a thicker, more stable, and more productive froth.

Radial launder and crowder upgrade package

Metso has re-engineered upgrade packages to seamlessly integrate with legacy RCS flotation cells. Implementing the correct launder arrangement enhances metallurgical recovery and process control. Our specialists tailor each launder configuration to match your specific process characteristics

Scope of supply

- Recalculation of required froth surface area, transport distance and lip length
- New launder configuration
- Installation, commissioning, and start-up advisory
- New operational parameters optimization
- Training

Applications

- Brownfield operations seeking performance improvement
- Plants with recently increased throughput
- Larger flotation cells with high surface area