

## Crusher upgrades

# Rotable top shell

The key to faster and safer primary gyratory shutdowns



### Tackling your key challenges

- Every minute your primary gyratory is shut down, your bottom line is impacted
- Relining a primary gyratory crusher can be a lengthy and complex process, which must be closely managed
- With confined work spaces and heavy lifts, there are safety risks to your crew

### Delivering immediate results

- Reduce downtime by up to 45%
- Minimize high risk maintenance work
- Optimize shutdown tasks

### Available for

All Metso Superior® Primary Gyratory Crusher models

# The Metso solution: Rotable top shell

Reduce your crusher downtime by up to 45% with Metso's rotable top shell. Using additional shell segment(s), which are already inspected and lined prior to your shutdown, enables you to save both time and money - when it matters most.

The process is safe, simple, and speedy:

## 1. Complete top shells are relined

In advance of a shutdown, the rotable top shells are relined within a safe and controlled environment.

## 2. Complete top shells are removed

During the shutdown, installed shells are unfastened and simply split via hydraulic shell separators before being lifted from the crusher. The bottom shell can be more easily accessed for maintenance while top shells are removed.

## 3. Complete top shells are installed

Rotable shells with installed concaves are quickly installed, minimizing labor hours and risk hazards to crews.

## More for your crusher

Metso has many options to further enhance your relines and shutdowns, including: OEM liners, installation support, shutdown labor, and custom Life Cycle Services.

We also offer flexible financial and costing programs, including fixed monthly fee payments, cost per ton payment plans, and payment deferral plans.

## Benefits

**Less downtime:** When it is time to replace the concaves, the shell is already serviced and inspected

**Efficiency:** Reduced maintenance hours can be reallocated to other tasks during the shutdown

**Safer process:** Reduced risk as more tasks are done in a controlled environment



**Predictable costs:** Shutdown costs are known prior, making it easier to plan and manage budgets

**Flexibility:** Relineing and top shell maintenance is done outside the critical path, allowing you to schedule it when it fits with your workload

**Off-site:** Work can be done at a Metso facility so you can focus on other tasks