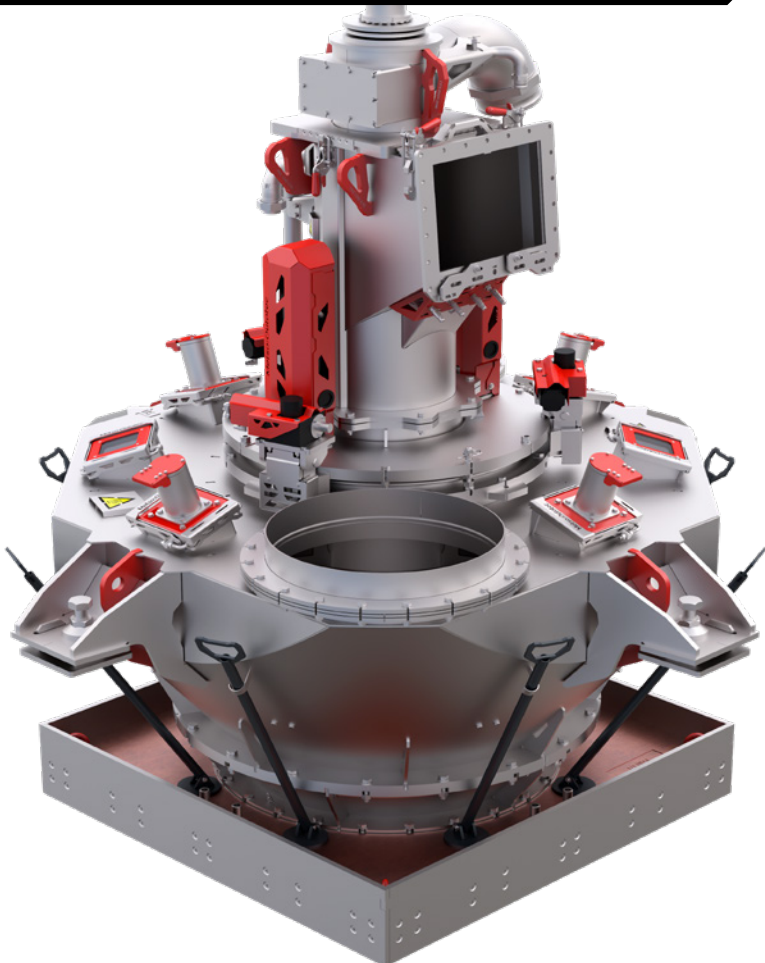


Metso

Concentrate burner solutions

FlashGuard

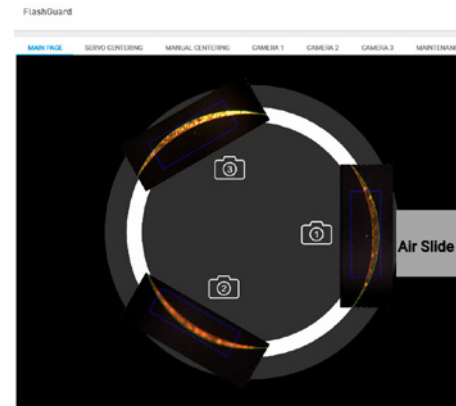


Metso FlashGuard system improves operational control of the concentrate burner through continuous monitoring of burner alignment and build-up profile.

Optimal burner alignment in general reduces metal losses to slag, decreases weak acid production and improves the furnace wall heat load. This results in an increase of furnace lifetime.

The FlashGuard system informs the operators when centricity alignment or build-up cleaning is required and facilitates the actual adjustment work.

The centricity measurement is based on machine vision algorithms that are applied to visual data. The data is initially received from the gap between the velocity controller sleeve and the guiding cone edges.

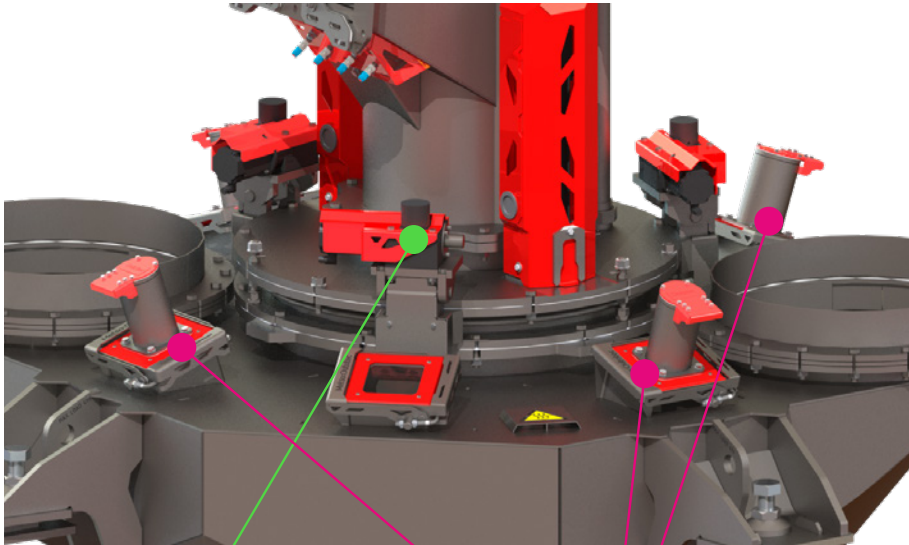


Read more at
metso.com/flashguard

Benefits

- Optimizes burner alignment
- Reduces burner alignment time from hours to minutes
- Online view of burner build-up enables optimal timing of build-up removal
- Improves operator safety since unnecessary visits to the burner are avoided
- Direct line of sight to the concentrate burning

General operating principle



Optional servos

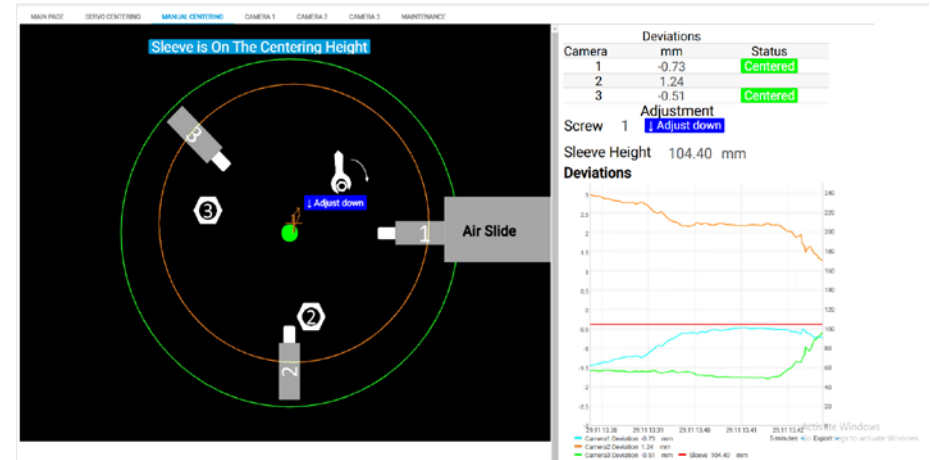
Adjusting servos can be installed to the concentrate burner to make the centering faster and more convenient. With the servos, the centering can be done remotely without any additional tools, using the HMI panel.

Camera installations

Three cameras are installed on the air chamber inspection ports. Existing ports can be used.

Operator interface

The web-based user interface shows the alignment and build-up status in real time and gives recommendations for corrective actions.



Automated video analysis

Live images from the machine vision cameras are analyzed by the FlashGuard algorithm, and the results are shown in the user interface. Measurements are stored to a database for later use.



Read more at metso.com/flashguard