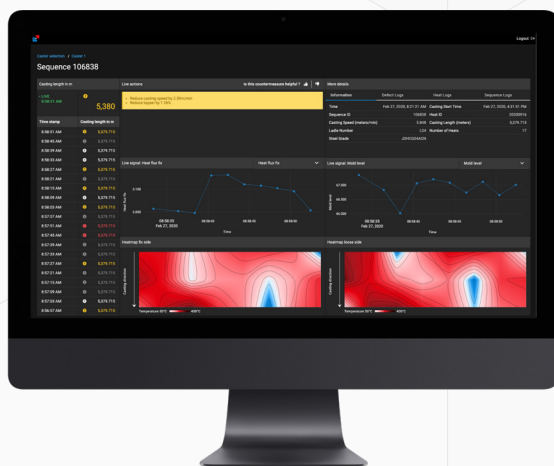# CRACKS PREVENTER

Cracks risk assessment for caster systems

Cracks Preventer is an artificial intelligence system built with the metallurgical expertiseto optimize the caster by preventing the multiple types of defects during the casting process. The product focuses on finding the root causes for each defect type, analyzing the data including heat information, sequence parameters, and real timeseries data. It suggests countermeasures to the users to reduce /prevent the losses due to defects.

It can be implemented in any steel plant without any major architectural modifications. Closed-loop deployment processes allow real-time solutions wherever necessary and also guaranteeing higher productivity of the casting process.

CHALLENGES ADDRESSED:

- Prediction of multiple defects at once

- Customized right countermeasure suggestions for each defect

- Minimize the downgraded cost due to multiple defects

- Reduction of losses due to breakouts

- Solutions catering to all production lines

PRODUCT BENEFITS:

- Up to 50% reduction of production losses due to multiple defects: Longitudinal facial cracks, edge cracks, slivers, laminations, surface inclusions and many more

- Customizable frontend to serve the operators with maximum benefits

- The responsible team receives the actions to be performed to control the defects

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CRACKS PREVENTER IS CREATED BY A TEAM OF EXPERT DATA SCIENTISTS AND METALLURGISTS AIMING TO REVOLUTIONIZE CASTING TECHNOLOGIES.

PERFORMANCE-BASED
Cracks Preventer is a performance-based solution, it eliminates the risk factors for customers. Losses incurred must be paid, no more and no less.

MACHINE LEARNING MEETS DOMAIN EXPERTISE
Machine Learning product without Domain expert knowledge is not a preferable solution in the steel industry. Cracks Preventer is developed with Machine learning technology in association with metallurgy expert. It ensures to improve the performance accuracy considering the end to end data.

FULL SUPPLY-CHAIN
Cracks Preventer focus on the full process chain in steel Production which ensure to tackle the LFC related losses in all mills.

REALTIME ACTIONS
In case of defects Cracks Preventer indicates need for action and suggests precise counter measures. Additionally, it gives important details and signal graphs.

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