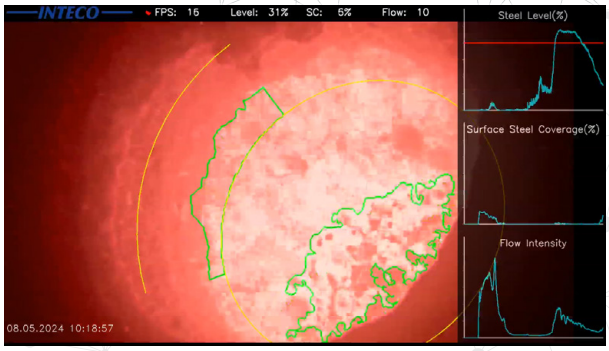
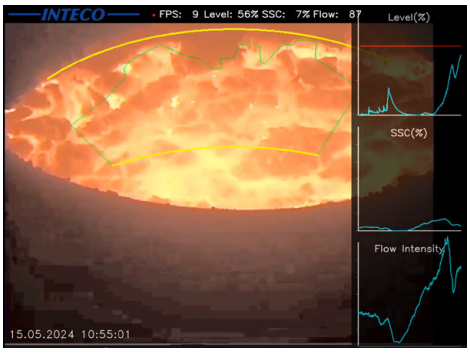
INTECO REAL-TIME VIDEO ANALYTICS FOR VACUUM DEGASSERS (IRVA-VD)

INTECO is your reliable partner to increase your **#productivity** and **#safety** when it comes to tailor-made equipment for the production of high quality steel. Improve your vacuum tank degasser by implementing INTECO's real-time video analytics technology.

#productivity #safety #IRVA-VD

The slag foaming phenomenon in vacuum tank degassers leads to slag overflow and therefore not only reduces productivity and increases the rejection rate, it also presents notable health risks to your employees during ladle rim cleaning and on the caster deck. Though it might seem feasible to measure slag levels in the VD using extra sensors, these approaches carry considerable disadvantages: They come with mechanical modifications, create potential leakage spots and demand regular equipment maintenance. In contrast, INTECO's IRVA-VD comes with none of these issues and offers even more than alternative systems do.





The IRVA-VD transforms any existing camera into a powerful tool for monitoring and optimizing vacuum tank degassing processes. The algorithm evaluates the effectiveness of gas stirring, the exposed stirring eye and the critical slag foaming events through real-time video analysis. This contributes to proactive process management and further improves the accuracy of degassing models.

existing

Any standard client can be used to display the RTSP live video stream with information overlay.

The PLC can use the signals from the analysis algorithms directly in the logic to implement automatic flooding and fully automatic pressure control.

RTSP

OPC-UA

IRVA-VD

An industrial PC runs the advanced real-time video analytics. The software can be supplied as a standard service for windows or linux devices or as a SIEMENS SIMATIC EDGE application.

existing

The application is designed to work with both, optical and infrared camera systems. Existing cameras can be re-used or a package with a new camera, including adapter, can be supplied.

#advantages

- Slag level measuring provides slag foaming measurement/ slag overflow prevention for improved safety and serves as an input for automatic pressure control and automatic stirring control for reduced pump down and degassing times
- Steel surface measuring improves the degassing process by automated gas stirring operation and degassing model accuracy
- Compatible with existing optical or IR cameras for optimal vision during low visibility (dusty) phase

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