



Contribution ID: 81

Type: **Poster Presentation**

X-Pact® Solid Control –process optimization, quality control and root cause analysis in case of abnormalities in the cast product

Tuesday 7 October 2025 19:56 (1 minute)

X-Pact® Solid Control is the SMS group's secondary cooling model for slab, thin slab, bloom and billet continuous casting plants.

It consists of a "process package" that is fully integrated into the manufacturer's plant automation and a "technology package" that helps the metallurgist to find the right process parameters before one ton of liquid steel flows into the mold.

The aim is to show the advantages of how X-Pact® Solid Control:

- helps to find the right process parameters for special steels, such as increasing the globulitic fraction in silicon grades,
- is used in the casting process to increase production through targeted temperature control, or to save energy during hot charging to improve the CO₂ footprint,
- provides data for quality control to detect anomalies using soft sensors,
- can be useful to find the origin of cracks in case of defects in the cast product using HD scan and the Defect Analyzer.

Primary authors: Mr WILMES, Ronald (SMS group); Mr PLOCIENNIK, Uwe (SMS group)

Co-author: Dr HÖNIG, Michael (SMS group)

Presenter: Mr WILMES, Ronald (SMS group)

Session Classification: Poster Session

Track Classification: Steelmaking - Continuous casting, near-net shape casting and ingot casting