Contribution ID: **217** Type: **Oral Presentation**

Electromechanical servo drive for mold level control: performance and evolution

Thursday 9 October 2025 08:30 (20 minutes)

Mould level stability is crucial for achieving excellent surface quality and product cleanliness in continuous casting. This article explores the evolution of the Mould Level Master, a technological package for mould level control based on an electromechanical actuator, from its initial testing to its implementation across a wide range of casting machines—including billet, bloom, and extra-wide slab casters. The system has been successfully applied not only in the steel industry but also in non-ferrous alloy production.
The Mould Level Master is a highly effective solution for upgrading existing casters, offering tailor-made implementations with minimal downtime. This article examines the performance of the electromechanical servo actuator and the control algorithms, analyzing their effectiveness in ensuring precise mould level regulation and casting stability. Its proven results across various applications make it not only an ideal tool for caster upgrades but also a state-of-the-art solution for new casting machines.

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Session Classification: Automation & Process Control

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