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Primetals Technologies to Supply Thick-Slab Continuous Caster for High-End Plate Production

- **Extensive caster revamp enables Chinese producer to expand into high-end plate market**
- **Single-Roll Dynagap (SRD) and dry-casting segments ensure high-quality thick plate production**

A Chinese steel producer in the eastern part of the country has tasked Primetals Technologies with the supply and implementation of a 1-strand thick-slab continuous caster upgrade. The Primetals Technologies scope includes key mechanical equipment, a comprehensive Level 1 and Level 2 automaton solution, and implementation services.

The project will expand the continuous caster's thickness range up to 360 millimeters. With the new equipment, the producer will be able to manufacture plates for heavy-gauge high-end applications including the wind turbine sector. Annual capacity will be 1.9 million tons of high-quality slabs, and startup is scheduled for mid-2026.

High-Quality Thick Plate Production

The machine will be equipped with Single Roll Dynagap (SRD) segments from Primetals Technologies, allowing for the dynamic alignment of individual casting gaps when production parameters like steel grade, cooling grade, and casting speed, are changed. The SRD segments enable remarkable forces of 4,000 kilonewton per roll, ensuring supreme internal microstructures of the slabs and the production of defect-free thick plates of high quality.

Smart Segment is Primetals Technologies' patented continuous bending and straightening concept, and together with the Eco Star rolls, this solution results in significantly improved slab-surface quality. Featuring an internal cooling system, the Eco Star rolls are able to endure the high temperatures required to minimize surface defects. Additionally, as part of the upgrade, Primetals Technologies will install new Smart Molds with a DynaWidth mold-width adjustment system for smooth and fast slab-width changes.

Enhanced Breakout Prevention and Increased Quality

The comprehensive automation solution ensures optimized casting conditions and improved flexibility. The Mold Expert system detects and prevents breakouts while analyzing the casting process in the mold. DynaGap soft and hard reduction automated control systems allow dynamic reduction for minimized centerline segregation and enhanced internal strand quality.

The partnership between the producer and Primetals Technologies spans decades and encompasses numerous casting projects.

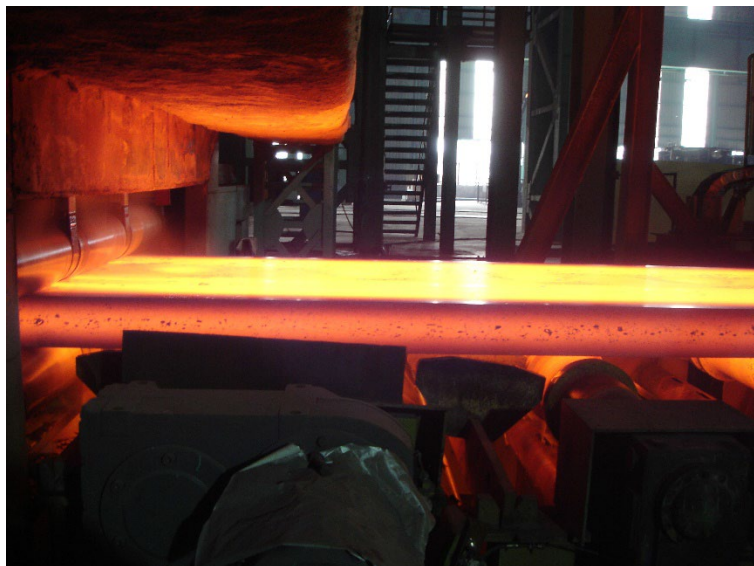
Key facts: New 1-strand continuous slab caster for Chinese producer

Capacity: 1.9 million tons per year

Caster radius: 10 meters

Dimension of slabs: 250 to 360 millimeters in thickness and 1,500 to 2,300 millimeters in width

Steel grades: Piping steel, wind turbine steel, normal ship plate, high-strength ship plate, bridge steel, structural steel, carbon die steel, alloyed steel



Primetals Technologies will supply and implement a 1-strand continuous caster at a Chinese steel producer.

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