

London, March 10, 2026

Primetals Technologies Upgrades Electric Arc Furnace at Çolakoğlu Metalurji

- **Revamp increases reliability and energy efficiency while improving furnace maintainability**
- **Comprehensive engineering and installation strategy enabled completion within a tightly scheduled four-week timeframe, with no compromise on quality**
- **Modular prefabrication dramatically reduced assembly and installation time**

Çolakoğlu Metalurji, located in Dilovasi, Türkiye, is setting new standards in steel production efficiency with the upgrade of its electric arc furnace (EAF) carried out in partnership with Primetals Technologies. The revamped EAF installation introduces an innovative furnace-tilting-device that enhances movement precision and velocity. Together with the implementation of an electromagnetic stirrer (EMS) system, supplied by ABB, the upgrade positions Çolakoğlu at the forefront of electric steelmaking.

This state-of-the-art solution not only increases operational reliability and energy efficiency but also improves furnace accessibility and maintainability. The modernization marks a significant step toward Çolakoğlu's commitment to sustainable and high-productivity steelmaking, combining robust mechanical design with cutting-edge automation and data intelligence.

Tackling Complex Engineering Challenges

The project at Çolakoğlu Metalurji presented significant engineering challenges, requiring the integration of new mechanical and hydraulic assemblies into the existing EAF within a brownfield environment. Unlike a greenfield project, this upgrade demanded precise alignment of the tilting mechanism, frame structures, and EMS system with the current foundation, furnace shell, and plant infrastructure. All work was completed within a tightly scheduled four-week timeframe, including dismantling, structural adaptation, reinstallation, and commissioning. Delivering this scope demanded flawless sequencing, tight coordination, and seamless collaboration across design, fabrication, and on-site teams.

Working in the confined furnace bay added complexity, requiring exact interface management, precise prefabrication, and smart logistics. Completing all mechanical and hydraulic work on time—while ensuring safety, quality, and long-term reliability—was a central challenge of the project.

Fast, Efficient Installation

To meet the demanding timeline and integration requirements, Primetals Technologies and Çolakoğlu Metalurji adopted a comprehensive engineering and installation strategy. All new assemblies were preassembled and precisely aligned during fabrication using detailed 3D models and custom Primetals

Technologies drawings. This modular approach enabled rapid on-site installation and minimized interface adjustments during construction.

Through modular preassembly, optimized logistics, and precise scheduling, the project was completed on time. The result is a modernized EAF system with enhanced efficiency, maintainability, mechanical stability, and long-term reliability, setting a new benchmark for future brownfield upgrades in the steelmaking industry.



Primetals Technologies has modernized Çolakoğlu Metalurji's EAF.

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