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Primetals Technologies Wins Major Ladle Furnace Upgrade Order from Outokumpu Stainless USA

- **Ladle treatment stand to be upgraded to a 180-ton twin ladle furnace**
- **Enhanced operational flexibility and improved temperature control**
- **Startup scheduled for March 2028**

Primetals Technologies has secured a contract to supply a 180-ton twin ladle furnace to Outokumpu Stainless USA. The new furnace will be installed at Outokumpu's facility in Calvert, Alabama, replacing an existing ladle treatment stand from 2012. This upgrade will reduce the plant's carbon footprint, improve temperature control, and provide greater operational flexibility.

Enhanced Operational Flexibility

At the Calvert plant, Outokumpu melts up to 100 percent stainless steel scrap in an electric arc furnace (EAF), followed by processing in an argon oxygen decarburization (AOD) converter. Upgrading one of two ladle treatment stands to the twin ladle furnace will increase flexibility in the AOD process by adding electrical heating capacity after the converter. The installation will utilize the plant's original layout and foundation to ensure smooth integration.

The scope of supply includes key mechanical equipment such as a water-cooled ladle cover integrated with the swing gantry system, Primetals Technologies' patented electrode conducting arm with high-current system, automated argon lancing equipment, a hydraulic system, Melt Expert electrode control system, a power solution, and Level 1 automation.

Increased Productivity

Melt Expert from Primetals Technologies enables dynamic control over the melting process and increases process stability. The system improves furnace productivity by addressing reduced throughput and efficiency. It also lowers energy consumption, helping to mitigate the high energy costs associated with the melting process.

Outokumpu Stainless USA and Primetals Technologies have a long-standing partnership, including the design and supply of a state-of-the-art stainless steelmaking plant. The single-line facility, with a 160-ton EAF, 180-ton AOD converter, twin 180-ton treatment stands, and a single-strand slab caster, was successfully commissioned and received final acceptance in 2013.

About Outokumpu

Outokumpu is accelerating the green transition as the global leader in sustainable stainless steel. Its business is based on the circular economy: Outokumpu's products are made from 95 percent recycled

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materials, which it then turns into fully recyclable stainless steel. This steel is utilized in various applications across society, including infrastructure, mobility, and household appliances. In the US, Outokumpu operates America's most advanced stainless-steel mill in Calvert, Alabama. With an extensive range of products and industry-leading technical support and services, Outokumpu is the second-largest producer of sustainable stainless steel in the United States. Learn more at: www.outokumpu.com



Primetals Technologies will upgrade Outokumpu Stainless USA's ladle treatment stand to a 180-ton twin ladle furnace.

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Primetals Technologies, Limited, headquartered in London, United Kingdom, is a pioneer and world leader in the fields of engineering, plant building, and the provision of lifecycle services for the metals industry. The company offers a complete technology, product, and services portfolio that includes integrated electrics and automation, digitalization, and environmental solutions. This covers every step of the iron and steel production chain—from the raw materials to the finished product—and includes the latest rolling solutions for the nonferrous metals sector. Primetals Technologies is a Group Company of Mitsubishi Heavy Industries, with around 7,000 employees worldwide. To learn more about Primetals Technologies, visit the company website [primetals.com](https://www.primetals.com).