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## Primetals Technologies to supply equipment for relining a blast furnace for ROGESA

- **Blast furnace 4 to be equipped with 4 integrated automation solution**
- **Redundantly designed control system for high availability**

Primetals Technologies has received an order from ROGESA Roheisengesellschaft Saar mbH in Dillingen, Germany, to modernize the electrical, measuring, analytical and automation equipment in conjunction with the relining of blast furnace 4. The project involves equipping the blast furnace with a new control system based on Simatic PCS7, new automation and new switchgear. The existing field devices will be replaced, and the cabling renewed. Primetals Technologies is also responsible for hardware planning. The order is worth over ten million euros.

ROGESA Roheisengesellschaft Saar mbH, Dillingen, is a joint subsidiary of Dillinger Hüttenwerke Incorporated, Dillingen, and Saarstahl AG, Völklingen, each of which holds directly and indirectly 50 percent of the shares. ROGESA currently produces up to 4.6 million metric tons of hot metal per year, exclusively for the two shareholders. Blast furnace 4 was built in 1974, and last relined in 2003. With a hearth diameter of 11.2 meters, it has an effective volume of 2,360 cubic meters. The nominal production rate is 6,100 metric tons of pig iron per day.

In conjunction with the relining, blast furnace 4 will be equipped with a new control system based on the current version Simatic PCS7 V8.1. The system is completely virtualized, and equipped with a redundant OS server, to which are connected five engineering stations, 15 operator stations, six AS 410 automation systems and type ET200SP distributed I/O devices. Data is exchanged via Profibus and Profinet. An archiving and reporting system, a system for recording and analyzing measured values, and a network management solution are also integrated into the control system.

Primetals Technologies will also be responsible for planning the hardware and adapting it to the new structure, renewing the switchgear, ET stations and local control points, and installing the requisite

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network infrastructure. At field level, Primetals Technologies will replace all field devices and the complete measuring and analytical equipment, as well as renewing the cabling for the complete electrical, instrumentation and control equipment. Bähr Anlagentechnik will lead an external consortium that will install the electrical equipment.



Blast furnace 4, of ROGESA Roheisengesellschaft Saar mbH in Dillingen, Germany. In conjunction with the relining of the blast furnace, Primetals Technologies will renew the electrical, measuring, analytical and automation equipment (Copyright: Dillinger Hütte).

This press release and a press photo are available at

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**Primetals Technologies, Limited** headquartered in London, United Kingdom is a worldwide leading engineering, plant-building and lifecycle services partner for the metals industry. The company offers a complete technology, product and service portfolio that includes integrated electrics, automation and environmental solutions. This covers every step of the iron and steel production chain, extending from the raw materials to the finished product – in addition to the latest rolling solutions for the nonferrous metals sector. Primetals Technologies is a joint venture of Mitsubishi Heavy Industries (MHI) and Siemens. Mitsubishi-Hitachi Metals Machinery (MHMM) - an MHI consolidated group company with equity participation by Hitachi, Ltd. and the IHI Corporation - holds a 51% stake and Siemens a 49% stake in the joint venture. The company employs around 9,000 employees worldwide. Further information is available on the Internet at [www.primetals.com](http://www.primetals.com).