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KG Steel Selects Primetals Technologies for PLTCM Modernization in Dangjin, Korea

- **Comprehensive automation revamp will broaden product offerings**
- **Implementation of an advanced pickling model to improve product quality**
- **Shadow mode ensures smooth switch-over to the new system with minimal downtime**

Primetals Technologies has signed a contract to modernize the pickling line tandem cold mill (PLTCM) at KG Steel Co. in Dangjin, Republic of Korea. During the 18 month-project, the existing PLTCM facility will undergo a complete revamp.

Expanding Production Capabilities

The project includes a full upgrade of both basic and process automation systems. The current basic automation system will be replaced by the advanced SIMATIC S7-1500 platform, which offers reliable spare parts availability. The new process automation system will leverage state-of-the-art AI technologies which support the physical models, to improve target values for strip thickness and flatness. This will allow KG Steel to produce a wider range of cold-rolled products, including galvanized and tin plate, as well as pre-coated metal products under its “XTONE” brand.

Operators will also benefit from a renewed human-machine interface (HMI) that provides better guidance and situational awareness. Additionally, all servers will be virtualized, increasing resilience, speeding up recovery, and simplifying lifecycle management. Virtualization and process optimization, including an advanced pickling model, will help ensure stable, consistent product quality and efficient operations.

Ensuring a Smooth Transition

The switch to the new systems will be quick and seamless thanks to a “shadow mode and switch-over” setup. Primetals Technologies will connect the new system to the mill environment while the existing system is still in operation. This approach gives the commissioning team valuable production data and configuration insights before the main shutdown begins.

Once the modernization is complete, KG Steel will benefit from increased availability, minimal downtime, faster rolling processes in the entry area, which leads to higher productivity. The new setup is also future-ready, allowing for easy integration of additional digital solutions without major rework.

KG Steel Co. is a leading South Korean producer of steel and cold-rolled products, including cold-rolled and galvanized steel, XTONE, and tin plate steel.



KG Steel and Primetals Technologies' project execution team during the basic design meeting.

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