TSM Smart

Upgrade your Lance Manipulator with a new TempSamp unit!

**Principles.**
- Great ideas are always simple: just add the new TSM Smart unit to your classic BSE Lance Manipulator by using the existing foundation and steel column.
- Temperature and sample taking the proven safe and reliable way.
- The TSM Smart is suitable for most existing classic BSE Lance Manipulators.

**Concept.**
- TSM column movement is servo-controlled for maximum flexibility and adaptation to your existing situation.
- TSM lance movement by electric motor with chain transmission enabling constant measuring levels in the steel bath.
- Using a separate control system for the TSM function secures minimum preparation cost and short installation time.
- Remote control from the operator room for maximum safety and good, motivating work conditions.

**Advantages.**
- Efficient slag door injection and accurate TempSamp function in one tool from one furnace side – no additional floor space required.
- Significant increase of operator safety and process reliability.
- Reduction of tap-to-tap time due to measuring during power-on time without interruption of the furnace operation.
- High availability and reliability due to usage of proven BSE technology and components.
- Quick and easy maintenance.

**NEW!**

**Principles.**
- Simply add the TSM to your existing Lance Manipulator.

**Concept.**
- Cartridge exchange from parking position in safe distance from the furnace door.

**Advantages.**
- Simultaneous usage of TSM lance (right) and up to three injection lances (left).

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Since 1983, the Badische Stahl-Engineering GmbH (BSE) has been acting as a service provider for increasing the efficiency and productivity in the electric steel industry worldwide.

BSE is a sister company of the Badische Stahlwerke GmbH (BSW), one of the world’s most efficient Electric Arc Furnace steel plants.

This unique partnership between BSW and BSE ensures that all products and services provided by BSE are not just based on mere theory, but on more than 4 decades of own proven operational experience.

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