

# TempSamp Manipulator

Base your decisions on safe and precise parameters



## Principles.

- Water-cooled lance taking the present temperature or sample of the steel bath.
- Solutions for EAF, LF and converter – tailor-made for local circumstances.
- Remote operation from the control room or local station, where the melter can make his decisions based on the information given by the TSM.
- Cartridge exchange manually by operator at safe distance from furnace door (parking position).
- Usage of standard cartridge sizes (also CELOX measuring possible).

## Concept.

- Rigid steel construction with base plate, swiveling arm and lance carrying system.
- Connection with base plate by wedges for fast set-up and dismantling.
- Electric motor with chain transmission for lance movement.
- Control unit installed in the furnace control room, containing PLC for the automation, inverter, transformer and necessary commands for TSM operation.
- Different measuring levels pre-defined via HMI, easily adjustable according to customer requirements.

## Advantages.

- Increase of safety and work conditions of operators.
- No interruption of power-on cycle and foaming slag practice during measurement (carbon and oxygen lances do not have to be removed).
- TSM fits with every furnace.
- Temperature measurement / sample taking always done under the same conditions – reproducibility and reliability guaranteed.
- Rigid design based on experience of own steelplant plus highest quality workmanship ensuring a long lifetime and high availability.



*In and out through the slag door – without any process interruption!*



*Good accessibility and clear arrangement of relevant parts...*



*... allowing for quick and easy maintenance.*

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