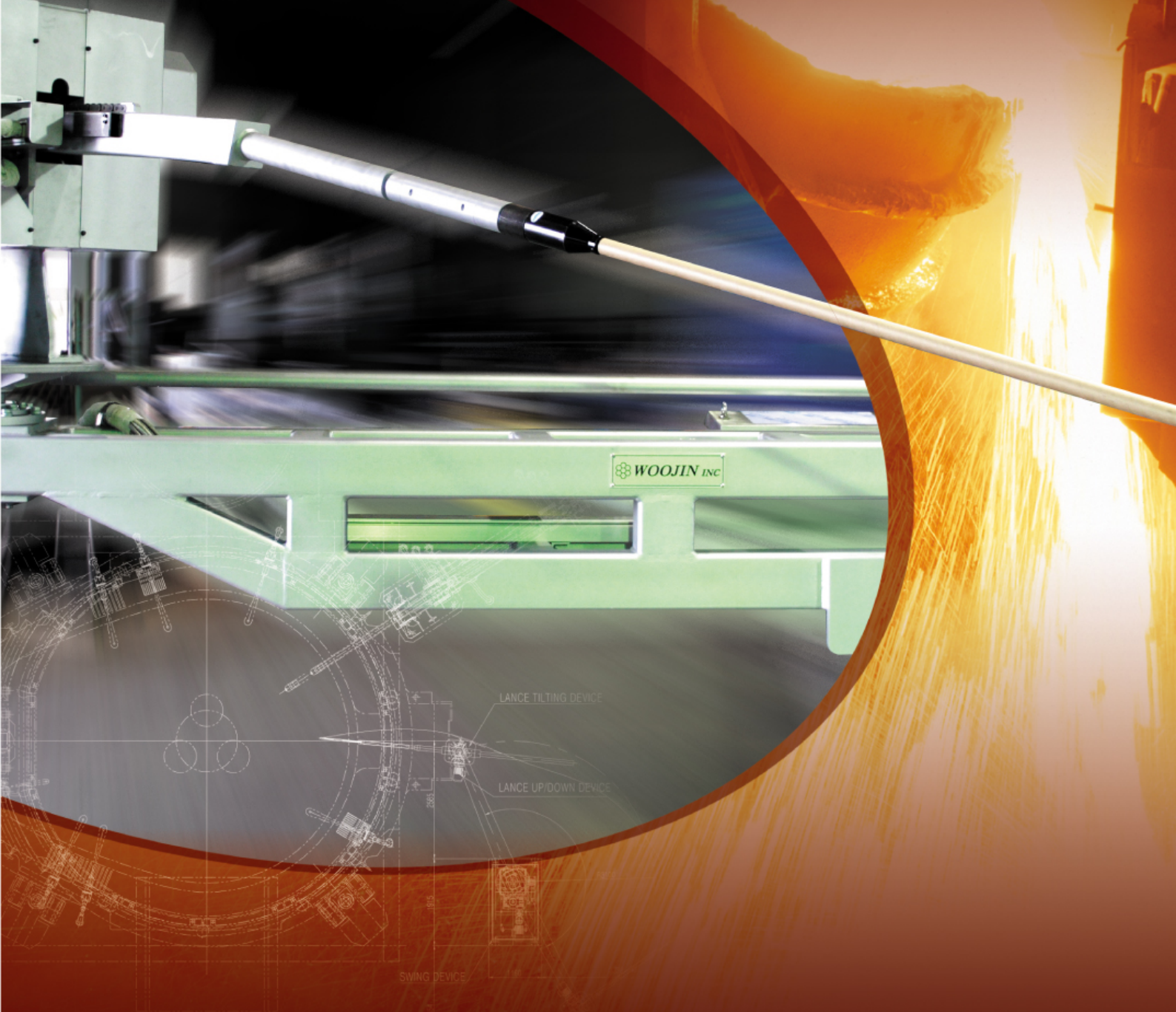


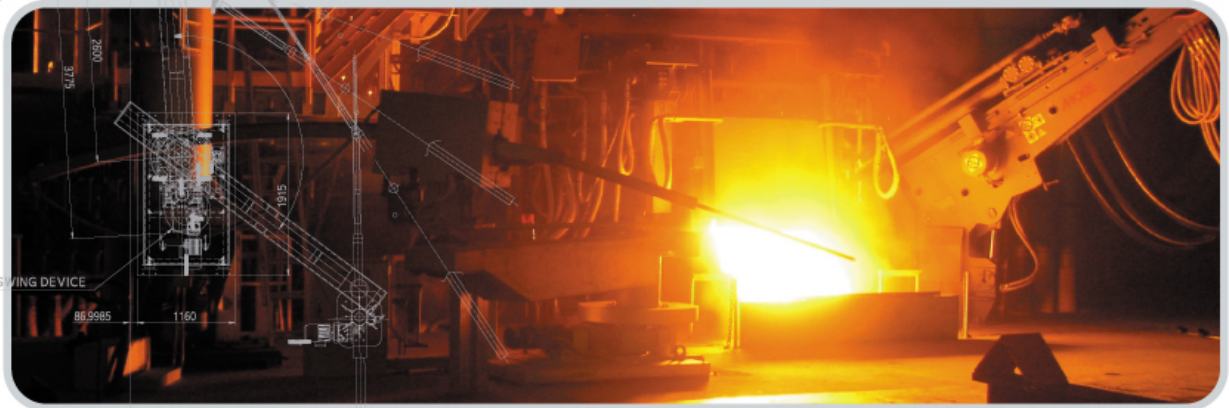
# Automatic Temperature Measuring Equipment For Electric Arc Furnace



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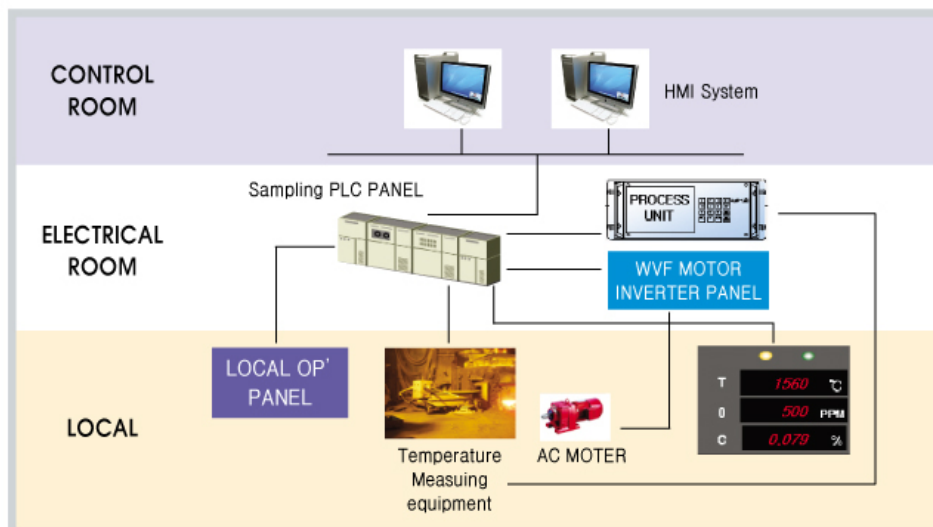
# Outline

This equipment automatically measures the temperature and the oxygen and carbon contents of the molten metal inside the EAF (Electric Arc Furnace).



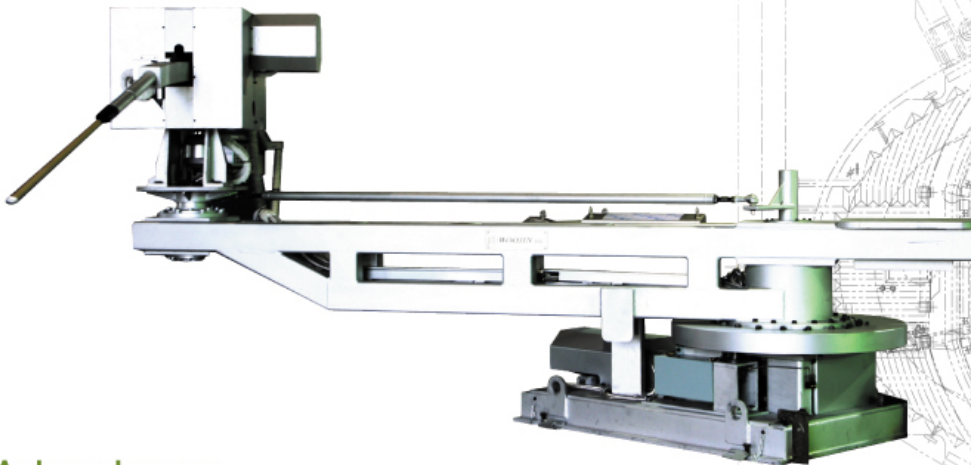
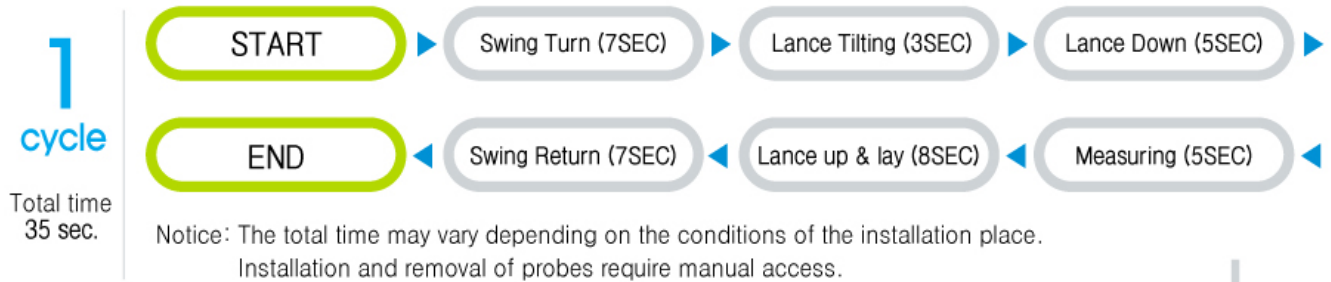
## Components and Operation

- ▶ The equipment is installed in front of the Furnace Slag Door.
- ▶ Installation and removal of probes is done in home position.  
A Swing Motor lets the Horizontal Arm rotate to the measurement position.
- ▶ The lance tilting is driven by a pneumatic cylinder, and an electric motor lets the lance drop down into the furnace bath.
- ▶ Cooling gas is provided at the inside of the lance pipe.
- ▶ Mechanical movements are controlled by PLC and Inverter Control. Data about temperature, oxygen and carbon are calculated by the Process Unit and displayed at the operating spot.





## Operation Mode



## Advantages



- ▶ No interruption of the steelmaking process during measurement.
- ▶ The measurement is always done under the same conditions, therefore reproducibility and reliability are guaranteed.
- ▶ Standardized operation data improves quality of product.
- ▶ Remote control and automated operation for maximum safety.
- ▶ Robust design and high quality workmanship ensure a long life and high availability, even under the toughest and hottest conditions.
- ▶ Low cost and high performance for a quick return on investment.

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