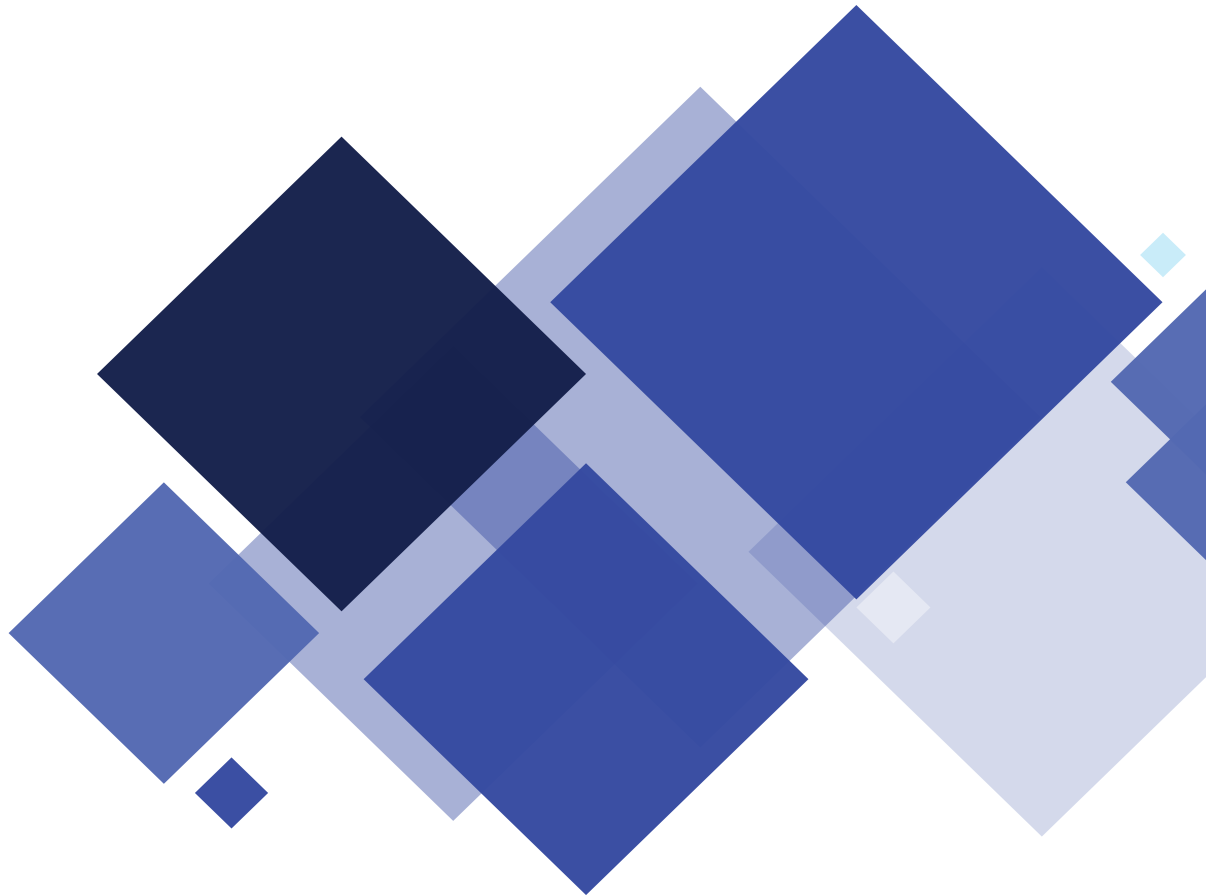




MINCO INDIA



Minco Tech (India) Pvt. Ltd.

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ISO 9001 : 2015 & ISO 13001 : 2015



1. OXYGEN ACTIVITY MEASUREMENT PROBE –LOW & HIGH PPM (MINOX)

Minco expendable Oxygen Probes are designed to provide a reliable content in liquid steels. A electrochemical cell and thermocouple are combined in one unit to provide the steel maker with a dynamic measurement of the oxygen activity during the steel making process. Minco Probes are invaluable for process control during steel production and prove a cost effecting tool for ensuring final product quality.



2. TEMPERATURE TIPS

Minco Thermocouples for molten metal temperature measurement have long been recognized as indispensable tools in the production and refining processes of ferrous and non-ferrous metals. Available in "S", "B", "R" & "K" type with a variety of paper tube lengths and connector systems, Minco thermo-couples meet the needs of every application.





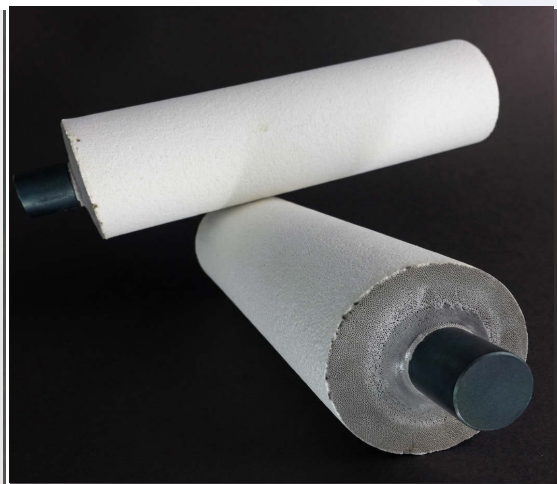
3. 2in1 COMBI PROBE

2in1 combi probe was designed to efficiently measure temperature and take steel sample at the same time, simultaneously using one probe.

This helps with quicker measurement with least exposure to the heat.



SAMPLERS



UCL PROBE

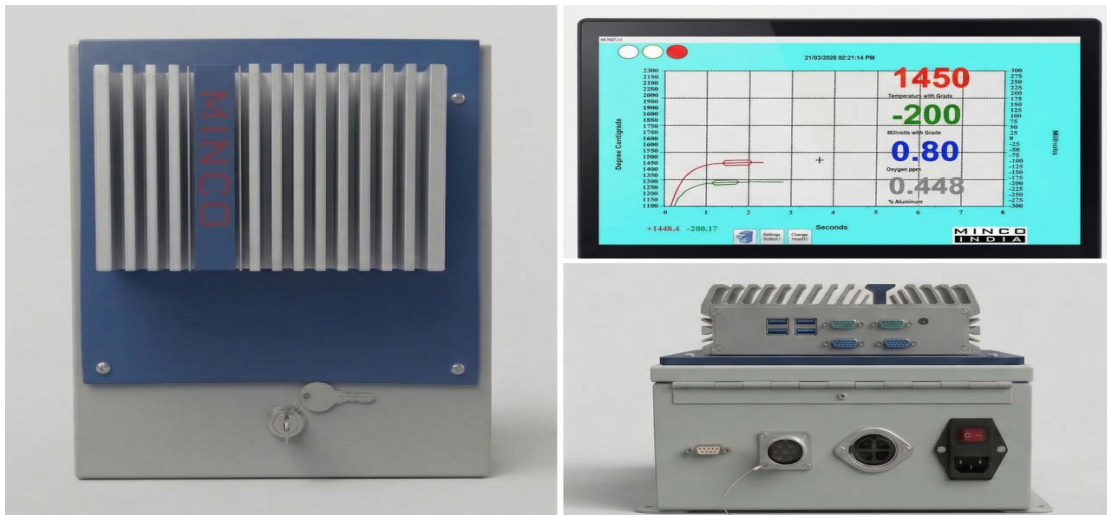
4. SAMPLERS

Aluminum sampler, Zirconium sampler, Ultra low carbon (ULC) sampler

Minco has developed a comprehensive range of low cost expendable Sampler for molten metal.

Minco products considered to be the most reliable, technologically advance and cost effective.





5. METNET (TEMPERATURE, OXYGEN, ALUMINUM & CARBON MEASURING INSTRUMENT IN LIQUID)

The METNET is an all-in-one computer-based data acquisition and analysis system. The instrument is used by the iron and steel industry to acquire data on the characteristics of molten metal. The METNET reads millivolt signals generated by thermocouples, oxygen probes, and carbon probes. The millivolt signals are converted and presented in graphical and/or numerical format. The METNET instrument is one of its kind to graphically display the temperature and millivolt curves on an easy to read color display. The graphical display gives the operator more information for judging the accuracy of the reading, as well as additional curve grading functionality.



6. MIN THERM (TEMPERATURE MEASURING INSTRUMENT IN LIQUID STEEL/HOT METAL)

MIN THERM Measures bath temperature with the help of Thermocouple. It has built-in signal lights

- Ready – green
- Run – yellow
- Complete – red





7. WIRELESS TEMPERATURE & OXYGEN MEASURING SYSTEM

Minco India Wireless Temperature +oxygen measuring System Database storage

- Configurable
- Wireless and Wired pole connectivity



8. HYDROGEN PROBE

Measuring online Hydrogen content in liquid steel. Probe supplied for Tundish & Ladle.





9. Pin Immersion Samplers for Hydrogen Analysis

Sampling with evacuated metal samplers is a quick, efficient, one-person procedure. The sampler is immersed in molten metal for 1 to 3 seconds and, after rapid chilling in Nitrogen, the sampler is placed directly into the analyzer. The same sample is analyzed for both diffusible and residual hydrogen. The sampler is used to obtain samples from a furnace, ladle, LMF, ingot mold, caster mold, or tundish.



10. ONLINE HYDROGEN MEASURING SYSTEM

ONLINE HYDROGEN MEASURING SYSTEM measures directly the amount of hydrogen dissolved in molten metal, more specifically in molten steel. The method of measurement is very effective, accurate, economical, and a determination can be completed rapidly. The analysis instrument and system controls are contained in a single self-contained enclosure and no physical molten metal sampling is required. The instrument can be used for quality assurance, process control, or process engineering.





11. CALIBRATOR

TESTOXI is a testing and calibrating instrument for Oxygen and/or Temperature measuring instrument, Lance and Measuring cable checking Unit.



12. DISPLAY UNIT & SIGNAL INDICATOR :

Large Display unit(SCORE BOARD): Outdoor jumbo display unit

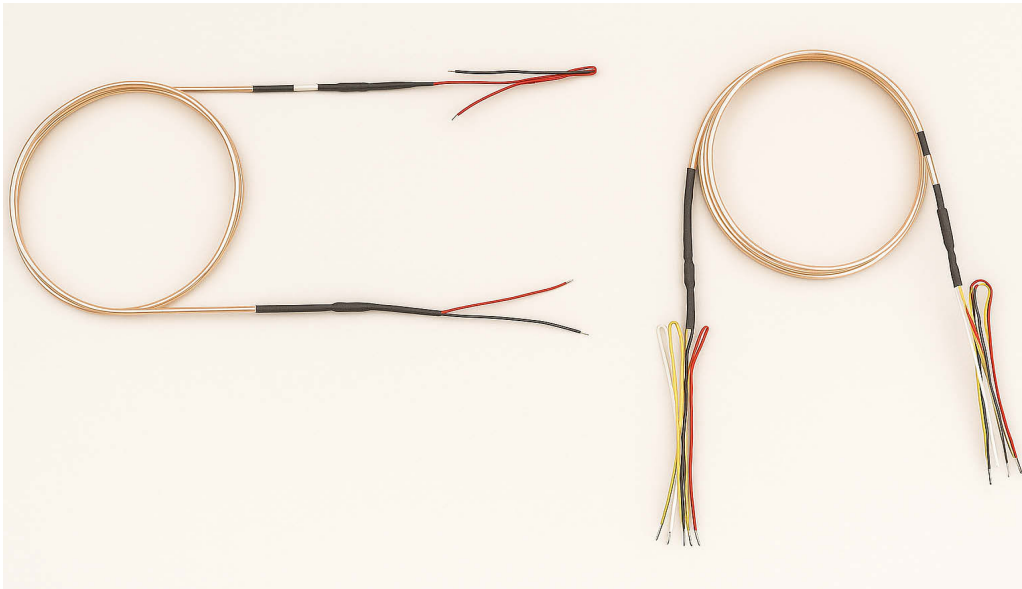
Light Set : Measuring Signal indicator with hooter. Indicate the Ready, Run & complete signal of instruments.



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13. MINERAL INSULATED CABLE:

MINCO MINERAL INSULATED CABLE (MI Cable)

Interior compensating lead wire of four conductors for oxygen PPM measurement and two conductors of S-type and B- type thermocouples is as per IPTS-68.



14. CONTACT BLOCK / RECEPTACLES

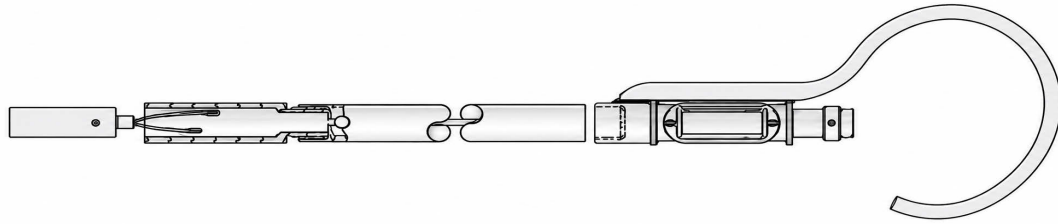
MINCO supplies all common Contact Blocks for measurement lances. For combined oxygen and temperature measurement and for temperature only measurement, MINCO offers standard contact blocks of the versions type S/R/B.



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15. COMPLETE LANCE ASSEMBLY

Lance complete, incl. front pine, Handle and male /Female socket. Length: 4000/4500/5000/ mm or as per requirement (Type S/R/B)



16. CONTINUOUS TEMPERATURE MEASUREMENT SYSTEM (MINTEMP-II)

Tundish molten steel consists of temperature tube, detector, signal processor and display screen. Real-time, continuous and accurate monitoring of molten steel temperature in Tundish can be realized by detecting and analyzing infrared radiation parameters of molten steel..





17. EXTERNAL COMPENSETTING CABLE/LANCE CABLE

Minco High Quality, high strength silicone insulated 2core and 4 core compensating cable.



18. SUB LANCE PROBE (TOS & TCS)

TCS: Temperature measurement of molten steel, estimate of carbon content for controlling the blowing-end condition at a converter, and sampling for analysis.

TOS: Temperature measurement of molten steel, measurement of oxygen activity, and sampling for analysis



[illegible]

19. AUTOMATIC MANUPULATOR/AUTOLANCING SYSTEM FOR TEMPERATURE, OXYGEN AND HYDROGEN MEASUREMENT.