

KEEP TRACK OF YOUR STEEL PRODUCTION

ANYWHERE. ANYTIME.









Trends



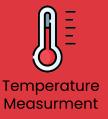
Alloy Consumption



Operation Time















COMPLETE DATA SYNCHRONISATION ACROSS MULTIPLE SITES











Smart MELT

DIGITALIZE YOUR STEEL MAKING.

ACCESS YOUR DAILY PRODUCTION, REPORTS, TRENDS AND ERP

ANYWHERE, ANYTIME.



Smart Melt is a new innovation in the world of Metallurgy. It is an application by Unisons that allows users to completely digitalize their Steelmaking process and make their day-to-day trends and reports available to them anywhere, anytime!

From the Scrapyard to final production, Smart Melt has the capability to record, maintain and display all data to you which will help you to analyze your production cycle in a more efficient and profitable way.



Sampling Time & Spectro Test Results



Furnace Operation Time & Power Usage



Record Temperatures & Tapping Time



Calculation of Scrap Utilization



Synchronize Alarms & Monitoring Systems



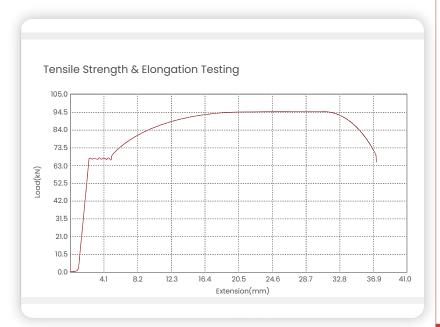
Keep track of Alloy Consumption





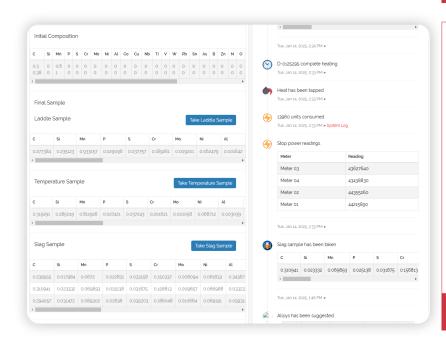
Consumed Units Consumed Units Start End End Date Reading Reading (kwh) Meter Tue, Jan 14, 2025. Tue, Jan 14, 2025. 43627640 3440 43624200 12:27 PM 2:33 PM Meter Tue, Jan 14, 2025. Tue, Jan 14, 2025. 3424 43435410 43438830 12:27 PM 2:33 PM 04 Meter Tue, Jan 14, 2025. Tue, Jan 14, 2025. 3560 44351700 44355260 12:27 PM 2:33 PM 02 Meter Tue, Jan 14, 2025. Tue, Jan 14, 2025. 44215890 3536 44212350 01 12:27 PM 2:33 PM







Universal Testing Machine







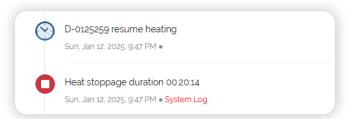
Track stoppage time, duration and reasons.

Smart Melt allows users to track stoppages during the melting process, record the time when the stoppage occured, the total duration as well as the reason for the stoppage.

Heat Stopped



Heat Resumed

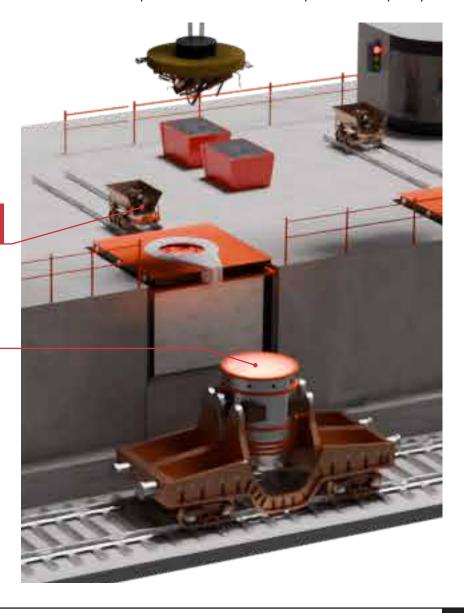


Calculate Scrap to Yield percentage

Smart Melt enables precise calculation of the scrap-to-yield percentage during the melting process. By tracking the amount of scrap input and the resulting output of the final product, it provides valuable insights into material efficiency and process optimization. This feature helps reduce waste, improve cost-effectiveness by analyzing different blends of scrap and ensure consistent production quality.



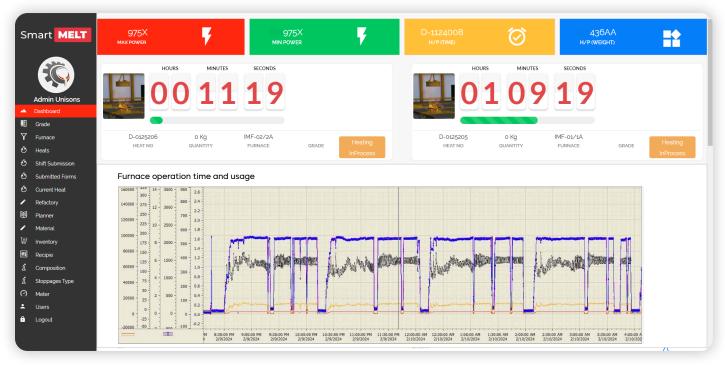
96% Yield output





Furnace Operation Time and Usage

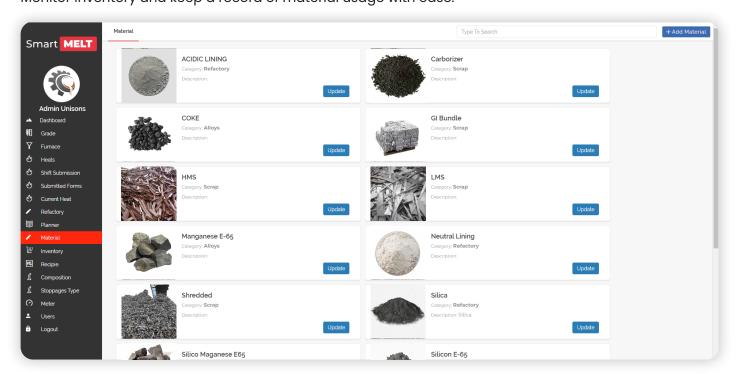
Smart Melt assists in achieving a higher level of efficiency and performance of the induction furnace through digitalized tracking of operation time and power consumption. The following graphs illustratethe relationship between operation time and power consumption, offering insights into energy usage patterns during the melting process.



By automating key functions, **Smart Melt** helps streamline furnace operations, reduce energy costs, and enables real-time analysis and informed decision-making for overall enhanced productivity.

Manage inventory and material usage.

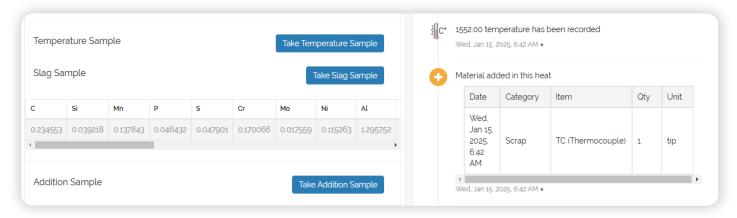
Monitor inventory and keep a record of material usage with ease.





Record Temperatures and Tapping Time

Efficiently record and monitor furnace temperatures and tapping times throughout the melting process. This feature ensures accurate data logging for quality control, process optimization, and improved consistency in operations.

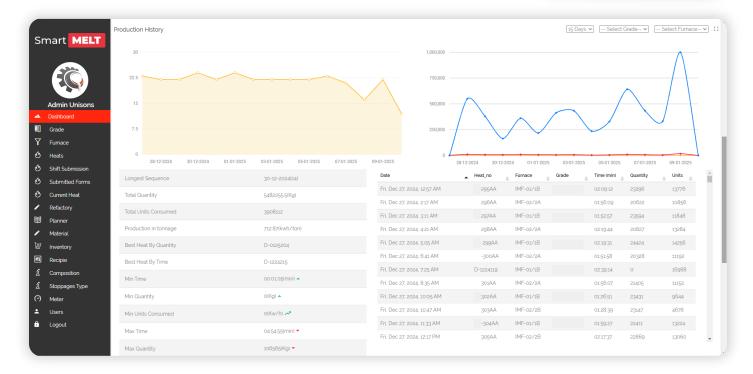


With real-time tracking, Smart Melt enables better decision-making and enhances overall furnace performance.

View trends and production history.

Smart Melt allows users to view their entire production history and trends with the touch of a button. View key information such as total units consumed, total production, longest production time and more.

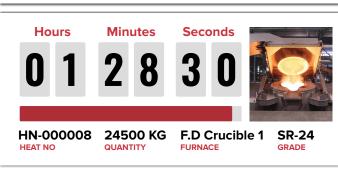


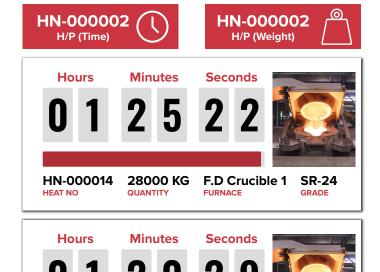




KEEP TRACK OF YOUR FURNACE OPERATIONS.







26000 KG

QUANTITY

F.D Crucible 1

FURNACE

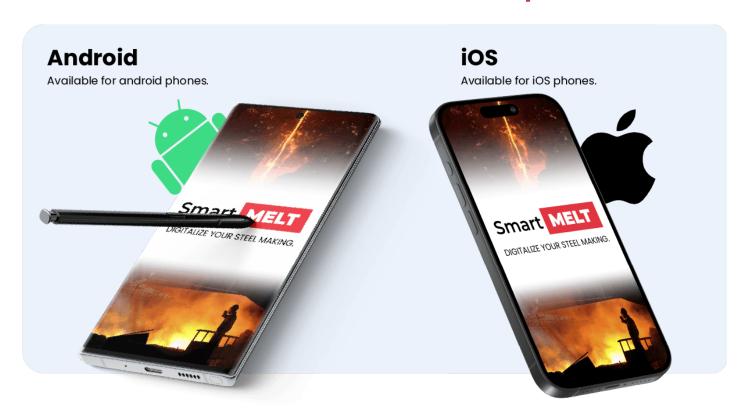
SR-24

GRADE

COMPATIBLE WITH ANDROID, iOS & ERP.

HN-000002

HEAT NO





Precision. Efficiency. Automation.

Power Up Your Melt Shop with



DIGITALIZE YOUR STEEL MAKING.



Trends



Alloy Consumption



Chemical Composition



Quality Control



ERP Synchronisation



Temperature Measurement



Operation Time



Reports



Cost Calculation



Scrap Calculation



Energy Consumption