

# GLOBAL NETWORK



ELECTROTHERM®

DIGITALLY CONTROLLED  
IGBT INVERTER

# IG-nite

FOR FOUNDRIES



Sales & Service  
Installations

## Engineering & Projects Products and Services:

- Induction Melting Furnaces for steel plants for steel, alloy steel and stainless steel making
- Induction Melting / Holding Furnaces for ferrous and non-ferrous foundries
- Electric Arc Furnaces
- Electrotherm Refining Furnaces (LRF) with ELdFOS process
- Metal Refining Konverters (AOD)
- High Speed Continuous Casting Machines
- Coal based Rotary Kiln (Sponge Iron) Plant
- Coal based Tunnel Kiln (Sponge Iron) Plant
- Turnkey Projects for steel making
- Turnkey Projects for Integrated Plant through DRI – SMS route
- Air Pollution Control System
- Material handling equipment like Hydraulic Grabs, Vibratory feeder, Lining Vibrator etc..
- Plant Design and Engineering
- Plant Automation
- Productivity Improvement Equipment (PIE) for improving plant productivity, end product's quality and plant efficiency.



NATIONAL NETWORK



**ELECTROTHERM® (INDIA) LIMITED**

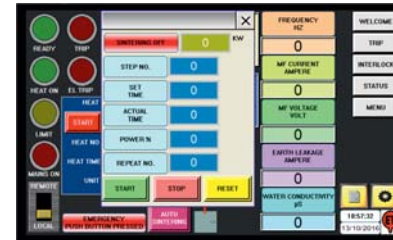
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### Salient Features

- IGBT inverter having latest innovative and efficient technology.
- Short-circuit-proof power circuit to work at any load condition.
- FPGA based fully digital control with colour touch screen operator interface.
- Near unity power factor (> 0.98) at any power level and any metal level.
- Constant output within specified range of input voltage variation.
- Exceptionally stable electronic control circuit.
- Built-in dynamic demand controller for efficient use of energy.
- User programmable auto-sintering cycle.
- User settable dual power limits and frequency to meet most industrial requirements.
- Energy monitoring and data logging system.
- Maintenance-friendly design.
- Global connectivity.



### Advantages of Digitalization

- Generation of specific reports for ease of maintenance and fault diagnosis. Data storage facility through USB drive in csv file format, which can be further opened in MS-Excel.
- Minute-wise logging of electrical parameters like power, MF voltage, coil frequency etc. for over 2 years for further trending and analysis.
- Customized production report like heat number, heat time, electricity consumed etc.
- Alarm history with time and date.
- Continuous monitoring of water conductivity with preset alarms and tripping at two levels.
- Earth leakage protection with adjustable leakage current level.
- Setting of electrical parameters like power, voltage, current from HMI.
- Easily upgradable to higher versions in future.
- Highly user friendly system with provision for language selection in HMI.
- Multi-level password protection system.
- Globally accessible equipment through Ethernet connectivity.