World-wide presence

INTERNATIONAL NETWORK

- Sales & Service
- Installations

NATIONAL NETWORK

Jalandhar
Ludhiana
Mandi Gavindgarh
Delhi
Ghaziabad
Kanpur
Bhiwadi
Muzaffarnagar
Jaipur
Kanpur
Patna
Dhanbad
Kutch **Ahmedabad**
Durgapur
Jamnagar
Jamshedpur
Bhavnagar
Raigarh
Rourkela
Rajkot
Kolkatta
Nagpur
Raipur
Nasik
Jalna
Mumbai
Pune
Wada
Kolhapur
Hyderabad
Belgaum
Bellary
Goa
Banglore
Chennai
Hindupur
Coimbatore
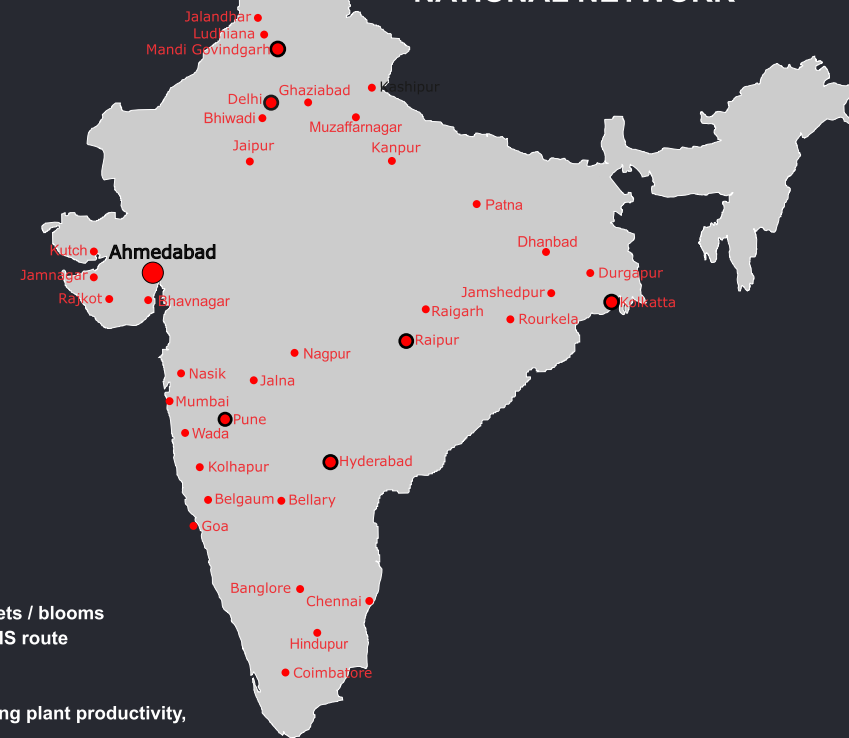
The Range of Products and Services:

Induction Melting Furnaces for steelmaking plants
Induction Melting / Holding Furnaces for ferrous and
non-ferrous foundries
Electric Arc Furnaces
Electrotherm Refining Furnaces (ERF)
Metal Refining Konverters (MRK)
High Speed Continuous Casting Machines
Coal based Rotary Kiln (Sponge Iron) Plant
Coal based Tunnel Kiln (Sponge Iron) Plant
Turnkey Projects for steel melt shop for producing billets / blooms
Turnkey Projects for Integrated Plant through DRI – SMS route
Plant Design and Engineering
Plant Automation
Productivity Improvement Equipment (PIE) for improving plant productivity,
end product's quality and plant efficiency

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Web: www.electrothermnp.com

TUV NORD
TUV India Private Ltd.
ISO 9001

CE

DTi-Smart
FOR FOUNDRIES

Digitally Controlled Ultra Efficient Furnace

MC532 MC530
MC534
MC533
MC531 MC529

Electrotherm's
most successful and efficient
DTi Series is now available
for Foundries

Our customer gets
ETvantage™
on every Purchase

ELECTROTHERM®
The Leader in Steel Melt Shop and Foundry Technology

The Engineering & Projects (E&P) division of Electrotherm (India), the leader in providing total solutions for steelmaking plants, has designed and developed state of the art Digital Technology for Solid State Frequency Converters in the range of 2750 KW to 36000 KW.

The latest in-house development of **D**igital **T**echnology with **I**ntelligent **Smart** Controller, DT**i**-*Smart*, offers from 350 KW to 2500 KW power rating and have numerous special attributes, viz.

- Fiber optic isolation for noise free control of inverter that provides highly reliable and robust power supply in its category.
- Failsafe operation under short-circuit, over voltage/under voltage.
- Color touch screen operator interface.
- Digital control using embedded technology with active energy control algorithm for lowest energy consumption
- Average power factor ($\geq$ 0.97).
- Constant output within specified range of input voltage variation.

- Built in dynamic demand controller for efficient use of energy*.
- User friendly programmable auto sintering cycle.
- User settable dual power limits and frequencies to meet most industrial requirements.
- Energy monitoring and data logging system.
- Maintenance friendly design.
- Global connectivity.
- 12-Pulse configuration to accomplish low level of Harmonics.

* up to 1500 KW DTi-Smart

Advantages of Digitalization

- Generation of specific pop up for system maintenance and fault diagnosis.
- Minute-wise logging of electrical parameters like power, MF voltage, coil frequency etc. over a historical span of 2 years for further trending and analysis.
- Customized production report log like heat number, heat time and electricity consumed etc. Data Storage facility through USB drive in CSV file format.
- Alarm history with time and date log.
- Continuous monitoring of water conductivity with tripping level.
- Earth leakage protection with adjustable leakage current level.
- Setting of electrical parameters like power, voltage, current through HMI.
- Easily upgradable to higher versions in future.
- Highly user friendly system with provision of language selection in HMI.

- Multi-level password protection system.
- Globally accessible equipment through ethernet connectivity.