

Our Strengths

About us:

The name Megatherm is synonymous to Quality. It deals in Metal Heating & Melting and possesses the strength to meet Thermal Challenges through Induction. Since its inception in 1989 it has been making its presence felt across Steel, Foundry, Forging and various other Metal Working Sectors. Its installations are spread over 40 countries over the globe and it is recognized and preferred by its over-extending list of Domestic and International Clientele. On an aggregate the company has over 2500 satisfied customers of Electro Heating Equipment till date. Megatherm is committed to customer delight and performance excellence. Its systems are incorporated with the best contemporary technology that ensures optimum utility and comprehensive productivity.

Infrastructure:

- 2 Manufacturing Units
- ISO:9001:2008 TUV NORD Certified
- Fully Integrated Manufacturing
- Extensive R&D Facility
- 25 Branch Offices in India & Abroad
- Strong Service Network

Markets Served:

- Steel Sector Melt-shops using sponge iron & steel scraps as feed stock
- Foundry Sector Melt-shops producing Castings for Automobile & Engineering Sectors
- Forging Sector producing rings for Bearing & Automobile Industries besides various forged auto & engineering parts
- Various Metal Working Sectors Covering Extrusion, Pipe drawing, Section rolling, Annealing, Tempering & Hardening
- Special Applications such as Pipe heating for Spin forming of Gas Cylinders, Graphite Sintering for Graphite Electrodes etc.

Some of our noted clients:



Global Presence



Afghanistan | Algeria | Angola | Argentina | Azerbaijan
Bangladesh | Bhutan | Bolivia | Botswana | Brazil | Cuba
Egypt | Ethiopia | France | Georgia | Ghana | India | Indonesia | Iran
Iraq | Ivory Coast | Jordan | Kazakhstan | Kenya | Kuwait
Libya | Malaysia | Mexico | Nepal | Nigeria | Pakistan | Poland
Saudi Arabia | South Africa | Sudan | Taiwan | Tanzania | Tunisia
U.A.E | Uganda | Uzbekistan | Yemen



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Meeting Thermal Challenges through Induction



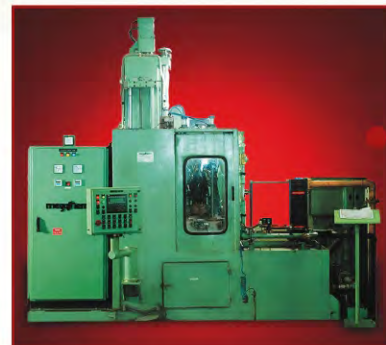


Induction Billet Heaters

(100 KW - 8000 KW)

Induction Mass Heating technology is used in the following Metal Working Processes:

- Forging
- Extrusion
- Rolling
- Annealing
- Bar Heating
- On Line Heating
- Cathode Drying



Induction Hardening & Heat Treating Equipment

Our Induction Hardening Machines cover the following range:

Output Power - 25KW through 500KW
Frequency -

- 1 kHz-10 kHz-Medium Frequency
- 30 kHz-100 kHz-High Frequency
- 100 kHz - 400 kHz-Radio Frequency

Machine types - Vertical Scan hardening, Horizontal scan hardening, Lift & Rotate, Rotary indexing with pick & place systems integrated
Controls - Allen Bradley, Siemens, Mitsubishi CNC / PLC systems with energy monitoring, quench monitoring and temperature feedback systems
Accessories - De-Mineralized water recirculating type cooling systems, quench media re-cooling and recirculating systems, Inductors, Quench rings and various kinds of work holding fixtures.



Induction Melting & Holding Furnaces

(5 Kg - 50 Ton)

Our Induction Melting & Holding Furnaces offer the following:

- Rugged construction
- Easy maintainability
- Most efficient power consumption in its class
- High power factor
- Optional accessories such as Protective Net Guards, Closed Capture Fume Hoods, Stationery Fume Suctions Rings with Swiveling Lid, Quick Lining Removal Mechanism, Pneumatically operated remote furnace charge over cum isolation switches, Load Cell Arrangement etc.



Static Frequency Converter

- 6/12/24 Pulse options
- Power sharing options: twin/multiple
- Range available 5 kW - 20 MW, Frequency 0.1kHz - 200kHz, Thyristor/IGBT



Ladle Refining Furnace

(12 Ton to 70 Ton)

Objectives of Ladle Refining Furnace are:

- Removal of Oxygen (Deoxidization)
- Removal of Hydrogen (Degassing)
- Reducing sulfur concentrations as low as 0.002% (Desulfurization)
- Removal of undesirable nonmetallic elements (Micro-cleanliness)
- Changing the composition of remaining impurities to improve the microstructure (homogeneity) of the steel (Inclusion morphology)
- Increasing toughness, ductility, transverse properties (Mechanical properties and also for temperature rise (Superheating).



Electric Arc Furnace

(5 Ton - 70 Ton)

- Used for Steelmaking and Smelting of Non-Ferrous metal.
- Used in Metallurgical Sector due to its diverse melting application which helps to produce Steel as per desired chemical composition.
- The EAF effectively melts all type of Scrap irrespective of chemical composition or size and also melts Direct Reduced Iron (D.R.I) / Sponge Iron.

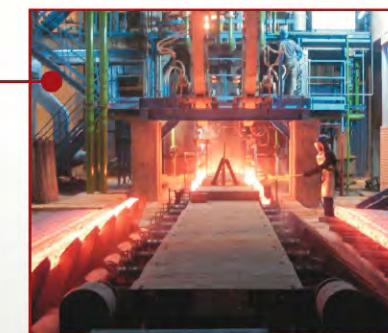


Transformer

(Up to 40MVA@33/66/132 KV Class)

Megatherm has the following types of transformers:

- Converter Transformers - For Induction Melting / Heating Equipment, AC-DC Drives, Industrial Rectifier etc. up to 25 MVA @ 6.6 / 11 / 22 / 33 kV Class
- Electric Arc and Ladle Refining Furnace Transformers - Up to 20 MVA @ 11 / 22 / 33 kV Class
- Distribution Transformers - Up to 5 MVA @ 11 / 22 / 33 kV Class
- Power Transformers - Up to 40 MVA @ 33 / 66 / 132 kV Class
- Locomotive Transformers - Single & Three Phase: Up to 7.5 MVA @ 6.6 / 11 / 22 / 33 kV Class



Continuous Casting Machine (CCM)

Product Range:

- 4/7 Meter Radius, 2 or 3 Strand
- 6/11 Meter Radius, 2 or 3 Strand
- Billet Range (100 sq to 160 sq)
- Direct hot charging to rolling mill optional