



# Thermafield

**Power Components Pvt. Ltd.**

Genuine & Reliable Induction Furnace Spares



## About Us

We are happy to present ourselves as a reputed manufacturer of Induction Melting & Furnace Equipment Spares.

**Thermafield Power Components Pvt. Ltd.** is a Professionally managed, group of highly qualified & experienced engineers who having work with inductotherm, electrotherm etc, which continuously put their efforts for value addition in the product. We commenced our production in the year 2009, and within very short period of time we are having more than 1200 satisfied customers across india and overseas. We are having fully equipped production unit at Changodar near Ahmadabad and developed modern infrastructure housing machine shop, assembly shop along with in-process testing facilities for its range of products in the area.this unit is spread over an area of 2000 sq. yard and is fully equipped with all required machinery and trained personnel/Technicians. Our Production unit is strategically designed to meet the stringent quality standards and all the needs of our valued customers.

We at Thermafield, Offering a wide range of Induction Melting Furnace Spare Parts, Induction Heating Furnace Spares of Mechanical, Electrical, Control systems, Hydraulics, Pnumatics, Concasts, Rolling mills etc known for their precise design, dimensions toughness and durability which are Authentic, Affordable, cost effective, Genuine and high quality standards.

## Client Satisfaction

Ours is a client centric firm and therefore, we devote utmost importance towards understanding the requirements of our clients and catering to them accordingly. As a result of our client based nature, we have assigned a separate team of client servicing executives, who remain in regular contact with our patrons. This helps us to understand the changing requirements of clients and hence, are able to come up with the most preferred products.

## Main Export Market (s)

Asia (Indonesia, Taiwan, Sri Lanka, Bangladesh), Australia, North America, South America, Middle East, Africa

## Melting Induction Power Supply with Furnace Box



We are Designing and launching manufacturing of Solid state Power supply unit design as per following combinations.

75kw,125kw,175kw,200kw,250kw,  
350kw,450kw,550kw,750kw,  
1000kw,1250kw,1500kw

We are already manufacturing all kind of Duraline coreless induction melting furnace of various sizes like.....

50kg,100kg,150kg,250kg,300kg,  
500kg,750kg,1000kg,1500kg,  
2000kg,3000kg,4/5 ton , 6 ton,  
7 ton,8 ton ,10 ton & All Type of  
Steel Frame with matching with  
any type of Power supply units.



## Induction Melting Furnace Coil

Induction Coil is made from 99% conductive ETH grade of copper hollow (square or round) tube is energy efficient design to draw sufficient designed current with required kilowatt.

We are supplying any kind of spare coils for furnaces. However, design and manufacture Induction Melting coil for Induction Furnace Assembly matching with 50KW to 7500KW induction Power Supply Unit.

Supplying various part of coil part as spares like, Cu tube wound turns, coil brass connections, Coil power tab cu flat, Wood/FRP coil supports, Brass CSK bolt and its nut washer set.etc

We are having specially designed energy efficient Coil for various kilowatts matching which are proven for power saving.

### For Example

#### **How to be reduce Power Consumption.**

By Increasing Coil Diameter Saves Power Consumption.

Practical Exercises followed on **7ton /2500KW.**

Existing Coil Diameter – 46 inches.

Daily KWH Consumed – 55510 units. (Total 12 heats/day)

Taken average Heat Size – 7200Kg

Total Production Achieved / day – 7200 X 12 = 86400Kg

Unit Consumed / ton –  $\frac{55510 \text{ KWH} \times 1000}{86400 \text{ Kg}} = 642.47$

Say-643 units/ ton.

#### **By increased Coil diameter with New Design to - 48 inches.**

Achieved average Heat Size – 8072Kg, Say – 8050Kg.

Heats achieved / Daily – 11 no.

Average Production achieved / day – 8050 X 11 = 88550Kg.

So, saved power / per ton = 643 – 627 = 16 units / ton.



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## Complete Furnace Assly Matching With Any Kw Power Supply Unit



Since our inception in the year 2009, we have successfully been engaged in manufacturing, exporting and supplying a wide range of best quality Induction Melting Furnace Assembly of coreless as well as Frame type design . we supplied such assembly in modern foundries/steel shops,rolling mills matching with any kw power supply of inductotherm or electrotherm furnaces. The provided assembly is manufactured by utilizing high grade components and latest techniques under experts' guidance at our premises. In addition to this, the provided Induction Furnace Assemblies with some required changes/Modifications to make it more reliable, rugged to last long operation. (Range from 25kg to 25ton capacity.)

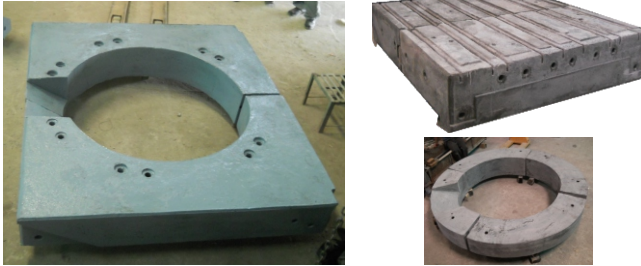
### Features

- Heavy and Robust construction
- High performance
- Easy for maintenance.
- Longer service life
- Power Efficient Design





## Refractory Castable Top / Bottom Blocks

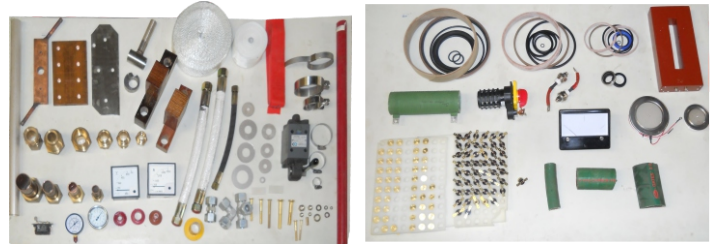


Having an enormous experience and profound knowledge & expertise in the this industry, we are a renowned manufacturer and supplier of Refractory Castable Top/bottom Block. used in industrial furnaces To comply with the set industrial norms, we use finest quality materials to manufacture the blocks. Our quality inspectors check the Refractory Castable Top/bottom Block on durability and finishing parameters to offer a flawless range to the clients. We are smanufacturer and supplier of all kind of furnaces castable blocks of like inductotherm, electrotherm,megatherm furnace

### Features

- Rugged design
- Crack free finishing (sometime redesigned for reduce unwanted breaking)
- Easy to assemble

## Spare Part Induction Furnace



To keep pace with the fast changing trends of the industry and customer demands, we are engaged in manufacturing and supplying an extensive range of Spare Part Induction Furnace. These parts are manufactured under the strict supervision of the expert professionals using high quality materials, sourced from reliable vendors. The parts are made available for the clients in different sizes, diameters and finishing as to suit the client's requirements and. We offer our Spare Part Induction Furnace at reasonable prices. Standards of major all manufacturer of furnaces like inductotherm electrotherm etc

### Features

- Rust proof finishing
- Durable quality
- Genuine raw material and reliable

## Electromagnetic Components



(Like current limiting reactor, Di/DT,SCP choke etc)

As a professionally managed firm, we are engaged in manufacturing and supplying an exclusive range of Electromagnetic Components. These components are used in electrical circuit of furnace panel. We manufacture the components using optimum grade components, sourced from certified vendors. The clients can avail our Electromagnetic Components in different sizes and specifications as per their requirements and original furnace manufacturer standards.

### Features

- Compactly designed
- Durable quality
- Toughness and rugged design for long life

## Magnetic Yoke/Shunts

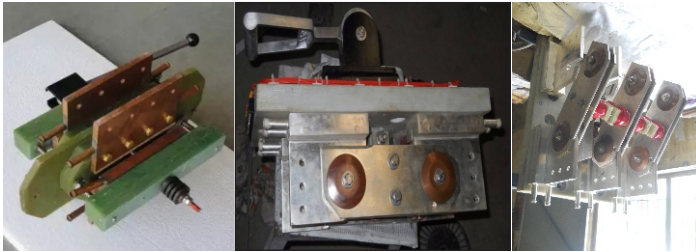


Supported by a group of highly qualified & experienced engineers, supplying an exclusive range of Magnetic Yoke of any sizes of major furnace manufactures with same dimensions and quality. We manufacture the yoke, using high quality raw materials, procured from the most reliable and trusted vendors. Our Magnetic Yoke is available in different models and specifications as per the client's

### Requirements

- Easy to use/fitment
- Sturdy design for long life
- Durable quality of CRGO/CRNGO stamping

## Selector Switches



Our progressive organizational structure and excellent technological aid have laid us towards manufacturing and supplying high quality Furnace Selector/isolation Switches of Inductotherm, Electrotherm, Megatherm These switched are manufactured in compliance with the set industrial norms, using only high quality materials. Available in different sizes, models and finishing, these switched are used in various electric furnaces of well known manufacturers. We offer our Furnace Selector Switches at the cost effective prices to the clients and deliver within the committed time frame.

### Features

- Corrosion proof finishing
- Sturdy construction
- Longer service life
- Electrically / Mechanically tested at set up.

## Semiconductor Fuse and Thyristors



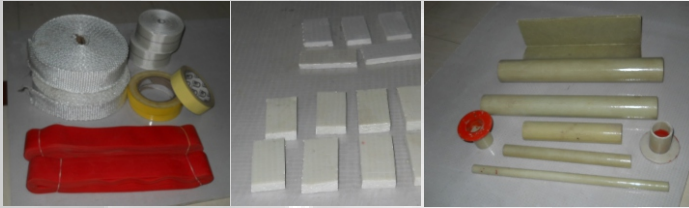
We have marked our strong presence in the market by supplying an excellent quality IGBT Transistor, Semiconductor fuse, SCRs, Diodes, etc of known brand. used in Induction furnaces,. Our dexterous personnel team check for high quality materials, procured from the most authentic vendors. We can make the semiconductor material available for the clients in different sizes and designs as per their requirements.

### Features

- Resistant to impact, long last performance at optimum load
- Over rating designed to handle extra electrical stress.
- Matching with Electrical systems design



## Insulation Material

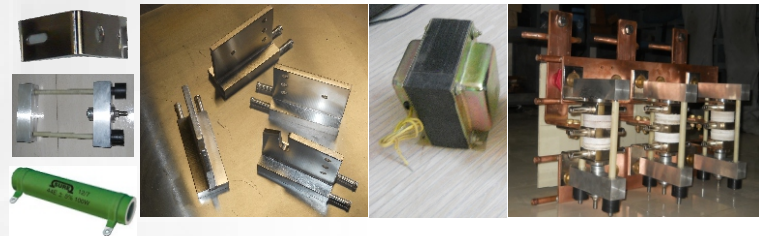


We have a team of well trained technicians, who help us to manufacture and supply an extensive range of Insulation Material. These materials are used in melting and heating furnaces for insulation purposes. We manufacture these materials, using high quality raw materials, procured from the known and referred vendors of inductotherm, Electrotherms. Our quality inspectors check the Insulation Material on certain quality parameters before offering to the clients at the market leading prices.

Types of such materials are.....

1. Silicon rubber tapes
2. Fibre glass insulations tape
3. Woven tape
4. Flexocoat base and hardener for coal coating, FRP Varnish
5. Polyester resin or varnish
6. Every type of Epoxy resin material used in various applications.
7. FRP spacer used in separation of coil turns

## Various parts used in Power Panel



These are specially designed and dimensionally suitable to fit without deviation of machines performance with their existing place with same quality of original furnace manufacturer.

There are following parts that can be included in this group.

1. Thyristor clamp assembly
2. Chiller device of Thyristors
3. Insulating bushes used in clamp assembly
4. Hardware of clamp assembly
5. Various types of Teflon and FRP sleeve wires used
6. Panel meters
7. Gauges, thermostat or sensors used
8. Panel & Ext. Cu Busbars

## Electronics circuit Control boards & modules

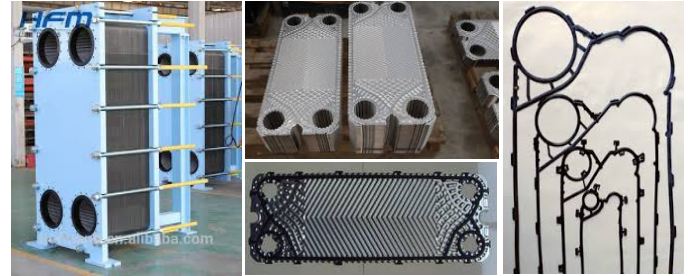


We are manufacturing and Repairing of all kind of Electronics circuit board of the furnace panel of inductotherm ,Electrotherm and megatherm make.

There are as per following.

1. Main control board
2. Inv firing circuit board
3. Converter firing circuit board
4. Ground leak detector modules
5. Monitor boards
6. Various type of potential sensors
7. Short circuit protection modules
8. ACI
9. Potential Sensors

## Heat Exchanger Assly Its Plates & Gaskets



We supply water heat exchanger assembly and its plates as per required KW and KG combination. or any special requirement

GEA make PHE Assembly of following model

VT-10, VT-20, VT-40, VT-20 CDS10, CDL-10 and

NT50T,NT150 etc

SWEP make PHE Assembly of following model:

GX-12 and GX-26 or any

ALFA LAVAL make PHE Assembly and Plates.

P22 and all other series

## Various parts used in Furnace assly



These are specially designed and dimensionally suitable to fit without deviation of machines performance with there existing place with same quality of original furnace manufacturer.

There are following part can includes in these group.

1. Pouring Spout
2. Cylinder cover and rod end bearing of pivot.
3. Various sizes of SS tie rods
4. SS hardware like nut bolt and other parts
5. Front and back covers of furnace
6. Platform support and its part
7. Insulating sheets and parts used at various places.

## Hydraulics Cylinders, Seal kits, Flexible hoses.



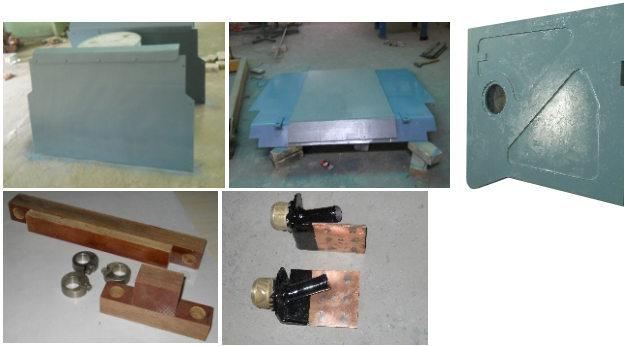
We offer following types of Hydraulic Cylinder for Induction Melting Furnace application:

- Tilting Hydraulic Cylinder for any KG, any make of induction Furnace
- Hyd cyl rod end bearing blocks
- Hydraulic Push out Mechanism Cylinder
- Hydraulic Lid Mechanism Cylinder

Seal Kits are available for all above types of Hydraulic Cylinder

Non conductive Flexible hose used for hydraulic pipe line and its all type of fittings.

## Miscellaneous spare part of the furnace accessories



We are supplying all kind spares like following

1. Hyd directional control tilting valve of any make
2. Restraining wood part of the furnace coil
3. Various type of Mica washers and fitting bush
4. All type of SS clamps used in furnaces
5. Busbar adapters of WCL (at busbar end)
6. Control switches and push buttons

## Furnace Hydraulics Accessorise



1 HP,3 HP,5 HP,7.5HP,10 HP,12 HP,15 HP and so on.

Also supplying spares of these unit like gear pump, gear motors, Various gauges and valves.

Directional control valves

of Rexroth, Polyhydron and any other makes.

## WATER COOL CABLE



Made from finest grade of carbon free rubber hose (mostly Gates), 99% conductive ropes, asbestos cloth wrapped, machine press double clamps crimped both end.

Manufacture of all kind WCL cables like inductotherm, electrotherm, megatherm etc.

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## Snubber capacitors and diodes of Panal.

We are supplying All type of inverter circuit parts like inv CT, Snubber caps, its diode and small size resistors

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## Other services

1. We are offering services of all type furnace throughout in India and abroad
2. We are doing erection and commissioning all type induction melting furnaces
3. We are also offering up-gradation and modification of furnace. up gradation means power increment and modification means converter inverter or circuit control system modification in latest design
4. We are doing turnkey project from civil work to crane, shade, furnace erection and commissioning work
5. We are supplying crane and rolling mill spares

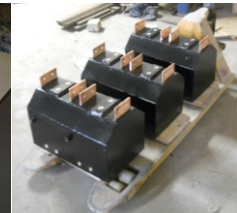


## OUR CLIENTS





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Block-B/9, Plot No. 21/22, Opp. Unison Pharma,  
Steel Town, Sarkhej-Bavla Highway,  
Changodar, Village-Mbraiya,  
Tal. Sanand, Dist. Ahmedabad-382213  
E-mail: [thermafield@gmail.com](mailto:thermafield@gmail.com)  
Web: [www.thermafield.com](http://www.thermafield.com)

Inquiry @ +91 - 93761 32688