



Aussietherm

INDIA

BORN TO BE A CREATOR



Australian Designed, Indian Made
Leading Edge Induction Technology



MIT Is An Australian Company, Based In Melbourne, Australia. AIT (Aussietherm India) is subsidiary of MIT Australia.

INTRODUCTION

- Since, 2000 MIT has invested significant funds in the research and development of the latest generation of the induction Melting, Holding and Pouring Furnaces.
- Our continuous research and development has enabled us to deliver the leading edge induction Melting Systems to foundries around the world.
- Our state of the art manufacturing facility in Melbourne Australia fully fitted with the latest machinery and in house testing of the furnace prior to dispatch.
- Now, AIT (Aussietherm India) has started manufacturing induction furnaces in Moraiya, Ahmedabad India for indian market as well as . overseas market.



LIP



Aussietherm
INDIA

Linear Induction Power

**BUILT WITH STATE OF THE ART
FIBRE OPTIC TECHNOLOGY**

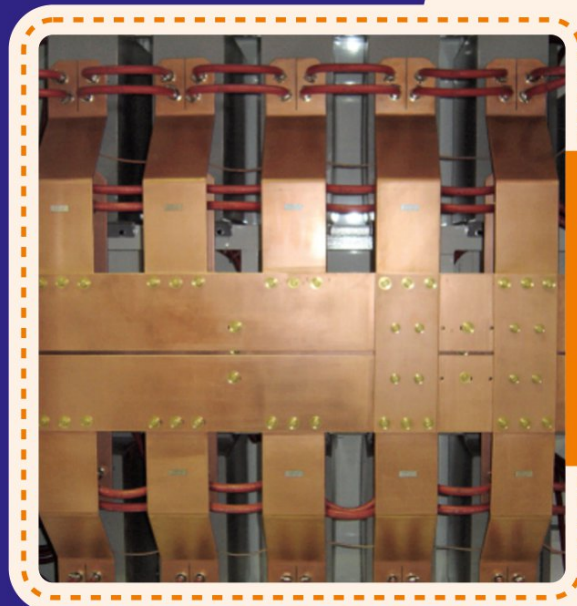


FROM 25 KW TO 20,000 KW
50Hz - 10,000 Hz

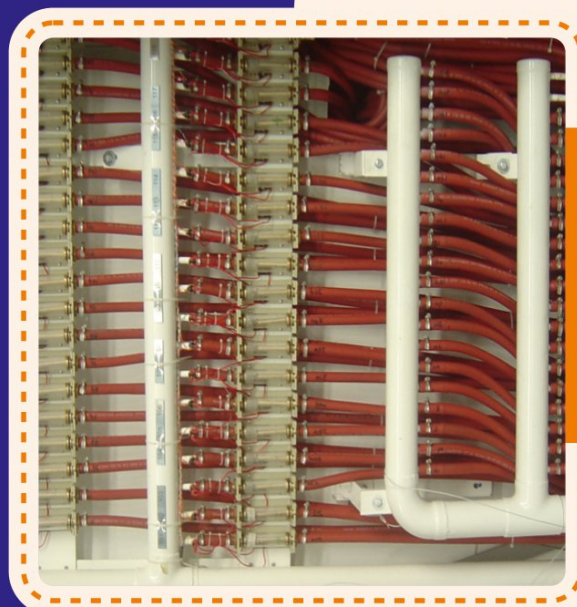
SIMPLE & EASY CONTROL



- Digital meters for easy read out for the operators.
- Linear and smooth power control.
- Computer interface with full control.
- Dedicated control monitor.
- Remote access via internet anywhere in the world via pc or phone



- Fully enclosed, dedicated capacitor bank.
- Each capacitor fitted with internal pressure switch.
- Easy access for maintenance.
- Highly conducted copper busbars



- Dedicated Door for the internal water manifolds access.
- Internal water pressure and temperature displayed outside the cabinet.

Key Features of the Proposed Induction Melting & Holding System



POWER FACTOR ABOVE 0.95 / 0.98 AT ALL POWER LEVELS :

- All our machines has the Power Factor above 0.95 / 0.98 at all power levels. Higher power factor means that our machine required less KVA than the Parallel inverter design and Line distortions are minimum at all power level.

POWER CONSUMPTION :

- Our digital control operates the furnace to maximum efficiency that resulted best Possible power consumption.

DIGITAL CONTROLS :

- Completely digital control including the digital meters for operators.

NOISE FREE SCR FIRING CIRCUIT :

- Fibre optic cables for all the critical signals such as Firing Signal to Inverter SCRs, Converter SCRs, Over Voltage Detection etc. Fibre optic cable has the following advantages over the conventional wire.
 - Fibre optic signal eliminate the false tripping those relates to the misfiring of SCRs due to the noise picked up by the conventional cables in the heavy magnetic field due to Induction.
 - Fibre optic cable has the lighting speed to transmit the signal. The life of the SCRs will be greater as the firing pulses are withdrawn in microseconds instead of mili seconds. This reduces the time for the critical excessive stress on the SCRs and Capacitors in the event of short circuit or over voltage.

ACTIVE FIRING CARDS :

- Active Firing Cards are used for all the SCR triggering. These firing cards have the inbuilt signal conditioning circuit that ensure the healthy firing Pulse to the SCRs under any condition.

SIMPLE & MAINTENANCE FRIENDLY LAYOUT :

- Simple and maintenance friendly layout of the Induction melting System

COMPACT DESIGN :

- Compact design containing all the power components inside the cabinet that makes the installation easy and also protects the components from dust and airborne objects.
- Rigid and wider Steel Shell/Frame furnace. Customer can save lot of money in the installation.



CHOICE OF LAYOUT

**INDUCTION POWER SUPPLY CAN BE
INSTALLED ON THE PLATFORM**



OR

**INDUCTION POWER SUPPLY
CAN BE INSTALLED UNDERGROUND.**



FOR DETAILS PLEASE CALL

AUSSIETHERM INDIA

ABHAY INDUCTION TECH PVT. LTD.

12/C, New Ahmedabad Estate, Opp. Bigbasket, Moraiya, Ahmedabad-382 213.

WEB : www.aussiethermindia.co.in EMAIL : sales.aussietherm@gmail.com

SALES & SERVICE NETWORK

NORTH ZONE ☎ 72289 57231 | SOUTH ZONE ☎ 72289 57232 | WEST ZONE ☎ 72289 57233 | HEAD OFFICE AHMEDABAD ☎ 72289 57234

LIP-250

Type 'A'

25 - 250 Kw
500 - 10,000Hz



COMPACT DESIGN.
WITH ON BOARD
INTERNAL
WATER COOLING
SYSTEM.

Type 'B'

LIP-750

From
250 - 750 Kw

WITHOUT
MELT
DOCTOR



COMPACT DESIGN.
ALL COMPONENTS INSIDE ONE CABINET.

LIP-3000

750 – 3000 Kw

Type 'C'



**WITH MELT
DOCTOR**

**COMPACT DESIGN.
ALL COMPONENTS
INSIDE ONE CABINET.**

LIP-25000

750 – 25000 Kw

Type 'D'



- **24 Pulse Power Factor Above 0.98
At All Power Levels**
- **No Need For Power Factor Correction Capacitor**
 - **Low Energy Consumption**

DUAL MELTING SYSTEM

MELT & HOLD IN MULTIPLE FURNACES



- Compact design for multiple outputs.
- Automatic power sharing between multiple furnaces.
- Automatic maximum power (kw) demand control



DLIP

DUAL LINEAR INDUCTION POWER



**DUAL OR MULTI MELTING
LINEAR INDUCTION MELTING SYSTEM
ENABLE THE OPERATORS TO MELT
& HOLD IN MORE THAN ONE FURNACE
SIMULTANEOUSLY**



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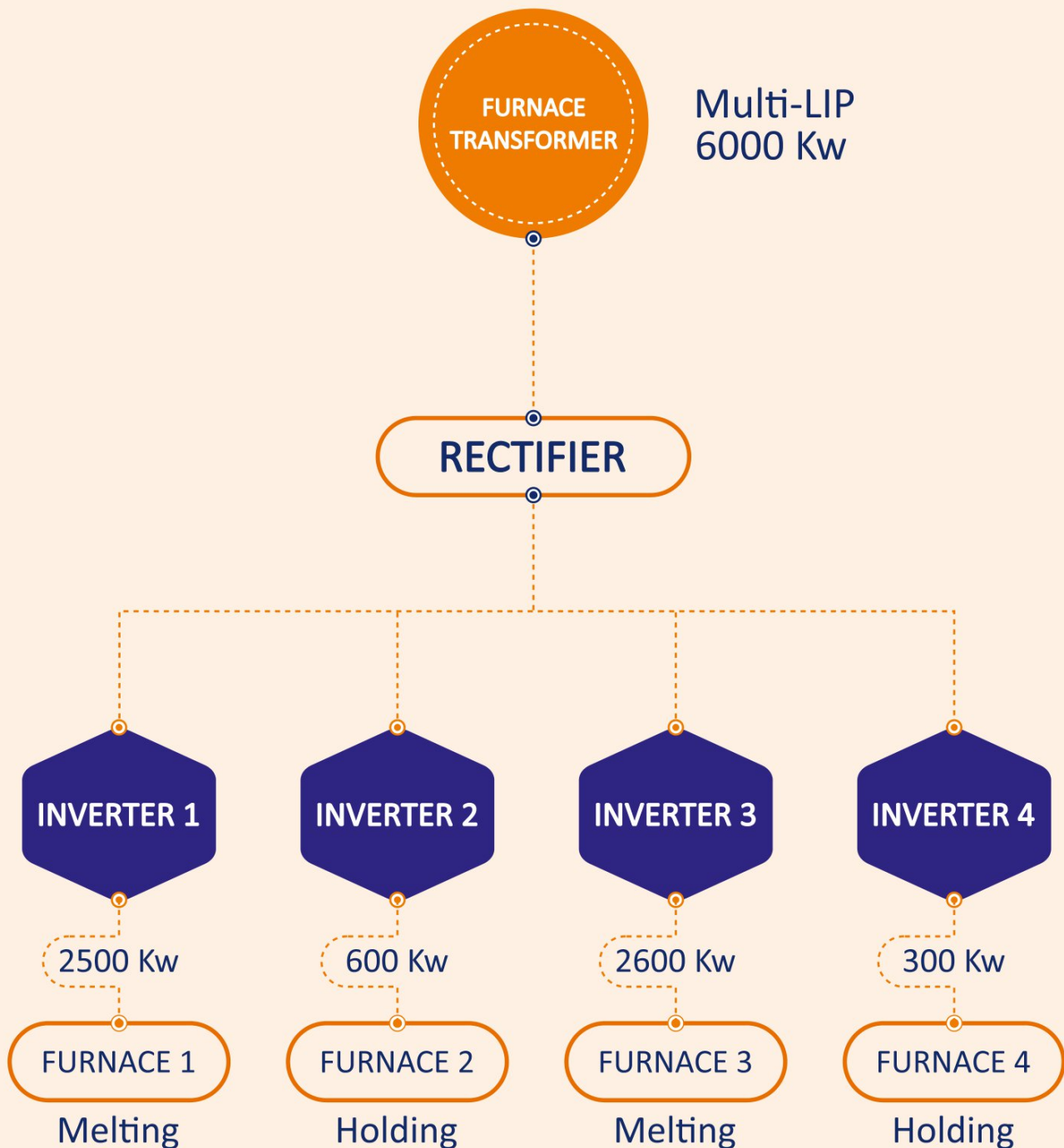
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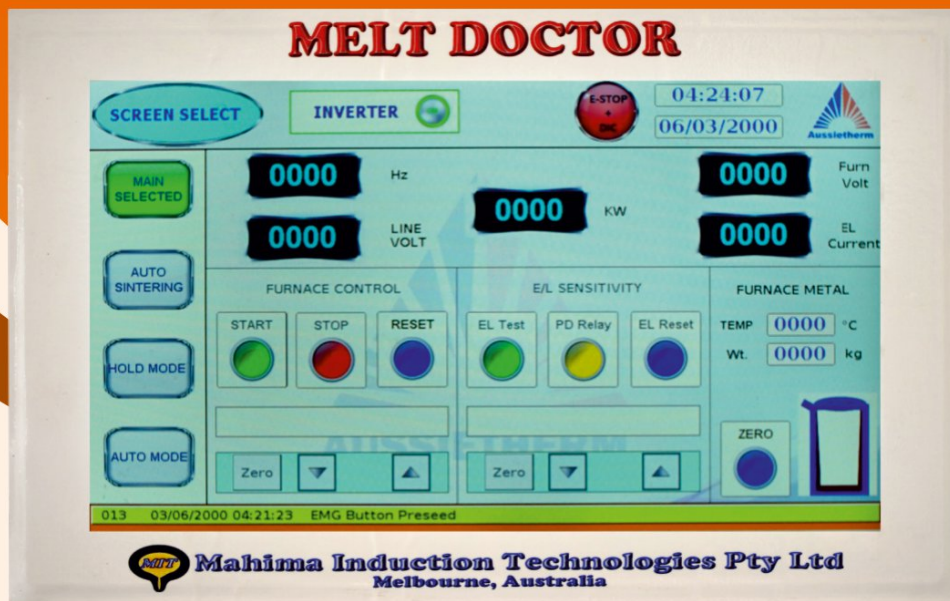
MULTI-MELT INDUCTION MELTING SYSTEM



- One rectifier with multiple inverters.
- Enables holding and melting in multiple furnaces
 - Power sharing 0-100% among the inverters.
- Maximum utilisation and productivity increase the operating profit.



MELT DOCTOR



Mahima Induction Technologies Pty Ltd
Melbourne, Australia

Since, 2000 MIT Australia led the way in the induction furnaces by introducing the on - board computer system for the induction melting systems called " melt doctor ".

Our unique computer control system has the lot; Induction furnace automation as well as built - in trouble shooting step by step assistance to reduce the down time of the furnace .

This system allows the customer personnel monitoring the furnaces Via internet in their office or home . Even MIT Australia can monitor the induction furnace any where in the world over the secure net . As a result , this reduces the cost of international phone calls and down time in the production, general electrician can trouble shoot the induction furnace with the aid of " melt doctor " instead of waiting for the furnace expert for assistance.



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Aussietherm
INDIA

CORELESS

INDUCTION MELTING & HOLDING FURNACES

FROM
25 Kg - 50,000 Kg

For Melting

STEEL

IRON

GOLD

SILVER

ALUMINIUM

COPPER



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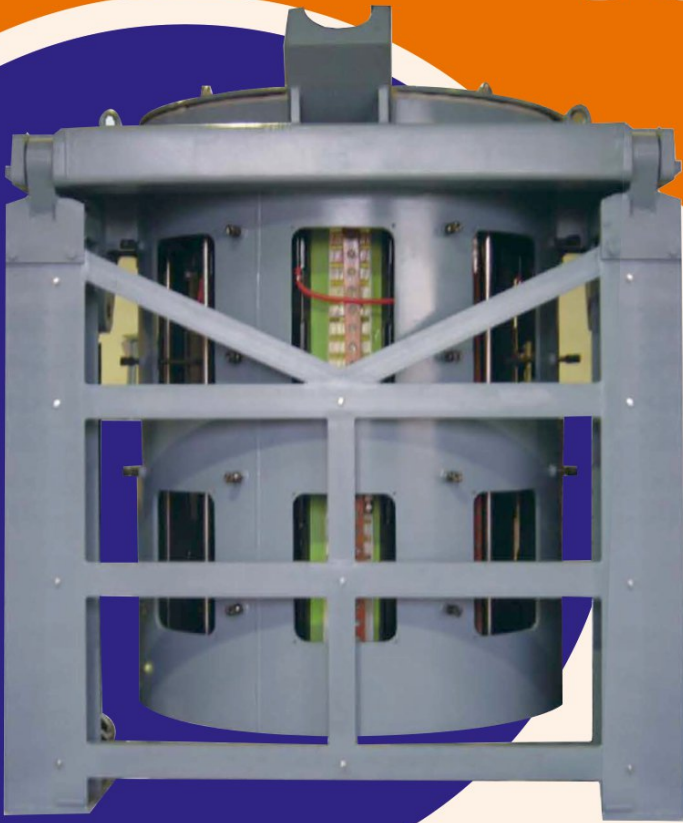
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STEEL SHELL FURNACES



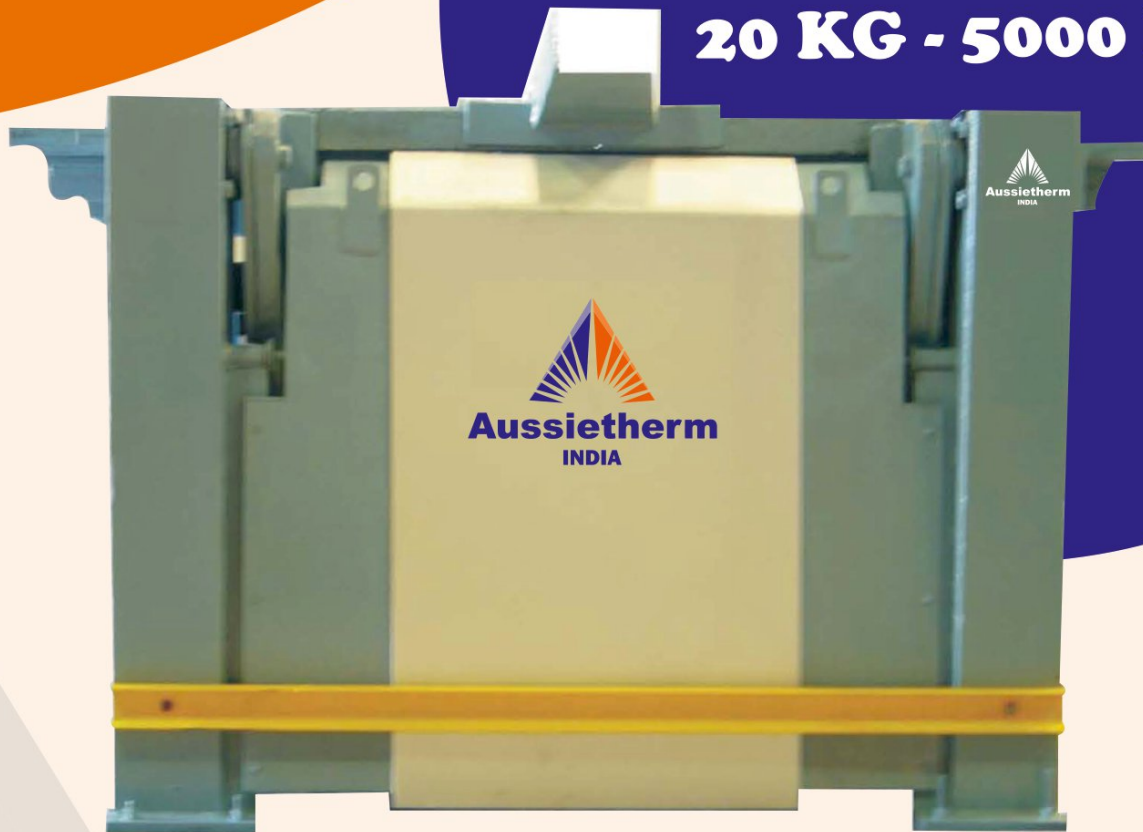
**From
1500 kg -
50 Ton**

- ➔ Steel shell furnaces are better than the best design of the induction furnaces in the world
- ➔ Enclosed steel shell protects the coil & shunt from scrap, metal splash & air-borne particles.
- ➔ Thicker high temperature top & bottom blocks built to last longer & shaped to suit the furnace.
- ➔ Low loss water cooled shunts.
- ➔ Flush or desk type furnace platform.
- ➔ Can be fitted on the load cells. (optional)
- ➔ Can be fitted with the lining push-out system. (optional)
- ➔ Maintenance friendly arrangement.

CAST FRAME FURNACES


Aussietherm
INDIA

FROM
20 KG - 5000 KG



- ➔ Solid design using cast aluminium side plates.
- ➔ High temperature top & refractor blocks built to last longer.
- ➔ Lower losses due to absence of shunts.
- ➔ Easy installation.
- ➔ Easy water connections.
- ➔ Lesser cooling water required per ton of the molten metal.
- ➔ Suitable for plug-in plug-out applications.

STEEL FRAME FURNACES

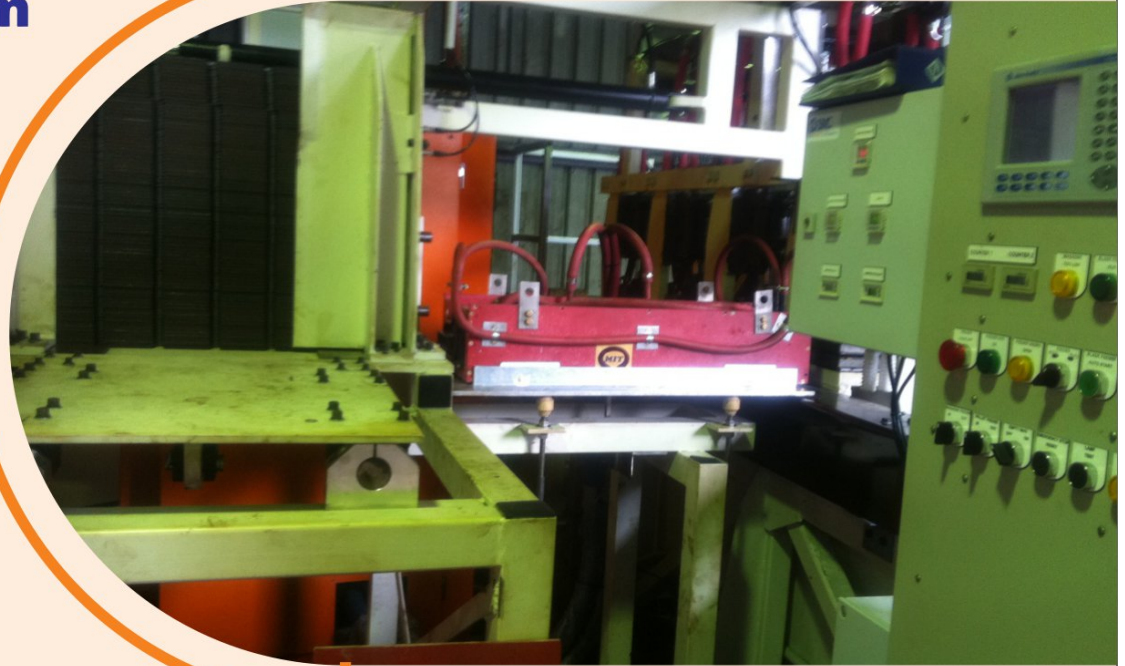
From 1000 kg - 50,000 kg



- ➔ **Solid design using steel structure.**
- ➔ **Better access due to the open frame.**
- ➔ **Thicker high temperature top & bottom blocks built to last longer & shaped to suite the furnace.**
- ➔ **Low loss water cooled shunts.**
- ➔ **Flush or desk type furnace platform.**
- ➔ **Can be fitted on the load cells. (Optional)**
- ➔ **Can be fitted with the lining push-out system. (Optional)**
- ➔ **Maintenance friendly arrangement.**



Fully Automatic Induction Heating System



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Voltage Source Type IGBT Based Inverter

**ALL TIME FIXED INPUT POWER
FACTOR IRRESPECTIVE OF
OUTPUT POWER VARIATION**

APPLICATIONS:-

- ➔ **INDUCTION BILLET HEATER (IBH)
BILLET OUTPUT TEMPERATURE UPTO 1250°C
@ 3 KG/KW/HR**
- ➔ **INDUCTION HARDENING/SCANNING**

POWER RANGES: -

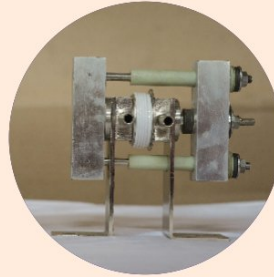
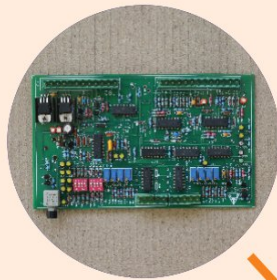
- ➔ **100-700KW INDUCTION BILLET HEATER,
FREQUENCY RANGE 1KHZ TO 10KHZ**
- ➔ **50-100KW INDUCTION HARDENING,
FREQUENCY RANGE 10-30 KHz.**

NOTE:-PLC/CNC AUTOMATED SYSTEM

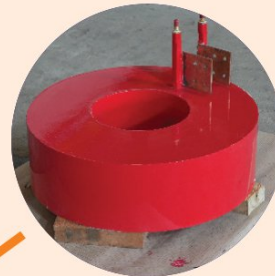
INDUCTION FURNACE POWER SOURCE SAPRE PARTS

SCR, DIODE & ITS ASSEMBLY

CONTROL ELECTRONIC CARDS



CLR (CURRENT LIMIT REACTOR)



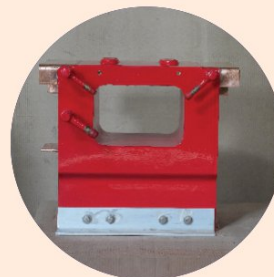
COOLING SYSTEM



DI/DT



TANK CAPACITOR



SCP

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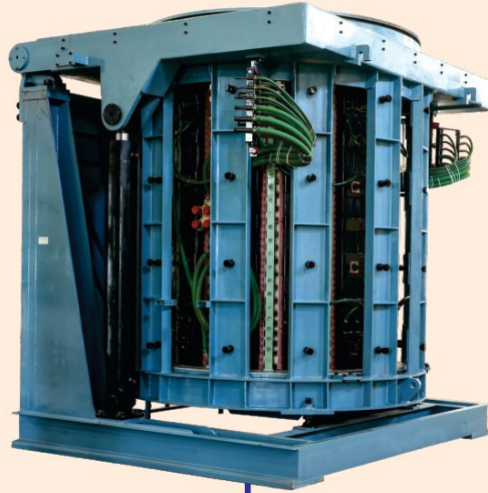
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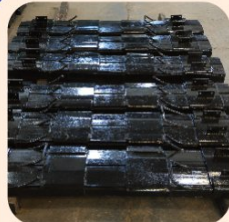
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INDUCTION FURNACE SAPRE PARTS



Coli



Shunt



WCL
(water Cooled Lead)



**PUSHOUT
CYLINDER**



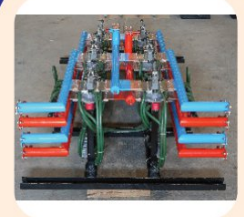
**Hydraulic
Power Pack**



**Hand Lever
Valve Stand**

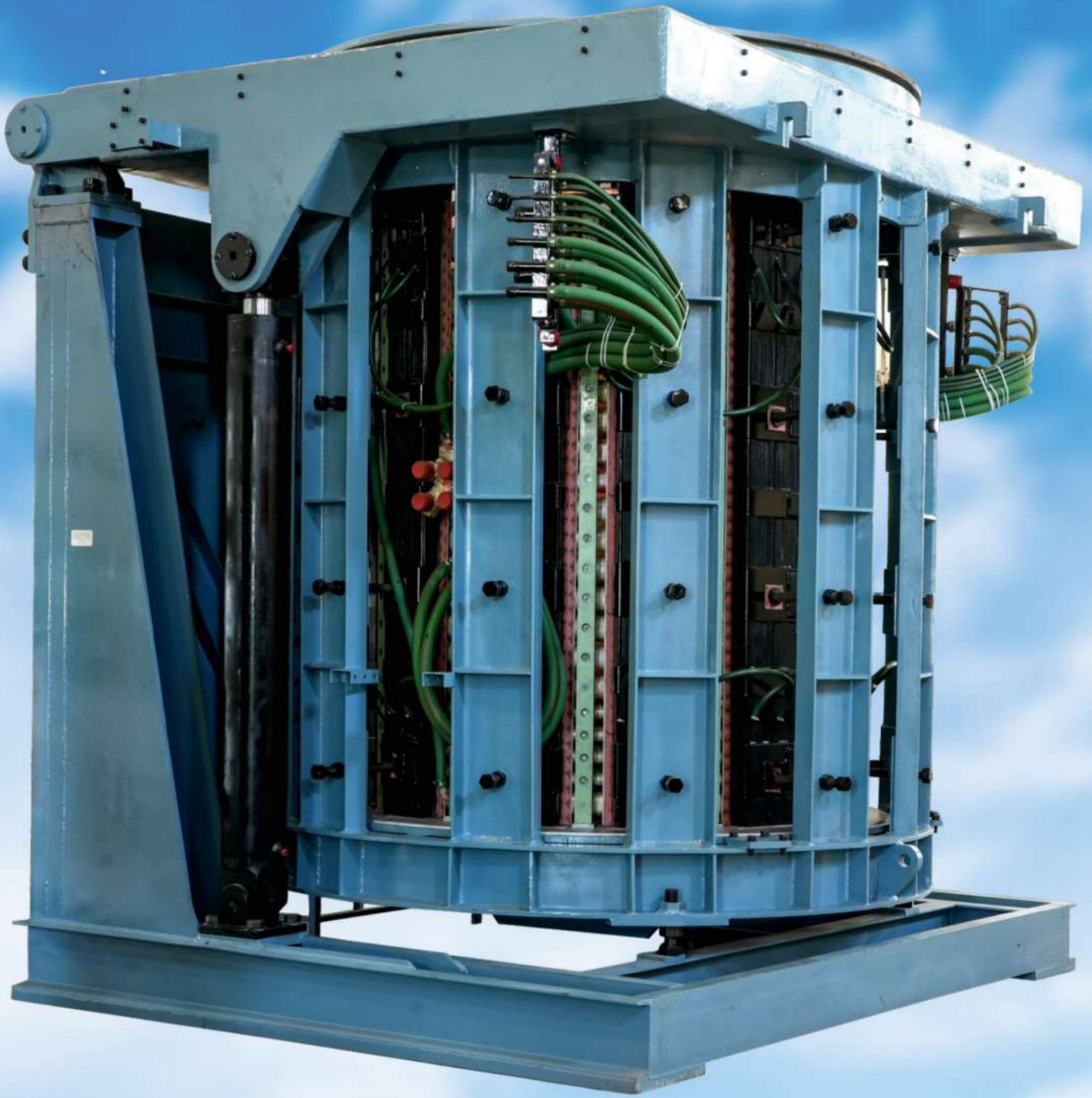


**Water
Manifold**



**Switch
Structure**





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