



Mfr. of **Induction Melting & Heating Equipment**
(AN ISO 9001:2015, CE, GMP Certified Company)

Series Inverter Technology



The **Leader** in
INDUCTION TECHNOLOGY

www.indopower.in

About INDO POWER

Indo Power founded in 2005, offering custom built melting solutions for ferrous and non ferrous industries.

Indo Power company is having interest primarily in engineering and beyond. with innovation in product line, timely implementation with able leadership of technocrats.

Indo Power meets the most significant quality standards and offering the latest technology and process.

Indo Power's series inverter technology offers the state of art induction thermal technology which is widely accepted as the best choice for efficient induction melting.

Indo Power has its presence in more than 950 + equipment in 15 places India and SIX places in abroad (CANADA, MEXICO, USA, OMAN, SRILANKA, NEPAL, ZAMBIA, SOUTH AFRICA, SAUDI ARABIA, PERU, COLAMBIA and other counties on going).



PRODUCTS RANGE

- Induction melting Furnace
- Induction crucible
- Induction heating system
- Induction hardening system
- Induction Billet heater
- Induction Pipe & Tube Heater

Company product line includes Melting of various type metal such as Ferrous & non ferrous categories, Heat-Treating for selective Case Hardening, Forging, End Pipe Heating, Through Heating of Pipes, Tempering, Annealing, Bonding and Brazing. The Company Focus Is In Designing And Manufacturing Induction Heating Equipment's For Industrial Application And Serves A Variety of Industries, Including Automotive, Aerospace, Industrial, Mining, Oil And Gas, Marine, Railways, Construction, Power Generation, Agriculture, Wind Energy, OCTG, Etc.

INDOPOWER has achieved the fastest growth with the support from the customers. It takes upon itself responsibility to serve its customers as a trusted ally, providing enhanced customer satisfaction by meeting all their technical needs with principles of fairness and transparency. It improves the production rates and quality of customers by using IGBT/SCR based power units for heating quickly, efficiently and with maximum repeatability.

Our mission is based on continuous development of products and processes. Due to this mission today we could propose to our customer's high technological products with top performance and great reliability. Flexibility, fast reply to customers request and post selling service are our prime motto.



Solid State Power Supply

- Highest efficiency.
- Low power consumption.
- Maximum production.
- Design up gradation to suit futuristic trends.
- Low cost of production and trouble free operation.
- Power optimizer
- 0.99 power factor under all operation
- Fully digitally control safety module entire system.



PRODUCTS

INDO POWER super heat furnace is house of reliable, economic and efficient induction melting, heating and various application.



MELTING & HOLDING FURNACES

Your operations desire unquestioned safety competence coupled with high energy efficiency. Designed suitable for all type of foundries



PRODUCTION UNIT

The manufacturing plant is fully equipped with the latest state of art machinery. every step in manufacturing is followed as per the standard, Right from the concept is a creation and is designed for trouble free operation year after year.

OUR VISION

- To manufacture the best induction melting furnaces in industry as per customer's melting needs.
- Implementing best manufacturing practices.
- Provide the best spares and services in time to minimize shut down and maximize production at customer end.
- Steer the organization to serve customer in better way.

PHILOSOPHY

Producing the "Best Quality part" at appropriate time in "Reasonable price" must be flexible enough to respond quickly for highest productivity

BUILT IN QUALITY

Selection of components with international standard for better performance and reliability of induction melting furnace

PROFILE OUR VALUED CUSTOMERS

We supply Melting Furnaces to the Automobile Industries, Investment Casting Industries, Centrifugal Casting, Non Ferrous Casting Industries, Steel plant.



Application

Melting



Mild Steel / Stainless Steel Casting



Aluminum Melting



Brass & Copper Alloys Melting



Investment Casting



Steel & Alloy Melting



Ingot Plants

Heating



Bar heater



End bar heater



Pipe heater



Brazing



Hardening



Forging



**INNOVATIVE SPECIALISTS
FOR YOUR MELTING TASK**

Mfr. of

**Induction Melting,
Heating,
Spare Parts &
Related Equipments**

Sales & Service Stations

- Ahmedabad
- Bangalore
- Agra
- Jamnagar
- Hyderabad
- Rajkot
- Pune
- Belgaum
- Kolhapur
- Jaipur
- Jalandhar
- Houston (USA)*

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CANADA OFFICE : INDO POWER INDUCTION
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Mfr. of Induction Melting, Heating, Spare Parts & Related Equipments

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www.indopower.in
www.inductoheats.com



Mfr. of **Induction Melting & Heating Equipment**
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**Induction Melting Furnace for
Ferrous & Non Ferrous Metal**

POWER RANGE :
30 kw - 12500 kw

FREQUENCY RANGE :
30 KHz - 200 Hz



www.indopower.in



**More than 5-15%
power saving
compare with
Existing System**

- Super heat I-Melt is technologically highly reliable and efficient Series Inverter based IGBT/SCR inverter design.
- Short circuit proof Power Circuit.
- Compact panel and machine design to maximize working area.
- The I-Melt Series Inverter offers near straight line performance across the melt cycle with an operating efficiency of around 98% while maintaining near unity power factor.
- Constant output power irrespective of variation in input power supply.
- Auto sintering process will help proper sintering at the some line reduces. The human error & enhances the living life (Optional).
- HMI touch screen display with operator interface (Optional).
- Automatic power control.
- Robust design feature to safely operate at unbalancing power supply.
- Constant power factor above 99%, from zero to full power and from empty coil condition to full load condition.
- Special design for ferrous and nonferrous melting.



24x7 Customer Structured Technical
365 Support Training



Continuous Research
& Development

HIGHLIGHTS

- Low switching loss
- Less inductive loss
- Less component & compact design
- Digital Control Motherboard
- Maximum Demand Control (Optional)
- Auto Centering Function (Optional)
- Noise reduction
- Better protection for power component
- Fast Melt rate
- Low unit consumption

**More than
850+ installation
worldwide**



Technical Performance

| kW | KVA | Melt Rate* / HR | | | Cooling Capacity/TR | Cable Size / Al. |
|---------|----------|-----------------|----------------|-----------------------|---------------------|-----------------------|
| | | Steel 1650°C | Iron 1480°C | Bras/Copper 1100°C | | |
| 75 kw | 80 kva | 115 kg / hr | 130 kg / hr | 270 kg / hr* | 200 lpm / 20 TR | 150 sq mm |
| 100 kw | 105 kva | 150 kg / hr | 170 kg / hr | 360 kg / hr* | 200 lpm / 20 TR | 185 sq mm |
| 175 kw | 185 kva | 295 kg / hr | 325 kg / hr | 600 kg / hr* | 300 lpm / 30 TR | 240 sq mm |
| 250 kw | 263 kva | 450 kg / hr | 500 kg / hr | 810 kg / hr | 400 lpm / 40 TR | 400 sq mm |
| 350 kw | 368 kva | 650 kg / hr | 710 kg / hr | 1050 kg / hr | 500 lpm / 50 TR | 240 x 2 sq mm |
| 450 kw | 473 kva | 850 kg / hr | 910 kg / hr | 1500 kg / hr | 600 lpm / 60 TR | 300 x 2 sq mm |
| 550 kw | 578 kva | 1030 kg / hr | 1130 kg / hr | 1800 kg / hr | 800 lpm / 80 TR | 400 x 2 sq mm |
| 650 kw | 685 kva | 1176 kg / hr | 1330 kg / hr | 2100 kg / hr | 800 lpm / 80 TR | Copper Busbar fitting |
| 750 kw | 790 kva | 1400 kg / hr | 1540 kg / hr | 2500 kg / hr | 1000 lpm / 1000 TR | Copper Busbar fitting |
| 1000 kw | 1052 kva | 1860 kg / hr | 2058 kg / hr | 3310 kg / hr | 1200 lpm / 120 TR | Copper Busbar fitting |
| 1250 kw | 1315 kva | 2330 kg / hr | 2570 kg / hr | 4120 kg / hr | 1200 lpm / 120 TR | Copper Busbar fitting |
| 1500 kw | 1580 kva | 2800 kg / hr | 3090 kg / hr | 4930 kg / hr | 1500 lpm / 150 TR | Copper Busbar fitting |
| 2000 kw | 2105 kva | 3740 kg / hr | 4120 kg / hr | 6620 kg / hr | 1800 lpm / 180 TR | Copper Busbar fitting |

*Note : Under Ideal Condition with Clean and dense charge and operating panel at rated power.

**IGBT Technology

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U-Melt

Precious Metal
Gold Platinum
& Other Metals



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ULTRAFAST

ADVANCED TECHNOLOGY



Precious Metal Melting Furnace

- Durable body with high temperature top, ensures hassle free heavy use.
- Improved production values through higher melting rates.
- Temperature controller-works with thermocouple probe.
- Space-saving, Compact design & Simple to operate.
- Hassle-free maintenance & minimal downtime.
- IGBT switching with low energy consumption.
- Advance controls with diagnostic features.
- Dual metal melting - Gold & Silver.
- Reliable safety precautions.

Majority Application...

Gold - Silver - Brass

Steel - Copper - Platinum

Suitable for Ferrous & Non-Ferrous Metal

Power Range: - 5 kW – 25 kW

Product Range: - 1kg, 2kg, 5kg, 10kg, 15kg & 30kg

Technical Performance

| Description | FMG-1 (1KG Gold) | FMG-2 (2KG Gold) | FMG-4 (4KG Gold) | FMP-1 (1KG Platinum) | FMS-15 (15KG Silver) | FMS-30 (30KG Silver) |
|------------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|
| Line Power | 1 Phase, 230v AC | 3 Phase, 440v AC | 3 Phase, 440v AC | 3 Phase, 440v AC | 3 Phase, 440v AC | 3 Phase, 440v AC |
| Input Line Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Absorbed Power | 5.0 kW | 7.0 kW | 8.0 kW | 8.0 kW | 15.0 kW | 30.0 kW |
| Oscillate Frq. | 1kHz ~ 20kHz | 1kHz ~ 20kHz | 1kHz ~ 20kHz | 1kHz ~ 20kHz | 1kHz ~ 20kHz | 1kHz ~ 20kHz |
| Power Switch | IGBT | IGBT | IGBT | IGBT | IGBT | IGBT |
| Crucible Capacity | 1kg Gold, 24k Pure | 2kg Gold, 24k Pure | 4kg Gold, 24k Pure | 1kg Platinum, Pure | 15kg Silver, Pure | 30kg Silver, Pure |
| Melting Temp. (max) | 1200°C | 1200°C | 1200°C | 1800°C | 1200°C | 1200°C |
| Melting Time (+/- 10%) | 4 to 6 mins | 4 to 6 mins | 6 to 8 mins | 8 to 10 mins | 25 to 30 mins | 35 to 40 mins |
| Cooling Water Temp. | 20 to 30 °C | 20 to 30 °C | 20 to 30 °C | 20 to 30 °C | 20 to 30 °C | 20 to 30 °C |
| Water Pressure / Flow | 3 Bar / 3Lt. / mins | 3 Bar / 3Lt. / mins | 4 Bar / 4Lt. / mins | 4 Bar / 4Lt. / mins | 4 Bar / 4Lt. / mins | 4 Bar / 4Lt. / mins |
| Temp. Measurement | K- type/Digital | K- type/Digital | K- type/Digital | K- type/Digital | K- type/Digital | K- type/Digital |

*Note : Under Ideal condition with clean and dence charge and operating panel at rated power

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Compact

Portability

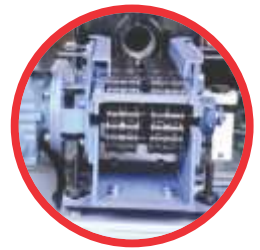
Low installation costs

Quick change over

Reliability

Low power consumption

Ease of maintenance



Forge your future from our rich experience using the latest unitized modular concept for induction billet heating system



Features/ Benefits

- Thyristorised / IGBT Power supply unit.
- Input Power Factor 0.98 and above.
- Suitable for ferrous and non-ferrous metal.
- RS-232 / RS-485 interface for computer monitoring and control.
- Exceptionally superior performance
- True temperature uniformity control
- Refractory casted / Liner Induction coil design
- Quick coil change features
- Discharge quick extractor
- Highly efficient & reliable performance
- Quick start even with coil is full with cold billets / hot billet
- Reliability, low power consumption, ease of maintenance

Technical Specification

RANGE : 50 kW to 2500 kW

Frequency Range : 10 kHz to 200 Hz

Billet size : 16mm to 400mm (Round/RCS)

Output Regulation : Voltage, Power or Current



Mechanical Handling System

- Hydraulic & Pneumatic pusher system
- Automatic billet feeding system
- Heavy duty in-feed chain conveyor
- Heavy duty pinch roller system
- Bin tipper
- Vibro feeder
- Stepper conveyer
- Elevator type billet loader

Customer Benefits

- Less change over time for induction coil
- Superior temperature control
- Rapid startup
- Latest technology at a fair & competitive price
- Energy Saving
- Negligible scale losses
- Uniform heating



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**24X7
365** Customer
Support



Structured Technical
Training



Continuous Research
& Development

**More than
650+ installation
worldwide**

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i- Tube & Pipe Heating

Tube & Pipe Heating

Heating Prior to coating

Heating for Bending

Surface or Through Hardening

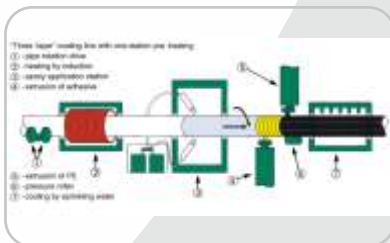
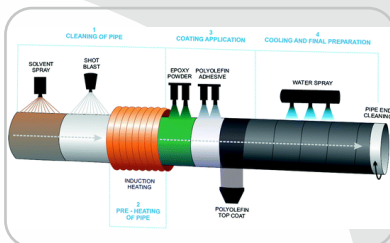
Stress Relieving

Tube / Pipe Annealing

**LEADING IN INDUCTION
HEATING TECHNOLOGIES**

www.indopower.in





Advances in Pipeline Coating using induction Heating

The various types of pipes used today for oil and gas lines where high pressure is required. International standard various diameters pipes with various wall thickness used this section.

Corrosion Protection

Protection the most important requirements in the coating system for steel pipes are the following.

- Strong adhesion to the surface.
- Long term chemical and mechanical resistance of coating materials at operational temperatures.
- High mechanical impact strength and penetration resistance.

Basic pipe coating line

Induction pre-heating of steel pipe prior to Application of 3 year polyethylene coating

Process

1. Pipe is shot blast cleaned.
2. Pipe is pre-heated by induction for application
3. Epoxy primer sprayed onto pipe.
4. Copolymer layer applied to pipe.
5. Polyethylene layer applied to pipe.
6. Pipe is water quenched.
7. Coating is inspected by applying electrical current.
8. Pipe is ready for shipments.

induction Heating of Rebar prior to epoxy coating application

Fusion bonded epoxy coating, commonly referred as FBE coating is widely used to protect concrete reinforcing rebars, steel, pipes, piping connections, etc. used in construction. It has been found that FBS coatings the practical and scientific way for protecting steel reinforcement against corrosion. Applying an epoxycoating to steel rebar (reinforce bar) prevents the chlorides from reaching the steel surface.

FBE coating are in the form of dry power at normal atmospheric temperature. The powder when applied electrostatically on the cleaned surface of hot steel bars (heating is generally done with Induction Heater), fuses, melts, flows and cures to an adherent continuous chemically cross linked protective film against corrosion.

SUCCESS How We Serve You

INDOPOWER offering custom built heating solution for ferrous and non ferrous industries.

INDOPOWER meets the most significant quality standards and offering the latest technology and process.

INDOPOWER series inverter technology offers the state of art induction thermal technology which is widely accepted as the best choice for efficient induction heating.

INDOPOWER can supply complete installations for specific processes incorporating induction power supplies, heating coils, controls, mechanics and cooling systems.

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Case / Surface Hardening



- Case / Surface Hardening
- Automotive Components

Crank Shafts

Cam Shafts

Piston Rods

Pinion Shafts

Valves

Rear Axle Flange

Wheel Hub

Steering Rack

Clutch Box

Gearbox Parts

V Joints





Autotuned Induction Heating System

■ Features/Benefits:

- Thyristorised / IGBT Power supply unit.
- RS-232 / RS-485 interface for computer monitoring and control.
- Input Power Factor 0.99 for 0 to 100 % output.
- Single control Board.
- Heating time can be controlled by PLC / CNC.
- Heat level can be controlled by remote potentiometer

■ Technical Specification :

RANGE : 30 kW to 350 kW

Frequency : 1 kHz, 3kHz, 10 kHz, 30 kHz & 50 kHz
 Energy Conversion Efficiency: 85 % minimum
 Output Regulation : Voltage, Power or Current
 Regulation Accuracy : + 2 % with + 10 % with line variation

Frequency Vs Hardness case depth

| Frequency (kHz) | Case Depth (mm) |
|-----------------|-----------------|
| 0.05 - 1 | 9 - 17 |
| 3 | 5 - 10 |
| 6 - 10 | 2.5 - 6 |
| 30 | 1.5 - 3.5 |
| 50 | 0.8 - 2 |

■ Scanner Assembly Features

- Scanning facility : 300mm, 600mm, 1000mm, 2000mm upto 4000mm
- Vertical scanner is with rolled ball screw THK Japan/equivalent.
- Top tooling nib is lifted by manual lever.
- Manual adjustment of tooling to accommodate different length of parts.
- Scanner is with balance counter weight for smooth operation.

■ Quench Re circulating System

- Distilled Water Re circulating System
- Stainless steel Quench water tank.
- Water to save S.S. Heat exchanger.
- Centrifugal mono-block pump.
- "Basket filter" with Magnetic separator.
- Quench water temperature & pressure gauges.
- Non-ferrous plumbing.



24X7
365 Customer Support



Structured Technical Training



Continuous Research & Development

More than 650+ installation worldwide

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Spare Parts



Hydraulic cylinder



Accessories



Capacitor



CLR



Water Cooled Lead



Insulation



Heat Exchanger



Fuses



Side plates



Electronics



Di/Dt



Control transformer



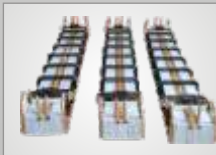
High Freq. Transformer



IGBT / SCR Module



Lining Vibrator



Yoke



SCR Assembly



Induction Coil



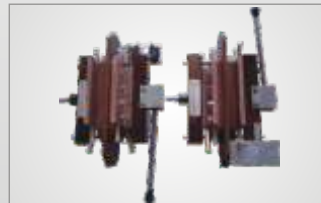
DC-Link Capacitor



Temp Sensor



Semi Conductor



Furnace selector switch



Top - bottom

Sales & Service Stations

- Ahmedabad
- Bangalore
- Agra
- Jamnagar
- Hyderabad
- Rajkot
- Pune
- Belgaum
- Kolhapur
- Jaipur
- Jalandhar
- Houston (USA)*

HO & Plant :

Indo Power

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PRODUCTS RANGE

Series Invertor Induction Furnace

40 kW - 2500 kW

Medium Freq Induction Crucible

30 Kg - 10 Mt

& FURNACE SPARE PARTS

About **INDO POWER**

Indo Power Engineers was conceived by two technocrats with more than 15 years experience of Induction Furnace industry in year 2005.

In a short period of eight years we have supplied 850 + furnaces for various applications viz Foundries and Ingot manufacturing industry.

Indo Power engineers has country wide service set up to provide prompt and quality service that's why customers get optimum performance from our furnaces.

Indo Power Engineers has its owned state of art manufacturing facilities having shop floor area of more than 25000 sq feet.

Indo Power has a well staffed R&D set up enabling it to introduce newer products with improved performance.

Indo power has been selected by customers who have been using furnaces of other makes because of total quality Commitment, higher efficiency and low cost of maintenance.



INDO POWER
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Salient Features

- Guaranteed melt rate
- Demand control (MD) to keep operating power at maximum level of total plant
- Lower power consumption
- Higher efficiency
- Low cost of production and trouble free operation
- Automatic power control
- Robust design feature, to operate safely at unregulated power supply.
- Power factor always 0.98 and above at any power level.
- Indication on each temperature sensor helps easy diagnosis
- No molten metal required to start the melting
- Heavy duty EC grade copper used for higher efficiency
- Ultra Fast protection system for safety of power component
- Heavy duty aluminum castable side plate used for crucible
- Spare parts are very economical and readily available through our various service station all over the India.



Application

Melting



Mild Steel / Stainless Steel Casting



Aluminum Melting



Brass & Copper Alloys Melting



Investment Casting



Steel & Alloy Melting



Ingot Plants

Heating



Bar heater



End bar heater



Pipe heater



Brazing



Hardening



Forging

The **Leader** in
FOUNDRY TECHNOLOGY

