



## ABOUT US

Alidia Powertech is a house of Reliable, Economic and Efficient **Induction Melting, Heating and Hardening Equipments**. The core design team associated is manned by eminent world renowned scientist and highly experienced professionals in the field. With a humble beginning in the early nineties it has earned confidence of a large number of customers in India and abroad with wide applications.

### PROVEN WORLD CLASS TECHNOLOGY:

The company has come a long way from manufacturing conventional 6 Pulse Induction Melting Furnaces to 12 Pulse & 24 Pulse high voltage Induction Melting Furnaces. State of art digital 'ASIC' control **Series Inverter** Furnaces are feather in its Cap. Equipment designs are continuously upgraded to incorporate advanced features latest in the world, to give an edge to its customers by retaining competitiveness.

### QUALITY & SAFETY:

Induction Furnaces are designed and manufactured to meet the stringent quality standards. HI-REL Components are used in PCB's to stand high ambient temperatures and adverse operational conditions. PCB's are put to various electronic and environmental tests. High quality EC grade copper conductors are used at all the places.

Emphasis is given on electronic, electrical and mechanical safety systems. Highest quality workmanship and layout planning ensures smooth running and ease of maintenance. The High Speed Tripping Circuit is unique design feature of Series Inverter Furnaces. The system detects fault condition in a few **micro-seconds** and trips the furnace. This prevents costly devices and other components from damage.

Highly efficient and simple de-mineralized and soft water cooling circuits protect the system from over temperature and low pressure.

### UNIQUE ADVANTAGE TO CUSTOMERS:

The company manufactures both **Series Inverter and Parallel Inverter** type Induction Furnaces, having distinct advantages for different applications. Technical guidance is given to customers to choose the right furnace for their specific application. This results in improving project profitability due to better productivity and efficiency.

Most manufactures offer only one type of technology and therefore deprive customer of the possible advantages of the other type of furnace.

### AFTER SALES SERVICE & SPARES:

The company has policy to provide technical guidance and training to its customers and insists upon stocking certain critical spares. Service tips are rendered to minimize down time. Mostly the plant is put back to operation by the customer's staff without any loss of time in waiting for service Engineer. Our strong team of senior Engineers provide after sales service in shortest possible time whenever required.

Spares are easily available at market price and these are not coded reducing maintenance cost.

## ENGINEERED TO PERFECTION



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## Advanced Digital Technology Induction Melting Furnaces

For Ferrous and  
Non Ferrous Metals



## SERIES INVERTER CONTROL AND PARALLEL INVERTER CONTROL

with the application based right technology our customers become the market leaders



## SERIES INVERTER CONTROL PANEL



- **Power Range : 25KW to 750 KW**
- Unique Software Control.
- Single Chip ASIC Control Design.
- Power Factor 0.98 at all power levels.
- User friendly, custom built operator interface for ease of operation.
- Ultra fast linear response for better thyristor protection.
- Suitable to small Foundries for Ferrous and Non Ferrous melting.
- High Speed Trips Protection.
- Digital Function Monitor.
- **Bi-logical (Dual Track):**  
For Simultaneous melting in two Crucibles by power sharing resulting in increased productivity.

## PARALLEL INVERTER CONTROL PANEL



- **Power Range : 100KW to 12000KW**
- 24 Pulse, 12 Pulse and 6 Pulse Rectifier designs for different power levels.
- High productivity low power consumption.
- Low Harmonic distortion.
- Excellent layout for ease of maintenance.
- State of art safety features.
- High MF voltage design up to 4000 Volts.
- User friendly controls.
- Excellent Full Load Power Factor > 0.96

## DM WATER CIRCUIT SYSTEM



- Ready to connect
- Can be installed at flexible positions.
- Easy maintenance approach.
- Occupies less space.
- S.S. Plated type Heat Exchanger & S.S Pump used.

## HYDRAULIC POWER PACK



- Rugged design.
- Extra safety features.
- Hand-lever for inching operation.
- Heavy duty flexible hose pipes and extra thick fittings.

## DURALINE YOKELESS CRUCIBLES



- **Melting Capacity (MS) 100Kg to 10MT**
- Unique design for ease of maintenance.
- Low power consumption feature.
- Suitable for Ferrous & Non Ferrous melting applications.
- Smooth Hydraulic tilting.
- Low maintenance Epoxy insulated 'Z' shaped coil.
- Heavy duty special grade Aluminium Alloy side plates.
- Highly efficient water cooling circuit.
- Side cover for protection of hydraulic cylinder.
- Front Syndanio cover to protect crucible from metal splashes.

## FIXED TYPE CRUCIBLES



- **Melting Capacity (MS) 50Kg to 500Kg.**
- **Application: Sanitary fittings,** Brass parts manufacturing units and various small foundries.
- Duraline Yokeless Structure for high efficiency.
- Low loss easy to maintain design.
- Low maintenance Epoxy insulated 'Z' shaped coil.

## STEEL FRAME CRUCIBLES



- **Melting Capacity (MS) - 8MT to 30MT.**
- Ultra low loss uniformly distributed flux guides.
- Fast melt rate with rugged design.
- Long life bottom.
- Low maintenance 'Z' shaped Epoxy insulated Coil.
- Heavy duty smooth Hydraulic tilting system with inching operation.
- High operational safety features.