



AN ISO 9001:2015 CERTIFIED COMPANY

INDTECH MARKETING

SPARES SOURCING SIMPLIFIED.

Manufacturers and Exporters

Induction Furnace Spares



Delivering Excellence since 1994...



South Asia



WE ARE **INDTECH MARKETING**

A name which assures quality and eminence in the furnace spares industry - Indtech, was established in 1994. Under the leadership of Mr. Anish Malvania, Indtech has flourished to become an industry leader catering to clientele in more than 30 countries. Ever since our inception, we have worked tirelessly towards product innovation and becoming a one-stop solution for your spare needs.

The company's moral code instills the values of diligence, humility, honesty and coordination in its employees to ensure that each client's specific needs are relentlessly worked upon and efficient solutions are provided for their requirements. Our strategic approach blends expert insights with global resources, guaranteeing superior quality and reliability in every product we offer. Thus, with a robust moral foundation, we prioritize quality and prompt response times to deliver tailored furnace spares solutions that exceed expectations.

OUR DEEPLY ROOTED CLIENTELE EXISTS IN

30+ COUNTRIES



WHY INDTECH

FOR INDUCTION FURNACE OWNERS

With over 30 years of experience in the furnace industry, Indtech has consistently pledged excellence not just across the Indian subcontinent but also overseas. It has gained the trust and faith of an extensive clientele by providing optimal service, exceptional product quality and timely deliveries. An agile workforce committed to virtuosity exhibits a flair of impeccable workmanship and enables us to work as a unit towards our goal of delivering flawless products at reasonable costs.

- Highest ethical basis and complete confidentiality which goes beyond client expectations
- Continuous upgradation and innovation to ensure the best solutions to your furnace spare problems
- Quick responsiveness to grievances & attention to detail while manufacturing our wide range of products

Induction Furnace Coils & Turns

Typically made of electrolytic grade copper, Furnace Coils are used to melt/heat metals as they help generate the electromagnetic field necessary for induction melting/heating. To ensure maximum electrical efficiency, induction furnace coils are manufactured with staggered winding design and thicker electrolytic grade copper. Inter-Turn Spacers and Epoxy F.R.P Supports along its periphery, protect the coil from thermal overheating and electrical sparking.

- **Complete Furnace Coils with/ without structure**
- **Copper Turns fabricated with electrolytic grade sections as per required dimensions**
- **S.S Cooling (dummy) turns of SS-304 seamless tube construction**



Top Block, Top Ring & Faraday Ring

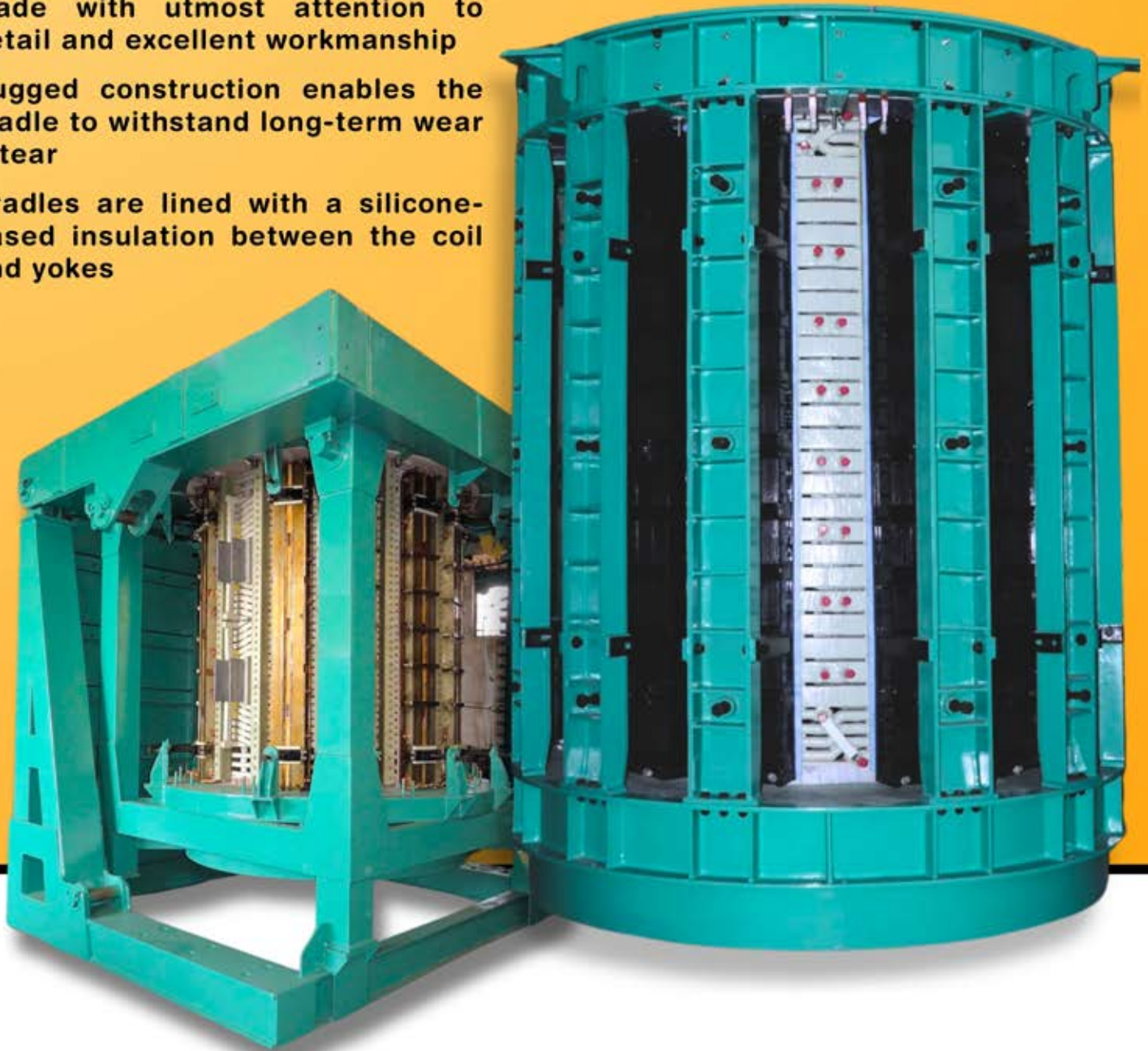
Top refractory blocks made with low castable cement are bolted to a top ring which provides alignment and support to the coil. The Faraday Ring, made from electrolytic grade copper is placed between the top blocks and the top ring to guide the magnetic flux generated by the coil and prevents localized heating of the top ring structure.



Induction Furnace Coil Cradles

Coil Cradles provide essential support and stability while maintaining the correct coil position and shape. In addition to fulfilling their primary purpose, coil cradles are lined with materials that offer the coil thermal and electrical insulation, ensuring optimal performance and protection.

- **Made with utmost attention to detail and excellent workmanship**
- **Rugged construction enables the cradle to withstand long-term wear & tear**
- **Cradles are lined with a silicone-based insulation between the coil and yokes**



Bottom Ring

The Bottom Ring in an induction furnace provides structural support and is made with refractory cement and contains an aluminium shield to protect this base from overheating.



Lamination Yokes

Lamination Yokes or Magnetic Shunts are made with superior grade low loss stampings which are attached to the periphery of the induction coil to guide magnetic flux and minimize stray loss.

- Made as per requirement for all types of furnace makes
- Stringently tested at all manufacturing stages to ensure quality



Water Cooled Cables (Leads)

Made with flexible wires of electrolytic grade copper, Water Cooled Cables serve the purpose of being the primary connection between the induction coil and the capacitor bank and complete the resonance circuit.



- W.C Cables are provided as per the specified requirement of the copper conductors
- Copper conductors are housed in excellent quality Carbon Free Rubber Hose with a protective cover

Medium Frequency (M.F) Water Cooled Capacitors

Medium Frequency (M.F.) Water-Cooled Capacitors in an induction furnace are a part of the RLC resonance circuit and are responsible for inducing capacitance to facilitate induction melting at medium frequency.

- Range upto 5000V and frequencies up to 30 KHz
- H.T/L.T Capacitors, Harmonic Filters
- Automatic Power Factor Control (A.P.F.C) Panels



Furnace Change Over Switches

Furnace Change Over Switches connect and disconnect furnace crucibles alternatively with the power source as and when required by the melting processors.

- Off-load type double pole switch
- Optional provision of silver contacts for superior performance
- Available in Manual and Pneumatic variants



Capacitor Cut-Off Switches

Capacitor Cut-Off Switches in the capacitor bank maintain the required capacitance in the circuit and optimize the energy efficiency of the system.

- Off-load type Switch
- Optional provision of silver alloy contacts for superior performance
- Available in Manual and Pneumatic variants





D.C Chokes

D.C Chokes in an induction furnace protect the semi-conductor based convertor by stopping in rush current in a few milli seconds. This protection system is quicker than any other circuit breaker.

- **Rugged design with a high insulation level**
- **Stringently tested at all manufacturing stages**

Semiconductors

Semiconductors are a part of the solid state panel in a furnace, where they work as power component switching/protecting devices.

- **Thyristors upto 4200 V**
- **Free Wheel/ Break Over Diodes, Fast Fuses, Water Cooled & Wire Wound Resistors**

Temperature/Pressure/Flow Switches & Gauges

Temperature/Pressure & Flow Switches & Gauges in an induction furnace are used for various sensing, measuring & interlocking purposes

- **Flow/Proximity Switches, Magnet Floats, Polycarbonate Tubes, 'O' Rings, Temperature Sensors & Nipples**

Carbon Free Rubber Hoses



Carbon-free rubber hoses in induction furnaces ensure water circulation & insulation, for various cooling purposes.

- **Bare as well as insulated hoses**
- **Available in different types of heat insulation covers**

Hydraulic Equipment



Hydraulic equipment in an induction furnace facilitates crucible tilting while pouring and slag-removing.

- **Hydraulic Power Packs & Valves**
- **Hydraulic Pipes and Fittings**
- **Hydraulic Cylinders & 'V' Seals**

Insulation Material

At various places in an induction furnace, Insulation material provides thermal and electrical insulation made from non-conductive and thermal resistive material.

- **H-Class F.R.P. Supports & Sheets, Washers, Inter-Turn Spacers tubes & all types of insulation tapes**
- **Flexocoat, Varnishes, Insulation Pads/Silicone based pads for laminations**



at **INDTECH**

OUR VISION IS PRECISION
OUR MISSION IS QUALITY.



5-D Shree Jagannath Industrial Park,
Kamod-Dholka Road, Paldi-Kankaj,
Ahmedabad, India 382425

 inductionfurnacespares.in  anish.malvania@indtechmkt.in  +91 9227242040



GOVT. RECOGNIZED
STAR EXPORT HOUSE



CONNECT WITH US
 @indtechmarketing