

50+
Years of Legacy

**Pioneer[™]
Furnaces
Pvt Ltd**

Trusted Non-Ferrous Solutions

S I N C E 1 9 7 2

AFTERSALES SOLUTIONS

Spare Parts and Customer Service



Pioneer Furnaces is a trusted name in the field of induction melting and heating technology, designing and manufacturing advanced induction furnaces for the non-ferrous metal melting, heating, heat-treatment, and coating industries since 1972. With an engineering legacy spanning over five decades, Pioneer is recognized for delivering robust, energy-efficient and highly reliable furnace systems backed by prompt and committed service support. The company is ISO 9001:2015 certified, reflecting its strong process discipline, quality orientation and customer-centric approach.

Reliability | Precision | Performance

Our integrated aftermarket offering covers every aspect of your induction system

▪ Spares:

OEM-grade and performance-enhanced spare parts for inductors, furnaces, power supplies, coils, transformers, water-cooling systems, water cooled cables, and auxiliaries. All components are application-matched, quality-tested, and available with fast global dispatch.

▪ IGBT Power Panel:

Our state-of-the-art IGBT inverter technology for Induction Melting and Heating Furnaces, designed specifically for non-ferrous metals, has revolutionized the industry with its superior and consistent performance, ease of maintenance and intelligent control features.



10" Standard HMI Screen



Semiconductor fuses



Thyristors



IGBTs



DC link capacitors



Power Diode & Diode Module

▪ Capacitors:

- ▶ Air Cooled - Non-self-healing type Air Cooled Capacitors
- ▶ Water Cooled Capacitors



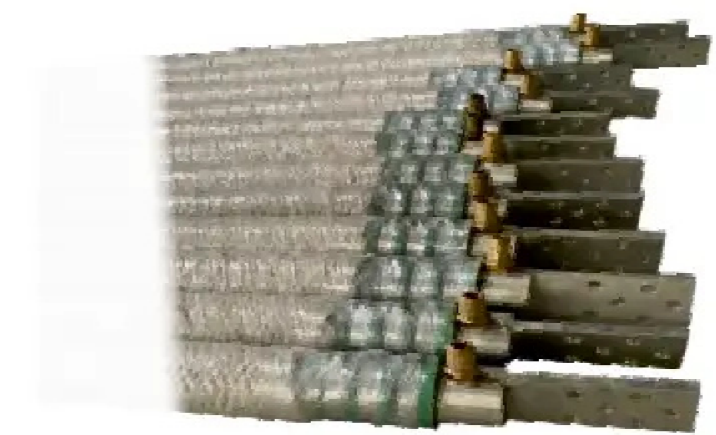
Air Cooled Capacitor



Water Cooled Capacitor

▪ Water-cooled Cables:

Flexible Water-Cooled Cables are used to carry high current



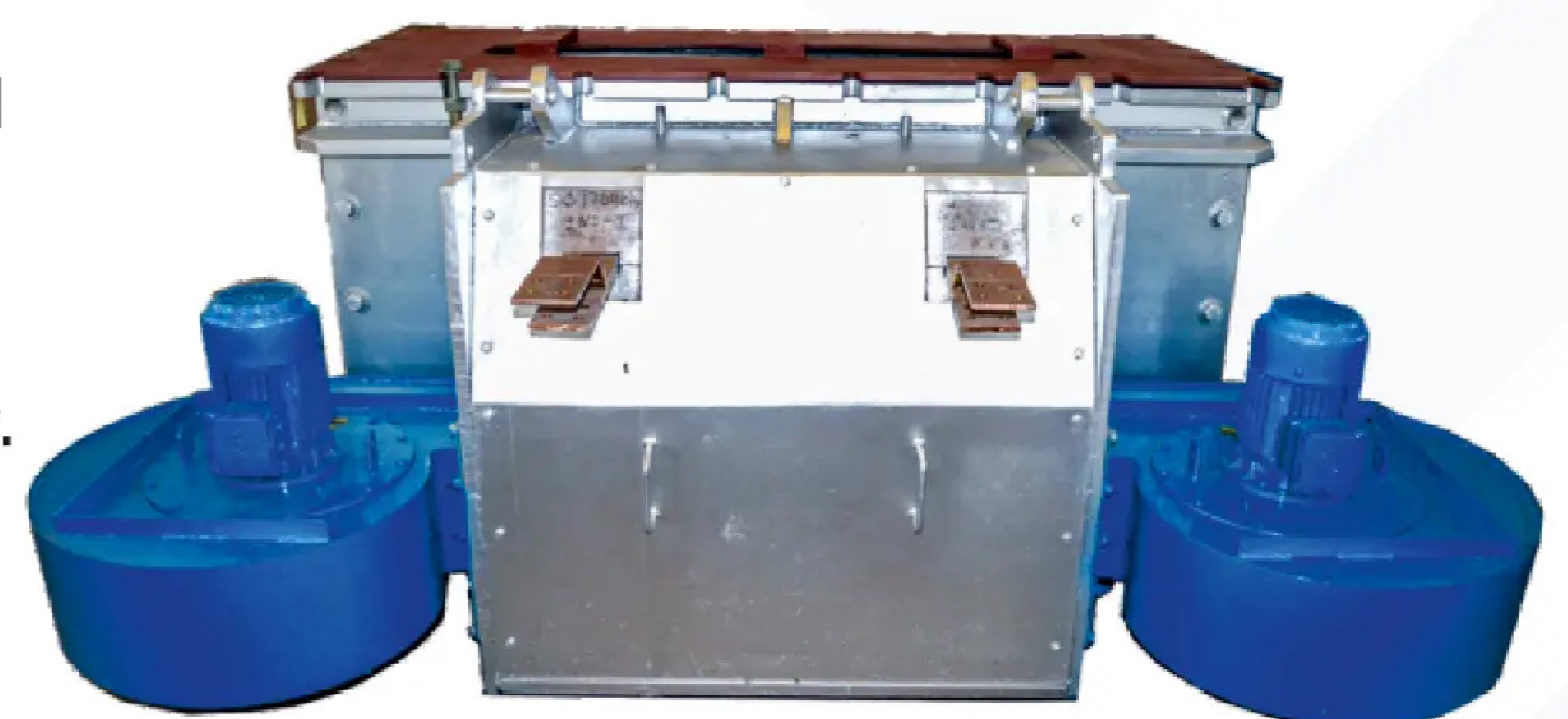
▪ Coils:

Advanced repair, refurbishment, redesign and replacement of melting and heating coils for all types of furnaces. Our engineering-driven approach strengthens high-wear areas to extend service life and improve efficiency at par or even better than standard OEM designs



▪ Inductors:

- ▶ High-performance channel inductors used for main pots and pre-melt systems.
- ▶ Our inductor coils are made of 99% pure oxygen free electrolytic grade rugged copper to minimize system losses
- ▶ Based on Dynamic Flow Optimization (DFO) with air cooled inductor.
- ▶ Configurable power levels at various Kilowatts.
- ▶ Heavy-duty steel housing further enhances the mechanical strength and life of inductors.
- ▶ Forced-air cooling with energy efficient dual blowers.
- ▶ Fully interchangeable modular design of inductor assembly.
- ▶ Adaptability of emergency cooling for inductor.
- ▶ Thermocouples for real time measurement and display of bushing temperature



■ Spare Components

Control Panel					
					
Control Voltage Transformer	Earth Leakage Relay	Over Voltage Relay	SMPS	Transducer	
Power Supply Unit					
					
Capacitor	Capacitor Discharge Resister	Current Transformer	Epoxy Insulators	Choke	Core & Coil Assembly For Reactor / Transformer
Inductor					
					
Air Cooled Cooling Jacket	Air Cooled Inductor Coil for Channel Furnace	Aluminium Mould for Channel Furnace	Bare Element of Thermocouple	Blower	Inductor Core Assembly
					
MICA Washer	RTD With Sensor	Syndhania Ring	Water Cooled Cooling Jacket	Water Cooled Inductor Coil	
Induction Furnaces		Loops		General Spares	
					
Mains Frequency Coreless Furnace Melting Coils	Water Flow Switch	Water Pressure Switch	W Copper Loop	U Copper Loop	Thermocouple
					
					Ceramic Hanger

■ Availability of AMC

- ▶ **Faster Response, Less Downtime:** Priority attention to your breakdown calls.
- ▶ **Expert Troubleshooting & Repairs:** Quick diagnosis, professional repairs and replacement of defective parts (spares provided on a chargeable basis).
- ▶ **Permanent Solutions:** Detailed root cause analysis with corrective action to prevent repeat issues.
- ▶ **Transparency at Every Step:** Comprehensive inspection report will be shared after each visit.
- ▶ **Proactive Recommendations:** Recommended list of spare parts shall be provided to ensure preparedness and prevent unexpected delays.
- ▶ **Instant Expert Guidance:** Remote technical assistance via phone, email or video to resolve issues quickly.
- ▶ **On-Site OEM Support:** Professional support from our highly trained and experienced engineers whenever required.
- ▶ **Training:** Hands-on training for your operations and maintenance staff to ensure safe, efficient and trouble-free equipment use.
- ▶ **Field Service & Emergency Response:** Emergency assistance is available 24/7.
- ▶ **Preventive & Predictive Maintenance:** Reduce unplanned downtime, prevent costly failures, and stabilize long-term performance.

Advantages of AMC with Pioneer Furnaces

- ▶ **Assured Reliability:** Regular preventive maintenance minimizes the risk of unexpected breakdowns.
- ▶ **Predictable Cost:** Fixed annual charges make it easier to plan and control your maintenance budget.
- ▶ **Priority Services:** Enjoy faster response and priority support for all service request.
- ▶ **Expert Care:** All services are carried out by our highly trained and experienced engineers, ensuring quality and precision.
- ▶ **Extended Equipment Life :** Regular care keeps your equipment performing at its best and prolongs its lifespan.
- ▶ **Comprehensive AMC:** Covers preventive maintenance, breakdown visits and supply of spare parts at 10% discounted prices.

SYSTEM RELIABILITY SERVICES (SRS) – Remote assess of Panel for trouble shooting

The IGBT PSU is equipped with global internet connectivity through HMI, enabling online access to the system. This allows our technical team to remotely monitor parameters and provide prompt troubleshooting support to customers.

WHY PIONEER FURNACES

- ▶ OEM expertise with full aftermarket capability
- ▶ Proven focus on system reliability and uptime
- ▶ Rapid response with global reach
- ▶ Engineered solutions-not just replacements
- ▶ Support for any brand or make, any system, any stage of life

Our Key Clientele



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