TESI GROUP

Induction Heating Equipment

ABOUT TESI GROUP

With over 40 years of expertise, TESI designs, manufactures and distributes products and accessories for the **energy, oil & gas, petrochemical** and **chemical** industries.

Our production is divided into three main business areas:

- **Heat Shrinkable Products**
  for corrosion protection of pipes.
- **Induction Heating Equipment**
  for pipeline construction and industrial heat treatments.
- **Ignition systems** for industrial burners

Continuous **research and development** of new solutions, **full cooperation** with customers, **efficiency** and **precision** in execu-tion are the strengths that have enabled the company to succeed in these three decades.

The great flexibility of the structure and the **ability to deeply understand customers needs** make TESI a reliable partner providing superior solutions all over the world.

TESI INDUCTION HEATING DIVISION

TESI Induction Heating division design and provides **induction heating solutions** for multiple market segments around the world. Most of our solutions are **tailor-made** and meet the customer's needs to satisfy all the demands and specifications of their projects.

Our products are reliable, robust, safe, efficient and every solution is carefully designed to **minimize the energy consumption** of the processes and **increase productivity**.

Our induction heating solutions **can fit any industrial application** that requires heat treatment such as oil and gas, ship building, power generation, wire and cable, and tube and pipe. TESI's Induction Division owns multiple international patents and has been developing heating solutions for various market industries for over 40 years. We have a strong presence in Europe, United States, Canada, South America, Asia, and the Middle East.

TESI partner you
with flexible solutions
for complex applications.

EQUIPMENT FOR THE PIPELINE INDUSTRY

TESI designs, manufactures, and services equipment for the Pipeline industry. Our **automated machines** and equipment are widely used around the world both for **onshore** and **offshore projects**, as well as in **spool-base** or **double-joint prefabrication plants**. We offer a wide range of induction heating equipment, automatinc coating equipment, automatic equipment for FBE, automatic equipment for blasting, automatic equipment for HSS installation. We also supply pay welders, line-up clamp, beveling machines and automatic welding equipment.

MOBILE INDUCTION HEATING EQUIPMENT

TESI Induction developed a wide range of mobile systems, **fully digitally controlled**, that can be **easily moved** around the workshop, factory, plant or field job site. The systems are **simple** to operate and equipped with **IOT** (Internet Of Things) **technology** which allows our operators to monitor the equip-ment from remote locations, and support the operators during operations out in the field. With **outputs 10-350 kW** and **frequency range from 300Hz to 300 kHz** the mobile systems combined with **TESI coils** can be used for unlimited applications.

STATIONARY INDUCTION HEATING SYSTEMS

Static induction systems by TESI are **the most flexible** and **reliable** solutions used for a wide variety of heating applications. Combined with custom-designed TESI coils, the static induction systems **increase productivity, improve quality,** and **optimize efficiency** of production lines. We offer custom made solutions for any induction heating process. Whether you require a standard **low, medium, or high frequency system**, or a **custom-made engineered system**, we have the solution you need.

INDUCTION HEATING COILS

TESI designs induction heating coils to **perfectly match** the most difficult applications. **Regardless of the power source**, wheather it is a TESI power source or different, our R&D department can simulate, build, and test **any heating process** and produce the best suitable solution. There is no job too big or too small for TESI. Whether you need rigid or flexible, single or multiturn, air or water cooled, new or reconditioned, small or giant, TESI can make **any type of induction heating coil.**

INDUCTION BRAZING SYSTEMS

TESI designs and manufactures induction brazing systems for **any brazing task**. We supply systems in the **electrotechnical industry** to braze generator and transfomer components. We supply the **automotive industry** where induction brazing is used to braze fuel pipes and brake parts. In **aerospace** where induction is used to braze fan blades and hydraulic systems parts. Power of generator and size and shape of coil are selected **in accordance with application and productivity required** by customer.

INDUCTION DECK STRAIGHTENING SYSTEM

Straightening of deck and bulkheads in ship building is a long process due to exceptionally long weldings to be treated. Induction heating in this application has **dramatically reduced the operation time**. Wheel mounted induction head incorporate transformer and a magnet and guarantee a **perfect positioning during heating** operation. The system **does not generate acoustic noise** so that operators are protected and safe.

INDUCTION SYSTEM FOR BOLT EXPANSION

Prominent manufacturing companies all over the world have adopted the induction heating method for bolt expansion of high-pressure gas turbines. Largely because the **speed** and **accuracy** of the induction heating process **prevents any damage** to the bolt threads. As the heating process is very quick and localized, there is no time or opportunity for the heat to reach other areas that do not need to be treated, therefore avoiding any risk of rods melting inside the bolts. **No other method can guarantee the same level of accuracy, efficiency, and quality**.

INDUCTION SYSTEM FOR COATING REMOVAL

Coating or paint removal by induction heating is **extremely more efficient** then any traditional **paint-stripping methods** such as abrasive blasting or disk grinding. Coating Removal System removes industrial coatings and paintings of **almost any thickness**. Records for removal of high-build coatings indicate up to **90% time reduction** to remove high-build coatings. The system is used in multiple business activities and applications such as Pipelines, Ships / Marine, Storage tanks, Buildings and Offshore industry.

Your best partner in Induction Heating Equipment.

RENTAL SERVICE

TESI provides also rental service. We have a **fleet of equipment** on stock or spread around the world that is mobilised from place to place to perform different type of application. Our Service centres in Europe, North America, Middle East and China provide different type or services including **shipping management, field support** and **international custom clearance**.

SERVICES

TESI is customer-oriented and has built-up relations with customers because of the **total support** that is provided during different stages of activity. We supply **Consultancy & Cost/Benefit analysis, 3D modelling & Software simulation, Field Services, After sale service** and **preventive maintenance programs.**

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