Welcome!
HITECH

INDUCTION
Different Component for induction hardening.
We take this opportunity to introduce ourselves as “Hitech Induction” which is a technology driven Company with over twelve year of experience in the field of Induction Hardening and control Automation.

We are manufacturing Induction Hardening, heating annealing, brazing, billet heater Machines with cooling system and PLC control mechanical scanner. We are a multinational company & exporter(Australia) of Induction Hardening Machine. Our credentials speak for themselves. We have executed assignments for some of the most prestigious names across every sector of Industry.

Hitech Induction customer profile ranges across sectors such as: heavy machinery manufacturers, consumer durables manufacturers, Auto Industries, etc. We can proudly claim to have satisfied the widely varying needs for good quality Induction Machines of our selective customer base.

Today Hitech Induction is a dynamic & professionally managed Company with a pyramidal corporate structure.
Further consolidating its prominent position as a leading manufacturer of Induction Hardening Machine, the company has set up a manufacturing facility at the Modern Industrial Estate in Bhadurgarh, near Delhi. The plant incorporates contemporary production, quality control, & management methodology. The factory also houses a fully equipped Research & Development facility where our engineers continuously endeavor to bring to our valued customer top-of-the-line, reliable & quality products besides providing customized Induction related Solutions. Considering the feedback from users, our engineers also strive to upgrade our existing product range. We look forward to serving your Induction hardening needs and solicit your enquiries in this regard. As a first step toward this end, we request you to kindly empanel us as a vendor for Induction Hardening solutions.

We would like an opportunity to do business with you. If you have any specific requirements please do let us know. We assure you of complete satisfaction.

Thanking you & assuring you of our services at all times & hoping to do business with your esteemed organization, we are. Sincerely yours,

Vikram Singh (Director)

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HORIZONTAL INDUCTION HARDENING WITH ONLINE TEMPERING MACHINE.
HORIZONTAL INDUCTION HARDENING WITH ONLINE TEMPERING MACHINE.
Break shoe induction hardening
Double station for chain sprocket
Vertical induction hardening machine
ADVANTAGES

**Consistency:** Accurate temperature control provides uniform results consistently, with negligible rejection.

**Improved Quality:** Contact-free process induces heat in the product without having any contact with it, reducing rejections.

**Increased Profits:** Energy efficient process converts up to 80% of the expended energy into useful heat to save costs.

**Maximized Productivity:** Instantaneous and controlled heat allows for increased production at reduced costs.

**Environmentally Friendly:** Clean, non-polluting process produces no smoke, waste heat, noxious emissions or noise.
Solid State Induction Heating Power Supply Unit

- Low Electric Noise, Fast Response.
- Over temp. Protection, water flow fails protection, over current and over voltage protection, Phase fail protection.
- Highly Reliable and Efficient Voltage source inverter.
- Operating voltage 3 phase /50 Hz (Input voltage 415V)
HORIZONTAL MECHANICAL SCANNER

- Fully S.S (Stainless steel) Body, totally rust free for its long life.

- Easy and fast loading and Unloading process.

- Horizontal scanner of 600 mm distance, job scanning servo and servo motor (Make: Omron).

- S.S. Roller and tray.

- 3 axis slide arrangements for Inductor movements.

- Fabrication S.S sheet cover.

- Ball Screw, LM bearing, sliding door, heavy S.S body frame.

- Automatic loading and unloading system.
CONTROLING SYSTEM

The whole sequence of operation is programmed in PLC /CNC and control by HMI.

7” Touch screen Display for operation.

Data saving & storage in external storage device like pen drive etc.

On line process monitoring/control by PLC (Make Omron).

The whole sequence of operation is programmed in PLC like:-

Heat on time, quench on time.

Different zone wise speeds.

Show Production in display.

Program Save & load option.

PLC Password protection.

Show travel distance, speed etc.

Return time, different zone heating.

Universal type settings cover all type of jobs in job code settings.

Fault & all alarm messages are programmed in PLC, etc.

Tower light indication like Green for run, read for fault etc.

Automatic distance setting by using encoder pulse.

Water proof proximity sensors.

Different manual and automatic speeds available.

Rotation speed controller port for uniform heat and cooling.

Red Emergency push button in front of operator.

All Inputs & Outputs related alarm messages to be created in HMI.

Contactors, Over load relay and MCB (Make : Schneider).

All outputs are driven by Relays (Make : Omron).

Operating voltage 3 phase/50 Hz (Input voltage 415V).

L.E.D push button for pumps.

D C  Drive and D C motor for Rotation.

R.Y .B LED Indicator, SMPS (Make: Omron), Digital Voltmeter (Make: Selco), Tower Light (Make : Fuji), Temperature controller (Make: Selco), Proximity sensor (Make: Autonix) Thermocouple, etc.

On/Off switch (Make: L&T), Voltmeter selector switch (Make: L&T).
COOLING SYSTEM

- Distilled Water Cooling Recirculation system for Power Supply & Induction Coils.
- Pump (Make: Crompton/Kirlosker).
- Heat exchanger (MAKE: S.S Plate Trenter).
- Pressure gauges, Digital flow controllers (make: SMC).
- Complete pipe lines and valves.

- Quench Water Cooling Recirculation system.
- Pump (Make: Crompton) with the piping & valve arrangements.
- Heat exchanger (Make: S.S Plate Trenter).
- Pipe lines and valves.
- Pressure gauges, Digital flow controllers (make: SMC).
- Quench tank.
- Quench Assembly Settings.
- Quench manifold and quench barrel.
- Necessary instruments & gauges.
After Sales Services is Our Strengths

- Annual Maintenance Contracts for equipments.
- Machine upgradation / overhauling.
- Frequency Converter upgradation / overhauling.
- Exchange of old equipment with new equipment.
- Training programs for production and maintenance personnel of customers.
THANK YOU