



KHARAY

INDUCTION HARDENINGS



- ▶ Induction Hardening Machines
- ▶ Induction Annealing Machines
- ▶ Induction Billet Heaters
- ▶ Induction Melting Machines



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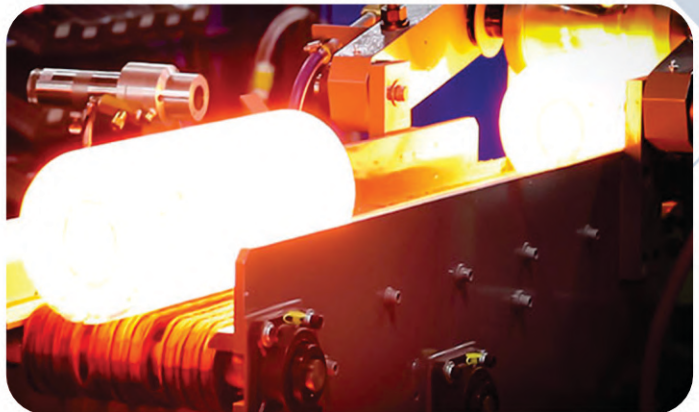
ABOUT US

Incepted in the year 1994 as a Sole Proprietorship firm at Ludhiana (Punjab, India), We “Kharay Induction Hardenings” are an affluent manufacturer of a wide array of Induction Billet Heater, Induction Hardening Machine, Induction Brazing Machine etc. These products are highly acclaimed for their high durability, easy maintenance, energy efficiency and optimum performance. Under the supervision of our mentor, “**Mr. Gurdeep Singh**”, we have attained vast success in this field.

Why Us?

Owing to our in-depth industry knowledge and qualitative product range, we have attained huge client base all across the country. Some of the major reasons for which we have become the foremost choice of our clients are :

- HIGH QUALITY PRODUCTS
- ROBUST INFRASTRUCTURE
- SKILLED TEAM OF PROFESSIONALS
- TRANSPARENT DEALINGS
- ETHICAL BUSINESS POLICIES
- EASY PAYMENT MODES
- CUSTOMIZED PACKAGING



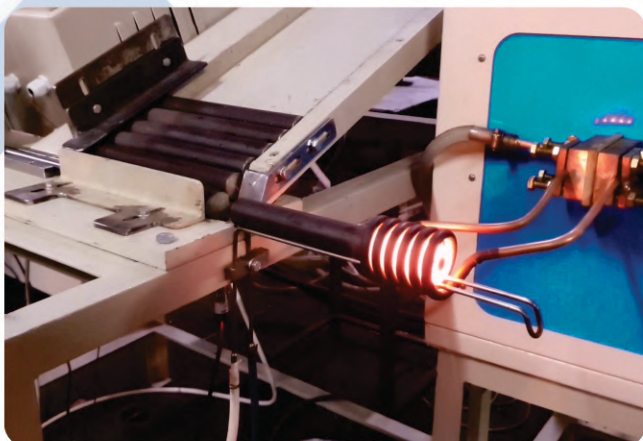
INDUCTION BILLET HEATERS (I.B.H)

INDUCTION BILLET HEATERS uses electromagnetic induction to generate heat in a metal billet. It's commonly used in the manufacturing industry for processes such as forging, extrusion, and rolling. The induction billet heater allows for precise temperature control and uniform heating, which results in higher productivity and better quality products. Plus, it's much more energy-efficient than conventional heating methods. Induction Billet Heater has revolutionized the metalworking industry by making the heating process faster, safer, and more cost-effective.

BILLET HEATER

KEY FEATURES:

- PLC CONTROLLED
- POWER RATING: 25 KW - 250 KW
- FREQUENCY: 1 KHz - 10 KHz
- PNEUMATIC & HYDRAULIC FEED MECHANISM
- AUTOMATIC REJECTION SYSTEM
- TEMPERATURE CONTROL WITH DISPLAY
- PYROMETER TEMPERATURE DISPLAY
- MAGAZINE & AUTOMATIC STACKING SYSTEM



END HEATING MACHINES

KEY FEATURES:

- PLC CONTROLLED
- POWER RATING: 25 KW - 250 KW
- FREQUENCY: 1 KHz - 10 KHz
- PNEUMATIC & HYDRAULIC FEED MECHANISM
- AUTOMATIC REJECTION SYSTEM
- TEMPERATURE CONTROL WITH DISPLAY
- PYROMETER TEMPERATURE DISPLAY
- MAGAZINE & AUTOMATIC STACKING SYSTEM

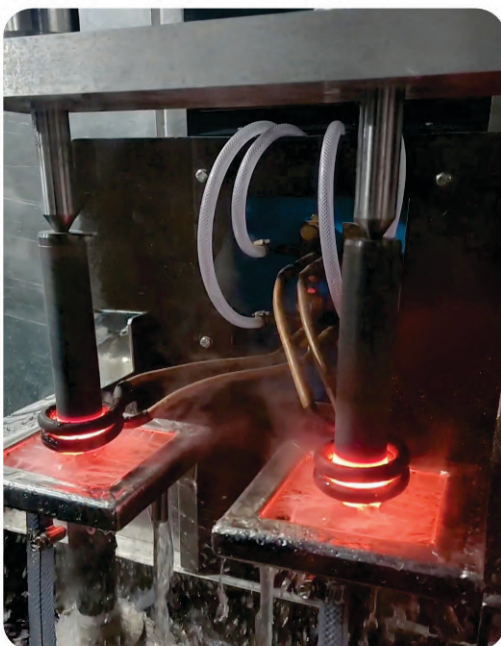
INDUCTION HARDENING MACHINE (SCANNER)

Induction hardening is a heat treatment technique used for improving the wear resistance of steel parts by selectively hardening their surface layer while retaining their toughness. Intense heat is applied via electromagnetic waves on the surface of the metal part, heating it up and then cooling it down rapidly with water or oil. This creates a hardened outer layer while maintaining the strength of the inner core. The end result is an object that can withstand high levels of stress, impact, and wear without breaking down. Induction hardening is constantly used in various industries including automotive companies, tool makers, and manufacturing plants to create long-lasting and durable machine parts.

SINGLE SPINDLE SCANNER

KEY FEATURES:

- PLC & CNC CONTROLLED SYSTEM
- POWER RATING : 25 KW - 250 KW
- FREQUENCY: 3 KHz - 250 KHz
- HARDENING LENGHT 500mm, 1000mm, 2000mm
- SERVO MOTOR CONTROLLED MOTION WITH BALL SCREW AND RAIL GUIDES
- STAINLESS STEEL FABRICATION
- ROTATING CENTER



DOUBLE SPINDLE SCANNER

KEY FEATURES:

- PLC & CNC CONTROLLED SYSTEM
- POWER RATING: 100 KW - 250 KW
- FREQUENCY: 3 KHz - 250 KHz
- STAINLESS STEEL FABRICATION
- DUAL ROTATING CENTER
- DUAL COIL WITH SEPERATE QUENCH SPRAY

INDUCTION HARDENING MACHINE WITH DROPPER

Induction heaters are incredibly versatile and have found their way into a variety of industries. They use electricity to generate heat by inducing eddy currents in conductive materials. Induction heating is also highly controllable, allowing engineers to specify precise temperature ranges which saves both time and money by reducing processing times and minimizing downtime due to equipment-related issues.

KEY FEATURES:

- POWER RATING: 15 KW - 50 KW
- FREQUENCY: 50 KHz - 250 KHz
- SUITABLE FOR APPLICATIONS LIKE :
- HARVEST BLADE HARDENING
- SCREW DRIVER HARDENING
- ANNEALING



DUAL STATION INDUCTION HARDENING MACHINE



KEY FEATURES:

- PLC & CNC CONTROLLED SYSTEM
- POWER RATING: 100 KW - 250 KW
- FREQUENCY: 3 KHz - 250 KHz
- STAINLESS STEEL FABRICATION
- DUAL ROTATING CENTER
- INDIVIDUAL SPINDLE CONTROL WITH INDIVIDUAL PLC

HAND HELD INDUCTION HEATERS



KEY FEATURES:

- POWER RATING: 10 KW - 100 KW
- FREQUENCY: 50 KHz - 250 KHz
- LONG WIRE UPTO 30 METERS

SUITABLE FOR APPLICATIONS LIKE :

- ON SPOT HEATING
- RADIATOR BRAZING
- SHRINK FITTING



Model	KIH-06AC	KIH-7A	KIH-10A	KIH-20AB	KIH-40AB	KIH-60AB	KIH-100AB
Power supply	220 V, single-phase - 50/60 Hz	220 V, single-phase - 50/60 Hz	380 V, three phase - 50/60 Hz	380 V, three phase - 50/60 Hz	380 V, three-phase - 50/60 Hz	380 V, three-phase - 50/60 Hz	380 V, three-phase - 50/60 Hz
Operating voltage	180 - 250 V	180 - 250 V	340 - 430 V	340 - 430 V	340 - 430 V	340 - 430 V	340 - 430 V
Output power	3 kW + 3 kW	7 kW	10 kW	20 kW	40 kW	60 kW	100 kW
Frequency	200 - 500 kHz	50 KHz-1MHz	50 - 300 kHz	50 - 250 kHz	3 - 200 kHz	3 - 150 kHz	50 - 200 kHz
Output current	3 - 12 A	5 - 20 A	3 - 20 A	3 - 35 A	10 - 60 A	12 - 100 A	30 - 150 A
Dimension (mm)	285 x 287 x 146.5	632 x 260 x 550	632 x 260 x 550	G: 600 x 260 x 530 T: 400 x 250 x 380	G: 680 x 350 x 600 T: 500 x 300 x 480	G: 750 x 400 x 880 T: 500 x 300 x 450	G: 630 x 280 x 535 T: 500 x 260 x 450