luzars
INDUCTION HEATING

INDUCTION HEATING TECHNOLOGY

- Capacities from 5 KW to 500 KW
- Frequency range from 1 KHz to 400 KHz
- IGBTs or MOSFETs transistor systems
- 220V or 440V power supply

400 KW

100 KW

25 KW

GENERAL DATA

LUZARS Induction Equipment has been designed based on the latest developments in three-element inverters (resonant L-LC) that offer great robustness against short-circuit at the output and the possibly of being easily coupled to different work coils in a wide range of frequencies.

Another advantage of L-LC resonants compared to the series resonants frequently used by our competitors is that the current it the secondary of the isolation transformer is considerably reduced (by a factor of 3 to 10 times). This reduces energy losses on the output heating head, opening the possibility of using flexible extension leads, bringing the work coil closer to difficult-to-access areas within the manufacturing process.

OUR ADVANTAGES

- ✓ Advanced technology, compact and efficient design.
- ✓ Extension cable to bring the work coil closer to the process.
- ✓ Easy to tune and use (no tool required)
- ✓ Quick change inductors (included as standard)
- ✓ Designed for continuous work
- ✓ Advanced electronic protection against short circuit in the work coil.
- ✓ High power factor
- ✓ Minimum maintenance
- ✓ Includes 0-100 sec timer for automatic stop control

Easy to tune

Quick coil change

2.2 m. flexible cable

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INDUCTION HEATING

INDUCTION HEATING EQUIPMENT

OUR MODELS

POWER	FREQUENCY (operation range)	VOLTAGE	LUZARS MODELS
5 KW	100-400 KHz	220 VCA	DX5-A
10 KW	20-80 KHz	220 VCA	CX10-A
10 KW	100-400 KHz	220 VCA	DX10-A
15 KW	20-80 KHz	440 VCA	CX15-B
25 KW	20-80 KHz	440 VCA	CX25-B
50 KW	10-20 KHz	440 VCA	BX50-B
50 KW	12.5-50 KHz	440 VCA	LCX50-B
50 KW	100-400 KHz	440 VCA	DX50-B
100 KW	10-20 KHz	440 VCA	BX100-B
100 KW	12.5-50 KHz	440 VCA	LCX100-B
200 KW	5-10 KHz	440 VCA	AX200-B
200 KW	12.5-50 KHz	440 VCA	LCX200-B
300 KW	5-10 KHz	440 VCA	AX300-B
300 KW	12.5-50 KHz	440 VCA	LCX300-B
400 KW	10-20 KHz	440 VCA	BX400-B
500 KW	1-4 KHz	440 VCA	LAX500

We Are Certified!

ISO 9001:2015

Induction equipment:

Design and manufacture of induction heating equipment

Heat treatment service:

Product and service of heat treatments and induction welding

TÜVRheinland®
CERTIFIED

A+
Applus+
CALIDAD
EMPRESA CERTIFICADA
NMX-CC-9001-IMNC-2008
Certification Technological Center

- **CONTACT:**

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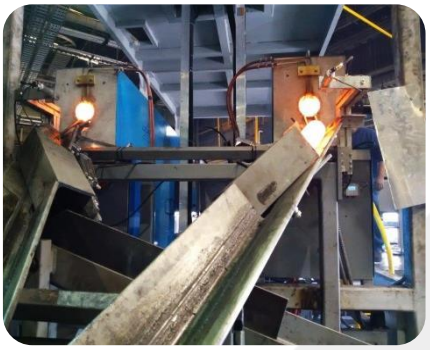
INDUCTION HEATING

APPLICATIONS

- Welding
- Heat treatments
- Foundry
- Plastic injection
- Forging
- Paint and adhesives curing
- Heat seal
- Metallic inserts



FORGING

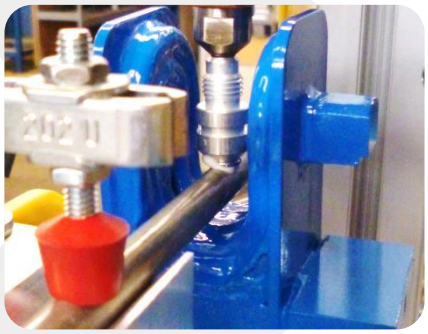
It is possible to bring the piece to it is forging temperature in a homogeneous way in a shorter time that with traditional methods. Induction, in an addition to be a repetitive and a clean process, allows precise temperature control throughout the heating cycle, thus reducing scale formation, something very important for the metallurgical composition of the metals.

HEAT TREATMENTS

Induction is superior to traditional methods due to its high process repeatability, rapid and selective heating, and the ability to obtain desired layer thicknesses. Common applications of induction heat treatments include quenching, normalizing, annealing, and stress relieving

WELDING

Heating is selective, fast and provides greater precision in the process, as well as high quality repeatable parts, the joint does not require much cleaning since it generates little oxidation and distortion; unwanted metallurgical changes in another point of the part are eliminated. Welding can also be carried out in controlled atmospheres.



CURING PAINTS AND ADHESIVES

Induction heating tends to minimize coating defects created by bubbles formed with heat from an external source.

Because of this you can work in continuous production when curing paint, adhesives and resins.

- **e-mail:**

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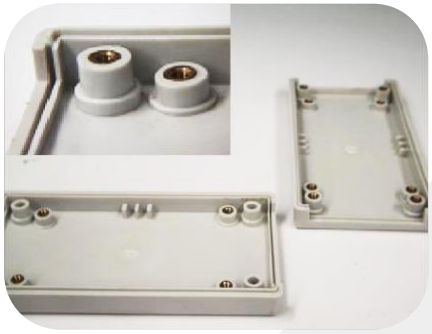
INDUCTION HEATING

APLICACIONS

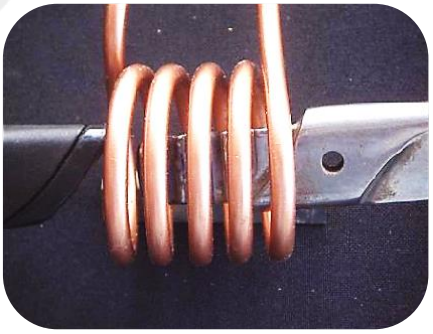
- Welding
- Forging
- Heat Treatments
- Curing paints and adhesives
- Foundry
- Heat seal
- Plastic injection
- Metallic inserts



METALIC INSERTS

The heating times of the inserts are low and at perfectly controlled temperatures avoiding the crystallization of the surrounding area, due to the speed of the process the formation of oxides is avoided.

For this reason, the insertion process is streamlines, leading to continuous production of excellent results.



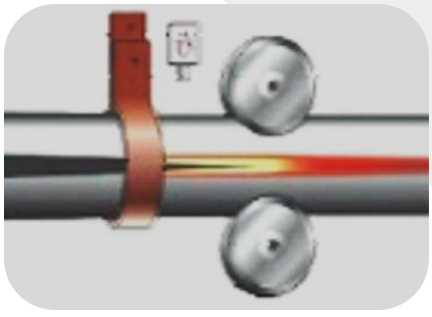
FOUNDRY

Induction heating is a smart way to melt metals. Induction casting is a fast, efficient and much cleaner process than conventional methods (gas furnace, direct flame). The heat generated by induction is accurate and repeatable, which is important to ensure the quality of casting processes.

HEAT SEAL

Through induction heating it is possible to apply localized heat quickly to the area to be sealed.

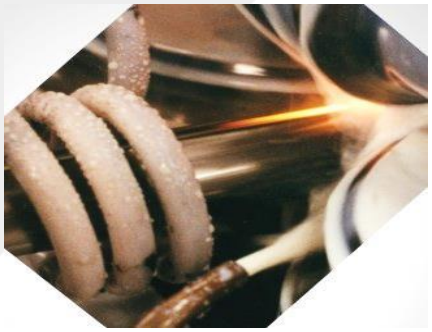
These joint types include plastic with metal, plastic to plastic (using metal gaskets), glass to metal, and rubber to metal.



PLASTIC INJECTION

The benefits of induction in the plastic injection process are several.

The loss of heat by radiation is significantly reduced, the process is kept controlled in each stage to ensure that the temperature increases as desired and thus guarantee that the melted plastic flow as well as possible obtaining parts with the best quality.



INDUSTRIAL METAL-MECHANIC, JEWELRY, METAL, PROD. PACKAGING, DENTAL AND SCIENTIFIC APPLICATIONS

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