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INDUCTION HEATING TECHNOLOGIES

Company Profile



Induction heating technologies

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DESIGN & MANUFACTURING

■ turn-key std. & customized machineries, automatized solutions

■ MF/HF generators, inductors, exit transformers, heating units

■ on-line crack detection, micro-structure, workpiece control units



1999
year of
establishment

30
no. of
employees

1300
sqm workshop
surface

ADMINISTRATION AND COMMERCIAL PROFILES **STAFF**



Denis Rizzato

technical & gen. mgr.
rizzato.d@



Claudio Donolato

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donolatoc@gmail.com



Tiziano Rizzato

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Riccardo Penna

purchaser / procurist
acquisti@



Claudio Trivellato

administration
amministrazione@

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INDUCTION HEATING TECHNOLOGIES

OUR AND WORKSHOP OFFICES



OUR AND LABORATORY TEST MACHINERY



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INDUCTION HEATING TECHNOLOGIES

WHAT IS INDUCTION HEATING?

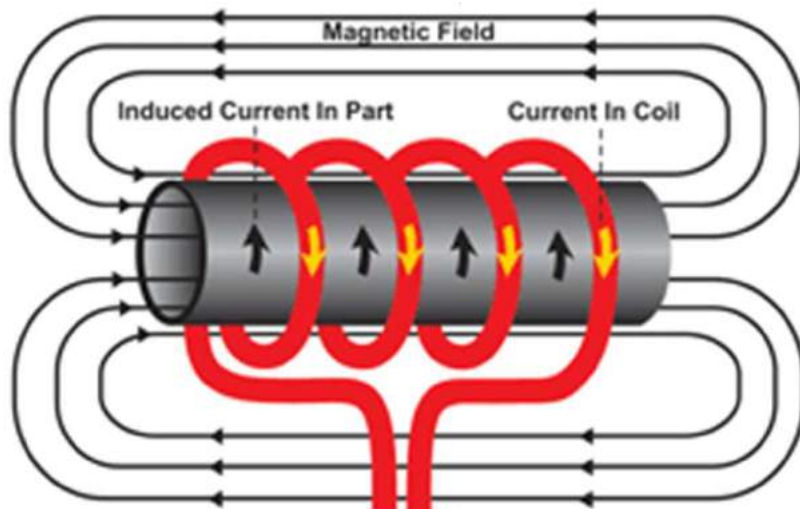
Induction heating involves passing a **high-frequency** alternating current through a **coil** to induce rapid heating of the component **surface** situated appropriately within its **electro-magnetic field**

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INDUCTION HEATING TECHNOLOGIES



These
**INDUCED
CURRENTS**
are called
**EDDY
CURRENTS**



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INDUCTION HEATING TECHNOLOGIES



MAIN ADVANTAGES

HIGH THERMAL EFFICIENCY
PROCESS REPEATABILITY
HEATING SPEED

AUTOMATED
HEAT-
TREATMENT
PROCESS

PROCESS
PARAMETER AND
ENERGY SUPPLY
MONITORING
AND **RECORDING**

TARGETED
LOCALISED
HEATING

APPLICATION IN
ANY
ATMOSPHERE
OR VACUUM

ECO -
FRIENDLY

FAST
SETUP
TIMES

HEATING
WITHOUT DIRECT
INFLUENCE OF A
FLAME

SUITABLE TO BE
PLACED ALONG
THE **PRODUCTION**
LINE

MINIMISED
HEAT
TREATMENT
DISTORTIONS

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INDUCTION HEATING TECHNOLOGIES

SiC-MOSFET and **IGBT**

transistor-technology
frequency generator

Inductors and
heating units

Horizontal
and **vertical**
machineries

**Process
control**

software
development

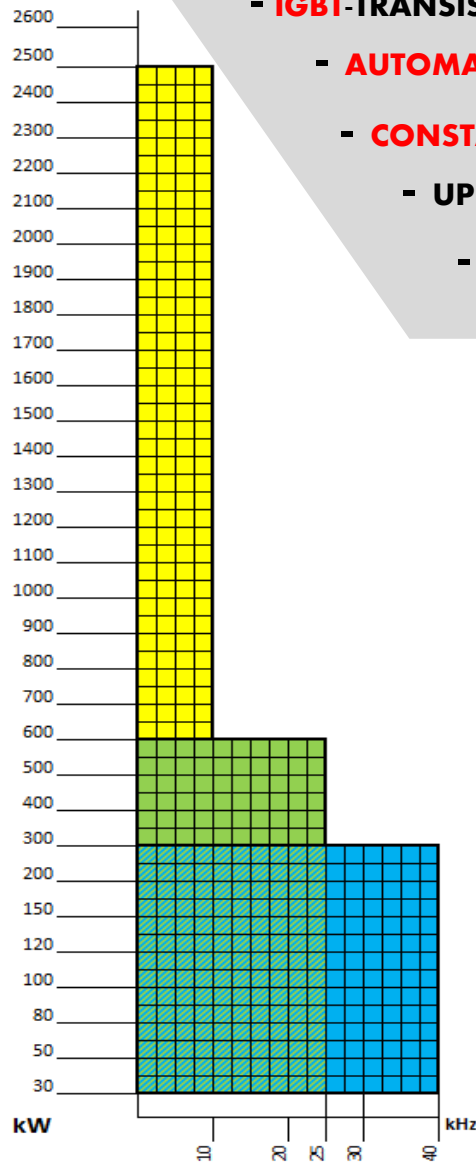
**Experienced
technicians at
your service**

Crack and
microstructure
control units

Spare parts and
retrofitting

**Special-
combined**
machineries

MF GENERATORS



- **IGBT-TRANSISTOR INVERTER TECHNOLOGY**
- **AUTOMATIC FREQUENCY SWITCHING**
- **CONSTANT POWER RELEASE EVEN ABOVE THE CURIE'S POINT**
- **UP TO 40 kHz AVAILABLE FREQUENCIES**
- **EASY MAINTENANCE + USER'S FRIENDLY DESIGN**



Supplied with **TELESERVICE** modem for remote and quick diagnosis

Principale		Registrazione valori			
Vcc(V)	0	325	329		
Icc(A)	2	226	223		
F(kHz)	0.7	177.9	177.7		
P(kW)	0.0	73.2	73.5		
L(nH)	0	202	202		
Q	0.00	6.35	6.35		
Vac.p	0	508	518		
Iac.p	0	287	283		



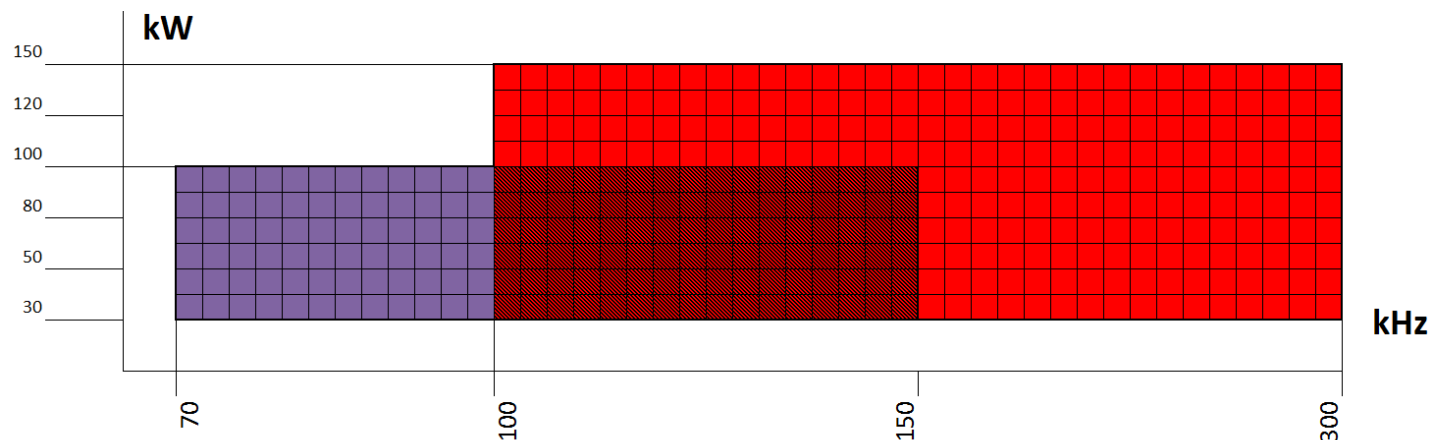
HF GENERATORS



- **SiC MOSFET**-TRANSISTOR **ENERGY SAVING** INVERTER TECHNOLOGY
- **AUTOMATIC FREQUENCY SWITCHING**
- **CONSTANT POWER RELEASE** EVEN ABOVE THE **CURIE'S POINT**
- **70 to 300 kHz** AVAILABLE FREQUENCIES
- **EASY MAINTENANCE + USER'S FRIENDLY DESIGN**



Supplied with **TELESERVICE** modem for remote and quick diagnosis



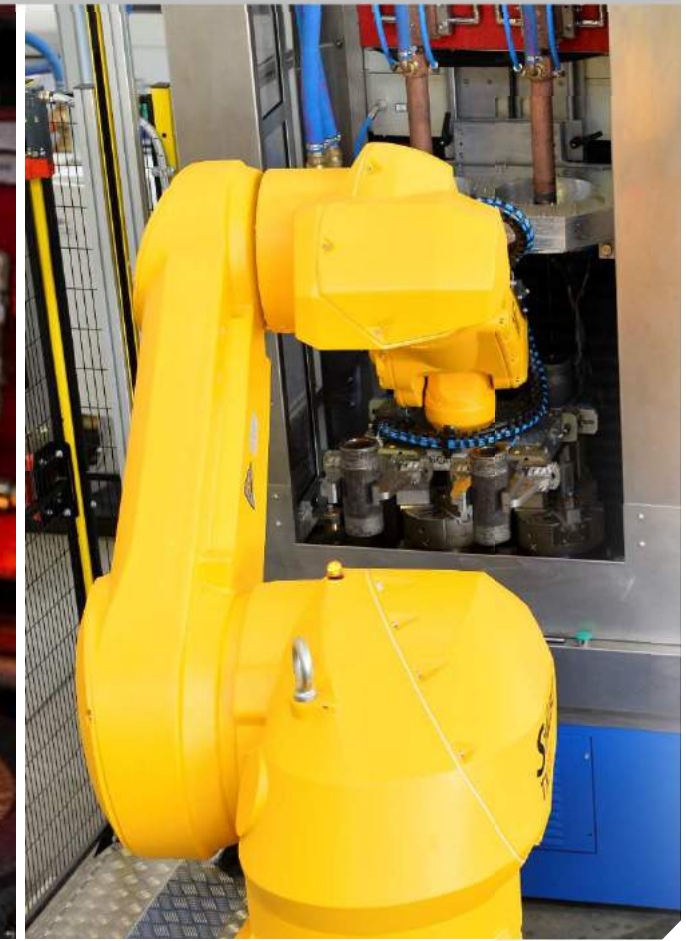
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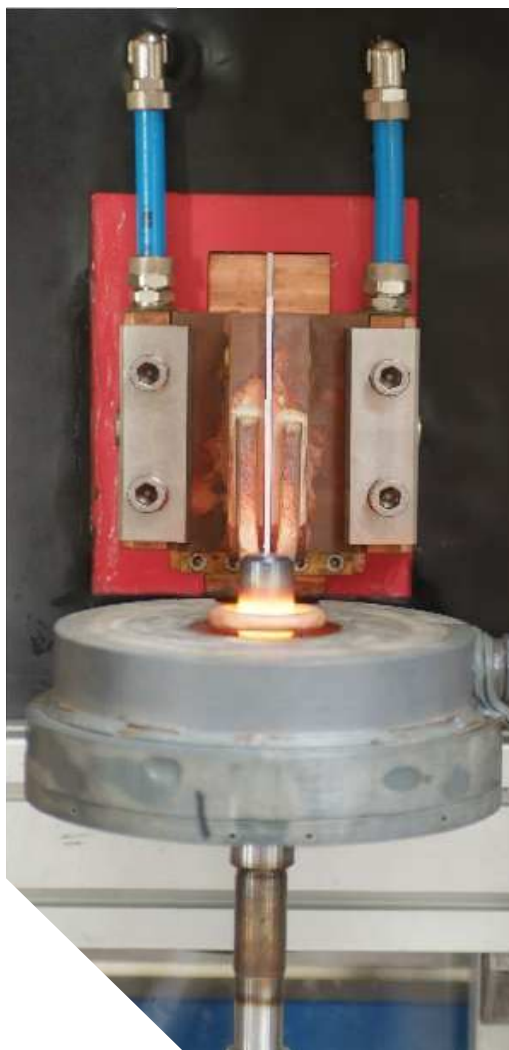
TIPOLOGY OF INDUCTION HEAT TREATMENT MACHINERIES



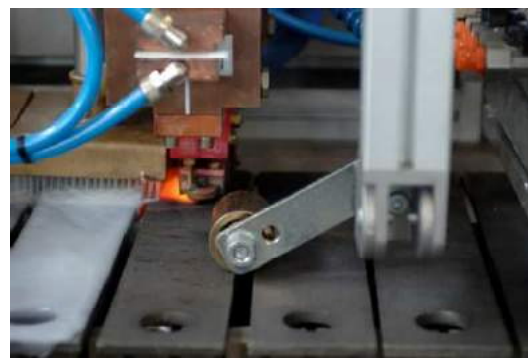
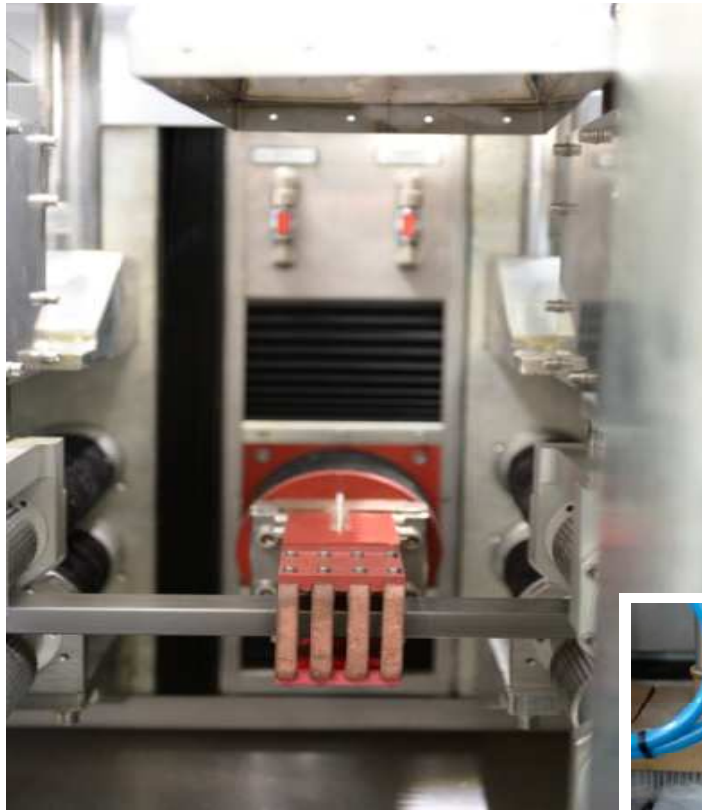
**VERTICAL
MACHINERIES**
(UP TO 4000 mm
HEIGHT WORKPIECE)



OTHER VERTICAL MACHINERIES



HORIZONTAL MACHINERIES up to 20000 mm axis-stroke



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INDUCTION HEATING TECHNOLOGIES

SPECIAL COMBINED MACHINERIES

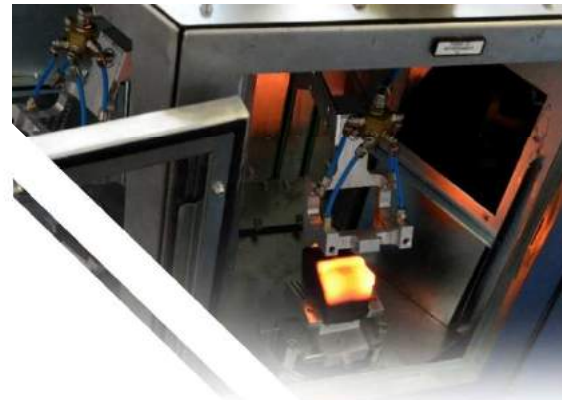
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INDUCTION HEATING TECHNOLOGIES



Rotary tables



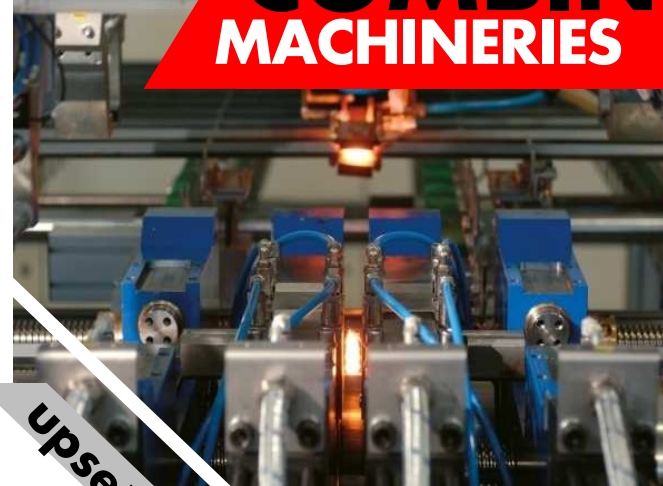
**Heat treatment
solutions under
gas protection**



Customized solutions

SPECIAL COMBINED MACHINERIES

brazing



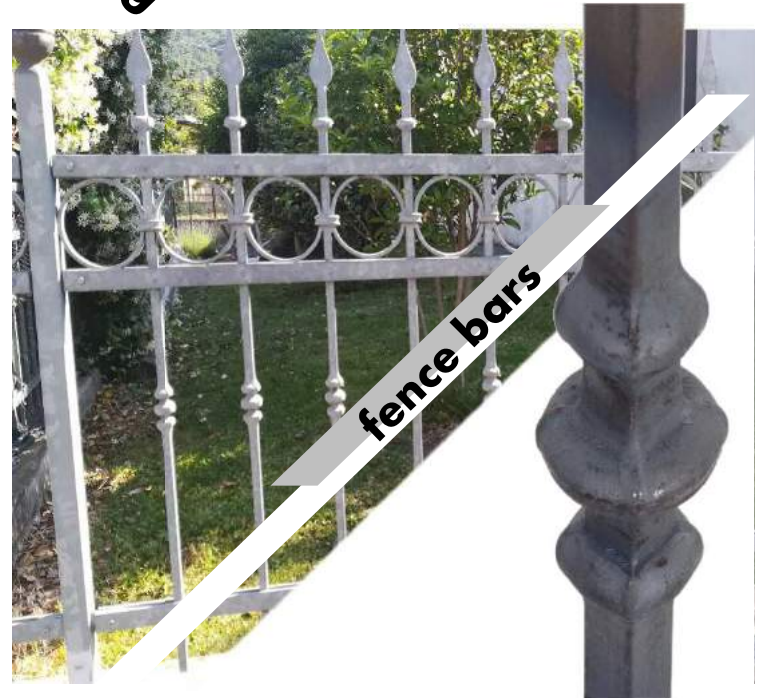
upsetting



Aluminium and
steel pot bottoms



fence bars



**SPECIAL
COMBINED
MACHINERIES and
PROCESSES**

heating for forging

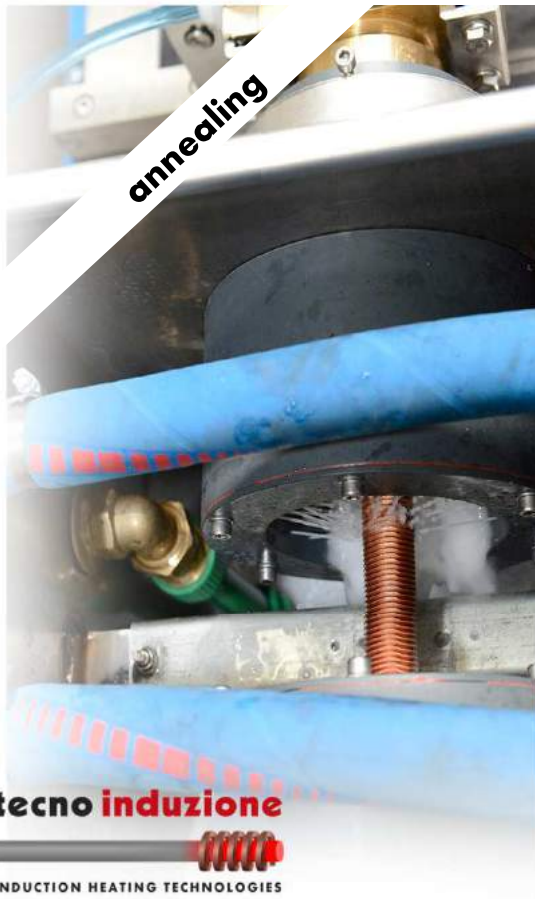


coating

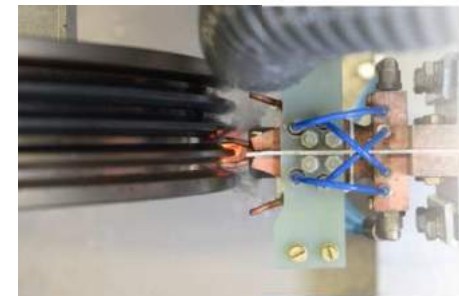
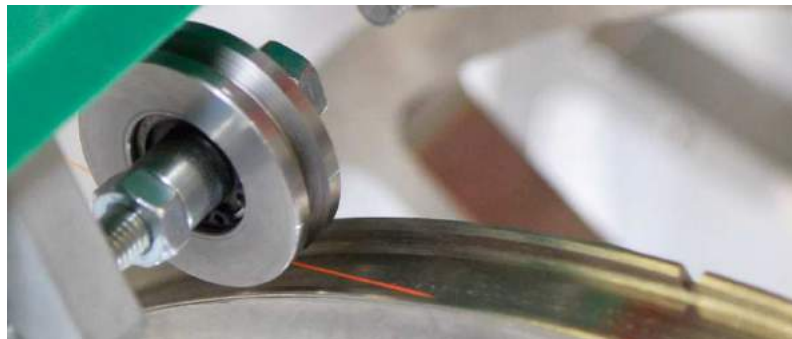


Tilting inductor

annealing



wire resistive annealing



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INDUCTION HEATING TECHNOLOGIES

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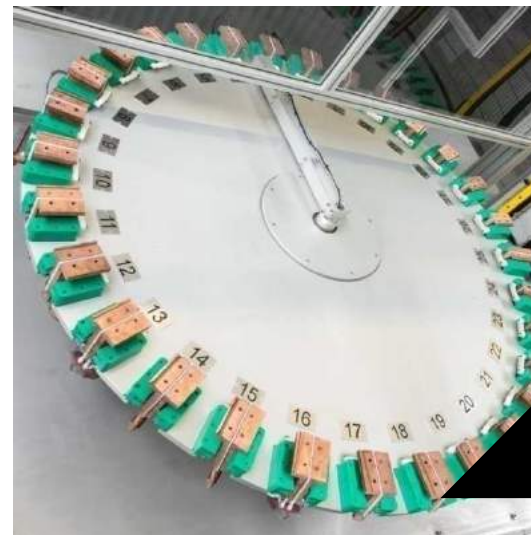
INDUCTION HEATING TECHNOLOGIES

MODULAR MULTI- STATION

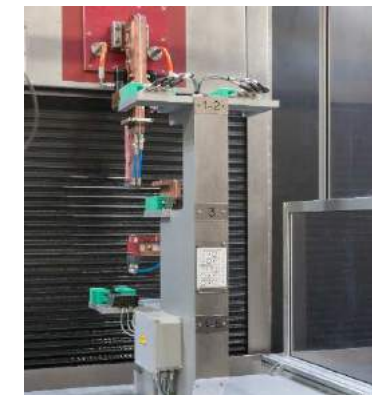
INDUCTION- HEAT TREATMENT CENTERS



**1200x600 mm working-table
modular elements**



**automatic-change
inductor magazine**



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INDUCTION HEATING TECHNOLOGIES

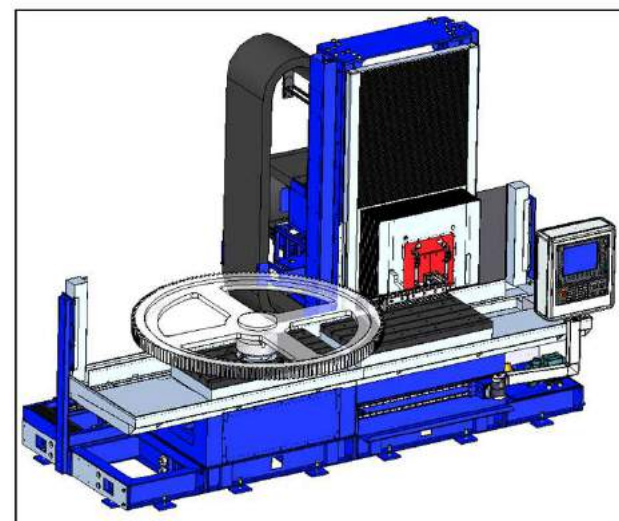
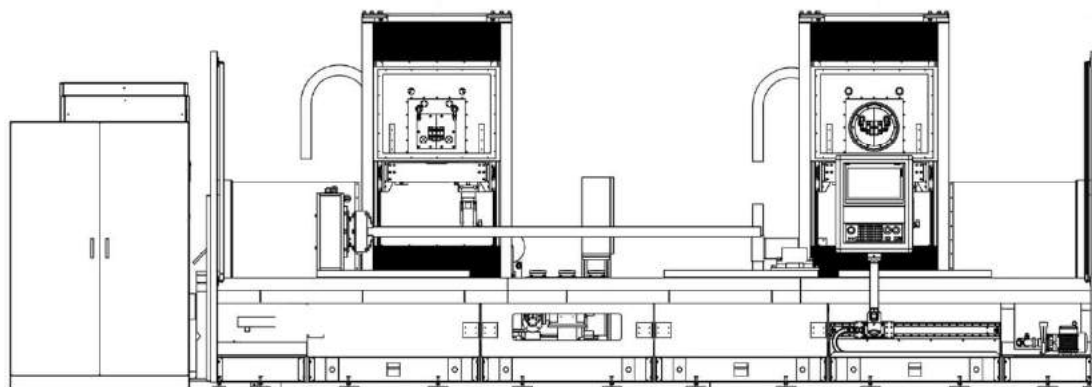


UNIVERSAL HARDENING MULTI- PURPOSE EQUIPMENT

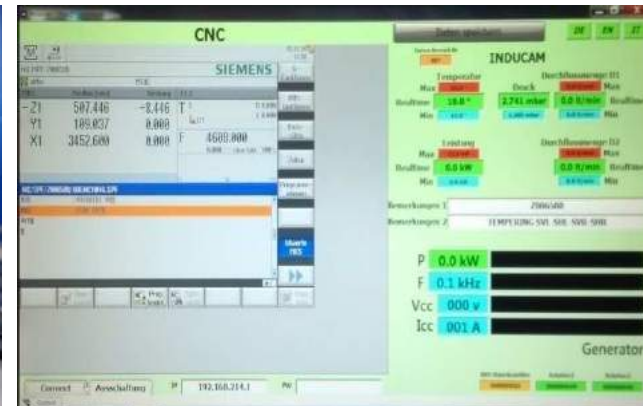
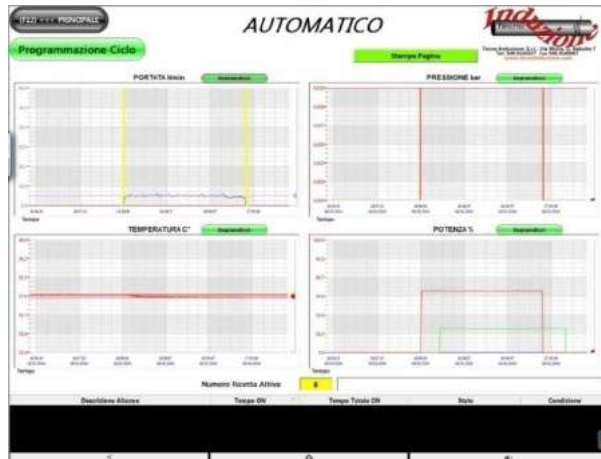
- Modular basement, horizontal sliding column/s
- Highest flexibility through multi CNC interpolated axis

LARGE CHOICE OF APPLICABLE ACCESSORIES

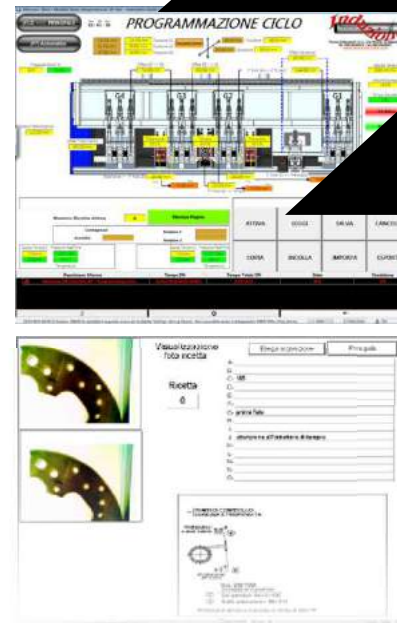
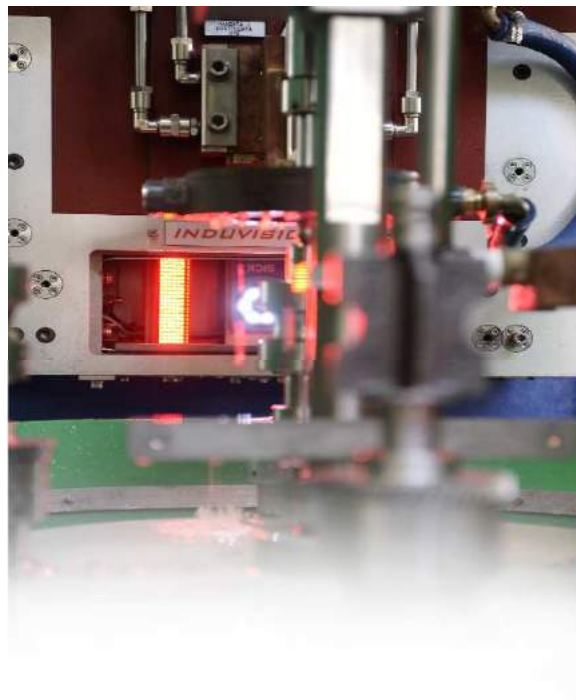
**INCREASED WORKING CAPACITY
ON Ø up TO 2000 mm**



THERMAL PROCESS CONTROL SOFTWARE



INDUCAM control and data storage of heat-treatment parameters



INDUVISION artificial vision system

- provides workpiece position control
- avoids any double treatment



TPM 
Total Productive
Maintenance
software available

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INDUCTION HEATING TECHNOLOGIES



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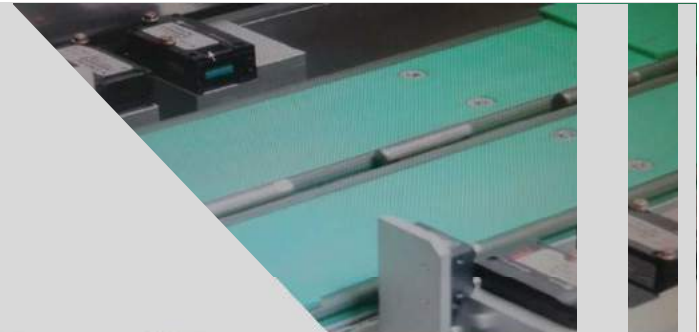
INDUCTION HEATING TECHNOLOGIES

CRACK, STRUCTURE AND PIECE-LENGTH CONTROL UNITS

- Designed to be connected to the heat treatment machine equipped with automatic loading/unloading on rotary table or linear layout.

- Stand alone machine upon customer's request.

- Special control machines



When

we choose induction heating, it means our investment is focusing exactly on the workpiece's surface we are called to improve.

Energy saving

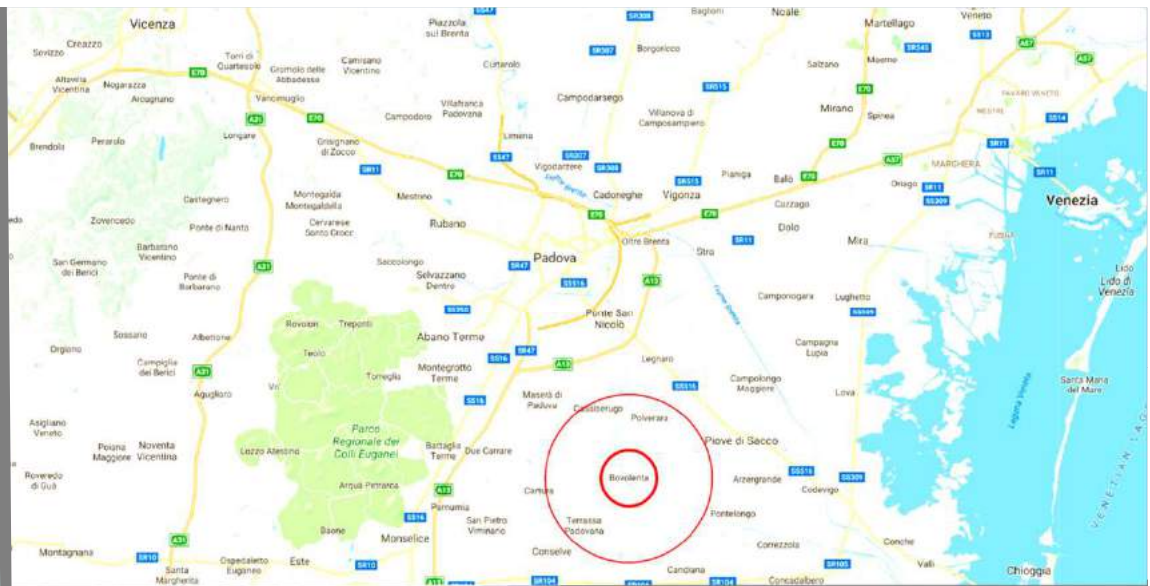
is also one of the issues a heat-treater is taking care of.

Induction heating

is experiencing a growth in the heat-treatment market, it saves time and money, it complies to the new generation's cultural sensitivity, by ensuring clean and free harmful gas-emission workplaces to preserve environment's



We didn't inherit the Earth by our fathers but we borrowed it from our children!



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