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INDUCTION HEATING TECHNOLOGIES

Company Profile



Induction heating technologies

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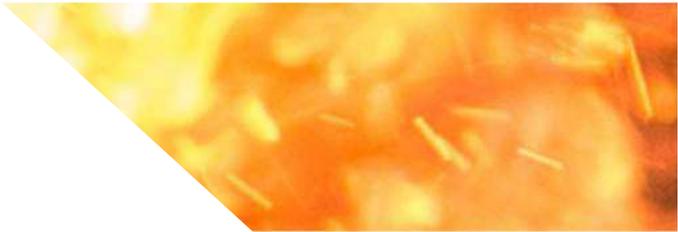
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DESIGN & MANUFACTURING

- 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

CEO
direzione@

Tiziano Rizzato

President
presidenza@

Claudio Donolato

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Giampaolo Sbalchiero

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salesexport@

Emanuele Salmistraro

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Simona Rando

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acquisti@

Alessio Zampieri

Purchaser / procurist
ufficiotec1@

Chiara Bonello

Secretariat
segreteria@

Carmen Florida

Administration
contabilita@



OUR AND WORKSHOP OFFICES



OUR AND LABORATORY TEST MACHINERY



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INDUCTION HEATING TECHNOLOGIES



WHAT IS INDUCTION HEATING?

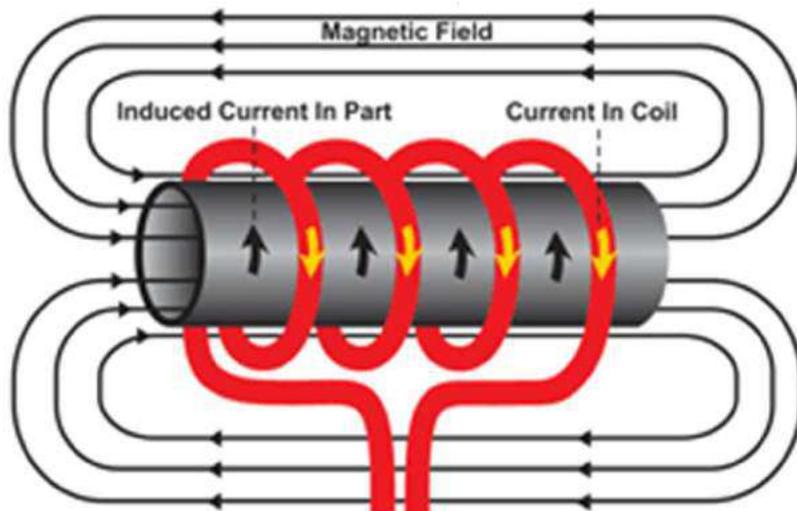
Induction heating involves passing a **high-frequency** alternating current through a **coil** to induce rapid heating of the component **surface** situated appropriately **within** its **electro-magnetic field**

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INDUCTION HEATING TECHNOLOGIES



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



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

INDUCTION HEATING
MACHINERIES
AND 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

Special-
combined
machineries

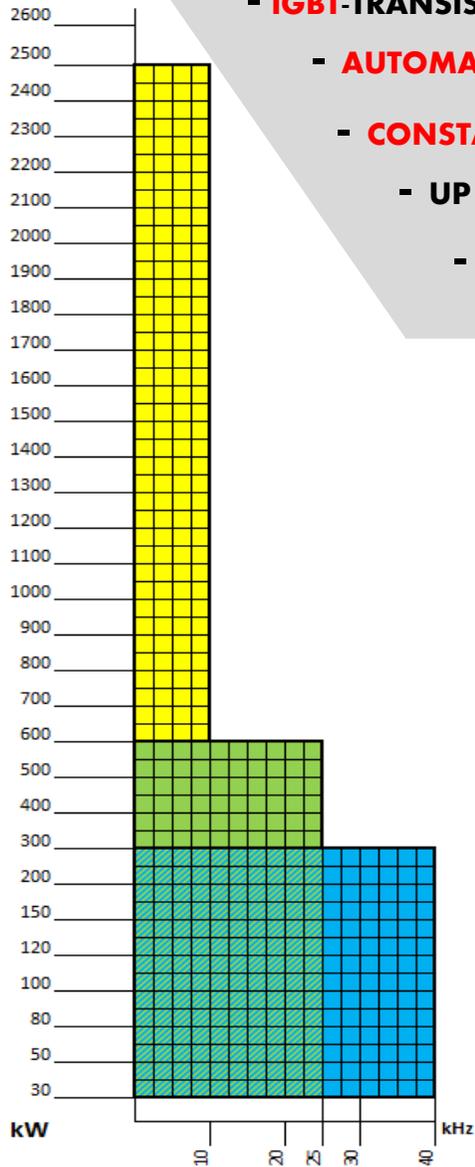
Crack and
microstructure
control units

Spare parts and
retrofitting

MF GENERATORS



- **IGBT-TRANSISTOR INVERTER TECHNOLOGY**
- **AUTOMATIC FREQUENCY SWITCHING**
- **CONSTANT POWER RELEASE EVEN ABOVE THE CURIE'S POINT**
- **UP TO 40 kHz AVAILAIBLE 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



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INDUCTION HEATING TECHNOLOGIES

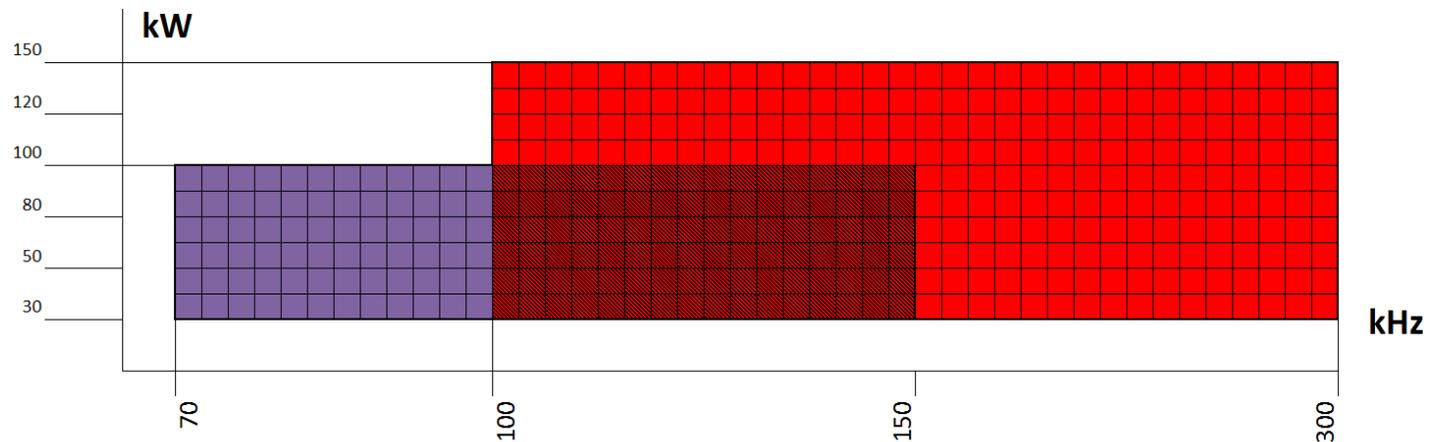
HF GENERATORS



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



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



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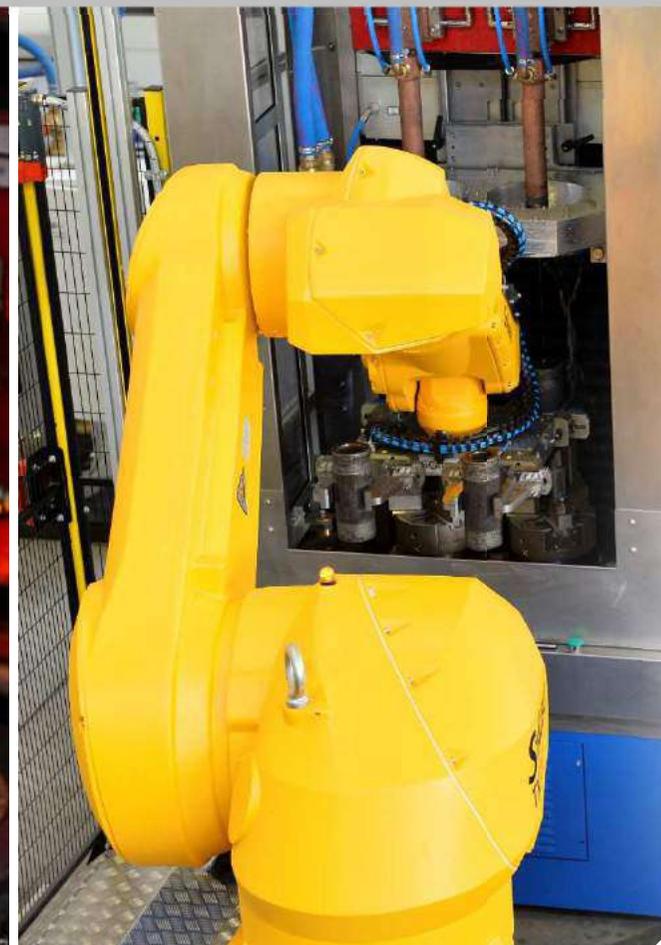


INDUCTION HEATING TECHNOLOGIES

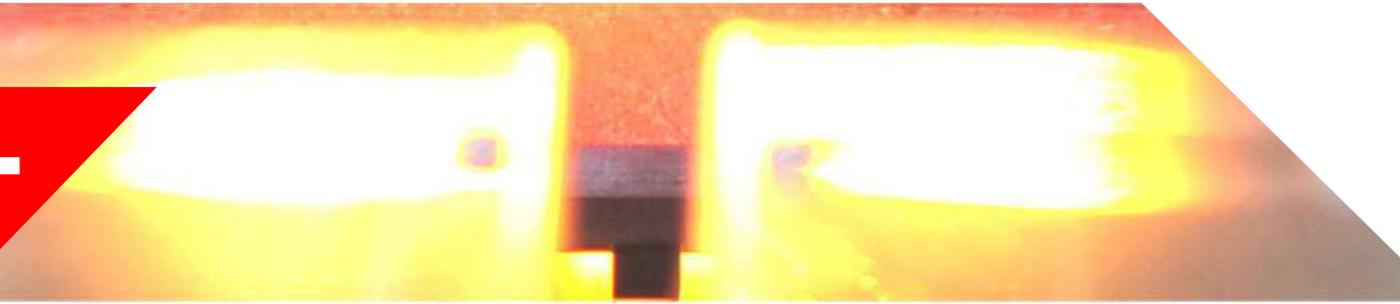
TIPOLOGY OF INDUCTION HEAT TREATMENT MACHINERIES



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



OTHER VERTICAL MACHINERIES

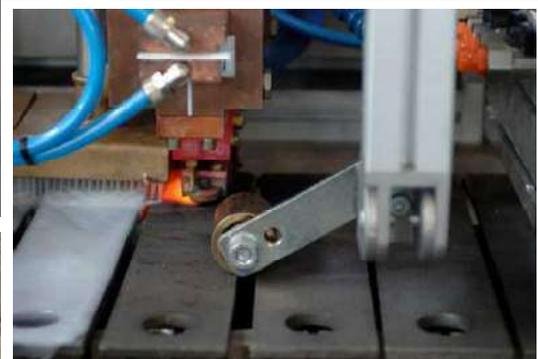
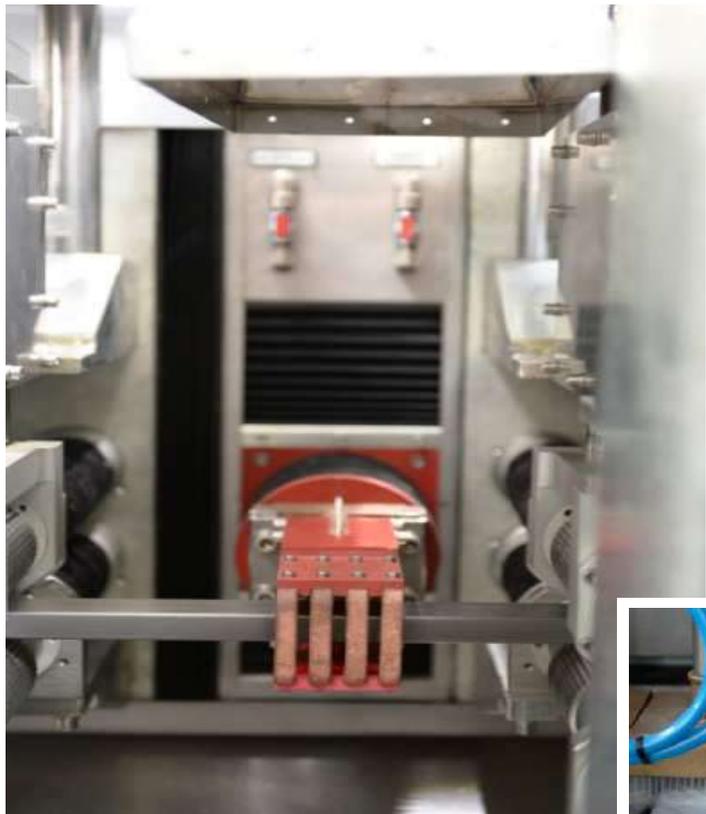


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INDUCTION HEATING TECHNOLOGIES

HORIZONTAL MACHINERIES up to 2000 mm axis-stroke



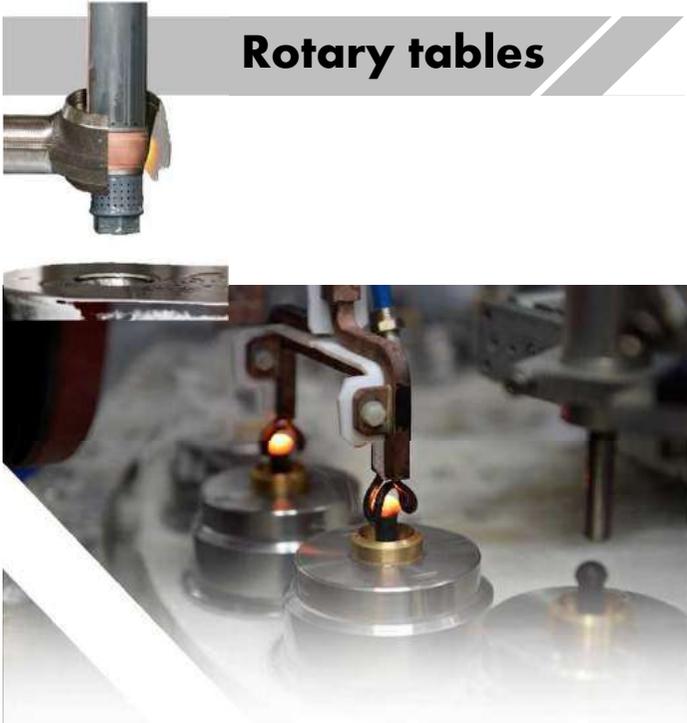
SPECIAL COMBINED MACHINERIES



Rotary tables



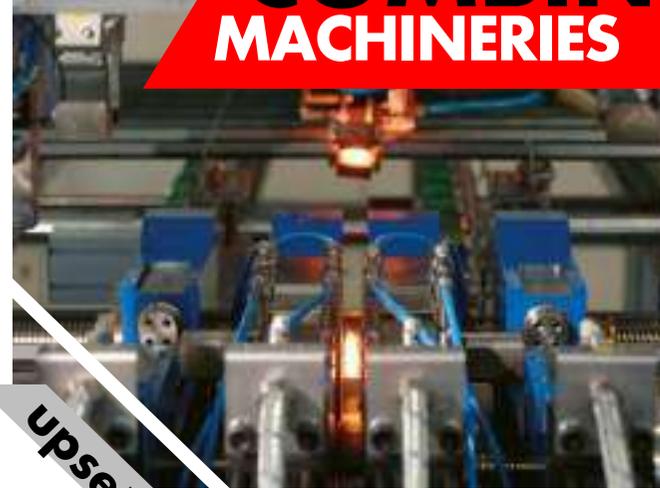
**Heat treatment
solutions under
gas protection**



Customized solutions

SPECIAL COMBINED MACHINERIES

brazing



upsetting



Aluminium and
steel pot bottoms



fence bars



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INDUCTION HEATING TECHNOLOGIES

**SPECIAL
COMBINED
MACHINERIES and
PROCESSES**

heating for forging

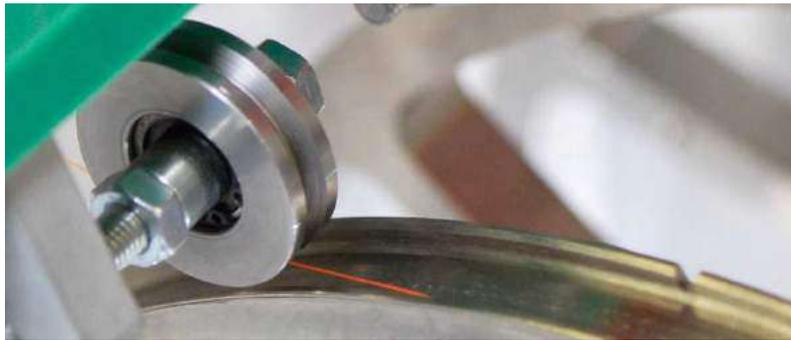
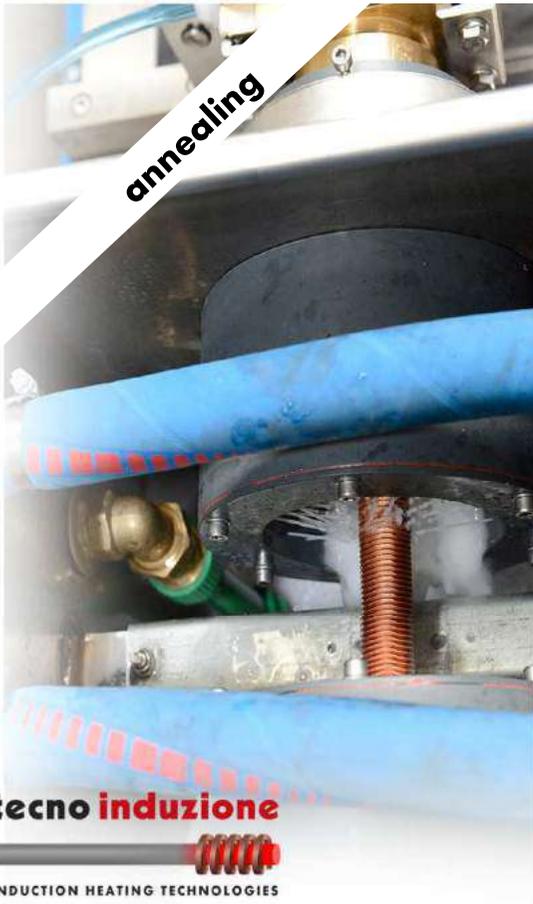


coating

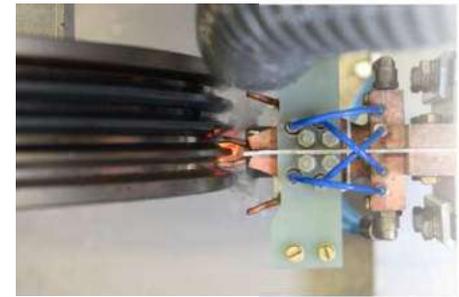


Tilting inductor

annealing



wire resistive annealing



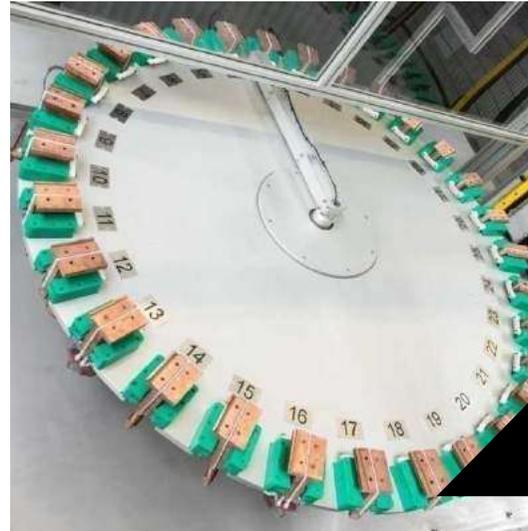


MODULAR MULTI- STATION

INDUCTION-
HEAT
TREATMENT
CENTERS



1200x600 mm working-table
modular elements



automatic-change
inductor magazine

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INDUCTION HEATING TECHNOLOGIES

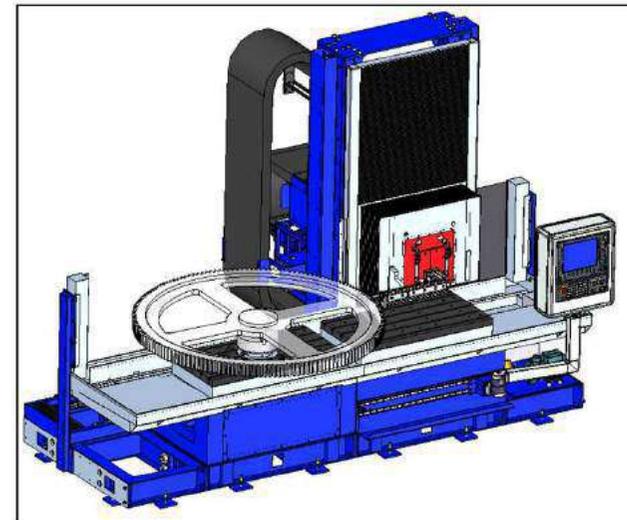
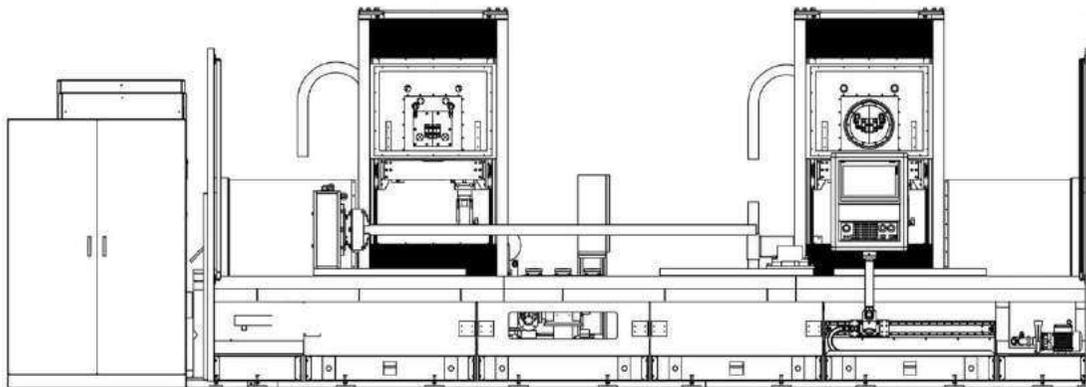


**UNIVERSAL
HARDENING MULTI-
PURPOSE
EQUIPMENT**

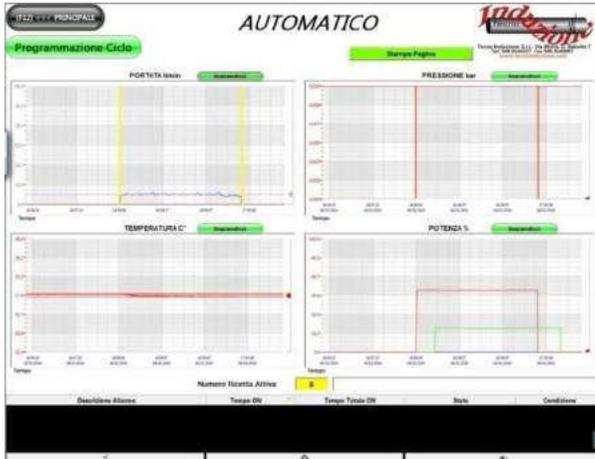
- Modular basement, horizontal sliding column/s
- Highest flexibility through multi CNC interpolated axis

LARGE CHOICE OF APPLICABLE ACCESSORIES

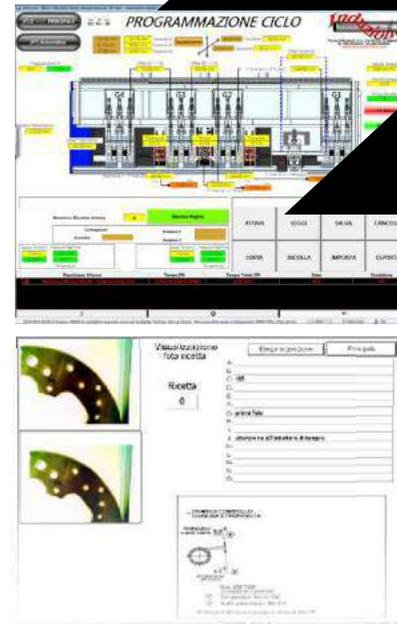
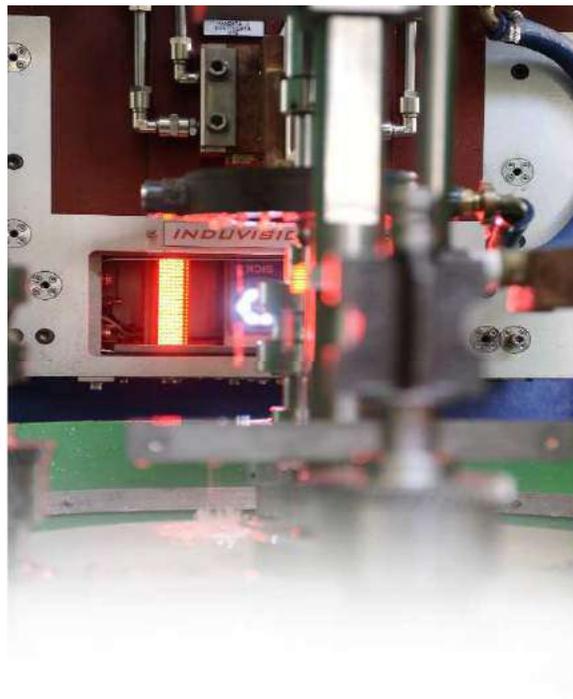
**INCREASED WORKING CAPACITY
ON Ø up TO 2000 mm**



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



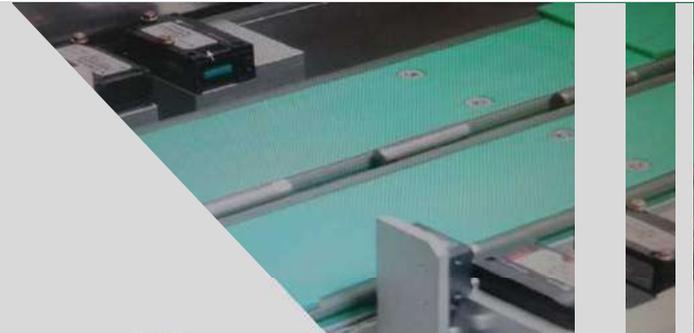
CRACK, STRUCTURE AND PIECE-LENGTH CONTROL UNITS



- 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





TECNO INDUZIONE SRL
INDUCTION HEATING TECHNOLOGIES

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