

CAMPANA

M A D E I N I T A L Y

Over 30 years of experience
In industrial furnaces





ABOUT US

An important part of CAMPANA FORNI staff technical heritage – still kept in the company archives – comes from the eminent Eng. Italo Montevocchi, the one that made the history of heat treatment and controlled atmosphere in the international industrial scenario of the last 40 years.

KNOW-HOW

CAMPANA FORNI collects the experience and the know-how of the staff, that has been operating in this field for 30 years.

It gives turnkey industrial solutions made up by furnaces, scoreboards, metallurgical consultancy and a global solution to production problems that deal with heat treatment.



EXPERIENCE AND PROFESSIONALISM

CAMPANA FORNI has been operating in this field for over 30 years, during which it refined its professional knowledge in order to offer to the client turnkey industrial solution, such as industrial furnaces, scoreboards, metallurgical consultancy and everything that contributes to the resolution of a production problem about heat treatments.

CAMPANA FORNI is today a well-structured company, able to approach the client with flexibility and dynamism, offering its professionalism to the client and operating with passion and competence.

Technology of metal heat treatments requires deep and professional knowledge of furnaces, atmospheres and production issues.

The plants are realized according to the European law of 03/30/2017, making available the incentives linked to the digitalization of the business, called Industry 4.0.

500

In Europe and all over the world more than 500 treatment machines are using CAMPANA FORNI technology.

WE LISTEN AND SATISFY YOUR REQUESTS

The only way to be truly satisfied is to do what you believe is great work

Steve Jobs



OUR SERVICES

DESIGN

Thanks to the **targeted advice** we are able to offer to the client a performing product that satisfies his needs, optimizing at its best the necessary resources.

BUILDING

The specialized workers team of Campana Forni, following what is developed by the **engineers**, realizes inside our headquarters various work every day.

ASSISTANCE

CAMPANA FORNI guarantees an **assistance service** within the 48 hours from the request (in Italy). We are able to perform restoration, modifying and improvement interventions, in order to satisfy the new production needs of the client.

MAINTENANCE

Throughout the year CAMPANA FORNI, thanks to its qualified staff, is able to perform ordinary and extraordinary maintenance on every kind of industrial furnace.

STRUCTURAL CARPENTRY

We are a well-structured company, both from the staff that from the technology point of view. The specialized technical staff operates following the guidelines of the quality **certification EN-1090 EXC3**.

INDUSTRIAL CARPENTRY

We are able to perform carpentry works for third parts machines. We realize and take care of the building of middle and big carpentry structures, using materials with **quality certifications**.



HEAT TREATMENT SYSTEMS

Until not so long ago, the realization of heat treatment systems required a deep knowledge of some engineering sector such as metallurgy, chemistry, mechanics and applied mechanics, materials science, thermodynamics and automation.

Today, these knowledges are fundamental, but they need to be integrated with further arguments in order to offer optimal solutions in terms of environment protection requirements, programming, production organization, flexibility, operative availability, cost-effective and products certification.



THE BEST SOLUTION

Today, more than in the past, it needs to be searched through the best use of the controls science and new technologies.

REALIZATIONS

We have been operating for more than 30 years on the following types of furnaces for the treatment of steel, stainless steel, aluminum and various alloys.



**AUSTENITIZING
AND CEMENTATION**



**NITRIDING
AND NITROCARBURIZING**



OXI-NITROCARBURIZING



**STAINLESS STEEL
SOLUBILISATION**



**ALUMINUM ALLOYS
SOLUBILISATION
AND AGING**



**COPPER-ALLOYS
PIPES ANNEALING**



**ANNEALING, DECARBURIZING
AND BLUING OF MAGNETIC
SHEET STEEL**



**REMIEDIATION, ANNEALING,
DISTENSION AND TEMPERING**



**PROTECTIVE ATMOSPHERES
AND FUEL GENERATION**



**MOVIMENTATION
AND ROUTING
OF CHARGES**



**TREATMENT OF FUMES
RESULT OF HEAT
TREATMENT PROCESSES**



**AUTOMATION AND CONTROL
OF HEAT TREATMENTS**



SOLUBILISATION SYSTEM WITH AUTOMATIC LOADING

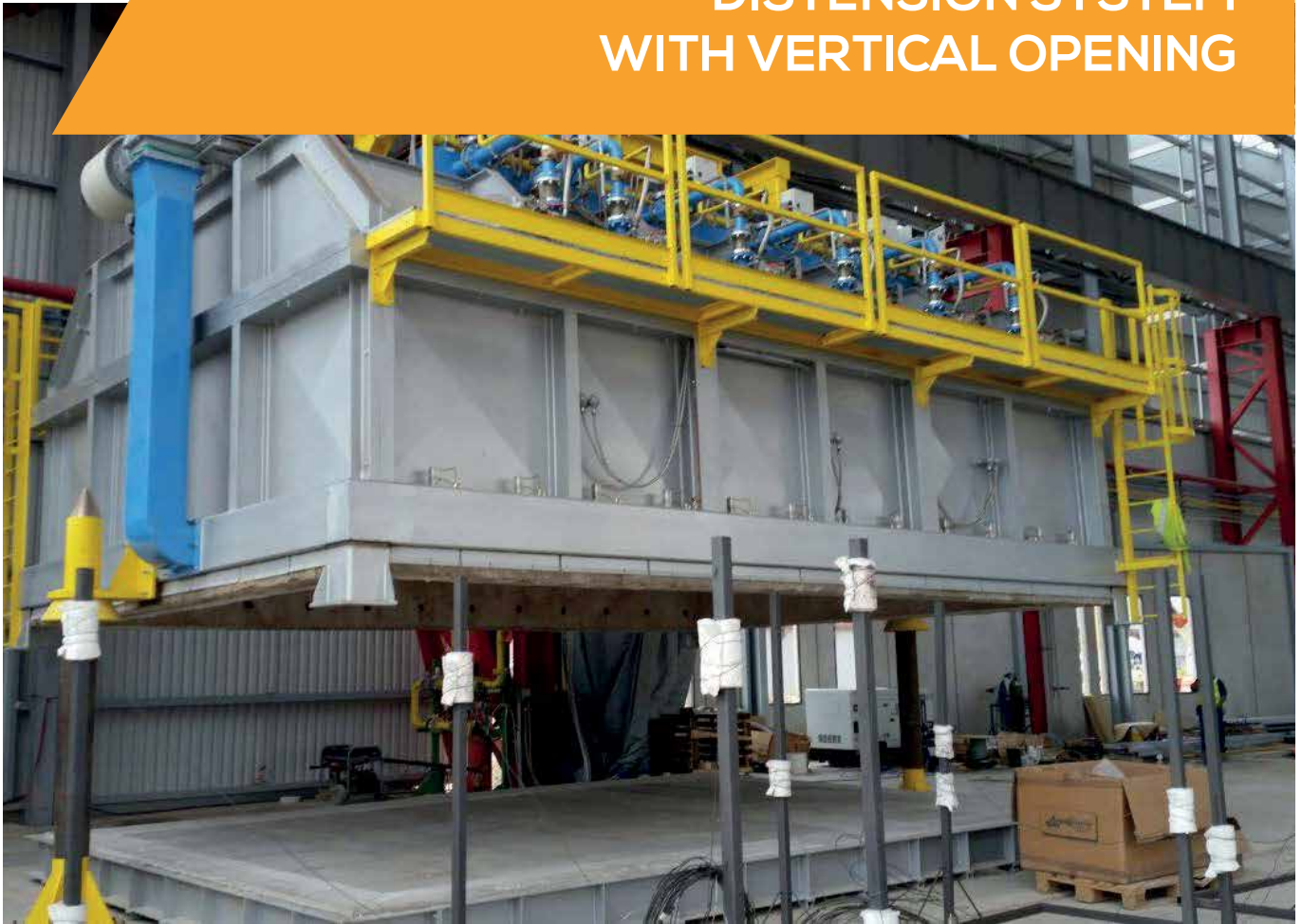


Stainless steel solubilisation heat treatment with heating through auto-recovering furnaces, with a maximum temperature of 1200°C and water quenching.

The system is modular and allows further furnaces expansion.

The automatic crane is an accessory that allows to automatically upload and download the machine.

DISTENSION SYSTEM WITH VERTICAL OPENING



Ingot distension system with vertical opening through crane, work temperature 700°C with auto-recovering furnaces and isolation in ceramic fiber.

OXIDIZED NITROCARBURIZING SYSTEM



Vertical pit furnace for nitriding, nitrocarburizing and pre and post-oxidation treatment. Equipped with post-combustor, gas switchboard with proportional valves, retransmission flow-meters. Electrical panel for furnace management and touch-panel 15" for system supervision.

AUTOMATIC LINE WITH TECHNOLOGY OF LOADS MOVEMENT WITHOUT DRAGGING



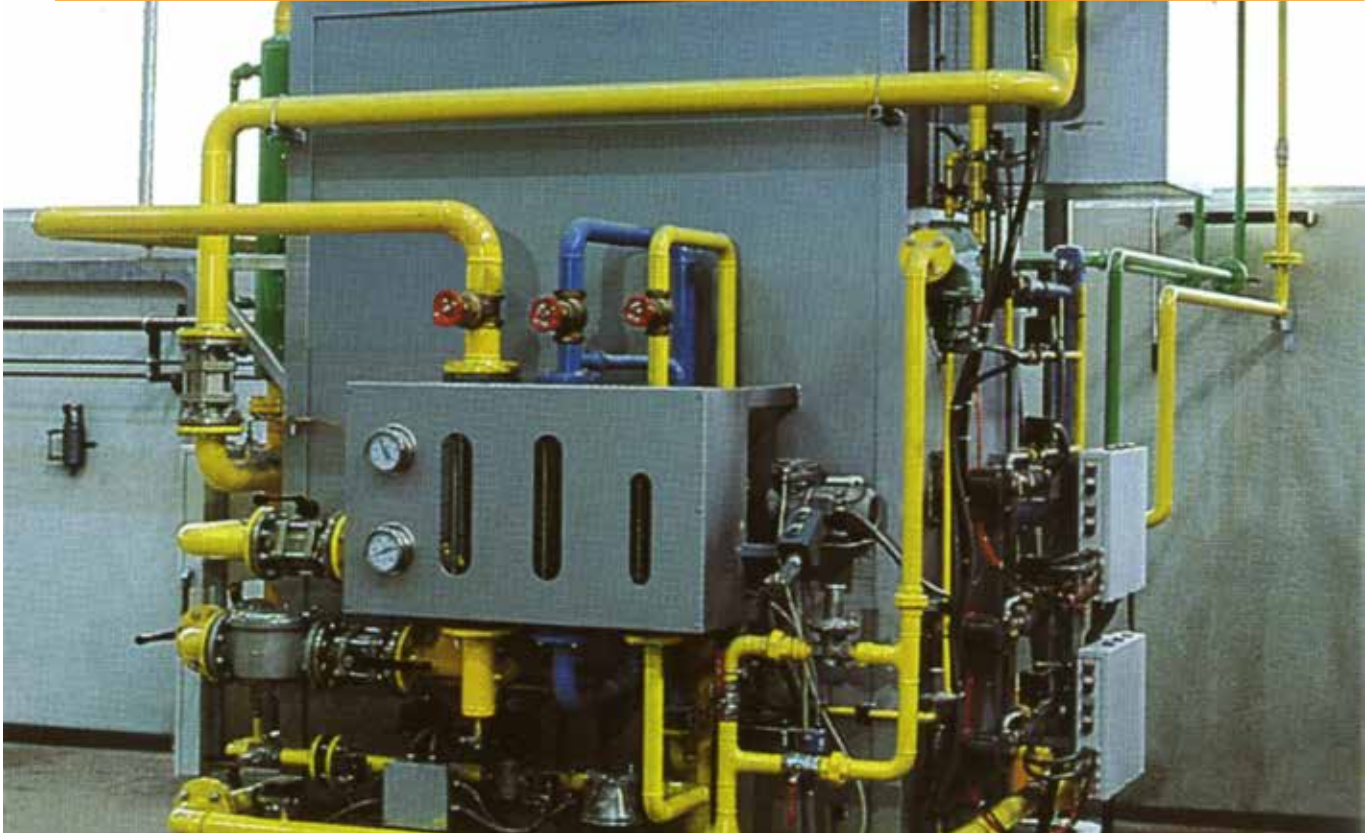
Automatic line for treatments of quenching and tempering (QT), solubilization and washing with automatic crane loader, equipped with 9 position warehouse.

PIT FURNACE FOR CEMENTATION HEAT TREATMENT



Pit furnace for cementation heat treatment with automatic lid opening and heating with methane-powered burners.

ENDOGAS GENERATOR



Endothermic generator 150 N/m³, equipped with an automatic system for auto-regulation of endogas production for more than one user.
Equipped with analysis system made with analyzers.

REFERENCES

CAMPANA FORNI takes care of all the phases necessary to realization of an industrial furnace, offering its experience and professionalism in order to satisfy the client needs.

DANIELI E C. OFFICINE MECCANICHE SPA

BREVINI (DANA)

HIDRIA ROTOMATIKA

PMC

METRA

SWK (USAG)

BETA UTENSILI

AGRATI

EURE INOX

EUROTRANCIATURA

DIENAMEX

TOWER ESTRUSIONS

OZ SPA

EUROBALL

MOLLIFICIO LEGNANESE

STAMPINOX

FAIL FONDERIA

ALFA OSSIDAZIONE

EUROSLOT

T.A.T.

AUDI SPORT

RIGANTI FONDERIA

CASATI FONDERIA

OFFICINE MORANDI

PROSINO

DESIGN

CAMPANA FORNI: experience and professionalism

Our designers, with well-known experience and professionalism, study and develop the project in their slightest details.

- **Analysis and definition** of the structural and mechanical elements, as long as the ones regarding automation and thermal/isolation calculation;
- Drafting of **quantities and costs** of the production;
- **Targeted consultancy**, aimed to offer to the client a performing product, able to satisfy his needs optimizing his resources;
- Assessment with the possibility to choose among the most **functional type of thermal treatment**.

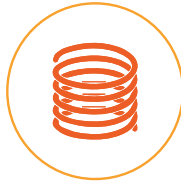


SYSTEMS BUILDING

Our specialized workers team, following what is developed by the engineers, realizes inside our headquarters:



stainless steel
and steel carpentry



mechanical work
on stainless steel and steel



electrical rooms, thermal
isolation of the furnace



pre-assembling in our
headquarter of mechanic,
electrical, oleo-dynamic
and pneumatic processes



according to necessity
and availability, pre-testing



function test – before
the transport on-site,
and following assembly



final test, user manual release
and certification
of current conformity



training course for
the staff that will work
on the system



12 months guarantee



CAMPANA FORNI
over 30 years
of experience
In industrial
furnaces



MAINTENANCE

Throughout the year **CAMPANA FORNI**, thanks to its qualified staff, is able to perform ordinary and extraordinary maintenance on every kind of industrial furnace:

- electrical/IT components
- mechanical components
- carpentry
- isolation

REVAMPING

The evolution of the technologies or simply the need of renewal of the system may require the redesign of some components.

In this case, **CAMPANA FORNI** intervenes with its know-how and recommends solution for the technologic and normative adjustments.



ASSISTANCE

The assistance service is **guaranteed within the 48 hours** from the request in Italy. We are able to perform reinstatement and improvement interventions, or simply to satisfy the new production needs of the client.

For systems under warranty supplied by **CAMPANA FORNI**, the assistance covers all the components of the system not subjected to wear. The service also includes:

- Methane burners calibration with a special tool and release of the calibration certificate;
- Mapping of the furnace with a special tool and

release of the mapping certificate.

Furthermore, the machines are equipped with the control systems **OCTOPUS serie 4000** with Ethernet connection, that allows the complete management of the machine from Campana headquarter (lifetime free service).

With this procedure the assistance interventions for specific problems or software interventions can be realized by remote in a really brief amount of time. There are also available "full package" assistance agreements, with response time within 24 hours from the call.

CAMPANA

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