CAMPANA

MADE IN ITALY

Over 30 years of experience
In industrial furnaces
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.

ABOUT US

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

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.

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.

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
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.

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

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

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.

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**.

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
- Remediation, 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.
Ingot distension system with vertical opening through crane, work temperature 700°C with auto-recovering furnaces and isolation in ceramic fiber.
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 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.
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 necessaries 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
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**.
Our specialized workers team, following what is developed by the engineers, realizes inside our headquarters:

- Pre-assembling in our headquarter of mechanic, electrical, oleo-dynamic and pneumatic processes.
- Stainless steel and steel carpentry.
- Mechanical work on stainless steel and steel.
- Electrical rooms, thermal isolation of the furnace.
- 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.
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.
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 CAMPAÑA FORNI, the assistance covers all the components of the system not subjected to ware. 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.