



ECM
TECHNOLOGIES

MANUFACTURER OF INDUSTRIAL FURNACES

TOGETHER,
WE MAKE THE DIFFERENCE

ICBP® ■

SPECIAL FURNACES ■

VACUUM FURNACES ■

MELTING FURNACES AND INDUCTION ■

SERVICES ■





ECM PRESENTATION

We started heat-treating furnaces in 1928. Since that time, ECM Technologies' personnel have always been totally committed to extending their knowledge in the field of temperature control, high pressure, vacuum and to the behavior of materials.

AN INTERNATIONAL COMPANY ON A HUMAN SCALE

“ The strength of any company is its people ”

Engineering, manufacturing for vacuum and pressure vessels along with, piping, heat insulating, experienced manufacturing, test facilities and a metallurgy laboratory are just some of ECM Technologies' in-house technical resources.

INNOVATION, OUR DRIVING FORCE

Whenever ECM Technologies proposes a technical upgrade, the driving force behind this change are the benefits it brings to our customers.

“ Low Pressure Carburizing, high pressure gas quenching for high volume production... We are there to make our customers' heat treating improve... ”



OUR VALUES

01 Innovation:

to give more value to heat treating.

02 Quality:

we owe it to each of our customers.

03 Customers satisfaction:

this is the first indicator of our performance.

04 Solidarity:

this is the cement which unites our teams worldwide.

05 Proximity:

to be close to our customers, wherever they are.

PRODUCTS AND SERVICES

Since we aim at being the best at what we do, the working environment in our company is part of our driving force, together with our concern for the quality of our products and services. This makes ECM Technologies different.



ICBP®

For more than 25 years, ECM has provided heat treating solutions to the largest companies with its low-pressure carburizing process: Infracarb® and its concept of modular installations of the ICBP Model.

Thanks to the high-temperature low pressure carbonitriding process and to the expansion of its ICBP® range - allowing to meet all types of needs - ECM Technologies strengthens its position as a world leader in this field.

- ICBP® Flex: modular installation for an incomparable flexibility
- ICBP® Jumbo: flexible heat treating facility with large work loads
- ICBP® Duo: furnace with 2 chambers for intermediate production needs
- ICBP® Nano: modular installation for in line high frequency production

PRODUCTS AND SERVICES



SPECIAL FURNACES

ECM Technologies has recognized skills regarding the engineering and manufacturing of thermal solutions for R&D laboratories as well as production plants dedicated to complex and highly normative industries.

ECM Technologies is able to insure the engineering and the total implementation of « Turnkey » lines necessitating heat processes in complex environments such as the nuclear industry.

Within this industry, key markets are the conditioning and management of nuclear wastes issued from the dismantlement of nuclear plants, but also to the furnaces implied into the different steps of the combustible's manufacturing process.



PRODUCTS AND SERVICES



VACUUM FURNACES

In 1964, ECM Technologies produced its first vacuum furnace.

Since then, our company has acquired an unique expertise which allows us to adapt to the specifications of many markets (aerospace, medical, ceramics, electronics, etc.) for applications of heat treating, brazing, sintering, as well as for thermal treatments post additive manufacturing.



PRODUCTS AND SERVICES



MELTING FURNACES AND INDUCTION

Melting furnaces allow the elaboration and fusion of value added materials or the improvement of the materials' physical properties under vacuum or within controlled atmospheres.

In addition to this, our furnaces allow users to realize a fast annealing process thanks to heating dynamics. We are offering technologies such as cold crucible (cooled copper or stainless steel), hot crucible (graphite or others), and the use of susceptors or muffle radiating on the heated materials.

Our furnaces are designed to be convenient and flexible. In other words, they are conceived to facilitate the development of new materials, or to integrate various technical specifications issued from R&D programs.



PRODUCTS AND SERVICES



SERVICES

ECM Technologies is engaged in a program of constant improvement of the service brought to our customers.

"We are close to our customers' production, with the objective to bring them prompt service, 24/7."

- Training
- Preventive maintenance
- Sale of spare parts
- Retrofits of competitive equipment
- Remote maintenance
- Metallurgical testing





ECM REFERENCES

NON EXHAUSTIVE LIST

AERONAUTIC

Air France
Airbus Industries
ASB (Aérospatial Batteries Bourges)
AVIC China
Chromalloy/Malichaud Atlantique
Dassault
Eurocopter
Factory 300, Factory 621, Factory 550 (China)
Groupe Safran
Luoyang LYC bearings (China)
Liebherr Aerospace
MECAFI
Nanchang Aircraft (China)
Shenyang Aircraft (China)
SKF Aeroengine (USA)
Turbomeca

AUTOMOTIVE - VEHICLES

Caterpillar
Daimler
Fiat
Fiat India Automobile Ltd (India)
Ford
General Motors (Germany, Turkey, France, Romania, Mexico, Australia, Hungary...)
Hyundai
Nissan group
Opel
Peugeot Citroën PSA
Renault
Saab
Tata Ltd (India)
Toyota
Volkswagen (Germany, Argentina)
Jactco

EQUIPMENT SUPPLIERS, MECHANICS

Asimco (China)
Avtec (India)
Bosch (Vietnam, Netherlands, Switzerland, Brazil, Czech republic, Italy, Germany)

Delphi (India, Spain, Romania)
Eaton (Poland, Brazil)
Getrag (Italia, USA, Germany...)
GKN (USA, Sweden, China)
Liaoning Xingfeng Enterprise (China)
Linamar Corporation (USA)
Luk (Germany)
Mahindra & Mahindra (India)
Poclain Hydraulics
Robert Bosch (Italy, Germany, Switzerland...)
SEW Usocome (China, France)
Shanghai Automobile Gear Works (China)
Valeo (France, Turkey, Brazil...)

HEAT TREATMENT WORKSHOP

Aubert et Duval
Bodycote (France, USA, Czech Republic, Poland, Mexico...)
Brocard (Switzerland)
DHT (Korea)
Electrothermique
HEF
MTV (USA)
Nitrex (USA)
PNK (Japan)
Reese Härterei (Germany)
SHU (Germany)
Studer (Switzerland)
Tempra Vuoto Piemonte (Italia)
Thermicentre
Thermilyon
TTN (Italy)
Waltercheild (Germany)

IRON AND STEEL INDUSTRY, STEEL-WORKS

Ascometal
Pechiney
Sulzer
Ugine
Vallourec

ARSENALS

Arsenals in Taiwan, Egypt, India, Saudi Arabia, Singapore, Turkey, USA, Venezuela
Giat Industries

MATERIALS

ABB
Alstom
Carbone Industries, SGL Carbon
Carbone Lorraine
CNRS
Cetim
Delachaux
Egide
Freiberger Compound Materials
Friedrichsfeld
General Electric Medical system
Höganäs
IRT
Istec
MetaFensch
Philips
Sagem
Sandvic
Schneider
Siemens-KWU
Thomson/Thalès
UTBM

NUCLEAR

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Areva
Andra
Atomenergomash



ECM IMPLANTATIONS



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