

**ECM**  
TECHNOLOGIES

# Manufacturer OF INDUSTRIAL FURNACES

**TOGETHER,**  
we make the DIFFERENCE



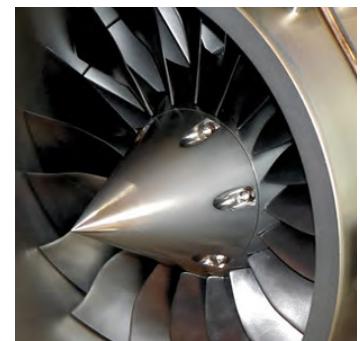
ICBP® ■

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 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 to be 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 process of carburizing with Infracarb® and its concept of modular installations of the ICBP Model.

In addition, the process of low pressure carbonitriding at high-temperatures, and by expanding its range of ICBP®'s to answer all types of needs, ECM Technologies strengthens its position as the 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

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## 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 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

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## 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 FURNACE 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.

Our furnaces are designed to be convenient and flexibles. 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

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## 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

not exhaustive list

## AEROSPACE

Aerospatiale  
Air France  
Airbus Industries  
AVIC China  
Dassault  
Eurocopter  
Factory 300, Factory 621(China)  
Groupe Safran  
Luoyang LYC bearings (China)  
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)  
Jactoo

## EQUIPMENT SUPPLIERS, MECHANICS

Asimco (China)  
Avtec (India)  
Bosch  
Delphi (India, Spain, Romania)  
Eaton (Poland, Brazil)

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

## COMMERCIAL HEAT TREATING COMPANIES

Aubert et Duval  
Bodycote (France, USA, Czech Republic, Poland, Mexico...)  
Brocard (Switzerland)  
DHT (Korea)  
Electrothermique  
HEF  
MTV (USA)  
Nitrex  
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  
Istec  
Philips  
Sagem  
Sandvic  
Schneider  
Siemens-KWU  
Thomson/Thalès

## NUCLEAR

CEA  
Areva  
Andra  
Atomenergomash

# ECM IMPLantations

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- Headquarters and subsidiaries
- ▼ Sales representative and after-sales services
- Joint Venture