

TURQUOISE

VACUUM
HORIZONTAL
FURNACE



The ECM Technologies' Turquoise furnace is a horizontal vacuum furnace from the ECM Lab Solutions range that is specifically designed to heat treat alloys prone to oxidation. This system is particularly adapted to a clean environment integration, thanks to its molybdenum hot zone and its fully metallic insulation. Both of the aforementioned characteristics ensure clean treatments without any risk of pollution. The Turquoise resistor's design ensures perfect homogeneity, but the main asset lies in the easy loading system. The design of this furnace allows for external loading, with a load directly conveyed by the door of the furnace. The horizontal design simplifies the manipulation of parts during the loading and unloading phases, which makes it convenient for laboratory, university, and R&D centers.



EFFECTIVE DIMENSIONS

400 X 400 X 400 MM
(L* W * H)
or 500 X 250 X 250 MM
(L* W * H)

- Additive manufacturing
- Aeronautic
- Automobile
- Medical

AN ECM GROUP OFFER

ECM Lab Solutions helps laboratories to develop innovative products and processes by offering advanced furnace technologies under one ECM Group brand. This offer gathers all laboratory furnaces from the ECM Group. Its expertise includes the heat treatment of steels, ceramics and silicon. As well as crystal growth applications, coatings and melting processes for a wide range of research fields.



FEATURES

Thermal

Molybdenum

Gaz

Nitrogen, Argon, Hydrogen, ...

Atmosphere management

Mass flow, Pressure regulation

Cooling

– Forced convection Quenching: < 1.45 bar

– Speed variation

Supervision

Process piloting: Production tracking, Process data backup

Ergonomics

Loading platform, Handling tool, robotics

Technology

Pressure control

Fast & controlled cooling

Metallic Thermal

OPTIONS

- Standards AMS 2750, ATEX
- Primary vacuum, Dry pump, Roots pump
- Secondary vacuum configuration , Diffusion pump, Turbo pump, Cryogenic pump
- Accelerated neutral gas cooling
- Gas humidification system
- Temperature up to 2800°C
- Hyper quench
- Use of special gaz : Hydrogen and other reactive gas / Partial pressure of neutral gas or reductive gas

APPLICATIONS

Annealing

Brazing & Sintering

Post Magnetic annealing

Glass-to-metal sealing

MATERIAL

Titanium

Steel

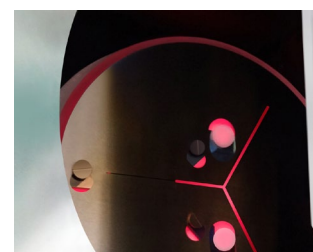
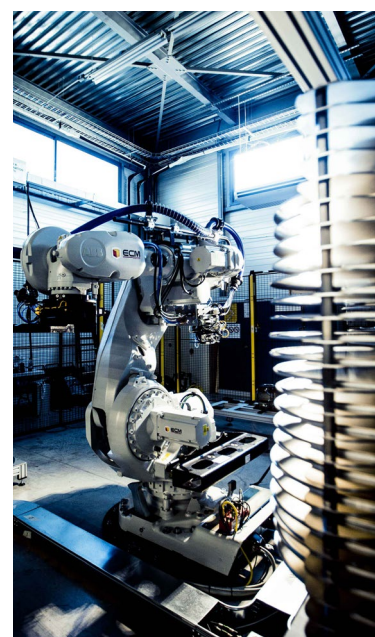
Ceramics

Iron



INTEGRATION

Possibility of Robotization



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