VACUUM FURNACES : LILLIPUT


Diamant


Turquoise


Cristal


Vesuve

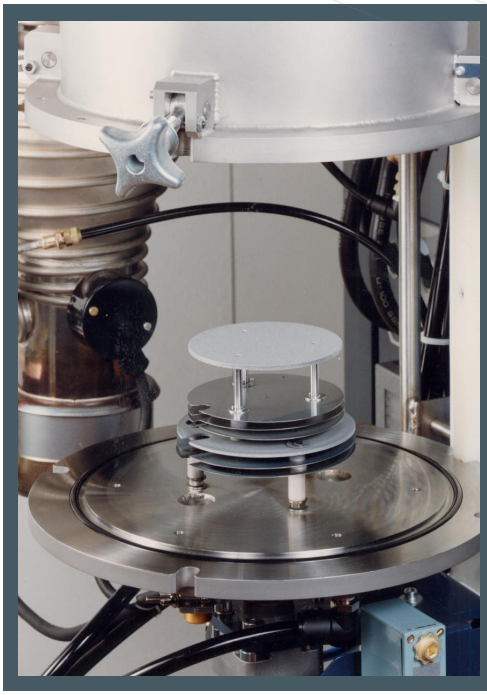
EXPERTISE IN VACUUM APPLICATIONS FOR ALL TREATMENTS

Since 1964, ECM Technologies has been on the leading edge of vacuum furnace manufacturing. Today, there are over 1500 vacuum furnaces operating across the world, delivering high quality results in a broad range of applications. ECM Technologies crafts its own molybdenum resistors to ensure an optimal radiating surface and unrivalled control, thereby guaranteeing the effectiveness of the heating performance.

POSSIBLE APPLICATIONS

Numerous applications can be performed with these furnaces:

- Annealing
- Magnetic annealing
- Degassing
- Sintering
- Glass to metal sealing
- Metal ceramic brazing
- Brazing under vacuum



COMPACT VACUUM FURNACES

- Lilliput furnaces take over the same characteristics than other vacuum furnaces from ECM Technologies.
- They allow high adding value applications while being very compact.
- These furnaces are particularly adapted to the needs of laboratories, universities and R&D centers.

AVAILABLE FUNCTIONS

Thermal
- Molybdenum
- Graphite
- Tungsten

Vacuum
- Primary
  - Vane pump
  - Dry pump
  - Roots pump
- Secondary
  - Diffusion pump
  - Turbo pump
  - Cryogenic pump

Gas
- Nitrogen
- Argon
- Hydrogen

Atmosphere management
- Rotameter
- Mass flow
- Pressure regulation
- Humidity
- Dryer
- Purifier

Standards
- AMS 2750
- AMSH 81200
- AMS 28013
- ATEX

Cooling
- Forced convection
- Quenching
  - < 1.45 bar
  - 5 bar
  - 10 bar
- Speed variation

Supervision
- Process piloting
  - Production tracking
  - Process data backup

Ergonomics
- Loading platform
- Handling tool

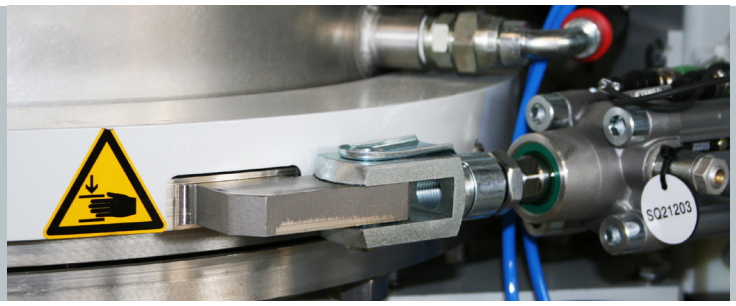
USEFUL DIMENSIONS

Type	Ø * H (mm)
Lilliput 22-20	220 * 200

OPERATING TEMPERATURES

Possibility to choose the type of heating elements and heat shields depending on the operating conditions and the materials to be treated.

- Graphite (heating up to 3 000°C)
- Molybdenum (heating up to 1 600°C)
- Tungsten (heating up to 2 350°C)

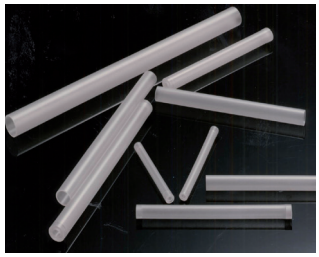


ADVANTAGES

The principle of hearth lift furnaces has the advantage of offering the possibility to load and instrument the load directly on the lift.

Sold as standard with a primary vacuum configuration, the Lilliput range is easily convertible into an installation working under secondary vacuum.

These furnaces are equipped with touch panels (supervision) allowing to control and access all the furnaces' functions, as well as to collect data linked to the process.



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