

**ECM**  
TECHNOLOGIES

# VACUUM FURNACES



ECM Technologies offers a range of furnaces for the vacuum heat treatment of metals, alloys and other materials.

The variety of processes requires the implementation of optimised technologies for each application:

- ▶ From 150°C to 2,800°C
- ▶ From several cm<sup>3</sup> to several m<sup>3</sup> of available volume
- ▶ From atmospheric pressure to molecular vacuum, up to 20 bar cooling

## HEARTH LIFT FURNACES

DIAMANT & LILLIPUT RANGES

Useful volume:  
1 liter to 13 m<sup>3</sup>



## HORIZONTAL FURNACES

VESUVE & TURQUOISE RANGES

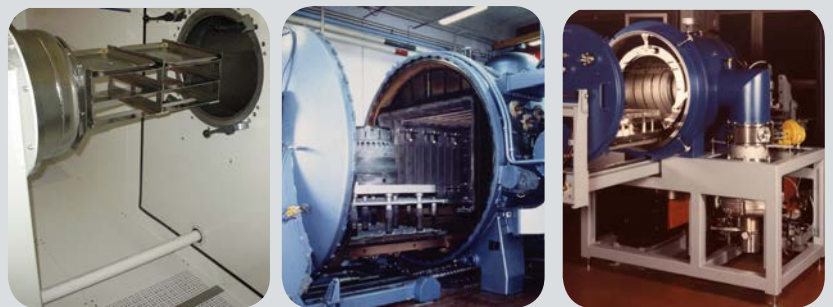
Reduced floor space  
Low investing costs



## MOBILE HEARTH FURNACES

SESAME RANGE

Front easy loading



## BELL TYPE FURNACES

CRISTAL RANGE

Easy loading  
Loading stability



# A SOLUTION FOR EACH REQUIREMENT

	Vesuve	Diamant	Cristal	Lilliput	Fulgura	Turquoise	Rubis
Hardening		●	●	●	●	●	●
Tempering	●	●		●	●		●
Quench annealing		●	●	●	●	●	●
Nitriding	●			●	●		
Annealing	●	●	●	●	●	●	●
Ageing	●	●	●	●	●	●	●
Brazing		●	●	●	●	●	●
Sintering		●	●	●	●	●	●

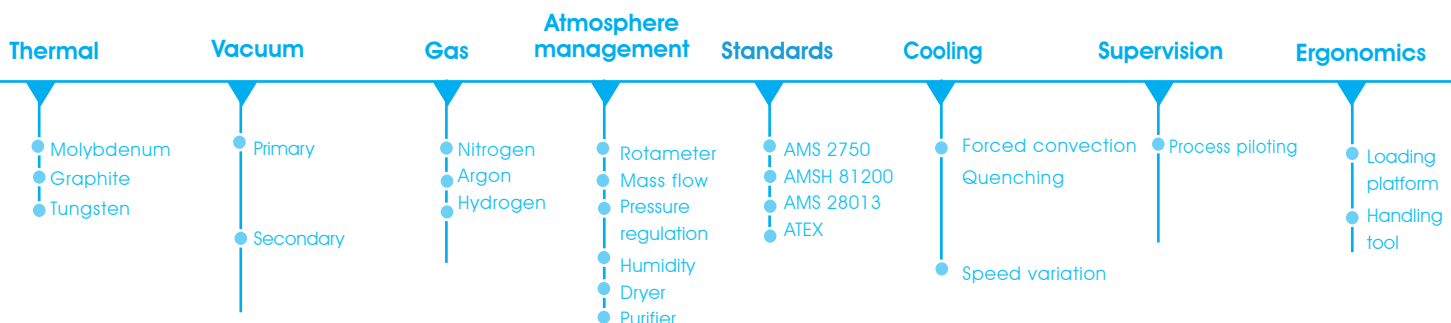
Primary vacuum	●	●	●	●	●	●	●
Secondary vacuum		●	●	●	●	●	●
Ultra-Clean vacuum (UHV)			●	●		●	
Convection heating	●	●			●		●
Gas scavenging	●	●	●	●		●	●
Gaz quenching ≥ 10 Bar		●			●		
Oil quenching					●		
Isostatic pressure ≤ 200Bar				●			

RECOMMENDED APPLICATIONS ● POSSIBLE APPLICATIONS ●

## TEMPERATURES

	Vesuve	Fulgura	Turquoise	Rubis	Diamant	Cristal	Lilliput
up to	850 °C	1,350 °C	1,600 °C	2,200 °C	2,200 °C	2,800 °C	2,800 °C

## AVAILABLE FUNCTIONS



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