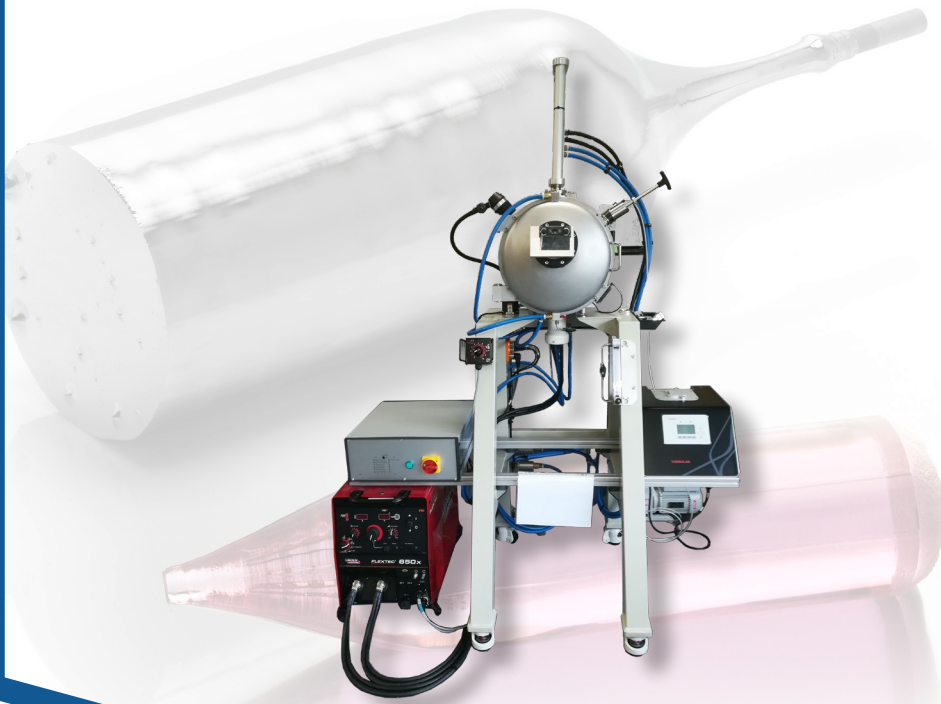
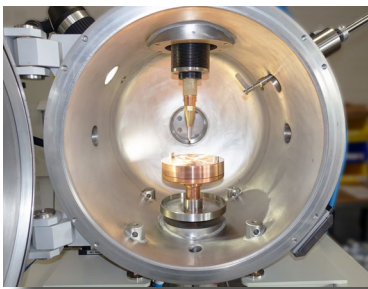


TETRA ARC

HIGH TEMPERATURE
MELTING &
CRYSTAL GROWTH
FURNACE



The Cyberstar Tetra Arc Furnace is a high temperature furnace, from ECM Lab Solutions, that processes materials with high melting points up to 3000°C without the need for a crucible. It is also proposed as a Czochralski crystal growth solution to produce mono crystals of rare materials with very high melting points. The heating up of the melt is done with the ignition of three (or four) electric arcs positioned around the load to be melted. The pulling mechanism is equipped with the precise and stable Cyberstar pulling head having a conversion rate of 0.01 to 100 mm/h, coupled with a weight growth measurement with precision up to 0.001 g/h. The specific design of the furnace makes it ideal for laboratory use, universities, and R&D centers.



EFFECTIVE DIMENSIONS

Up to \varnothing 10 mm for the crystal
pulling and \varnothing 40 mm for
sample synthesis

- Metallurgy
- Processing of high melting points metals

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

Cyberstar precise pulling head

Translation speed from 0.01 mm/h to 100 mm/h and in Fast mode up to 100 mm/min

Precise pressure regulation system

Equipped with quartz (or sapphire) window view ports

Chamber capabilities for primary and secondary vacuum

Water cooled chamber and melting platform

(working temperature in the reactor up to 3000 °C)

OPTIONS

- Weighing device up to 5 kg
- Controlled mass flow of different atmosphere gases
- Precise pressure regulation system

INTEGRATION

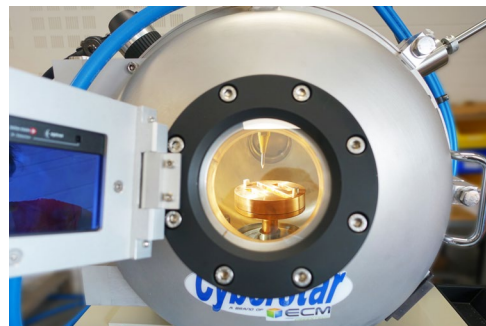
Flexibility to include monitoring and analysis equipment

MATERIAL

- Metals
- Alloys



Cyberstar



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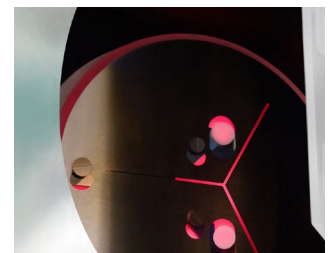


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