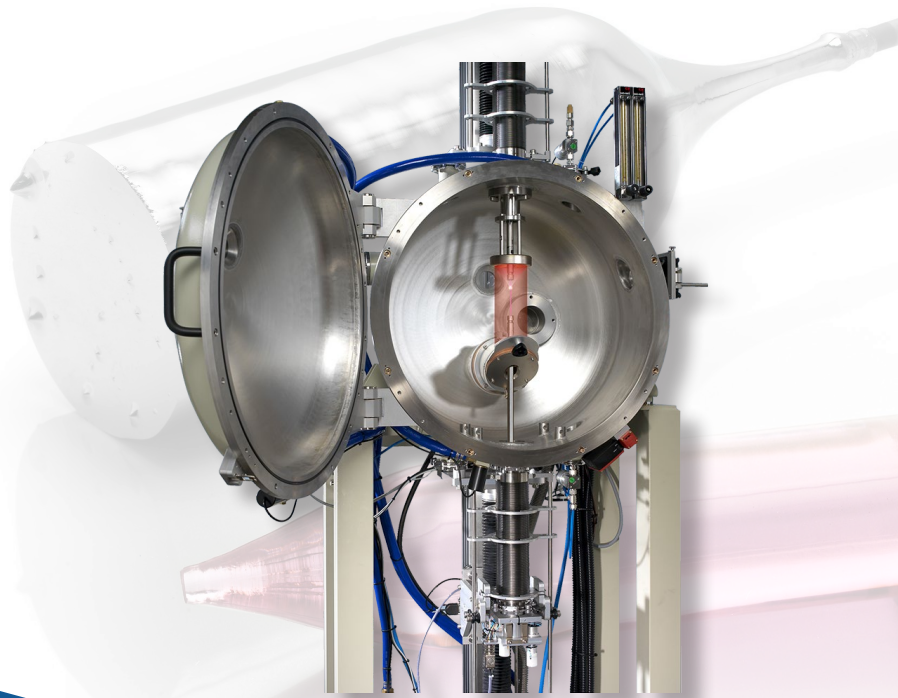
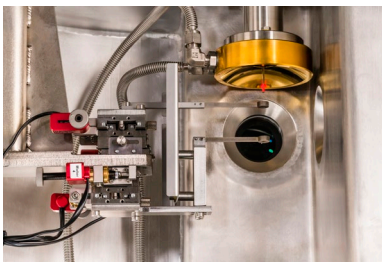


LHPG

LASER
HEATED
PEDESTAL
GROWTH



The **Cyberstar Laser Heater Pedestal Growth** system from **ECM Lab Solutions** is a high temperature furnace utilizing a high energy laser beam focused on a localized area of the rod sample. The furnace can reach temperatures up to 3000°C. It operates based on the floating zone technique using one rod of the grown material, or operated using a seed and feeding rod to provide the melted drop. Both of these solutions are possible thanks to the independent vertical conversion between the upper and lower holders in the furnace. The rod movement is perfectly synchronized using the Cyberstar control software, which is included with the furnace. It can be used to obtain crystal rods or fibers depending on the independent speed translation programming of the upper and the lower holders. This specific design of the furnace makes it ideal for laboratory use, universities, and R&D centers.



EFFECTIVE DIMENSIONS

Ø : 5 mm

- Solid Lasers
- Sensors
- Defense

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

Operating temperature up to 2750°C

Precise and synchronized upper and lower translations

with a resolution up to 0.01 mm/h

Precise pressure regulation system

Water cooled chamber

Water cooled chamber up to 3000°C

Equipped with quartz (or sapphire) window view ports

Operating security loop system

Primary vacuum, inert gas, reductive and oxidizing atmospheres

Chamber capabilities for primary and secondary vacuum

Laser power up to 400W



OPTIONS

- Maximum operating gas pressure chamber 100 bars
- Pyrometer for localized temperature measurement

INTEGRATION

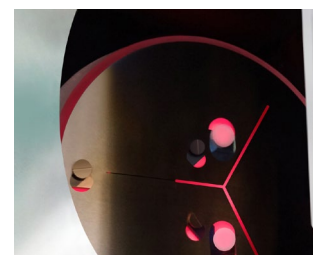
Flexibility to include monitoring and analysis equipment

MATERIAL

- Oxides
- Ceramics
- Semiconductors



Cyberstar



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