

MEMSLAB

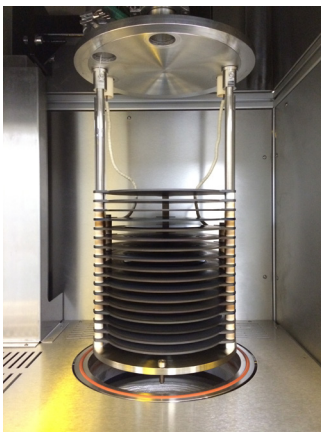
BATCH TYPE

VERTICAL FURNACE

R&D / SMALL PRODUCTION



Semco MEMSLAB is a **compact batch-type**, single or multi-chambers vertical PECVD platform offered by ECM Greentech. The MEMSLAB is designed and built with high precision components, which allows for high quality **thin film deposition**. The applied Low Frequency Plasma feature permits the furnace to reach excellent process performance through a most advantageous horizontal thin substrate processing. This platform excels in the processing of small quantities of substrates; therefore, allowing the MEMSLAB to meet requirements of universities, research laboratories, or small production facilities.



SUBSTRATE DIMENSIONS

100-150-200 MM

- Microelectronics
- Power devices (SiC, GaN)
- Sensors (MEMS)
- Optoelectronics
- Aeronautics
- 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

Modular, Flexible & compact footprint
1 to 2 independant process chambers
Up to 25 wafers per chamber
Up to 200 mm (Semiconductor round wafers)

Manual or automatic boat loading

Reactor design:

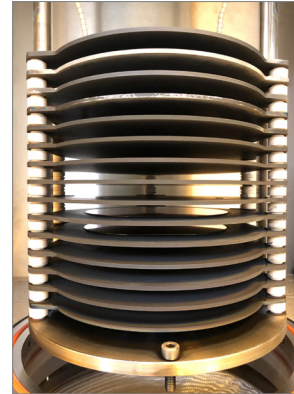
Excellent process precision and repeatability
High performance and life-time process technology
Modular design 1-2 reactors side to side
Vertical reactor with uniform gas distribution

Machine:

All furnace components Hub connected
Industrial Process PLC
Windows® based Mycore supervision
CE certified & SEMI S2 compliant

Process Flexibility:

PECVD
Gas Cabinet for up to 13 gases
Liquid precursor cabinet, vaporization, DLI & ALD compliant

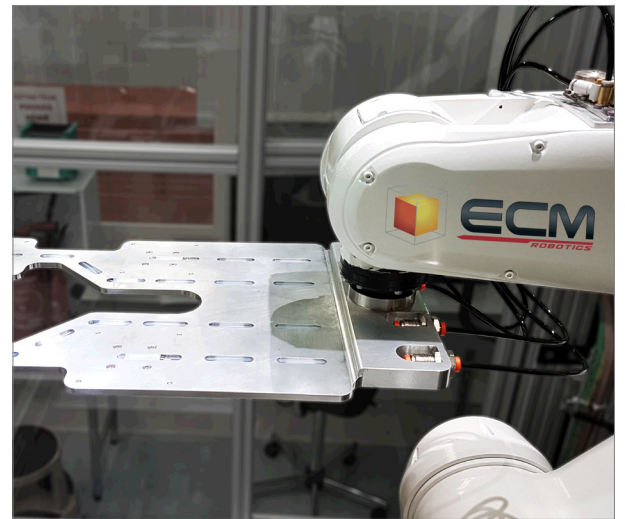


MATERIAL

- Silicon
- SiC
- GaN
- Sapphire
- Quartz
- Ceramic
- Metal

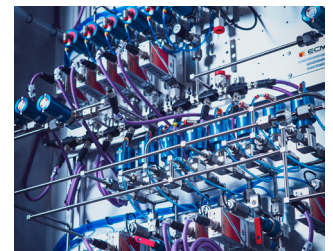
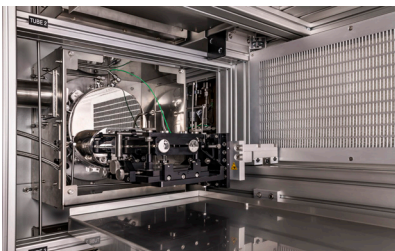
OPTIONS

- Process related pump package
- Laminar Flow class 1 (vertical or horizontal)
- SECS/GEM compliant with SEMI E30, E37
- Full traceability of processed products
- Dedicated additional process features upon request
- Integrated robotic automation



MORE THAN JUST AN EQUIPMENT

- Robotization and compatibility with automation
- Process integration with dedicated expertise
- Technology support upon customer needs



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