

FLEXTURA PVD

Flexible Cluster tool for the semiconductor industry

With the FLEXTURA Cluster Polyteknik AS is introducing a multifunctional deposition tool offering unseen flexibility.

The system is born with standard SEMI wafer handling, high quality subcomponents and can be equipped with standard sputtering modules as well as newly developed modules introducing new development opportunities.

The perfect tool for development or flexible production – directly up-scalable!



Process Modules

- High temperature deposition chamber - up to 1000 deg C
 - . - Increased layer quality
 - . - Epitaxial growth
- HiPIMS sputtering (highly ionised) chamber
 - . - High aspect ratio metallisation
 - . - TSV Metallisation
 - . - Layer property tuning
 - . - DLC coatings
- Direct magnetron sputtering (DC, RF and pDC)
- Multi-magnetron chamber (Co-sputtering)



Cryofox Division

Polyteknik is an experienced supplier of high tech equipment for PVD and PECVD thin film deposition and specialises in production and development of advanced deposition solutions.

The systems are usually delivered to high tech institutes and companies, typically within the business and activity fields of:

- MEMS fabrication
- Sensor fabrication
- TEM Thermo Electric Modules
- Battery and storage activities
- Solar PV R/D activities
- Solar CSP R/D and fabrication
- Piezo sensors and actuators
- Roll-to-Roll r/d and production
- Special applications

Our deposition systems are based on high quality standard platforms and the easy-to-use Cryosoft3 software for highly advanced processing and datalogging. The advanced processes are typically developed in close cooperation with our customers.

Polyteknik is a trusted supplier of deposition technology and we are proudly announcing that we have an almost global reference list.



TECHNICAL SPECIFICATIONS

Transfer chamber	Hexagonal central transfer chamber with full automatic wafer handling robot
No. Process modules	Up to 5 (1 loading port)
No of loading port	Up to two
Cassette	Standard SEMI or customised
Software	Cryosoft3 running on a windows platform