POLYTEKNIK
When thin film matters



PVD SYSTEMS

Tornado Compact Lab

A compact deposition system designed as a versatile and reliable lab workhorse for thin-film research and development

Tornado Compact Lab

Evaporation and sputtering



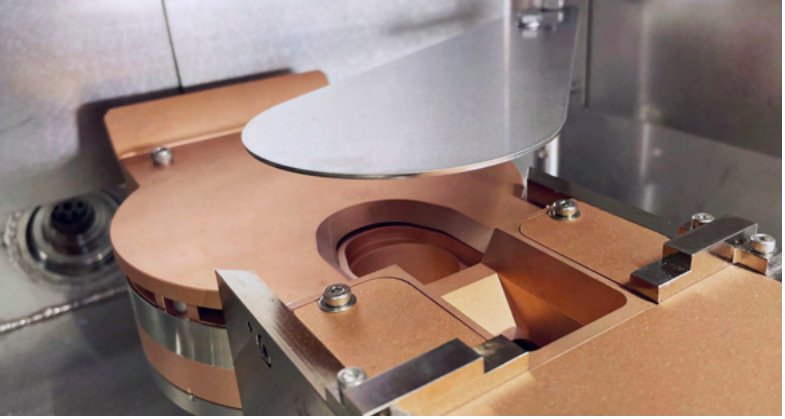
Tornado Compact Lab is a compact deposition system – a real lab workhorse, and due to the easy access, easy operation, and high process repeatability, it is a preferred tool for both the young student and the experienced scientist.

The system is available with evaporation or sputtering sources. It is a versatile entry level deposition system with fully automated process control and data logging through Polyteknik's control software.



APPLICATION EXAMPLES

General thin film R&D	Photovoltaic materials	Multilayer ohmic contacts	Hydrophobic or hydrophilic ceramic layers
Graded cermet layers	Metal coatings for electrodes	Oxide and nitride coatings	Available with manual load lock for even faster processing





Tornado Compact Lab

Tornado sputtering

- Up to five 2-3" magnetrons
- Up to three 4" magnetrons
- Supports DC, pDC, RF, and HiPIMS sputtering
- Single target or multi target co-deposition

Tornado evaporation

- Metallisation
- Lift-off processes
- Optionally combined with thermal evaporator
- E-beam and thermal evaporation

Single substrate stage

- Continuous 360° or indexed rotation
- Backside resistive heating up to 400°C
- Water cooled substrate stage with tilt (+/-45deg)
- Single substrate load lock
- Typical substrate size up to 4" (100mm)
- RF/DC bias feeding

Batch substrate fixture

- Max diameter 300mm
- Wafer capacity: 8×3" (76,2mm), 5×4" (100mm)
- RF/DC Bias feeding

400°C

Backside resistive heating

±45°

Water cooled substrate stage with tilt

100mm

Typical substrate size

300mm

Maximum diameter, batch fixture



Contact

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Who we are

Polyteknik AS is a PVD equipment manufacturer with an innovative, modular system design and a strong focus on service. With more than 30 years in business, an international reference list and an excellent technology platform, Polyteknik AS has become a valued partner in the thin film industry.

What we do

Our portfolio of PVD systems ranges from small-scale R&D to high-volume and large-area deposition.
The modular Flextura® platform lets you start with the processes your research needs today and add modules, as your projects change. Our Flextura® 200 and 300 Cluster, Tornado and Infinity platforms cover the range from compact research systems to production.
At Polyteknik AS you will meet a dedicated team that works closely with you to find the right solution.

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