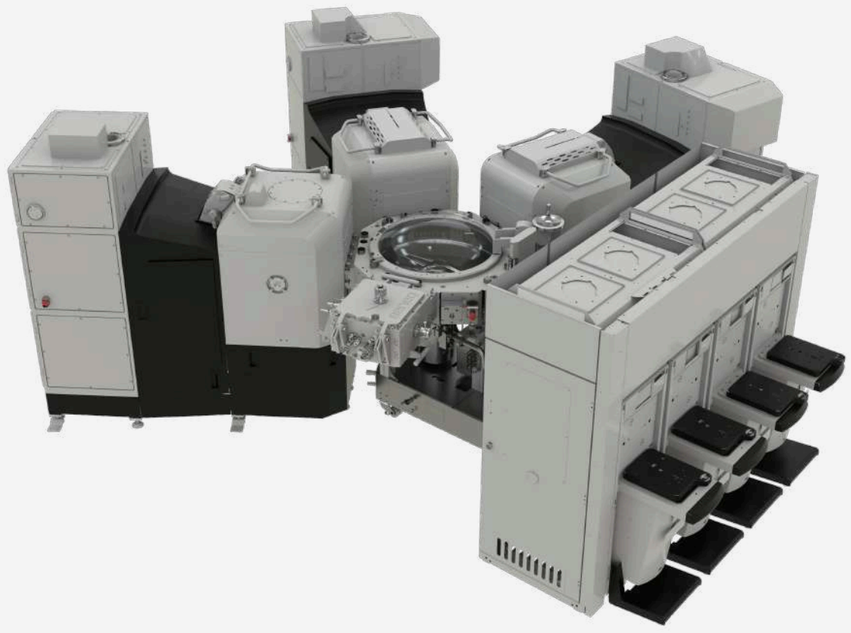
Semiconductors

Beneq Transform® 300

OVERVIEW



Beneq Transform 300 is a highly versatile manufacturing platform that caters to multiple advanced thin-film applications ranging from gate dielectric to passivation and/or encapsulation and beyond.

FEATURES

Versatility

The only 300 mm ALD cluster tool offering both thermal ALD batch and plasma ALD single wafer technologies for maximum flexibility and capability.

Configurability

Designed to meet a wide range of capacity and applications requirements including advanced packaging, chip scale package and wafer-on-tape applications.

Productivity

Best in class serviceability, shortest MTTCR. Highest throughput for thermal batch, unique pre-heating module.

Fab-ready

Cleanroom compatible with SECS/GEM communication capabilities and is compliant with the highest SEMI S2 and S8 standards.

Application areas for high-volume 300 mm manufacturing:

- CIS
- Power
- Micro-OLED/LED
- Advanced packaging
- Other MtM devices

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SPECIFICATIONS

Maximum configuration	3 processing modules, 1 preheater
Dimensions (L x W x H)	4400x4800x2250 mm
Host integration	SECS/GEM
Batch size	Up to 25 x 300 mm wafers
Single wafer substrates	300 mm with 200 mm bridge capability
Safety standards	SEMI S2 and S8
ALD processes	Al_2O_3, SiO_2, HfO_2, Ta_2O_5, TiO_2, AlN, TiN, ZnO, Si_3N_4
Processing temperature	420 °C batch, 350 °C plasma
Throughput: Al2O3-300°C-50 nm	12 wafers/hour - 1 batch PM

SEMICONDUCTOR EQUIPMENT

Beneq is dedicated to providing the most flexible and high-end ALD cluster tools to address the high manufacturing demand of the semiconductor industry across all wafer sizes.



Beneq Transform®

Versatile ALD platform for More-than-Moore device manufacturing.



Beneq Transform® XP

ALD Platform for Technology Development and Pilot–to–Volume Manufacturing.



Beneq Prodigy™

The simple and elegant ALD solution for compound semiconductor device fabrication.



Beneq Transmute™

High Throughput ALD Platform for Wide Bandgap Power, RF and Other Specialty Devices.