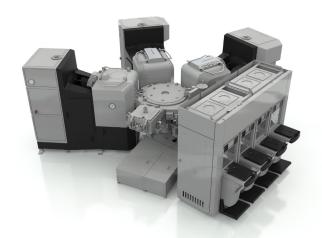


BENEQ Transform® 300

Beneq Transform® 300 is the only 300 mm ALD cluster tool combining thermal ALD (batch) and plasma ALD (single wafer) technologies to provide a highly versatile solution to IDMs and foundries. Transform® 300 is dedicated to a broad range of advanced thin-film applications from gate dielectric to anti-reflection coating, final passivation or encapsulation and beyond.



Application areas for high-volume 300 mm manufacturing:

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

VERSATILITY: The only 300mm ALD cluster tool offering both Thermal ALD (batch) and Plasma ALD (single wafer) technologies for maximum flexibility and capability

CONFIGURABILITY: Platform designed to meet a wide range of capacity and applications requirements including gate dielectric in high aspect ratio trenches, surface passivation, and encapsulation, as well as Chip-Scale-Packaging of singulated dies with wafer-on-tape applications.

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

FAB-READY: Equipment is cleanroom compatibility, has SECS/ GEM communication capabilities and is compliant with highest SEMI S2 and S8 standards.





Transform® 300 Specifications

MAXIMUM CONFIGURATION	3 processing modules & 1 preheater
DIMENSIONS	4400 x 4800 x 2250 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	Al2O3, SiO2, HfO2, Ta2O5, TiO2, AlN, TiN, ZnO, Si3N4
PROCESSING TEMPERATURE	420 °C (batch) 350 C (plasma)
THROUGHPUT: AL2O3-300°C-50NM	12 wafers/hour – 1 batch PM

BENEQ 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.



Transform® 300

The only 300 mm cluster ALD tool to combine thermal batch and plasma processing.



Transform®

The most versatile cluster ALD tool for MtM device fabrication for 200 mm wafers and below.



Prodigy™

The simple and elegant ALD solution for compound semiconductor and MEMS processing.

