



**A400™ DUO Platform, consisting of:**

Work In Progress (WIP/30) station with 30-cassette capacity, including pneumatic clean room door and Robot with automatic wafer centering system and automatic boat-slot- position calibration for 150mm and 200mm wafers.

Control System including operator interface consisting of operator touch screen integrated in the system front panel.

Including recipe storage, data logging and job management capabilities.

Power cabinet configured to facility requirements.

**Low oxygen Mini environment**

Nitrogen purge for Platform and the Process Module. Containing the Oxygen analyzers for both sections, and the gate valve for the process modules.

**A1 A400™ DUO Diffusion Process module for ATM Anneal consisting of:**

A400™ DUO Basic process module with 600mm flat zone. Dual-boat processing supported by multi-boat carousel.

Complete gas system with Mass Flow Controlled gas lines for:

1. *Nitrogen (N<sub>2</sub>)*
2. *Oxygen (O<sub>2</sub>)*
3. *10% Oxygen in Nitrogen (10%O<sub>2</sub>/N<sub>2</sub>)*
4. *Nitrous Oxide (N<sub>2</sub>O)*

Temperature controlled flanges by means of cooling water (<80°C).

Boat rotation.

Active chemical filters for mini environment.

Pressure regulators in the incoming gas lines.

Fast ramp cool down capability.

Atmospheric Pressure Transducer.

Leak tray with spill sensor.

Oxygen analyzer on the exhaust with PPM and Percentage read-out.

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**A2 A400™ DUO LPCVD Process module for LP Anneal consisting of:**

A400™ DUO Basic process module 600 mm flat zone. Dual-boat processing supported by multi-boat carousel.

Complete gas system with Mass Flow Controlled gas lines for:

1. *Nitrogen (N<sub>2</sub>)*
2. *Oxygen (O<sub>2</sub>)*
3. *10% Oxygen in Nitrogen (10%O<sub>2</sub>/N<sub>2</sub>)*

Temperature controlled heated flanges (up to 150°C).

Boat rotation.

Water cooled particle trap.

Active chemical filters for mini environment.

Pressure regulators in the incoming gas lines.

Fast ramp cool down capability.

Leak tray with spill sensor.

Heated fore line for multiple pressure ranges (1-10Torr, ~250Torr and ~650Torr).

Low Pressure Oxygen analyzer in the fore line.

