



Reliable

Design for Maximum MTBF

FAST

150WPH Throughput

Fine

CD Uniformity Control

Flexible

Modular Cell Design



Cell-Based Tool Structure



Indexer
cell

coat
(BARC)
cell

coat
(Resist)
cell

devel op
cell

Peb
&
IF
cell

Flexible system Configuration options



6-coat, 5-level op with Interface

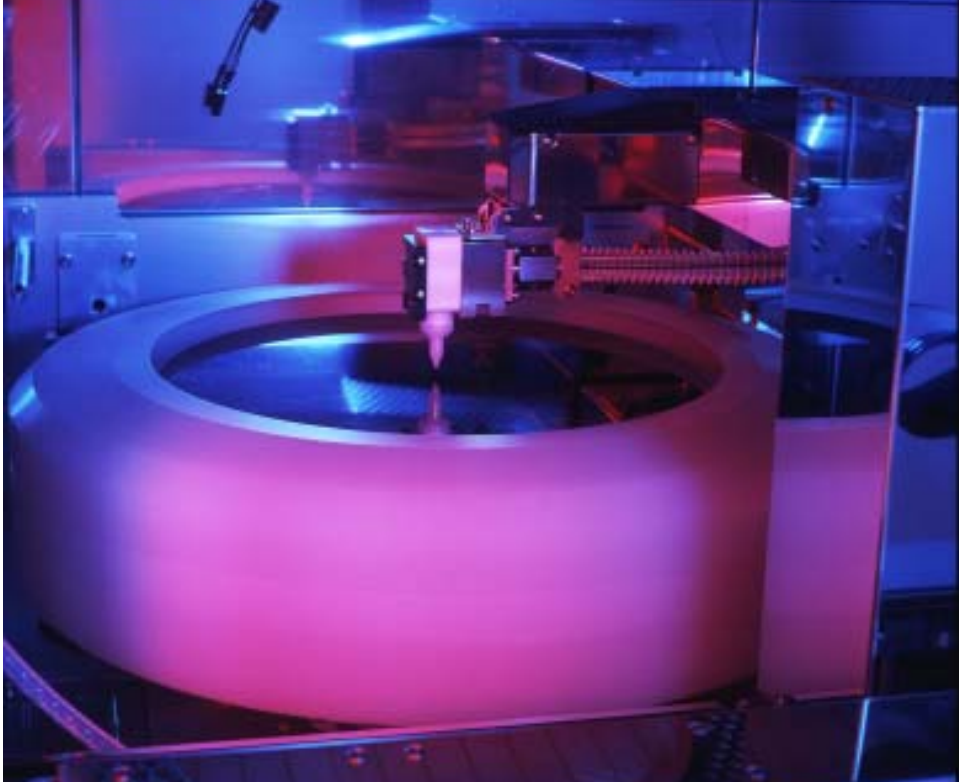


3-coat, 5-level op with interface



3-coat BARC track

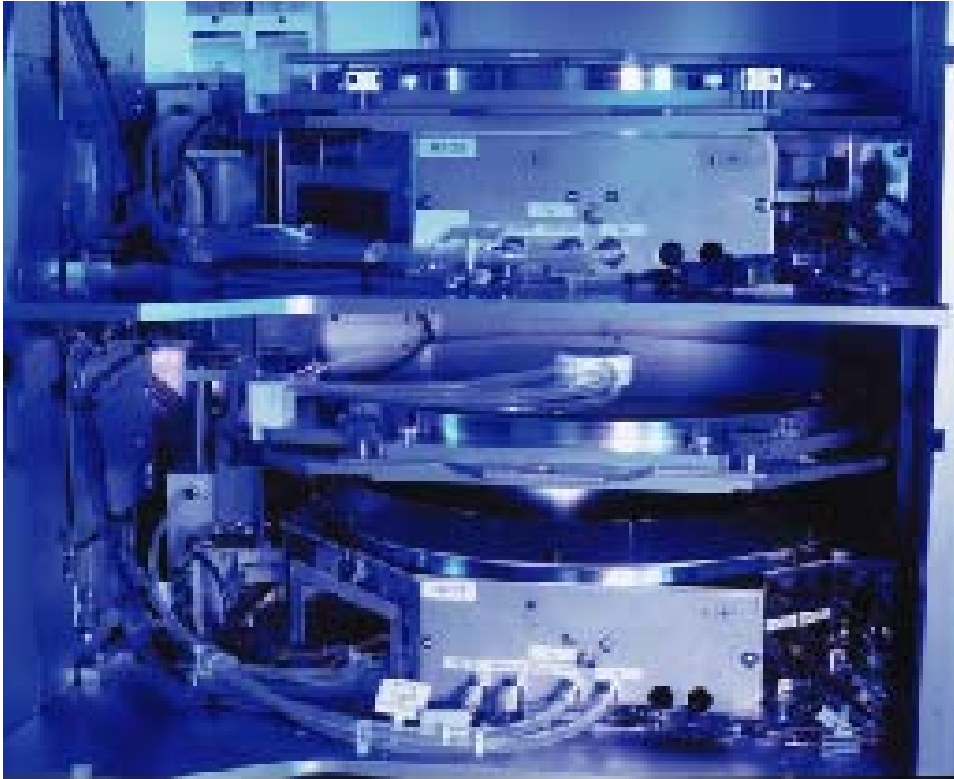
RF³ Coat



**Resist consumption
reduction & Reliability**

- ❖ VPS+ (Variable Pre-Spin) technology providing superior coat uniformity and stability
- ❖ Coat volumes less than 1cc / 300mm wafer
- ❖ Up to ten (10) dispense nozzles per coat cup
- ❖ Chemical temperature control is either cup-by-cup or nozzle-by-nozzle basis

RF³ Bake



POST-EXPOSURE BAKE (PEB)

- ❖ Excellent bake uniformity
- ❖ Rapid thermal response
- ❖ Immediate wafer chill
- ❖ Rapidly changing set-point temperatures for each process recipe.
- ❖ Post-Exposure Delay (PED) control system



Develop



Slit-scan develop

- ❖ Applies a continuous sheet of developer to the surface of a static wafer
- ❖ Common wetting and puddle characteristics at all points.
- ❖ Develop flow is initiated and terminated off the wafer surface for defect reduction
- ❖ A Dainippon Screen original technology since 1998

**Dainippon Screen Releases New 150WPH Coat / Develop Track
for Advanced Deep-UV Lithography.**

Dainippon Screen Mfg. Co., Ltd. (Headquartered in Kamigyo-ku, Kyoto; Akira Ishida, President; hereinafter referred to as DNS) announces release of its new 300mm coating/developing system for advanced Deep-UV lithography, RF³ (pronounced "RF-cubed"). The new track delivers 150 wafers per hour throughput, meeting the demand of next generation scanners. Volume shipments will commence in January 2004 with orders by two top-tier 300mm wafer fab customers already booked for 2003 delivery. Dainippon Screen anticipates significant sale of the new systems and forecasts 30% worldwide track market share by 2005.



Partners in Innovation
SCREEN

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