



**MC-Lithography GmbH**

Industriestrasse 1, A-9601 Arnoldstein, Tel./Fax +43 4255 2011

# MC-Lithography GmbH Coater Developer

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## Concept



**A Product Family**

**Modular Design**

**Variable Process Components**

**Smallest Clean room Footprint**

**Standardized Interfaces**



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## Advantage

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### **Lower Cost of Ownership**

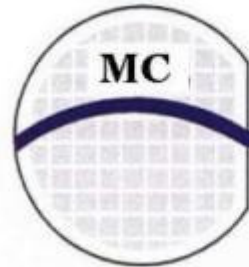
- 80% Common Parts
- Smallest Clean-room Footprint
- High Throughput
- Lower Maintenance Costs

### **Variable Process Components**

- Modular Design
- Wide range of Applications supported
- Custom Solutions based on Standard Products

### **Standardized Interfaces, open and expandable**

- Operator GUI
- Recipe Management
- Automation



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## Cost Of Ownership

- Smallest Clean-room Footprint in the Industry (Sample 1400x1400)
- High Throughput
- Less Setup Time through distributed Product Files to Multiple Tools
- Lower Maintenance Cost
- Uptime >98%, MTBF >1000h, MTBA >250h, MTTR <2.5h
- 6 Month Preventive Maintenance Intervals
- Less Downtime for Cleaning (*i.e. Process Bowls can be removed w/o tools*)



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## Wafer Handling

Isel/Genmark, 3-link robot optimized for thin wafer handling

Wide range of end-effectors available (*i.e. ceramic, thin-wafer, edge grip...*)

Direct control of handling parameter via recipe

## Dispense System

Excellent, repeatable Process Results

High-End Components from *Panasonic, SMC, Isel, Beckhoff, CKD, Matrix*

Designed for current and future process requirements

- Linear Positioning Systems
- Progr. & Motor Controlled
- Offset Calibration
- Accuracy: +/- 50µm XYZ
- Up to 4 Dispense Nozzles
- Nozzle pickup through recipe
- Parked in Solvent-bath
- Dummy & Pre-Dispense
- Scan & Multi-Position Dispense



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## Temperature Modules

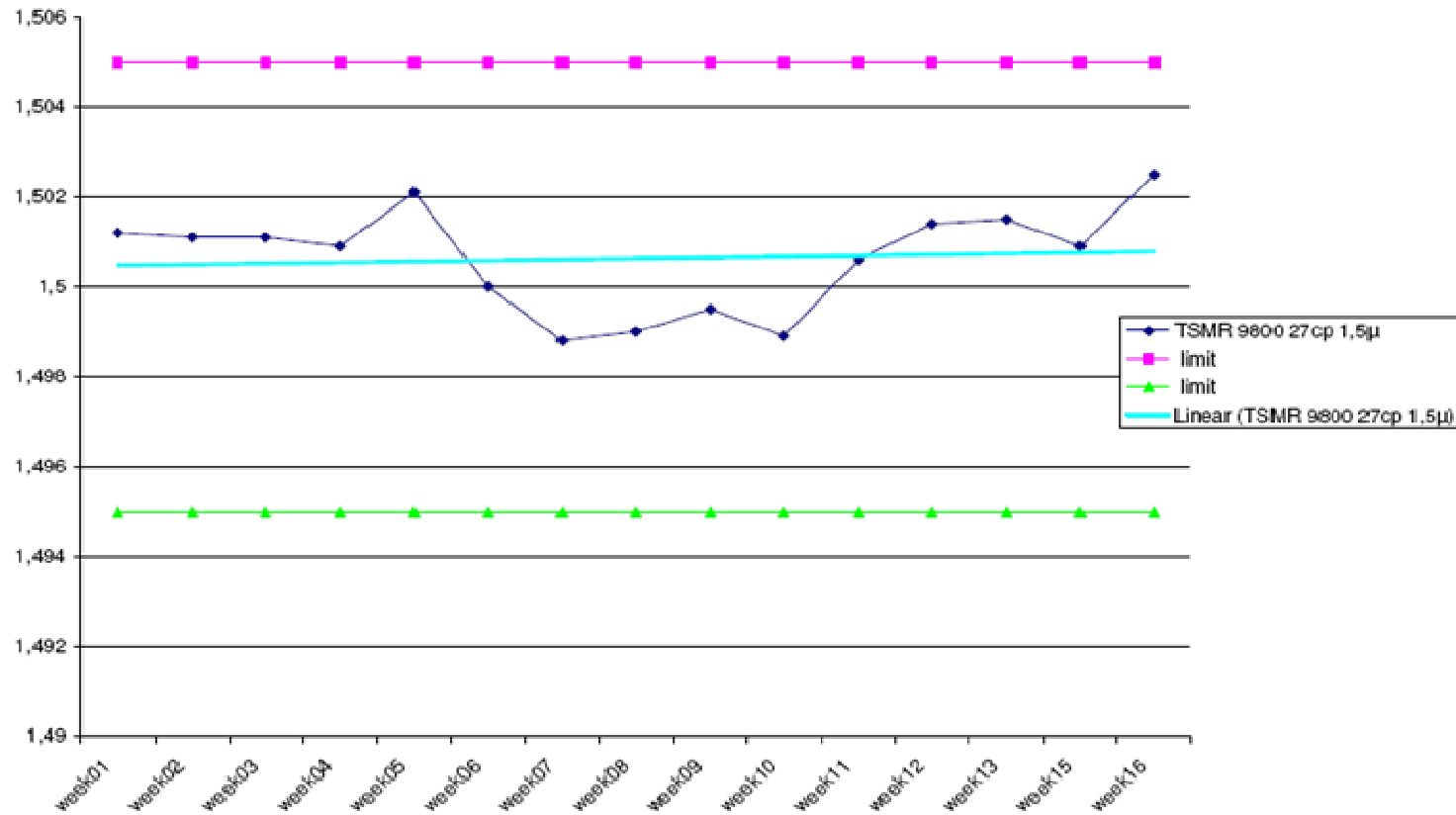
- Module Stack for best form factor
- Excellent uniformity and repeatability
- Wide temperature range available (*15°C-65°C, 65°C-180°C, 65°C-450°C*)
- Distance control via fixed proximity, prog. proximity or contact
- *Hot-Swap*' of modules for reduced downtime



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## Tool Stability





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# Picutres

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## Electronic Racks





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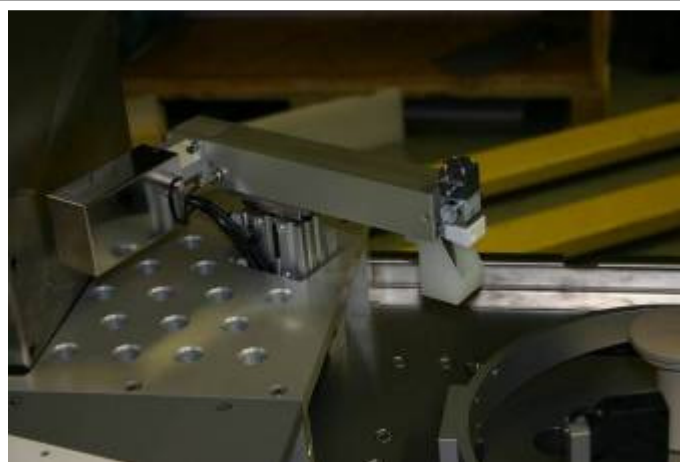
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## Dispense Arms

Coater

Developer

EBR



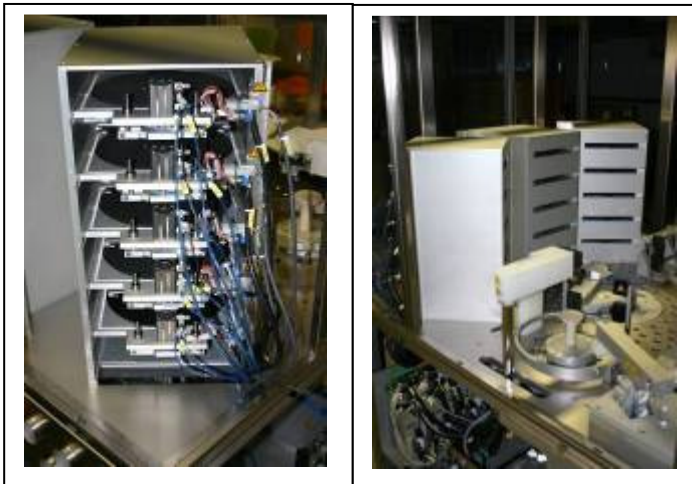




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## Hoplates/Coolplates





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## Main Tool/Media Cabinet

