



MANUAL COATING SYSTEM

SUSS MCS8

THE LABCLUSTER FOR LABORATORIES, START-UPS
AND SMALL-SCALE PRODUCTION



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SUSS MicroTec's MCS8 (LabCluster) platform offers the latest generation of coating and aqueous developing techniques in a unique cluster configuration. It is designed and assembled to provide the greatest variety of functionalities on the smallest cleanroom footprint. Technologies which have proven themselves in SUSS MicroTec high-volume production tools are thus accessible to laboratories, start-ups and for small-scale production through the MCS8.

The MCS8 consists of customizable frames for two individual modules. Customers select these two modules according to their individual requirements from the wide range of SUSS MicroTec's manual and semi-automated coater and aqueous developer tools. These options include SUSS LabSpin8, SUSS Hot Plate, SUSS Vapor Primer or the actively chilled SUSS Cool Plate. The two individual modules are placed one behind the other. This allows optimal use of cleanroom space. For best operator ergonomics, the rear module is raised in height.

All modules can be equipped with optional functions such as automatic dispense systems for LabSpins or proximity-pins for Hot Plates. The MCS8 LabCluster is available as an array of up to six of customizable frames including two modules each.



HIGHLIGHTS

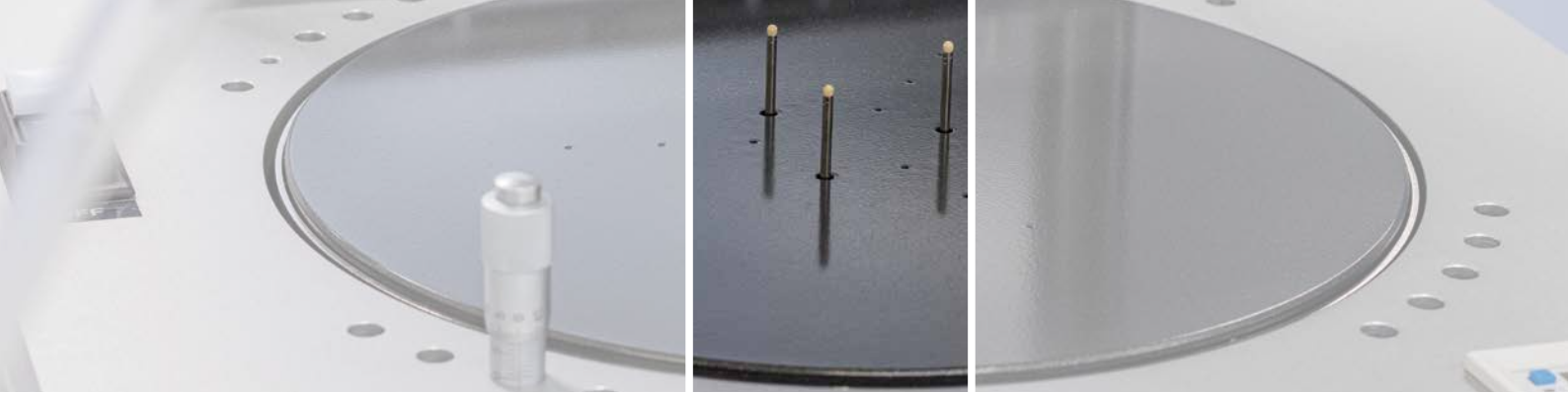
- + Smallest cleanroom footprint
- + Flexible configuration with over 500 settings
- + Proven technology in SUSS HVM tools
- + Wide range of options down to module level
- + One supply and one waste management system



This enables the combination of up to twelve modules in total, thus offering a complete process solution. By adding advanced coating and developing technology to the cluster, e.g. up to two tools such as RCD8 or AS8, the MCS8 allows for a broad spectrum of applications for MEMS, III-V, electron beam lithography, temporary bonding, nano imprinting, microfluidics and micro-optics. Customers can equip the MCS8 platform with a wide range of configurations based on SUSS MicroTec's experiences for maximum benefit.

Available options include:

- + Dispense systems for coaters
- + Proximity-pins and purge options for Hot Plates
- + Temperature control for developers
- + Wide range of chucks
- + One singular waste management system



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Available Tools and Options

LabSpin8 Coater

- + Up to two fully automated dispense systems
- + Syringe dispense system
- + Edge bead removal

LabSpin8 Developer

- + Up to two fully automated dispense systems
- + DI water rinsing
- + Nitrogen drying

Hot Plate HP8

- + Temperature ramping
- + N₂-purge
- + Pneumatic lift-pins

Vapor Primer VP8

- + Recipe-controlled
- + HDMS priming
- + High safety standards

Cool Plate CP8

- + Recipe-controlled
- + Production tool technology
- + Actively chilled cool plate

RCD8 Coater

- + Wide range of dispense options
- + Spin speed up to 12.000rpm
- + Spin acceleration up to 7.000rpm/s
- + Open bowl tooling
- + GyrSet tooling
- + Production tool controller and software

RCD8 Developer (Aqueous)

- + Two developer lines, DI water
- + Temperature control for developer lines
- + Puddle development
- + Spray development
- + N₂ drying
- + Production tool controller and software

AS8 Coater

- + High precision spraying
- + Dual nozzle for higher throughput or two types of resist
- + Pre-wet functionality
- + Production tool technology

Please find further information in the respective datasheets. More options available on request.

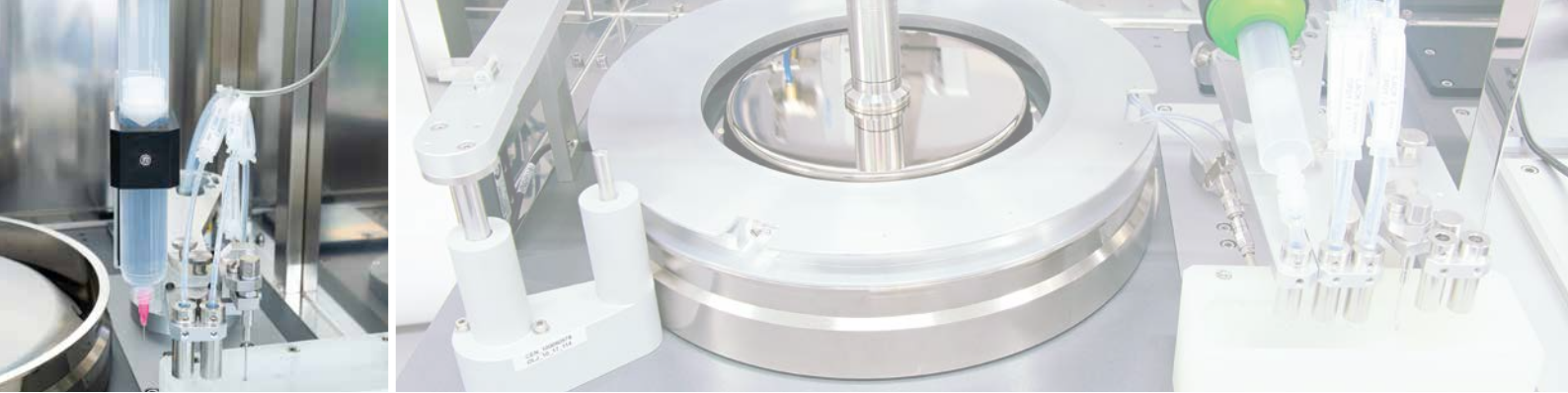


RCD8 user interface



LabSpin/Hot Plate combination

LabSpin including automatic dispense system



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TECHNICAL DATA

TOOL CONFIGURATION

Substrate Size	Up to 8" round
	Up to 6"x6" square
	Special sizes upon request
Substrate Material	Several choices upon request

CONTROLLER

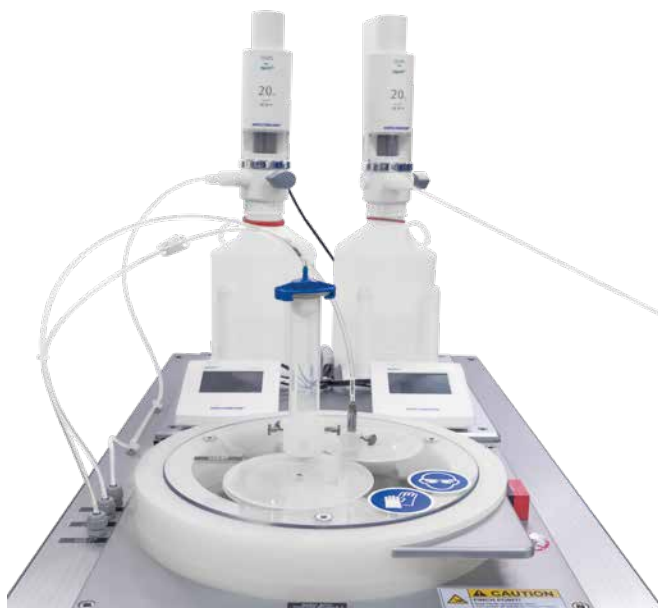
Individual Touch Panel	LabSpin8
	HP8
	VP8
	CP8
Production Tool Controller	RCD8
	AS8

SAFETY

EMO	Entire tool shuts off
Leakage	Leakage sensor in each module
Exhaust	Flowdetection at each major outlet
CE Compliant	CE and UL

REQUIREMENTS (depending on specification)

Power	400V 50Hz/60Hz
CDA	6 bar
N₂	6 bar (optional)
Vacuum	-0,8 bar (optional)
DI Water	2,5 bar
Exhaust	-0,6 bar



Cabinet with dispense system and drain bottle



Cabinet with CPDs and flow meters

Data, design and specification depend on individual process conditions and can vary according to equipment configurations. Not all specifications may be valid simultaneously. Illustrations, photos and specifications in this brochure are not legally binding. SUSS MicroTec reserves the right to change machine specifications without prior notice.



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