

# $\mu$ Coater



Spin coating  
system



**MUTECH**  
Microsystems



## The coater

μCoater is a benchtop spin coater very easy to use and full of features, it includes an integrated vacuum system with a rotating vacuum chuck for holding the substrates to coat while spinning.

It has an all metal body construction (steel and aluminum) with a polypropylene vacuum chuck, the inside of the spinning bowl is coated with a PTFE based material which is very easy to clean.



It uses a high quality outrunner brushless motor. These type of motors are very efficient and have very low static friction resulting in a long lifetime.

## User interface

It has a full color TFT LCD screen with a very simple to use and not cluttered graphical user interface where you can save multiple spinning programs.



Each program can have several spinning steps with different speeds, accelerations and spinning times per step.

The vacuum pump is also controlled from the user interface.

# Spin coating process

The spin coating process is one of the best ways to deposit thin films of coating materials on substrates. Usually a small amount of the coating material is applied on the center of a substrate and then it's rotated at high speed in a controlled manner, resulting on a homogeneous film on the substrate.

This technology is typically used for the application of photosensitive materials for microfabrication applications, for the deposit of nanoparticles and nanotubes or for sol-gel processes. Of course you can use our spin coater for any process you need it.



## Specs

### Rotation

- Max speed 10000 rpm
- Min speed 500 rpm
- Max acceleration 5000 rpm/s
- Max time per step 1000 s

### Vacuum system and mechanics

- Includes an integrated vacuum pump

- Vacuum chuck o-ring diameter 36 mm
- Vacuum chuck external diameter 45 mm
- Spinning bowl internal diameter 180 mm

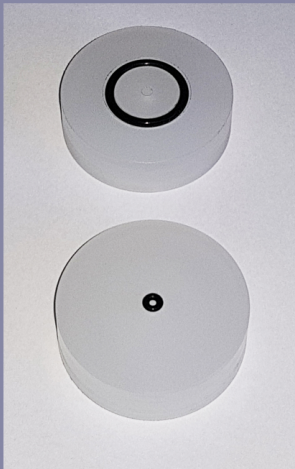
- Chuck accessories with o-rings of different diameters can be provided

### Interface

- TFT-LCD full color graphical user interface
- Context-based navigation with buttons and a rotary encoder

### Memory

- 10 different programs
- Up to 7 steps per program
- Each step has it's own speed, acceleration and time.





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## Contact information

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