µCoater

FEATURES

- Integrated vacuum chuck and pump
- TFT-LCD full color graphical user interface
- Context-based navigation with buttons and a rotary encoder
- Outrunner brushless motor
- 8mm hole on the center of the glass lid that can be used for dispensing
- PTFE coated spinning bowl for easier cleaning
- Sample size capacity: from 5x5mm fragments up to 4 inch wafers



Mutech microcoater

Mutech microsystems microcoater is a benchtop spin coater very easy to use and full of features, it includes an integrated vacuum system with a rotating vacuum chuck and pump for holding the substrates to coat while spinning. You don't need an external vacuum pump, it's integrated inside.

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.

Technical specifications

Rotation	
Maximum speed	10000 rpm
Minimum speed	500 rpm
Maximum acceleration	5000 rpm/s
Maximum time per step	1000 s
Vacuum system and mechanics	
Vacuum pump	Integrated
Vacuum chuck o-ring diameter	36 mm
Vacuum chuck external diameter	45 mm
Spinning bowl internal diameter	180 mm
Included chuck adapters (others can be provided)	3.5mm, 8mm, 22mm
Memory	
Programs	10
Steps per program	Up to 7
Content of each step	Speed, Acceleration and time
Materials	
Frame	Sheet steel/Polyurethane paint
Bowl	Aluminum/PTFE coating
Lid	Glass
Chuck and chuck accessories	Polypropylene

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.

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.



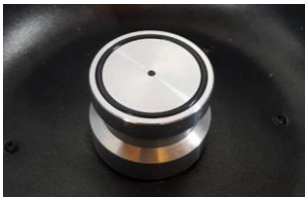


Each program can have several spinning steps with different speeds, accelerations and spinning times per step.
The integrated vacuum pump is also controlled from the user interface.

Optional accessories

We also offer a variety of different adapters, accessories and custom developments for our customers, in case you need a specific modification to suit your application please contact us to discuss available options.

All aluminum main chuck



Aluminum adapters



Extra PP adapters



PP adapter for ophthalmic lenses



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