Nadetech Innovations

ND-R Rotary Dip Coater

Multilayer thin films by dip coating

Nadetech ND-R Rotary Dip Coater is a completely automatized equipment for multiple layer thin films deposition via dip coating. Its design and programmable software allows to control and automatize every deposition parameter with high precision and reproducibility. ND-R Dip Coater is used to obtain nanometric coatings with multiple layers via sol-gel, layer-by-layer assembly and other dip coating techniques. Its eight dipping positions permit to work with multiple vessels, coating compounds, temperatures and dipping sequences.

- High precision control
- Dip coating Sol-gel L-b-L
- Windows® user friendly software
- 1 year Warranty

Technical specifications

	ND-R 11/2
Vertical displacement	80 mm
Horizontal displacement	360º
Minimum speed	0.5 mm/min
Maximum speed	500 mm/min
Maximum sample weight	500 gr
Dimensions (L·W·H)	327x255x431

The versatility and reliability of ND-R Rotary Dip Coater make it the optimal system for the fabrication of homogeneous nanometric films via dip coating. ND-R Rotary Dip Coater can be used to create coatings by sol-gel, layer-by-layer assembly, self-assembled monolayers, polymeric layers, multilayer structures, biofilms, deposition of antibodies and enzymes and other dip coating techniques. Its broad range of applications includes the fabrication of solar cells, electronic components, sensors, anti-reflection layers, smart coatings, protective layers or biocide coatings. ND-R Rotary Dip Coater has eight dipping positions with independent stirring plates and hot plates. This feature permits to work with different vessels and to obtain multilayers with different compounds.

The user friendly Windows® based software permits to control all the coating process parameters with high accuracy. The user has a full automatized control of the initial and final positions, immersion speed, submersion time, withdrawal speed, drying period and number of cycles. Nadetech®'s software also allows to control and automatize the stirring speeds and the temperature of the vessels. This broad range of settings can be stored for further usage, which guarantees a high reproducibility of the coatings.

Software requirements

Operative system
Windows XP; Windows Vista; Windows 7; Windows 8; Windows 10
Processor
Pentium 400 MHz or equivalent (Minimum) | Pentium 1 GHz or equivalent
RAM
96 MB (Minimum) | 256 MB (Recommended)
Hard Disk
The Installation requires 500 MB of free disk space
Monitor
800x600, 256 colors (Minimum) | 1024x768 high color, 32-bit (Recommended)

https://youtu.be/XjNEqo0BkE0

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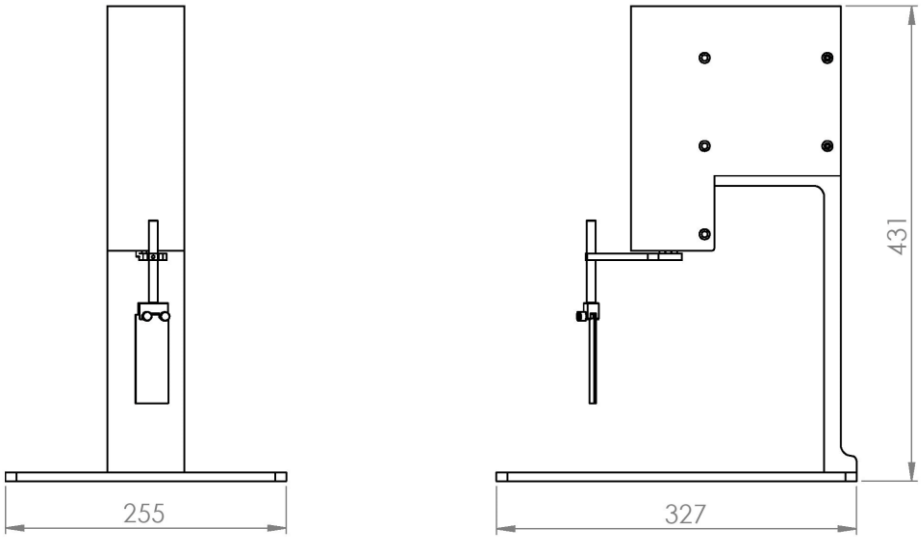
Dimensions



Accessories

ND-R Cabin

Protect the Dip Coater machine from particles and airflow.
Inner USB and Power connexions

ND-R Humidity & Temperature sensor

Precision humidity and temperature sensor
Dust and dirt protected
0-100% RH / -40 to 60ºC

ND-R pH Sensor

pH sensor
Easy installation
0-13 pH range

ND-R Magnetic Stirrer

Speed control software
Stirrer speed up to 1000 rpm
1 to 8 stirrers
Volume up to 1L

ND-R Hotplate

Temperature control software
Maximum temperature 100ºC
1 to 8 hotplates

ND-R Touchscreen

7" Touchscreen
Intuitive software