

ND-2D / ND-3D Multi Axis

Multi axial dip coater for layer-by-layer self-assembly



Nadetech ND-2D and ND-3D Multi Axis Dip Coaters are completely automatized units for multiple layer thin films deposition via dip coating. Multi Axis Dip Coaters are optimized for layer-by-layer self-assembly and can be equipped with sample washing and drying systems that increase performance and reduce cycle time. Their design and programmable software allow to control and automatize every deposition parameter with high precision and reproducibility. Their 2 and 3 degrees of freedom permit to work with multiple vessels, coating compounds, temperatures and dipping sequences, positions and

High precision control	Layer-by-layer self-assembly Optimized Dip coating	Windows® user friendly software	 1 year Warranty
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Technical specifications

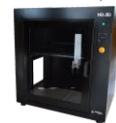
Vertical displacement
Horizontal displacement
Minimum speed
Maximum speed
Maximum sample weight
Dimensions (L-W-H)

ND-2D 11/5



140 mm
400 mm
0.6 mm/min
1000 mm/min
1500 gr
450x856x730

ND-3D 11/6



200 mm
500x250 mm
0.6 mm/min
1000 mm/min
1500 gr
450x856x730

Nadetech ND- 2D & 3D Multi Axial Dip Coater are designed for the deposition of multilayers by layer-by-layer self-assembly technique and other dip coating techniques such as sol-gel and self-assembled monolayers. The ND-2D and ND-3D Coaters have a 2-axis and 3-axis programmable system respectively. One of them controls vertical displacement and the other two, movements on the horizontal plane. This configuration is specifically designed for multistep depositions that require the consecutive immersion in vessels with different solutions and precise dipping parameters. ND-2D and ND-3D can be equipped with sample rinsing and drying systems after each dip, increasing performance and reducing layer-by-layer self-assembly cycle time.

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 both initial and final positions, immersion speed, submersion time, withdrawal speed, drying and washing periods and number of layer-by-layer cycles. Nadetech®'s software also allows to manage and automatize the stirring speeds and the vessel temperatures. This wide range of settings is 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)



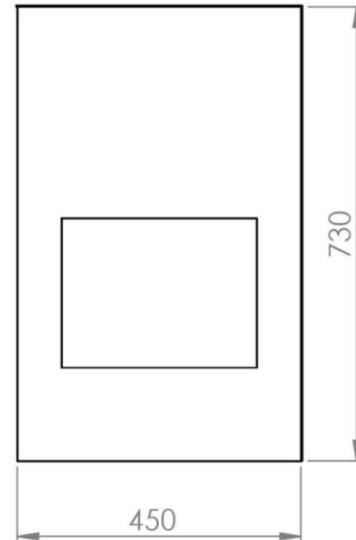
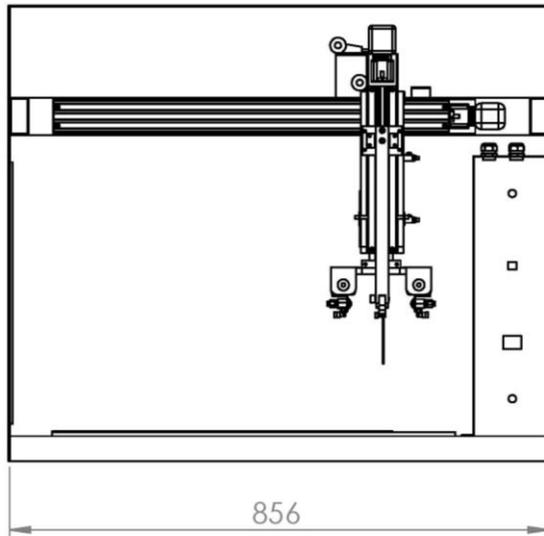
https://youtu.be/pGJ_talFrqw



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Dimensions



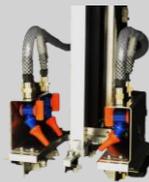
Accessories

ND Sample Washer



Dual water jet in both sides

ND Sample Dryer



Hot air flow in both sides
Cycle time reducing

ND Humidity & Temperature sensor



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

ND pH Sensor



pH sensor
Easy installation
0-13 pH range

ND Magnetic Stirrer



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

ND Hotplate



Temperature control software
Maximum temperature 100°C
1 to 8 hotplates

ND-2D &3D Customized Holder



Multiple configuration sample holder

ND Touchscreen



7" Touchscreen