

ND-R Rotary Dip Coaters

ND-R 11/2

The ND-R rotary dip coater is a controlled system developed for the deposition of multiple layers on different surfaces.



ND-R Rotary Dip coater system

The Nadetech ND-R Rotary Dip Coater is an optimal equipment for the deposition of layers on different surfaces through different deposition techniques such as Layer-by-Layer assemblies, Sol-gel coatings, or Self-assembled monolayers. The ND-R Coater enjoys a 2-axis programmable system. One axis is for vertical displacement and the other for rotation in the horizontal plane. This configuration offers a high versatility for multistep deposition which requires the consecutive immersion in vessels with different solutions in a small space.

The range of immersion and dipping-out speed is very broad, from a minimum speed of 120 microns per minute to a maximum of 2400 mm per second. The vertical axis has a maximum displacement of 90mm and the rotating axis an angular displacement of 360°. Depending on the volume and size of the vessels arranged for the deposition cycles, multi-step immersions in different solutions can be programmed in a single work cycle (e.g. a single 8-steps cycle can be arranged using 8 standard 50 ml beakers). These multi-step work cycles can be also programmed to be repeated as many times as desired.

It is controlled by a user-friendly software based on Windows®, which allows programming different sequences adjusting the dipping parameters of each individual immersion step (immersion speed, withdrawal speed, vertical displacement, substrate initial position, immersion time, drying time) as well as the sequence parameters such as the number and position of the immersions steps in a deposition cycle, number of cycles to be repeated and many others. All these developed sequences can be stored in the PC for its subsequent recovery and use.

Two axis movement

Deposition of multiple layers

Configurable dipping sequence

Intuitive software

USB communication



Technical specifications

ND-DC 11/2 S



ND-R 11/2 F



Vertical displacement	90 mm	90 mm
Horizontal displacement	360 °	360 °
Minimum Dipping Speed	0.12 mm/min	0.6 mm/min
Maximum Dipping Speed	500 mm/min	2400 mm/min
Maximum weight sample	500 gr	500 gr

System requirements

Operative system

Windows Server 2003; Windows Server 2008; Windows XP; Windows Vista; Windows 7

Processor

Pentium 400 MHz or equivalent (Minimum) | Processor 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)

ND-R Rotary Coater Accessories

The ND-DC Rotary Dip Coaters are complemented by a comprehensive range of accessories, all of which are designed to help you get the most from your dip coater. This data sheet explains in more detail the makeup of key accessories and offers technical specifications where required.

- **ND-R Multisample Holder**
- **ND-R Cabin**
- **ND Enviromental Sensors**
- **ND Dissolution Sensors**
- **ND Magnetic Stirrer**

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