**Dip Coater 5**

**Equipment:** Dip Coater 5 with accessories

**No. of Equipment: UFCH18**

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**Equipment Description**

**Description of equipment:**

Dip Coater 5 is design for uniform deposition of layers on plates and similar objects by dipping and dragging into bath with solution.

Dipping cycle include setting of parking position, changing to default position above dipping bath, timing pause before dipping itself, dipping sample into the bath till the lowest position, timing for coating sample in bath and finally elevating sample from bath back to default position.

Dipping cycle cam be set as full automatic or semi-automatic when every step can be perform by operator.

**Specifications and technical features:**

|  |  |  |
| --- | --- | --- |
| **Dipping:** |  |  |
| Range | [mm/min] | 1 – 300 |
| Settings | [mm/min] | 1 |
| Accuracy | [mm/min] | +/- 0.01 |
| **Position:** |  |  |
| Range of shift | [mm rel] | 1000 |
| Settings | [mm] | 1 |
| Relative accuracy | [mm] | +/- 0.1 |
| Absolute accuracy | [mm] | +/- 1 |

**Specification of expertise relevant to NanoEnviCz workpackages:**

**WP4**a,b, **WP6**a-d,f,

**Detailed description of expertise**

**Please, specify the main research topics connected with equipment:**

Dip Coater 5 with accessories is designed for uniform deposition of layers on plates and similar objects. It is designed for coating of tubes and plates by functional coatings. Due to the variety of setting it is possible to change dipping condition and set the proper coating properties.

**Please, specify the secondary research topics connected with equipment:**

Dip Coater 5 with accessories can be used for application of support layers for functional coatings which can not be coated by regular ways.

**Keywords describing research area:**

Dip coating, thin layers, layer thickness controlling

**Competence**

**Relevance for applied and industrial research:**

Plates and tubes with large area can be coated. These plates or tubes can be applied in industry.

**Relevance for fundamental studies:**

Due to the variety of setting it is possible to change dipping condition and set the proper coating properties. These functional layers can be further tested.

**Comments**

Size of plates and similar objects for coating needs to be 1000 mm x 80 mm for fitting into the dip coating box.