

INSTRUCTION MANUAL NANOMAT 4

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1 Introduction

The CAMAG Nanomat 4 serves for easy application of samples onto TLC and HPTLC plates or sheets, precisely positioned and without damage to the layer.

The actual sample dosage is performed with disposable capillaries which are precisely guided by the Universal Capillary Holder.

The Capillary Dispenser serves for loading capillaries from dispenser magazines into the holder.

1.1 Parts supplied Nanomat 4

Part no	Description
022.4730	Nanomat 4
022.4732	Strips of marking sample position pkg. of 10
115.0122	Magnets rods (2)
B022.4730E	Instruction manual

1.2 Parts supplied Capillary Dispenser System

Part no	Description
022.7650	Capillary dispenser (complete)
022.7786	Universal capillary holder
022.7661	Dispenser magazine for 1.0 µL capillaries
022.7771	Capillary pipettes 1.0 µL, pkg. of 5 x 100

1.3 Accessories / Consumables / Spare parts

Part no	Description
022.7655	Capillary dispenser (without accessory)
022.7786	Universal capillary holder
022.7660	Dispenser magazine for 0.5 µL capillaries
022.7661	Dispenser magazine for 1.0 µL capillaries
022.7662	Dispenser magazine for 2.0 µL capillaries
022.7665	Dispenser magazine for 5.0 µL capillaries
022.7770	Capillary pipettes 0.5 µL, pack of 5 x 100
022.7771	Capillary pipettes 1.0 µL, pack of 5 x 100
022.7772	Capillary pipettes 2.0 µL, pack of 5 x 100
022.7775	Capillary pipettes 5.0 µL, pack of 5 x 100
022.4732	Strips of marking sample position pkg. of 10
022.7776	Ejection needle for capillary dispenser

2 Unpacking/Installation

2.1 Nanomat 4

- Unpack the instrument and check the parts supplied
- Place the Nanomat on a flat, smooth surface
- Mount the positioning head in place
- Adjust the Y-coordinate for sample application (distance from lower edge of plate) (1) and tighten screw (2)
- Place a marking strip (3) onto the base plate

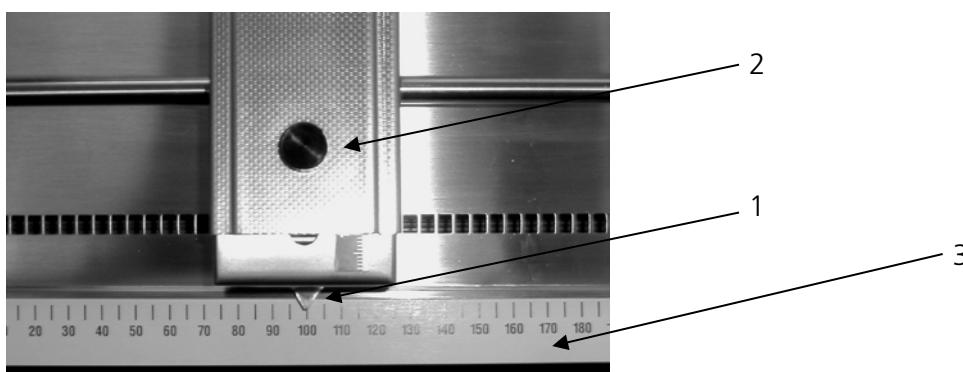


Fig.1: Setting up Nanomat 4

2.2 Capillary Dispenser System

- Unpack the system and check the parts supplied.
- To your liking, you can place the dispenser unit either on its stand or on the base plate of the Nanomat, it is held in place by a strong magnet.

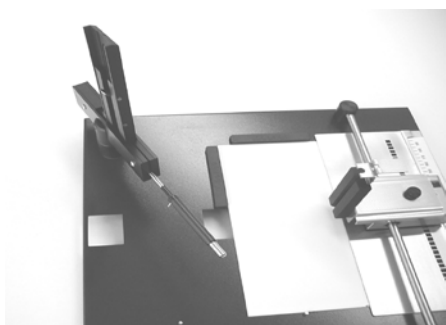


Fig.2: Setting up Capillary Dispenser



Fig.3: Dispenser without Nanomat

2.3 Dispenser magazine

- Place the magazine on the table with its open side upwards
- Push the feeder slide to its end position and lock it by pressing it down
- Pull a belt with capillaries into the magazine the adhesive tape up-wards
- Make sure the capillary size corresponds with that of the magazine (color code)

- Unlock the feeder slide by lifting its end up. The capillaries are now pushed against the stop at the end
- Now pull the adhesive strip off

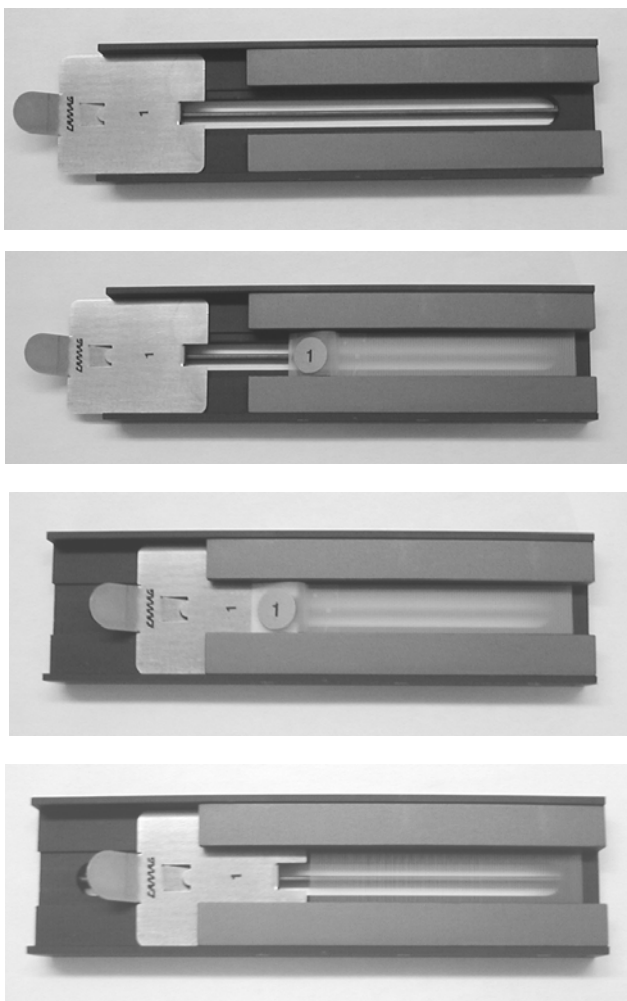


Fig.4-8: Setup of Dispenser Magazine

3 Getting started

3.1 Positioning a TLC-/HPTLC plate or sheet

- Place a TLC/HPTLC plate or sheet onto the base plate. First push it flush against the positioning pin at the side. Secure it in this position with the magnet strips
- Slide the applicator head to the desired position (notches 1-39 at 5 mm stops)
- For your convenience you can mark the positions of samples (standards and unknowns) on the marking strip

3.2 Loading a capillary in the capillary holder

- Insert the magazine with the desired capillary size in the capillary dispenser

Getting started

- Push the Universal Capillary Holder into the dispenser opening until the magazine is flush with the end of the guide rail
- Withdraw the capillary holder. It is now loaded with a capillary

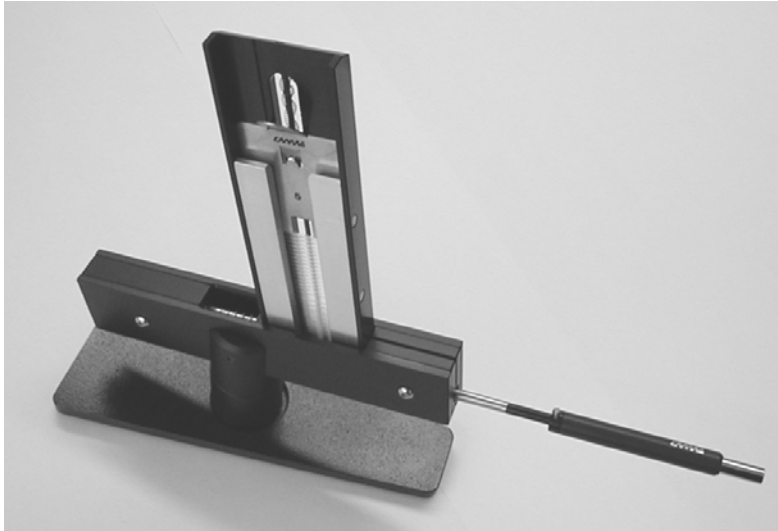


Fig.9: Capillary holder in the capillary dispenser

3.3 Sample application

- Take your sample by dipping the capillary with the help of the holder into the application solution
- Place the universal capillary holder against the applicator head, where it is held in place by magnetic action
- Make sure that its positioning pin (1) engages in the slot of the applicator head
- Push down the lever (2) of the applicator head against its rest. The capillary touches the layer with a constant pressure
- Hold the lever down until the capillary has completely emptied out
- Remove the capillary holder and eject the capillary by pressing the button at the top of the holder

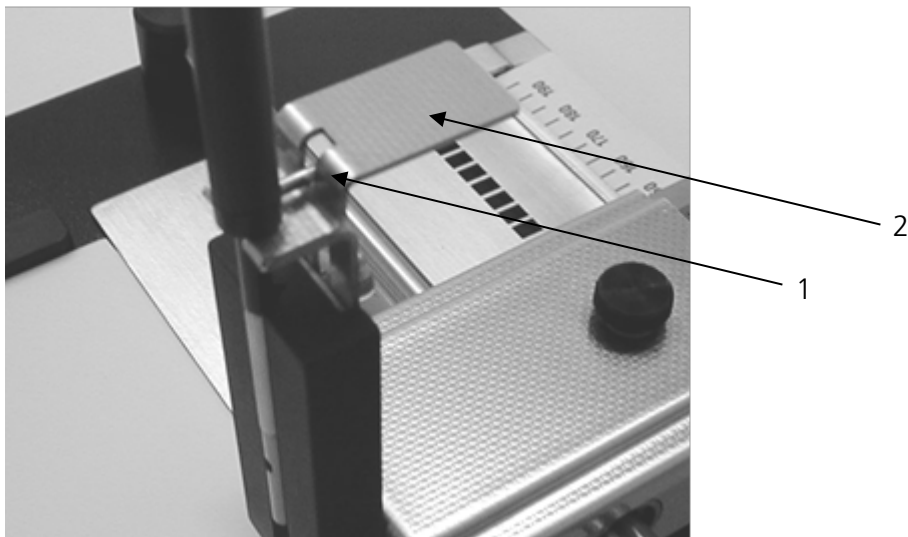


Fig.10: Sample application

4 Maintenance

The Nanomat and the Capillary Dispenser System do not require any maintenance other than keeping both clean.

CAMAG (Switzerland) · Sonnenmattstrasse 11 · CH-4132 Muttenz 1

Telephone +41 61 467 34 34 · Fax +41 61 461 07 02 · E-Mail: info@camag.com

CAMAG (Germany) · Bismarckstraße 27-29 · D-12169 Berlin

Telephone +49 30 516 55 50 · Fax +49 30 795 70 73 · E-Mail: infoberlin@camag.com

CAMAG Scientific Inc. (USA) · 515 Cornelius Harnett Drive · Wilmington, NC 28401

Telephone 800 334 3909 · Fax 910 343 1834 · E-Mail: tlc@camag.com

www.camag.com

EC – Declaration of Conformity

We, CAMAG Chemie-Erzeugnisse und Adsorptionstechnik AG
Sonnenmattstrasse 11
4132 Muttenz
Switzerland

declare under our sole responsibility that the product

CAMAG® Nanomat 4

Product name

022.4730

Article number(s)

to which this declaration relates is in conformity with the
following provisions of directive(s):

- 2001/95/EG
- 2011/65/EU
- 2012/19/EU

Following standard(s) or other normative document(s):

- EN60950-1: 2006

Muttenz, 26 March 2015



Walter Rahm, Head of Quality Management

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