CAMAG®

HPTLC PRO
MODULE APPLICATION

Fully automated application of up to 75 samples as bands onto HPTLC glass plates (20 × 10 cm).

IN A NUTSHELL

PRECISE AND CONSISTENT SAMPLE APPLICATION FOR RELIABLE RESULTS

The HPTLC PRO **Module APPLICATION** is the first fully automated step in the CAMAG HPTLC PRO system, designed to deliver precise, reproducible, and standardized sample application onto HPTLC plates. Using microliter syringe technology, it applies samples as sharp, consistent bands, ensuring optimal separation and quantification.

Seamlessly integrated into the modular HPTLC PRO system, the module can process up to 75 samples per sequence, making it ideal for high-throughput environments. It operates within a controlled setting to reduce contamination risks, while CAMAG's *visionCATS* software provides full digital control, method documentation, and regulatory compliance support.

With automated plate handling and minimal operator intervention, the Module APPLICATION enables consistent, efficient workflows, making it the perfect solution for modern analytical labs in pharmaceutical, botanical, food, and environmental sectors.

- Autonomous application of up to 75 samples
- Spray-on application of samples as bands
- HPTLC glass plates (20 × 10 cm)
- Software-controlled by *visionCATS*

KEY BENEFITS

Highly accurate and reproducible sample application, eliminating variability from manual handling.

Supports high-throughput workflows by processing up to 75 samples per sequence.

Optimized spraying parameters for each sample solvent to ensure clean and precise application zones.

Fully automated within the HPTLC PRO system and *visionCATS* software.

Designed for regulated environments and supports GxP compliance with complete traceability and documentation.

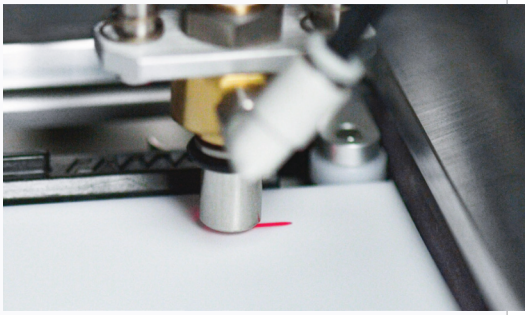
Stand-alone operation or integration in the HPTLC PRO System

HOW IT WORKS

SMOOTH & PRECISE OPERATION

01

The HPTLC PRO Module APPLICATION can autonomously apply up to 75 samples across five different plates. For continuous operation, pair it with the Module PLATE STORAGE, which automatically supplies new plates.

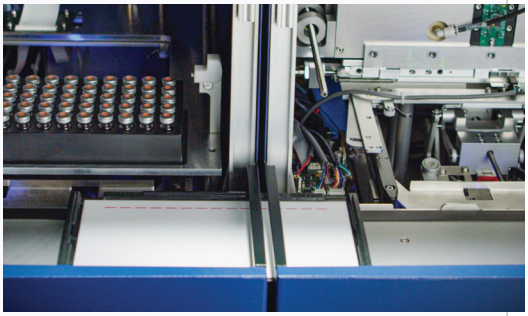


02

Laser-guided sample application ensures the optimal spraying distance. The needle distance and dosage speed adjust based on the solvent used, guaranteeing precise application of samples as narrow bands.

03

To prevent cross-contamination, the syringe creates an effective separation bubble between the rinsing solvent and the sample solution. The syringe is thoroughly cleaned after each sample application.



04

Following sample application, the integrated conveyor transfers the plate from the Module APPLICATION to the Module DEVELOPMENT for further processing.

HPTLC PRO MODULE APPLICATION

TECHNICAL SPECIFICATIONS

Nitrogen or compressed air pressure	5 -8 bar (73 - 116 psi)
Operating temperature	15 - 30 °C
Recommended working temperature	20 - 25 °C
Plate types	HPTLC glass plates 20 × 10 cm
Operating voltage	100 - 240 VAC; 50/60 Hz
Power consumption	40 W
Dimensions (W×D×H)	384 × 550 × 510 mm
Weight	~ 33 kg

WHAT YOU NEED TO GET STARTED

ORDERING INFORMATION

060.2000

CAMAG® HPTLC PRO Module APPLICATION

Can be operated either as stand-alone or as part of the fully automated CAMAG® HPTLC PRO SYSTEM. Allows the autonomous application of up to 75 samples as bands onto HPTLC glass plates (20 × 10 cm). Includes 10 µL Syringe (695.20001-1) and Spray-on needle (695.20000-1), 2 Carriers for HPTLC glass plates (20 × 10 cm), set of bottles for start-up, and Rack for 75 standard 2 mL vials (060.2100).

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