

SpotOn™ - TLC Sample Applicator



The **SpotOn™ TLC Sample Applicator** is a semi-automated device used to apply samples on Thin Layer Chromatography plates. The instrument eliminates the need for manual sample application and can be used to apply up to 18 samples at a time.

The **SpotOn** features:

- Simultaneous dispensing of up to 18 syringes
- Unattended operation with auto shut-off
- Heater strip with digital temperature read-out
- Even movement of drive bar for complete dispensing of all syringes
- Optional syringe craddles for scored or channeled plates

The device can apply samples at variable rates ranging from 3 minutes (fastest speed) to 30 minutes (slowest speed). An integral heater strip runs beneath the TLC plate at the point of sample delivery to aid in solvent evaporation. By adjusting the delivery rate and temperature of the heater strip, the smallest possible sample zone can be obtained. Typical spot sizes are approximately 4-8 mm diameter.

The unit has been designed for use with special TLC syringes made with blunt Teflon® tipped needles. The Teflon on the needle tips minimize sample “creep back” and enhance reproducibility. The syringes also feature Teflon plunger tips to help eliminate the problem of metal-to-glass contamination. Syringes are available in 10, 25, 50, 100 and 250µl volumes.

The frame is made of stainless steel with the top plate being anodized aluminum for greater solvent resistance. The unit is available in 120V and 220V models and can use both 50 and 60 cycle power.

NOTE: Syringes must be purchased separately. The unit does not ship with any syringes included. The unit will operate with as few as one syringe.



The standard syringe support that comes with the system even spaces up to 18 syringes across the bottom of a 20 cm TLC plate. However, as a result of requests from customers with special TLC needs, we have made available two adapter kits.

The Scored Adapter Kit was designed to work with Miles Scientific 10x20 cm scored TLC plates. These plates have scores on the glass every 2.5 cm. This provides the flexibility of either snapping off sections of the plate and developing them individually or developing the whole 10x20 cm plate and later snapping off sections to perform isolated tests. The Scored Adapter Kit aligns up to 16 syringes so that two samples each are deposited on each 2.5x10 section of the scored 10x20 cm plate.

The Channeled Adapter Kit was designed to work with Miles Scientific's channeled TLC plates. These plates have alternating channels of silica (9mm) and clear glass (1mm) to prevent cross contamination and the diffusion of sample components during separation. The Channeled Adapter Kit aligns up to 19 syringes so that there is one centered in each channel on this type of TLC plate.

Overall, this sample application device is very simple to use, has great flexibility, and is built to withstand heavy usage.

Description	Cat No	Price
SpotOn™ TLC Sample Applicator, 110V (no syringes)	A87-30	\$3,985.00
SpotOn™ TLC Sample Applicator, 230V (no syringes)	A87-30i	\$3,985.00
Scored Adapter Kit for SpotOn	A87-301	150.00
Channeled Adapter Kit for SpotOn	A87-302	150.00
250 uL Syringe for TLC SpotOn (discontinued)	A87-35	142.00
100 uL Syringe for TLC SpotOn	A87-34	96.00
50 uL Syringe for TLC SpotOn	A87-33	142.00
25 uL Syringe for TLC SpotOn	A87-32	96.00
10 uL Syringe for TLC SpotOn	A87-31	96.00

SpotOn is a trademark of Miles Scientific. Teflon is a trademark of DuPont. Above prices in effect January 1, 2020.

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