

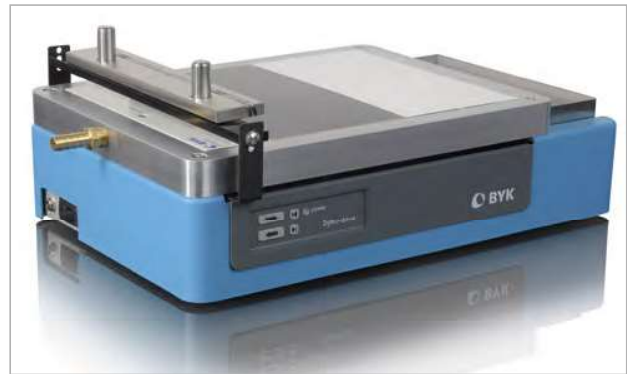
byko-drive

Automatic Film Applicator

The byko-drive Automatic Applicator is an economical film applicator that improves the consistency of drawdowns. When more than one operator is drawing down the same coating or ink, the dry film appearance will vary because of different drawdown techniques. Drawdown speed and pressure on the applicator tool will impact the result. Film thickness, gloss, opacity, and color can vary with differing drawdown techniques.

The byko-drive is available with a vacuum plate or glass plate with clamp. Applicator bars, U-shaped bars, applicator frames, film casting knives, and wire-wound rods are acceptable applicators. The byko-drive has a compact design consisting of a light-weight aluminum chassis and impact resistant thermo-plastic cover.

- User selectable start and stop positions to accommodate different chart sizes
- Power assist carriage return for ease of operation
- Drip pan for faster cleanup
- Weight and bar fixture for consistent pressure on applicator devices
- Small footprint to save on counter space
- Easy to operate user controls
- Adjustable push bar gap clearances



2121 byko-drive V Automatic Film Applicator

Standards

ASTM D 823, D 4147

The byko-drive has two user selectable speeds:

- 10 mm/sec - complies with ISO method 11998
- 1 in/sec - same speed setting as the BYK-Gardner Mechanical Drive



Ordering Information

Cat. No.	Description
2121	byko-drive V
2122	byko-drive G

Comes complete with:

byko-drive
Weight bar (2123)
External power supply
Drip pan
Instruction manual

Note: Applicators and Vacuum Pump must be ordered separately.

Accessories

Cat. No.	Description
3879	Vacuum Pump, 115V
3877	Vacuum Pump, 230V, European plug
3875	Vacuum Pump, 230V, UK Plug
3876	Vacuum Plate S
2129	Weight Bar, 1,362 gm (3.0 lbs)
2123	Weight Bar, 454 gm (1.0 lb)
2128	Weight Bar, 908 gm (2.0 lbs)
2124	Power supply, for byko-drive
2125	Drip pan
2127	Glass plate + clamp
2126	O-ring Set (10 pcs)
2130	Long Push Arm, pair, Adjustable gap

Technical Specifications

Platform	
with vacuum plate	
with glass plate and clamp	
Voltage	100 - 240 V/50 - 60 Hz
Traverse speeds	10 mm/sec or 1 in/sec
Traverse speed accuracy	±5%
Wire bar diameter limits	6 - 19 mm (0.25 - 0.75 in)
Wire bar length maximum	406 mm (16 in)
Stroke length	25 - 235 mm (1 - 9.25 in)
Weight	6 kg (13 lbs)
Test panel size maximum	229 x 305 mm (9 x 12 in)
Dimensions	365 x 229 x 127 mm (14.38 x 9 x 5 in)
Gap between push-bar and plate	3.7 mm, 10.0 mm, 16.4 mm

byko-drive XL

New!

Automatic Film Applicator

The byko-drive XL Automatic Film Applicator has the most flexible design to perform drawdowns of coatings and inks. The dry film appearance is impacted by drawdown speed and pressure on the applicator tool. A programmable speed control from 5 - 500 mm/sec. in 1 mm/sec. increments is standard. Interchangeable weights apply pressure across the entire length of the applicator for a consistent film thickness. The push bar is designed to accommodate a wide variation in wire-rod sizes, applicator bars, applicator frames, and film casting knives. The touchscreen display makes it easy to program the operating parameters: traverse speed, start position, and stroke length. There are six memory locations to save routine settings.

The byko-drive XL has a vacuum plate and glass plate platform versions. The vacuum plate and glass plates are user interchangeable for labs that need both platforms.

- Programmable speeds from 5 – 500 mm/second
- Adjustable push-bar gap clearance for thicker substrates or large height applicators
- Built in vacuum pump with 2 zone vacuum plate (for 2131)
- User definable start position and stroke length to accommodate all drawdown chart sizes
- Weight bar options to change the downward force onto the applicator
- Two year warranty
- CE/UL/CSA certified



Ordering Information

Cat. No.	Description
2131	byko-drive XL, V with vacuum plate
2132	byko-drive XL, G with glass plate

Comes complete with:
byko-drive XL, Weight bar (2135), External power supply, Drip pan, Short instructions, 2-year warranty

Accessoires

Cat. No.	Description
2133	Vacuum Plate, XL
2134	Glass Plate, XL
2135	Push-bar weight, 500 grams
2136	Push-bar weight, 1000 grams
2137	Drip Pan, XL
2138	Screen Protector



byko-drive XL, Vacuum plate version

Standards

ASTM	D 823, D 4147
ISO	11998

- 8 selectable languages: English, German, French, Spanish, Italian, Portuguese, Chinese, Japanese
- Metric and English unit scales engraved on vacuum plate to easily set start position and stroke length
- Convenient applicator storage shelf
- Switchable between metric and English units
- Vacuum plate can be used with an external vacuum source
- Light weight design
- Can accommodate virtually all applicators and wire-wound rods without additional hardware
- Drip pan for easy clean-up

Technical Specifications

Traverse Speed	5 - 500 mm/s (0.2 - 19.6 in/s)
Traverse Speed Accuracy	1% of set speed
Speed Display Resolution	1 mm/s (0.10 in/s)
Wire Bar Diameter Maximum	15 mm (0.6 in)
Wire Bar Length Maximum	600 mm (24 in)
Test Panel Size Maximum	285x438 mm (11.2x 17.2 in)
Stroke Length Maximum	400 mm (15.7 in)
Set-up Memory	6
Gap Clearance between push-bar & plate	2 - 39 mm (0.08 - 1.54 in)
Push-bar Weight	500 grams (up to 1500 grams with optional weights)
Maximum vacuum (2131 only)	0.67 bar (20 inHg)
Vacuum Zones	2
Voltage	100 - 240VAC/50-60 Hz
Dimensions	610x445x204 mm (24.0x17.5x8.0 in)
Weight	17 kg (37.4 lb)