



Automatic Film Applicator Standard

AB4120, AB4220, AB4320, AB4420, AB4400

The Automatic Film Applicator provides a reliable basis to apply coating films to test charts, panels or foils in a uniform and reproducible way in order to eliminate variations caused by human factors. Variations in speed, pressure and direction of draw down cause irregularities. Other factors that may influence the result are the shear rate and the weight of the applicator. It's possible to produce a large number of identical laboratory precision draw downs in a short period of time. The quality of the applied film is important for research on rheological properties of the applied media. To prepare samples for testing rheological properties, abrasion resistance, hiding power and gloss the Automatic film applicator is a must have. Multiple types of automatic film applicators are available for either glass/paper/metal substrates or foils.

Business

Coating Laboratories, Paint Production, Surface Finishing, Powder Coating.

Standards

ASTM D823

Feature

- Charts up to A3 and scrub size max.
- Compatible with a large range of application tools
- Drying Time Recorder option
- Preset range option
- Easy intuitive operating interface with Triple i Control (Intelligent Illumination Interface)
- Paper Clamp / Vacuum manually operable
- Full color display
- Easy to update software

Scope of supply

- Automatic Film Applicator Standard
- 24V Adapter
- Manual
- Wire Bar Weight

Only supplied with AB4120:

- Glass Bed

Only supplied with AB4220:

- Perforated Vacuum Bed

Only supplied with AB4320:

- Double Channel Vacuum Bed

Only supplied with AB4000:

- Heated Perforated vacuum bed

Specifications

Technical Data

Traverse speed	0.1 - 500 mm/s
Traverse speed accuracy	+/- 1% of set speed
Stroke length	50 - 430 mm / 1.97 - 16.34 in
Stroke length accuracy	+/- 2 mm / +/- 0.08 in
Max. test chart size	515 x 300 mm / 20.28 x 11.81 in
Max. test chart thickness	9 mm / 0.35 in
Max. thickness of test substrate	35 mm / 1.38 in incl. coating
Max. vacuum area	DIN A3 / Scrub
Automatic vacuum areas	DIN A5, DIN A4, DIN A3, Scrub
Wire bar spiral area	max. 325 mm / max. 12.8 in
Min. Wire bar length	345 mm / 13.58 in
Max. Wire bar diameter	0 mm / 0.39 in at fixation points
Width alternative applicators	max. 300 mm / max. 11.81 in
Height alternative applicators	10 - 80 mm / 0.39 - 3.15 in

Dimensions and Weight

Depth	490 mm / 19.29 in
Width	640 mm / 25.2 in
Height	290 mm / 11.42 in
Net weight	33 kg

Basic Unit

Power supply	100 - 240 V / 50 - 60 Hz
Power consumption	max. 50 W
Display	480 x 272 pixel TFT display
Controls	5-button navigation Mouse keyboard (optional)
Menu languages	English, Spanish, Chinese, Polish, German, French, Italian, Japanese, Russian

Use

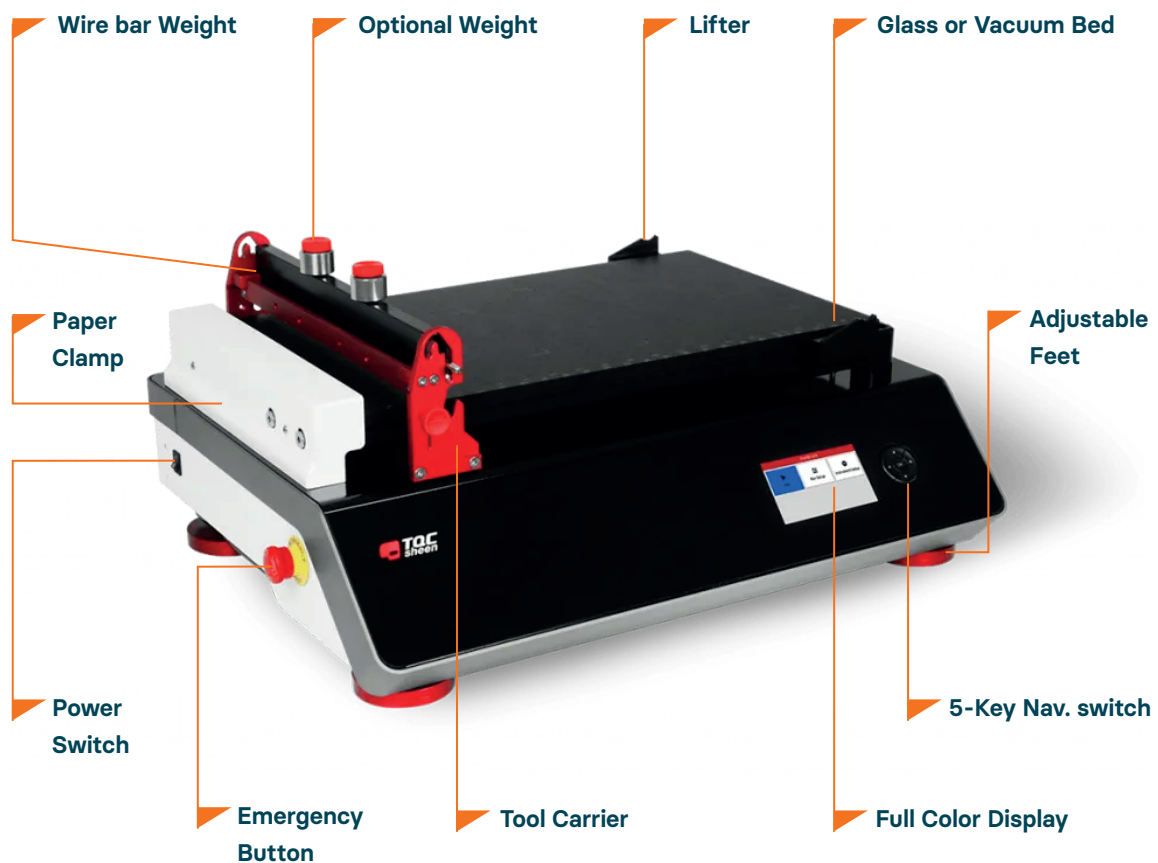
The Automatic Film Applicator Standard has a Triple i controlled running operation. Check the manual for full details.

Special care

- Always clean the instrument after use.
- Do not use compressed air to clean the instrument.
- Never perform repairs or service to the instrument yourself. This should be done by TQC Sheen or selected distributors.

Safety Precautions

- Always make sure the instrument is connected to an earthed socket.
- Maintenance and inspection should be carried out at the correct intervals.
- Operating personnel should be informed before starting with maintenance or repair work.
- Always make sure the instruments power is turned off and the instrument is not connected to a socket while adjusting any electrical component whenever maintenance, inspection or repair work is done.
- Do not open the instrument. In case of malfunction always consult the manufacturer.



Ordering information

AB4120 Automatic Film Applicator Standard (Glass Bed)

AB4220 Automatic Film Applicator Standard
(Perforated Vacuum Bed)

AB4400 Automatic Film Applicator Standard
(Heated Perforated vacuum bed)

AB4320 Automatic Film Applicator Standard
(Double Channel Vacuum Bed)

AB4420 Automatic Film Applicator Standard
(Combined, without Bed)

Tools

AB3075 Grindometer Tool

AB3090 Hardness Pen Tool

AB3500 Drying Time Recorder Tool

AB4600 Block Applicator Weight

A large range of applicators is suitable for the Automatic Film Applicator Standard. For more information about the applicators we refer to our website.

Accessories

AB4000 SBR rubber place mat, 70 shore A

AB4130 Glass Bed

AB4200 Perforated vacuum bed

AB4205 Perforated vacuum bed (Stainless steel)

AB4300 Double channel vacuum bed

AB4305 Double channel vacuum bed (Stainless steel)



AB4120



AB4220



AB4400

Contact Details

web. www.industrialphysics.com

email. info@industrialphysics.com

email. info-ic@industrialphysics.com