Automatic Film Applicator Standard

(AB4120, AB4220, AB4320, AB4420)

Product Description

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.

Features

- 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

Business

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

Standards

ASTM D823

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

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:	10 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

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Ordering Information

AB4120	Automatic Film Applicator Standard
	(Glass Bed)
AB4220	Automatic Film Applicator Standard
	(Perforated Vacuum Bed)
AB4320	Automatic Film Applicator Standard
	(Double Channel Vacuum Bed)
AB4420	Automatic Film Applicator Standard
	(Combined, without Bed)

Accessories

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.

Spare Parts

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)

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.

Disclaimer

The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

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