

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.

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

Specifications

Technical Data

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|--------------------------------------|--------------------------------------|
| 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.

Disclaimer:

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 from 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.

Ordering information

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|---------------|--|
| 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

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|---------------|---------------------------|
| 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

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|---------------|---|
| 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) |



TQC Sheen

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