

**BAKER FILM APPLICATOR** vF2145, vF2146, vF2147, vF1500, vF1501, vF1502, vF1510, vF1515, vF1560, vF1520, vF1521, vF1522, vF1523, vF1525, vF1526, vF1527, vF1528

# **PRODUCT DESCRIPTION**

Cylindrical film applicator with 4 application sides for application of paint-films of 4 different pre-defined thicknesses. The Baker applicator's are available in film width 60 mm and 80 mm and are suitable for applying a host of different products onto flat and relatively solid substrates. Since it's made out of high-grade stainless steel, the Baker Film Applicator will not be affected by acid or base elements.

### **BUSINESS**

Coating Laboratories, Paint Production

## **STANDARDS**

ASTM D 3022 ASTM D 823 Look up the appropriate standard for a correct execution of the test.

## SCOPE OF SUPPLY

- TQC Baker Film Applicator
- Protective plastic case
- Calibration certificate

### **ORDERING INFORMATION**

- VF2145 TQC Baker applicator 60mm, 15/30/60/90μm
- VF2146 TQC Baker applicator 60mm, 30/60/90/120μm
- **VF2147** TQC Baker applicator 60mm, 50/100/150/200μm
- VF1500 TQC Baker film applicator 80mm, 15/30/60/90μm
- **VF1501** TQC Baker film applicator 80mm, 30/60/90/120μm
- VF1502 TQC Baker film applicator 80mm, 50/100/150/200µm
- $\label{eq:VF1510} FQC \ Baker \ film \ applicator \ width \ 60mm, 4 \ gaps \ as \ desired, \ Max. \ gap \ size \ 3000 \mu m$
- VF1515 TQC Baker film applicator width 80mm, 4 gaps as desired, Max. gap size: 3000µm
- **VF1560** TQC Baker film applicator width 80mm, 2x90µm / 2x150µm (special diameter: 18mm instead of 27mm)
- VF1520 TQC Baker film applicator width 100mm, 4 gaps as desired
- VF1521 TQC Baker film applicator width 100mm, gaps 15/30/60/90µm
- VF1522 TQC Baker film applicator width 100mm, gaps 30/60/90120µm
- VF1523 TQC Baker film applicator width 100mm, gaps 50/100/150/200µm
- VF1525 TQC Baker film applicator width 150mm, 4 gaps as desired, Max. gap size: 3000µm

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DATASHEET





- **VF1526** TQC Baker film applicator width 150mm, gaps 15/30/60/90μm
- **VF1527** TQC Baker film applicator width 150mm, gaps 30/60/90120μm
- VF1528 TQC Baker film applicator width 150mm, gaps 50/100/150/200µm

## ACCESSORIES

AB3120	TQC motorized automatic film applicator with glass bed and combined attachment assembly for standard block applicators and spiral bar coaters, 230V
AB3125	TQC motorized automatic film applicator with glass bed and combined attachment assembly for standard block applicators and spiral bar coaters, 100V
AB3220	TQC motorized automatic film applicator with perforated vacuum bed, built-in vacuum pump and combined attachment assembly for standard block applicators and spiral bar coaters, 230V
AB3225	TQC motorized automatic film applicator with perforated vacuum bed, built-in vacuum pump and combined attachment assembly for standard block applicators and spiral bar coaters, 100V
AB3320	TQC motorized automatic film applicator with double channeled vacuum bed, built-in vacuum pump and combined attachment assembly for standard block applicators and spiral bar coaters, 230V
AB3325	TQC motorized automatic film applicator with double channeled vacuum bed, built-in vacuum pump and combined attachment assembly for standard block applicators and spiral bar coaters, 100V
AB3400	TQC motorized automatic film applicator with heated vacuum bed, built-in vacuum pump and combined attachment assembly for standard block applicators and spiral bar coaters 230V
AB3405	TQC motorized automatic film applicator with heated vacuum bed, built-in vacuum pump and combined attachment assembly for standard block applicators and spiral bar coaters 100V
AB3420	TQC motorized automatic film applicator 230 VAC (without application bed*) Vacuum pump + automatic clamp unit included. Please order glass bed, perforated vacuum bed, and/or double channel vacuum bed separately.

\*Though not included, both the glass bed, and the perforated and double channel vacuum bed will fit. AB3100 Glass bed\*\*; AB3200 Perforated vacuum bed\*\*; AB3300 Double channel vacuum bed \*\*(only to be used with AB3420)

- **VF1601** TQC Application Table 380 x 230
- **VF1602** TQC Application Table 230 x 160
- VF2343 TQC Test charts A6, White/Black B+, with optical brightner, 250pcs
- **VF2344** TQC Test charts A5, White/Black B+, with optical brightner, 250pcs
- **VF2345** TQC Test charts A4, White/Black B+, with optical brightner, 250pcs
- VF2346 TQC Test charts A5, Black/White chequered B+, with optical brightner, 250pcs
- **VF2347** TQC Test charts A4, Black/White chequered B+, with optical brightner, 250pcs
- VF2354 TQC Test charts A3, Black/White chequered B+, with optical brightner, 250pcs
- VF2317 TQC Test charts A6, White/Black B-, without optical brightner, 250pcs
- VF2319 TQC Test charts A5, White/Black B-, without optical brightner, 250pcs
- **VF2321** TQC Test charts A4, White/Black B-, without optical brightner, 250pcs
- VF2323 TQC Test charts A5, Black/White chequered B-, without optical brightner, 250pcs
- VF2325 TQC Test charts A4, Black/White chequered B-, without optical brightner, 250pcs

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## SPECIFICATIONS

Material	: DAIDO 440C medical grade Martensitic stainless tool steel. Sub Zero Vacuum hardened (+1756°C to -70°C), hardness HRC 55 (through hardened*) & tempered.
Accuracy	: polished : ± 2 μm. : better than 3 micron : 100 x 22 x 22 mm / 120 x 22 x 22 mm

\*Through hardening versus Case-hardening or surface hardening.

Through-hardening means the metal uniformly is hardened throughout the piece. Case- or surface (face / frame) hardening only hardens the top layer of the metal. Once the top layer is degraded excessive wear and tear will occur on the product limiting its life time and affecting accuracy.

### USE

Select the appropriate gap and place the applicator on a plane smooth surface such as a glass plate. Apply a sample of paint in the centre of the TQC Baker applicator near the correct opening.

Draw down the applicator over the surface.

Due to physical reasons the max. film attainable wet film thickness is not equal to the gap depth.

Deposited film thickness may vary from 40% to 80% of the clearance/gap depth. Dry film thickness will be lower than wet thickness due solvent/water evaporation.



# SPECIAL CARE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Only use non-corrosive solvents to clean the instrument. Use a soft, non-abrasive cloth to dry it.
- Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- When stored for a long period of time, wrap the instrument in oil paper
- We recommend annual calibration.

### 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

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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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