

# Automatic Film Applicator (250 mm) with heating; including vacuum bed

**BGD 218-3**

## Product Description

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BGD 218-3 Automatic Film Applicator (250mm) with heating function

The automatic film applicators, models BGD 218 and BGD 219, provide chemists with a convenient tool for precisely applying coating films on various substrates. This automation reduces and eliminates errors associated with manual processes. The key factors influencing the draw-down process include the shear rate and downward force applied to the applicator tool. The automatic film applicator significantly enhances the reproducibility of paint films.

BGD 218-3 offers additional heating (Temperature Range: RT+5°C–100°C) for ease of application of higher viscous products.



## Technical Specification

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Differentiating from traditional products, the BGD 218 and BGD 219 models offer the following features:

- Adjustable variable speed: 5mm/s ~ 500mm/s
- High precision linear guide bar ensuring stable draw-down speed
- Adjustable height of the applicator pusher to accommodate different substrates
- Well-designed bracket for easy and straightforward operation, suitable for easily bent substrates with the ability to add any load during application
- Freely set starting points, making it suitable for substrates of different sizes
- Four selectable application distances
- Compatible with all Solvica's applicators and wire bars of different types and size
- Improved repeatability for film application:
  - For BGD 218: Special precise machining vacuum suction-glass plate with high smooth precision (whole plate flatness less than 5 microns) and special hardening treatment, ensuring smooth and tight adsorption of various substrates.
  - For BGD 219: Special precise machining glass plate with high smooth precision (whole plate flatness less than 20 microns), easy to clean.
- Optimal design for the vacuum plate to ensure uniform suction power (only for BGD 218).

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- External vacuum pump eliminates all vibrations by placing the pump outside the machine (only for BGD 218).

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### Main Technical Parameters

Model	BGD 218/1	BGD 218/2	BGD 218/3	BGD 219
Method of fixing substrate	Vacuum adsorption			Clamp
Application Platform	Hard anodic oxidation aluminium with vacuum holes			Glass
Draw down bed size (mm)	360 x 250	490 x 250	360 x 250	400 x 220
Draw down vacuum bed size with holes (mm)	290 x 190	410 x 190	290 x 190	N/A
Max. Application Length (mm)	250	375	250	280
Adjustable Draw Down Speed	5mm/s~500mm/s		2mm/s~100mm/s	5mm/s~500mm/s
Carriage holder weight	500g x pcs (1kg or 1.25 kg is optional)			
Total power	370W		750W	50W
Temperature Range	-		RT+5°C~100°C	-
Temperature Uniformity	-		±5°C	-
Power Source	220V/50Hz			
Weight (kg)	40	46	42	25
Overall size, excluding vacuum pump LxWxH (mm)	500x345x340	635x345x340	500x345x340	550x320x340

### Accessoires

- BGD 205-Series - BGD 205 - Four-sided applicators - 160 mm width
- BGD 212 Series - BGD 212 Wire Bar Coaters: Width 200mm, Ø10mm

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### **Disclaimer**

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