

Automatic Film Applicator

Automatic Film Applicator enables experimental chemists to conveniently draw down precise coating film on the different substrates so as to reduce and eliminate errors caused by manual factors. Factors affecting the draw down are the shear rate and downward force applied to the applicator tool. It greatly improves the reproducibility of paint film.

BGD 218 and BGD 219 are the newest automatic film applicators, comparing the traditional products, they have:

- ◆ Wide-range stepless speed regulation: 5mm/s ~500mm/s
- ◆ High precision linear guides to ensure the draw down speed be more stable.
- ◆ The push rod can self-adapt to substrates of different thicknesses (0-20mm, S-type).
- ◆ The substrate clamping fixture can be repositioned based on test panel dimensions, adapting to various substrate sizes.
- ◆ Detachable platform design for easy replacement and cleaning of various platforms (S-type only).
- ◆ The meticulously designed coating film holder simplifies operation and allows flexible load capacity expansion to accommodate easily bendable test panels
- ◆ Can set the starting point freely, is suitable for different size substrates
- ◆ Applicable to all Biuged's different type and size applicators and wire bars
- ◆ Better repeatability for applying film:

For BGD 218: special precise machining vacuum suction-gas plate with high smooth precision (Whole plate 's flatness is less than 5 micron) and special hardening treatment, ensure all kinds of substrat could be adsorbed smoothly and tightly.

For BGD 219: Special precise machining glass plate with high smooth precision (Whole plate 's flatness is less than 20 micron),easy to clean.

- ◆ Optimal design for vacuum plate to ensure suction power is distributed uniformly (only BGD 218).
- ◆ External vacuum pump eliminate all shake coming from traditional structure (put pump into machine) (only BGD 218).



BGD 218/1(2)S



BGD 218/3



BGD 219/S

Ordering Information → Technical Parameters ↓	BGD 218/1S (Touch screen)	BGD 218/2S (Touch screen)	BGD 218/3 (With Heating)	BGD 219/S (Touch screen)
Method of Fixing Substrate	Vacuum adsorption			Clamp
Applying Platform	Hard anodic oxidation aluminum with vacuum holes			Glass
Draw down Bed Size	340mm × 250mm	470mm × 250mm	360mm × 250mm	340mm × 250mm
Vacuum Bed Size with Hole	290mm × 190mm	410mm × 190mm	290mm × 190mm	---
Max. application length	310mm	430mm	250mm	310mm
Applying Distance	Settable freely		25%~50%~75%~100%	Settable freely
Adjustable Draw down Speed	5mm/s ~ 500mm/s			
Carriage Holder Weight	500g × 2 (1KG or 1.25KG is optional)			
Total Power	370W		750W	50W
Temperature Range	----		RT+5°C ~ 100°C	---
Temperature Uniformity	----		± 5°C	---
Power Source	220V; 50Hz			
Weight	26KG	35KG	42KG	25KG
Overall Size (No vacuum pump) (L × W × H, mm)	560 × 360 × 230	690 × 360 × 230	500 × 345 × 340	560 × 360 × 230

Note: Biuged also customize this machine with heating function