

LED UV Solidify Machine 365nm; 100x400mm

BGD 8400-A

Product Description

Compared to traditional ultraviolet (UV) solidifying machines that use mercury or gallium lamps as light sources, solidifying machines that use LED as a light source have several distinct advantages, including a longer lifetime, environmental friendliness (no ozone production), energy efficiency, and no significant heat emission during operation.

Currently, LED light sources with wavelengths of 365 nm and 395 nm are primarily used. At these wavelengths, the light emission intensity of LEDs is much higher than that of mercury lamps, which is beneficial for the deep curing of UV materials. At the same time, the heat generated by LED lighting is dissipated from the back, with no heat on the emitting side, thus avoiding any temperature effects on the curing materials.

Furthermore, LEDs emit narrow-bandwidth light, which allows for precise curing (including the precise curing of specific parts of materials, such as in 3D printing, or by adjusting the irradiation distance to achieve a specific degree of curing of the material).



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Technical Specification

Technical Items → Ordering Information ↓	BGD 8200/A	BGD 8200/B	BGD 8400/A	BGD 8400/B
Wavelength	365 nm	395 nm	365 nm	395 nm
Lighting Size	100 mm × 200 mm	100 mm × 400 mm	100 mm × 200 mm	100 mm × 400 mm
Belt Width	200 mm (Teflon)	400 mm (Teflon)	200 mm (Teflon)	400 mm (Teflon)
Moving Speed	0.5 m/min ~ 8 m/min (adjustable)			
Irradiance Energy* (mW/cm ²)	800 (UVA); 230 (UVV)	60 (UVA); 1200 (UVV)	800 (UVA); 230 (UVV)	60 (UVA); 1200 (UVV)
Adjustable Power	10% ~ 100% (knob type)			
Lighting Distance	10 mm ~ 100 mm (adjustable)			
LED Lifetime	20,000 h			
Heat Dissipation	Forced-air cooling			
Power Supply	AC 220 V, 50 & 60 Hz			
Total Power	500 W	1000 W	500 W	1000 W
Overall Size (L×W×H)	1000 × 410 × 660	1000 × 610 × 790	1000 × 410 × 660	1000 × 610 × 790
Remarks	* Data measured with UV Power Puck II (EIT, USA) at 20 mm distance. Peak ranges: UVA 320–390 nm; UVV 395–445 nm.			

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Main Technical Parameters

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