



Powder 3D Printer PB-600 / PB-400



Specifications		
Model	PB-600	PB-400
Build Technology	Binder Jetting Method	
XY Resolution (dots per inch)	600 x 600 dpi	
Layer Pitch	0.1 mm	
Build Speed	35 seconds/layer	45 seconds/layer
Build Size	Width	Max. 595 mm
	Depth	Max. 600 mm
	Height	Max. 250 mm
Powder Materials	Ceramic Powder	
Binder	Water-Based Liquid Binder	
Environment	During operation	Temperature: 20°C to 24°C, Humidity: Max. 50%RH (no condensation) 20°C, and small temperature changes are recommended
	Not operating *	Temperature: 5°C to 40 °C, Humidity: 20% RH to 80% RH (no condensation)
Distance Accuracy (with correction)	Error of less than ±0.3% of distance travelled or ±0.5 mm, whichever is greater	
Dimensions (Width x Depth x Height)	3,150 mm x 1,344 mm x 1,900 mm excluding PC arm stand	1,709 mm x 970 mm x 1,382 mm excluding PC arm stand
Weight	1,200 kg	430 kg
Power Supply	AC 230V Single Phase 16A	
Included items	User's Manual, Slice Software, PC for Printer Control Software and Monitor, etc.	

* The condition during operation is applied when powder is filled.

Options		
Model	PM-14C	PL-20C
Description	Ceramic powder, 14 kg	Liquid binder, 20L Bottle

System requirements for Slice Software	
Operating system	Windows 10/11
Processor	Core i5 Generation 8 or more
Memory (RAM)	8 GB or more
Video card and monitor	NVIDIA GeforceRTX 3060 or more (Pro graphics card not supported)

General workflow and main ancillary equipment



Software: 3D CAD/3D software, such as Rhinoceros 3D that can generate STL files.

Depowdering machine/facilities: Equipment that blows off ceramic powder.

Dedicated room: For the Powder 3D Printer and powder removal.

Vacuum Impregnation machine: Decompression equipment to saturate impregnant.

Firing furnace: Firing furnace to solidify objects at high temperature.

Dust collector: To collect powder materials from the moulding tank and remove dust from inside and outside the product.

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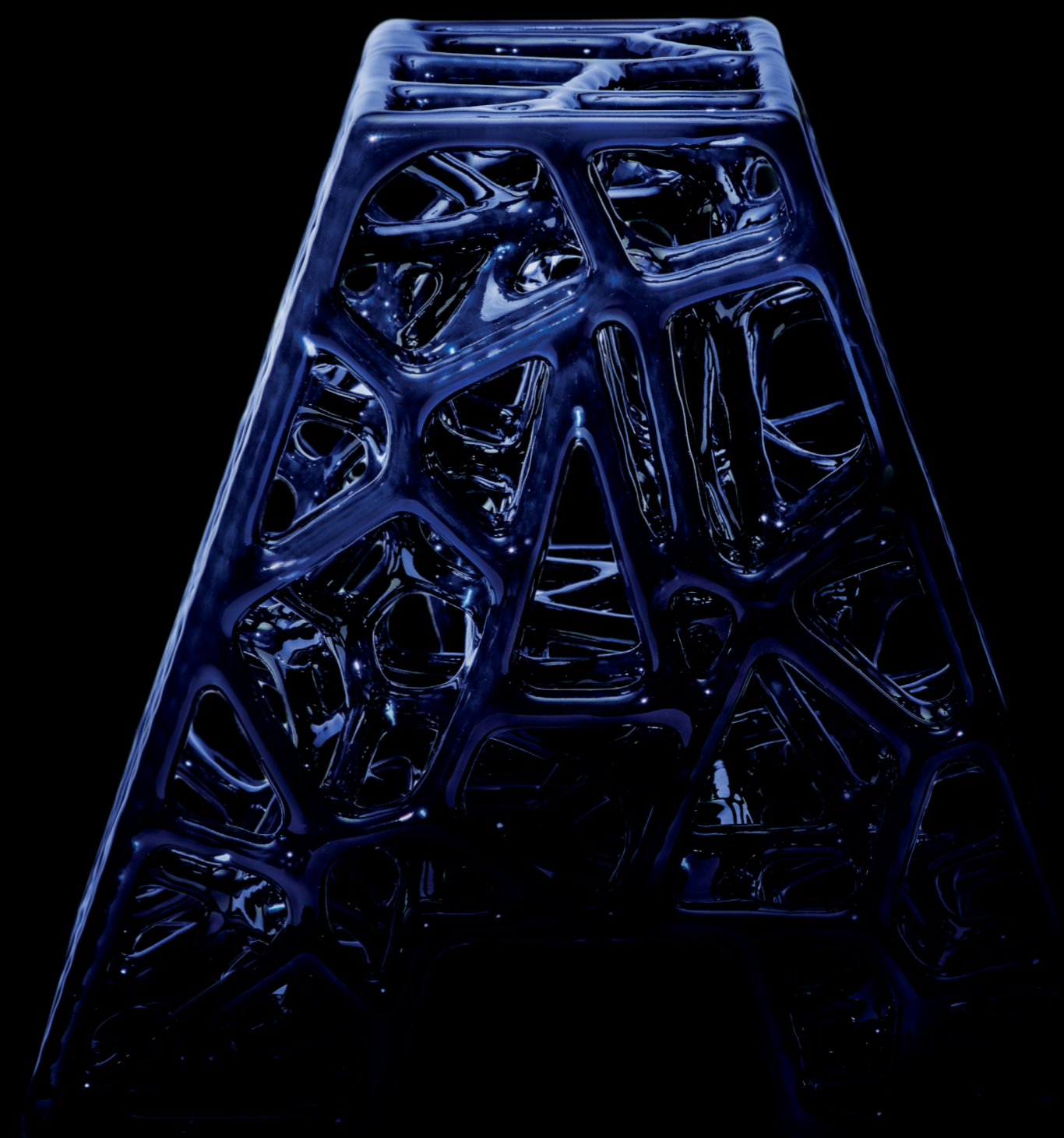
AUTHORISED DEALER:

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Eye-catching wall decoration



One-of-a-kind vases



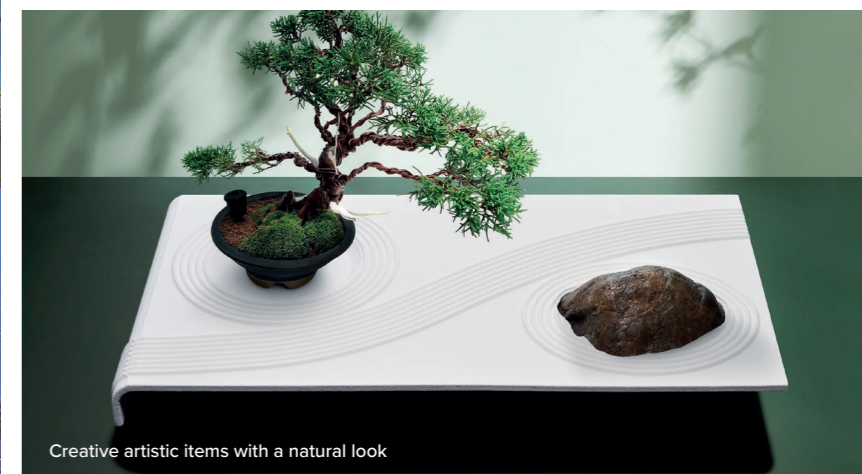
Impressive modern stone pagoda



Intricately designed interior decoration



Incense burner for a serene space



Creative artistic items with a natural look

Ceramic Expression Beyond Imagination

The PB-600/PB-400 binder jet Powder 3D Printer series produces creative and complex three-dimensional objects in high definition, beautifully and efficiently. Its artistic and elaborate expressive power expands creative possibilities and brings innovation to the manufacturing process of ceramic products.

CREATIVITY

The PB series is a binder jet 3D printer that creates three-dimensional objects by ejecting liquid binders from the print head and layering ceramic powder, fixing it layer by layer. It allows anyone to easily produce intricate shapes that were once only achievable by skilled craftsmen, as well as complex models that cannot be manufactured by hand or traditional milling machines.

PRODUCTIVITY

The PB-600 has a maximum work size of 595 (W) x 600 (D) x 250 (H) mm, while the PB-400 has a maximum work size of 390 (W) x 290 (D) x 200 (H) mm. By laying out several different modelling objects, a large object or several smaller ones can be produced at once. Powder material remaining in the main unit after output can be reused for the next modelling task for low-cost operation.

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PRECISION

Brightorb, a special ceramic powder, consists of fine particles to produce excellent performance with less than 1% shrinkage during firing, which is essential for ceramic modeling. In addition, the PB series layers the fine material at the optimum thickness to create complex objects with high precision and a beautifully smooth finish.



OPERATION

The printer includes slicing software that converts 3D data created with 3D CAD or 3D CG software into output data. It can also be operated intuitively from a monitor attached to the product itself, making it easy even for first-time users.