

POLYSHOT SURFACING



DYEMANSION POWERSHOT S

The leading blasting system for end-use parts with a superior finish

The most efficient surfacing technology to achieve end-use parts

Our proprietary PolyShot Surfacing (PSS) is non-abrasive and works perfectly for hard plastics like PA12 or PA11 across all geometries. Shooting beads accelerated with compressed air equalizes the peaks and lows of the surface, achieving a more homogenous part quality. With a cycle time of only 10 minutes and a capacity of a mid-sized build job per run, the Powershot S works very cost-effectively. Unlike time-consuming abrasive methods like tumbling, PolyShot Surfacing increases your productivity and part quality significantly.

Semi-gloss surfaces with ideal properties: The foundation for superior coloring results

We believe PolyShot Surfacing to be the main basis for maximizing coloring results. The Powershot S delivers unique semi-gloss looks and pleasant haptics for almost every 3D-printed end-use product. Being heavily used since 2016 in various industries, it set totally new quality standards due to enabling the results of improved scratch resistance and homogenous finishes. This is particularly important for further processing steps, like our DeepDye Coloring.

Advanced operator convenience with enhanced ergonomics and process control

Experience a new level of process control with a touchscreen and integrated control-panel. The Powershot S is being operated through a userfriendly interface and pre-installed programs can be started. Individual programs can be configured and saved easily, enabling a fast adaption to your application. With a user-centric design everything can be easily accessed and operated safely. Continuous monitoring allows an efficient and reproducible process.

TECHNICAL DATA

POWERSHOT S



AUTOMATION

Individual programming, control and monitoring of process parameters via control panel and touch screen

PERFORMANCE

Cycle time	Variable from 1 to 40 minutes, typically 5 to 15 minutes
Capacity per run	Mid sized build job (e.g. 3/4 of EOS P396 or full HP Jet Fusion 4200/5200)
Volume of basket (actual/effective)	100 liters / 26 liters
Dimensions of basket	∅ 600mm x 450mm 23.6inch x 17.7inch

DIMENSIONS

System (L x W x H)	1700mm x 1310mm x 2030mm 66.9inch x 51.6inch x 79.9inch
Recommended space requirement in operation (L x W x H)	2500mm x 2915mm x 2300mm 98.4inch x 114.8inch x 90.6inch

WEIGHT

System	480kg 1058lb
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POWER

Supply Requirements	1kW 400V, 50Hz, 16A or 208V, 60Hz, 20A
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COMPRESSED AIR

Consumption ¹	Minimum: 1.8m ³ /min at 5bar 64cfm at 73psi Maximum: 2.5m ³ /min at 7bar 88cfm at 101psi
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NOISE EMISSION

Sound level	< 80dB(A)
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Stainless steel cabinet

2x Flat-jet nozzles

2x Borcabid nozzles

1x Ionization unit

¹To ensure that the machines are fully functional, DyeMansion recommends to configure the compressed air system for maximum consumption.

²Deviations possible depending on system variant.

CERTIFICATION²

CE | 2006/42/EG