

POLYSHOT SURFACING

**DYE
MANSION**



DYEMANSION POWERSHOT S

The most efficient surfacing technology for end-use parts with superior coloring results

The most efficient technology to achieve an end-use part finish

Our automated mechanical PolyShot Surfacing (PSS) is the most efficient process on the market to achieve the best end-use part finish. It does not remove any material and works perfectly for hard plastics like PA12 or PA11 across all geometries. 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. Using our automated PolyShot Surfacing, instead of time-consuming abrasive methods like tumbling, increases your productivity and part quality significantly.

Matt-glossy surfaces with pleasant haptics and improved properties

PSS delivers a unique matt-glossy look and pleasant haptics for the majority of 3D-printed end-use applications. Launched in 2016, it set a totally new quality standard and is well-established in various industries already: From perfect fit eyewear to personalized car interiors. Especially in the consumer sector and for many technical applications the improved scratch resistance and soft haptics lead to higher wearing comfort and an extended product life cycle.

The key to maximum coloring results

We believe PolyShot Surfacing to be the main basis for maximizing coloring results. Shooting beads accelerated with compressed air equalizes the peaks and lows of the surface, achieving a more homogenous part quality. The pores are closed during the process and the result is a significantly improved, uniform surface. This is particularly important for further processing steps, such as chemical dyeing techniques in a water bath. The dyes are taken up much more homogeneous from the base material.

TECHNICAL DATA

POWERSHOT S



PERFORMANCE

Cycle time	Variable, 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)

DIMENSIONS¹

System (L x W x H)	1665mm x 1300mm x 2100mm 65.6inch x 51.2inch x 82.7inch
Recommended space requirement for operations (L x W x H)	2465mm x 2915mm x 2300mm 97.0inch x 114.8inch x 90.6inch

WEIGHT¹

System	520kg 1146lb
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POWER

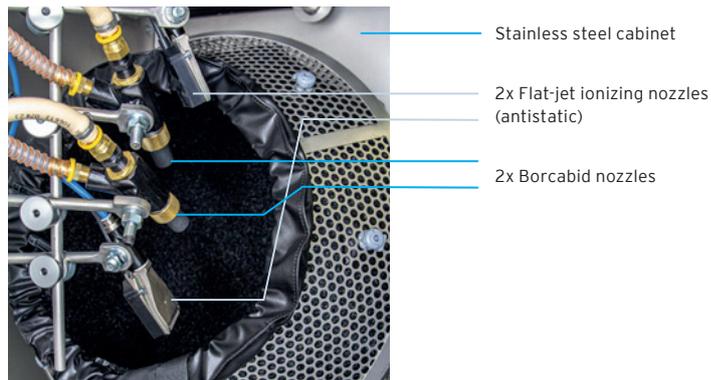
Supply	1kW
Requirements	400V, 50Hz, 16A or 208V, 60Hz, 20A

COMPRESSED AIR

Consumption ²	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	< 85dB(A)
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¹ Deviations possible depending on system variant.

² To ensure that the machines are fully functional, DyeMansion recommends to configure the compressed air system for maximum consumption.

CERTIFICATION¹

✓ CE | 2006/42/EG

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