

POLYSHOT CLEANING

**DYE
MANSION**



DYEMANSION POWERSHOT C

The industry standard for easy and efficient part cleaning

Automated depowdering boosts your production capacity

With our proprietary PolyShot Cleaning (PSC) a mid-sized build job can be cleaned in only ten minutes or less. The time you need for part cleaning and the personnel in your production can be significantly reduced. This boosts your effectiveness and efficiency. By investing in automated part cleaning with the Powershot C, up to four manual blasting systems can be easily replaced. PolyShot Cleaning is compatible with all common powder-bed technologies and delivers residue-free parts for brilliant colors.

Gentle part treatment thanks to smart hardware features

The blasting cabinet of our Powershot C is equipped with a rotary basket and is manufactured from stainless steel. Different blasting nozzles and an ionization unit ensure reproducible results. Couple this with a basket with a soft and replaceable lining protecting the parts from damage during the process. Two simultaneously working blasting nozzles are positioned perpendicular to the rotating basket and the contained parts. The cyclone cleans the blasting media constantly. This configuration guarantees an efficient powder removal.

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 C 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 C



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 3 to 10 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	490kg 1080lb
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POWER

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

Consumption ^{1,2}	Minimum: 1.4m ³ /min at 2.2bar 50cfm at 32psi Maximum: 1.8m ³ /min at 5bar 64cfm at 73psi
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NOISE EMISSION

Sound level	< 80dB(A)
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POLYSHOT CLEANING (PSC) **NEW**

- ✓ Proprietary cleaning process with plastic blasting media
- ✓ Gentle and efficient powder removal
- ✓ Allowing for a wider range of process parameters and precision adjustment than conventional cleaning processes
- ✓ Compatible with all common powder-bed technologies and improved depowdering of process challenging materials (e.g. TPU)
- ✓ Developed for the Print-to-Product Workflow: a residue-free cleaning process for brilliant colors

TECHNICAL FEATURES



- Stainless steel cabinet
- 2x Flat-jet nozzles
- 2x Borcabid nozzles
- 1x Ionization unit

1x Air curtain



1x Laval nozzle



¹Compressed air consumption when the equipment is operating in the recommended pressure range.

²In order to ensure full functionality of the equipment, DyeMansion recommends planning the compressed air system for the maximum consumption of the recommended pressure range. Operation of the equipment above the recommended pressure range will result in higher consumptions (2.5m³/min at 7 bar).

³Deviations possible depending on system variant.

CERTIFICATION³

- ✓ CE | 2006/42/EG

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