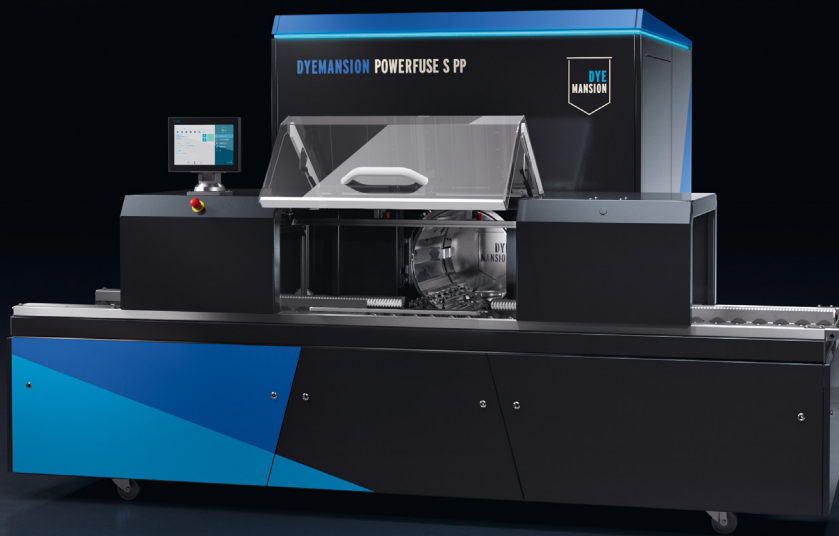


VAPORFUSE SURFACING

For polypropylene (PP) only

DYE
MANSION



DYEMANSION POWERFUSE S PP

The green vapor polishing solution for highly industrial manufacturing & surface improvements beyond aesthetics

The first ever green vapor polishing solution to smooth 3D-printed PP

This technology enables endless application possibilities for the use of polypropylene in Additive Manufacturing industries such as automotive, medical & chemical tech, consumer goods & prototyping. The sustainable VaporFuse VF44 EcoFluid PP is 100% bio-based and readily biodegradable as well as non-toxic: no PFAS, no CMR, no vPvM/PMT.

Best in class results delivering high-quality surfaces with improved properties

VaporFuse Surfacing delivers injection molding-like parts with reduced roughness. The surface is sealed, fluid repellant and washable, allowing you to increase mechanical properties and achieve technical cleanliness for your applications - essential for automotive & healthcare applications, or other applications where contamination is not an option. The system can also smooth inner channels which is unique in the industry and key for any applications featuring pipes or tubes.

Unbeatable cost per part for high-volume production

Unbeatable cost per part at full production capacity due to high degree of automation and closed loop circulation with integrated solvent recovery. The Powerfuse S is Industry 4.0 ready. Running fully automated 24/7, offering traceability and connectivity via our IoT offering.

TECHNICAL DATA

POWERFUSE S PP manual loading



PERFORMANCE

Cycle time	90-180 minutes ¹
Process chamber volume	85l 22.5gal
Basket dimensions (L x W x H)	610mm x 340mm x 315mm (385mm)* 24.0inch x 13.4inch x 12.4inch (15.1inch)*

COMPATIBLE MATERIALS

Polypropylene (PP)
Works with all common PP's on the market. Detailed compatible material list available on request

You want to smooth your PA, TPU or ULTEM parts? Let's have a look at our Powerfuse S and reach out for more information.

DIMENSIONS²

System (L x W x H)	Powerfuse S: 1700mm x 1700mm x 2070mm 66.9inch x 66.9inch x 81.5inch Automatic loading: 960mm x 3466mm x 1300mm 37.8inch x 136.5inch x 51.2inch Manual loading: 705mm x 1700mm x 850mm 27.8inch x 66.9inch x 33.5inch
Recommended space requirement for operation (L x W x H)	Automatic loading: 3760mm x 4266mm x 2500mm 148.0inch x 168.0inch x 98.4inch Manual loading: 3505mm x 3300mm x 2500mm 138.0inch x 129.9inch x 98.4inch

WEIGHT²

System	1600kg 3527lb
Automatic loading	800kg 1764lb
Manual loading	180kg 397lb

POWER

Supply	Ca. 20kW
Requirements	400V, 50Hz, 63A or 480V, 60Hz, 63A

COMPRESSED AIR

Consumption	Approx. 70l 78.5gal at 6bar 87psi per run
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NOISE EMISSION

Sound level	< 70dB(A)
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¹ Depending on program, excl. heating-up time of the system of approx. 60 minutes. Automatic heating-up programmable via weekly timer.

² Deviations possible depending on system variant.

* Dimensions with basket top unit.

CERTIFICATION²

✓ CE | 2006/42/EG
| 2014/68/EU

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