



POWERFUSE S

Lowest costs per run with the leading green vapor smoothing solution for industrial manufacturing at scale

Lowest costs per run in the industry

Unlock unbeatable cost efficiency when vapor smoothing at scale with the Powerfuse S. This standalone system requires no external components and fits seamlessly into any production footprint. Integrated solvent recovery drastically reduces consumable consumption, resulting in up to 12x lower running costs when compared to solutions without integrated solvent recovery.

Seamlessly scale your AM production with autoloading

The Powerfuse S is the only system on the market with autoloading capabilities that can run operator-free & fully automated 24/7. The system is Industry 4.0 ready, offering traceability and connectivity via our IoT offering. Flexibly smooth different part sizes and geometries, all in the same run.

Consistently great parts - all without PFAS

Sophisticated process control enables reproducibility, geometry independence and various levels of smoothing - all without PFAS. The non-toxic VaporFuse VF47 EcoFluid is safe to use and operating the Powerfuse S does not require protective clothing against chemical hazards. No additional equipment or reconstruction of installation site needed.

TECHNICAL DATA

POWERFUSE S manual loading options



PERFORMANCE

Cycle time	45 - 180 Minutes ¹
Process chamber volume	85l 22.5gal
Basket dimensions (L x W x H)	610mm x 340mm x 315mm 24.0inch x 13.4inch x 12.4inch

COMPATIBLE MATERIALS

PA, TPU, ULTEM & more
Detailed material list available on request

Want to smooth polypropylene (PP)?
We have a special Powerfuse S PP version! Reach out to us for more information.

DIMENSIONS

System (L x W x H)	Powerfuse S: 1850mm x 1700mm x 2070mm 72.8in x 66.9in x 81.5in Manual Loading Unit: 705mm x 1700mm x 850mm 27.8in x 66.9in x 33.5in Automatic Loading Unit: 960mm x 3466mm x 1300mm 37.8in x 136.5in x 51.2in
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Recommended space requirement for operation (L x W x H)	Powerfuse S Manual: 2650mm x 3170mm x 2570mm 8,4m ² 104in x 125in x 101in 90.4ft ² with Manual Loading Unit: 3505mm x 3300mm x 2500mm 10,2m ² 138in x 130in x 99in 109.8ft ² with Automatic Loading Unit: 3760mm x 4266mm x 2500mm 16,0m ² 148in x 168in x 99in 172.2ft ²
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WEIGHT

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

POWER

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

COMPRESSED AIR

Consumption	Approx. 70l 18.5gal at 6bar 87psi per run
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NOISE EMISSION

Sound level	< 70dB (A)
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CLIMATIC CONDITIONS

Room temperature	max. 40°C 104°F
Relative humidity	max. 80%



CERTIFICATION

CE | 2006/42/EG
| 2014/68/EU

¹ Depending on program, excl. heating-up time of the system of approx. 60 minutes.
Automatic heating-up programmable via weekly timer.