

S1 Basic – Access-level system for industrial cleaning & surface finishing

2-IN-1 SOLUTION



Cleaning



Surface Finishing



Polymers

Features & benefits

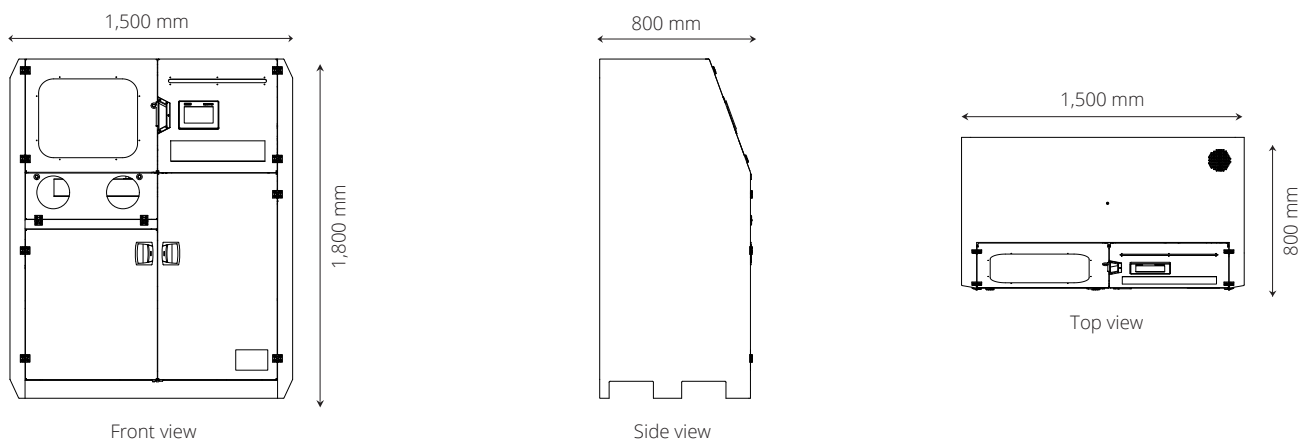
- Compact 2-in-1 system for efficient cleaning and surface finishing
- Designed for small to medium batch sizes in polymer powder bed processes
- Lower operating costs with consistent quality through integrated abrasive media recirculation and powder separation
- Clean operation with reduced powder adhesion via antistatic spray system
- Flexible part handling and optimal process results thanks to an adjustable rotating basket
- Maintenance-friendly design with easily accessible system components
- Fast production start-up and minimal training requirements with an intuitive user interface

Technical highlights

The S1 Basic is a compact plug-and-play system within the S1 portfolio for cleaning and surface finishing of polymer powder bed parts. It enables a fast and straightforward entry into the economic post-processing of additively manufactured parts. The system is specifically designed for smaller 3D printers with limited build volumes while ensuring consistently high and reproducible surface quality. Based on industrial standards, the system features an integrated industrial filtration unit. In addition,

an automated vibrating sieve system enables efficient separation of abrasive media and powder, contributing to reproducible quality with lower operating costs. Operation is carried out via an intuitive HMI and is consistently designed for simple, self-explanatory handling, enabling fast production start-up without specialized training. Key system components are easily accessible and support efficient, maintenance-friendly servicing.

Equipment layout



Equipment specifications

Technical data

Dimensions of blast chamber:
740 x 650 x 830 mm (W x D x H)

Number of blasting nozzles: 1

Dimensions of workpiece tray: 700 x 400 mm (W x D)

Usable volume basket: up to 7 liter

Dimensions of rotating basket: Ø 370 mm x 385 mm

Noise level: ≤ 75 dB(A) @ 1 m

Blasting media recommendation: GP60, RPB-E20

Installation conditions

Supply voltage standard: 220 V, 50 Hz, 1Ph, C13 plug type*

Control voltage: 24 V DC

Compressed air: 6 bar, 6 mm ISO 6150-B quick-connect coupling

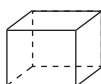
Compressed air volume: 40 to 75 m³/h

Transport: forklift

Machine empty weight: 600 kg

*Different connection voltage like US on request also available

Possible work piece dimensions (mm; W x D x H)



Minimum size: 5 x 5 x 5

Max. size blasting by hand: 350 x 200 x 200

Max size in rotary basket: 100 x 100 x 100

