AM solutions
3D post processing technology

# S1 Wet – The versatile wet blast solution for cleaning and surface finishing




Cleaning | Surface Finishing | Metal | Polymers

## Features & benefits

READY FOR **INDUSTRY 4.0**

- For cleaning and surface finishing with state-of-the-art process monitoring
- Especially developed for metal printed parts
- Wet blasting technology eliminates dust and explosion risks; no compliance with ATEX regulations required
- Surface smoothing reduces loose powder and as printed surface roughness
- Manual, semi-automatic and fully automatic operation

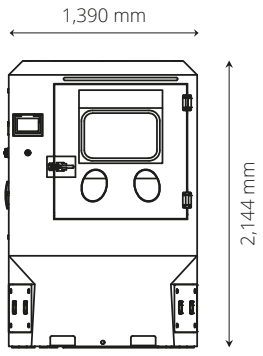
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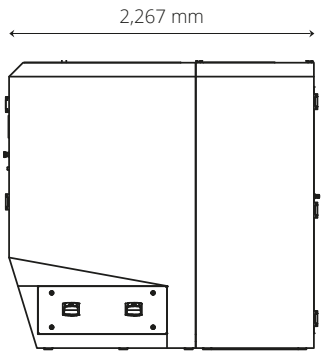
## Technical highlights

The S1 Wet has been developed mainly for post processing metal printed parts. The wet blasting process uses an abrasive media slurry that is accelerated by compressed air to remove residual powder and smooth the part surface. The water based slurry eliminates dust and the creation of sparks on metal and polymer parts, eliminating ATEX requirements. Furthermore, the water cushions the impact of the abrasive particles limiting the risk of media impregnation in the surface. The system can run with angular abrasive or spherical media. The process is controlled and monitored via a PLC, ensuring repeatable, high quality results. This S1 Wet has been designed as a versatile tool for the users. It is equipped with drives for basket and turntable which, combined with the horizontal and vertical movements of the nozzles and a PLC, make it easy to create automatic, repeatable treatment programmes. Water recirculation and filtration ensure closed-circuit water conditioning for a long-lasting process.

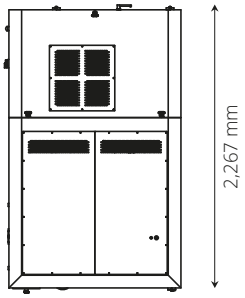
## Equipment layout




Front view




Side view




Top view

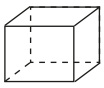
## Equipment specifications

| Technical data |
|---|
| Dimensions of blast chamber:<br>Width x Depth x Height: 1,094 x 730 x 1030 mm |
| Door dimensions (excl.cutting edge): W= 950, H= 965 mm |
| Vertical gantry stroke: 750 mm<br>Horizontal gantry stroke: 350 mm from the center of turntable |
| Diameter of motorized turntable: Ø 400 mm |
| Basket capacity: 5, 8, 12, 15, 20 or 30 liters |
| incl. in the basic equipment: drives for basket and turntable, concentration control, reinforced hard foundry pump |
| Noise level less than 80 dB(A) @ 4 bars |

| Electrical connection |
|---|
| Supply voltage standard: 400 V, 50 Hz, 3Ph + PE* |
| Control voltage: 24 V DC |
| City water connection: G1" from 2,5 to 4 bars |
| Compressed air connection: G1" 7 bars |

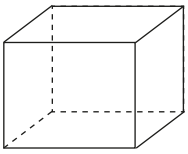
*Optional: 60 Hz; different connection voltage like US on request also available

## Possible work piece dimensions (mm)



Minimum size: 5 x 5 x 5

Maximum size: Ø 400 x 500 (H)





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