AM solutions
3D post processing technology

D1 – Automated unpacking for maximum efficiency, safety and quality



Unpacking

Polymers

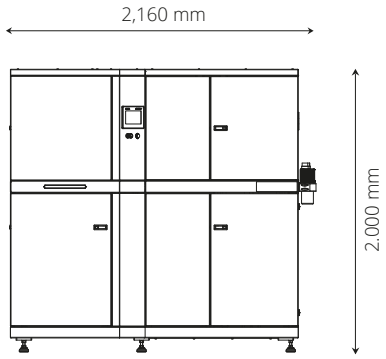
Features & benefits

- Fully automated unpacking and gentle part handling with maximum efficiency
- Reduced unit costs through powder recovery, lower scrap rates, and less labor
- Maximum operator safety thanks to a closed powder loop
- Reliable production conditions through automated processes
- Resource-efficient production thanks to maximum powder recovery
- Storable process parameters for increased efficiency and consistent results

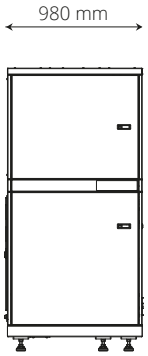
Description

The innovative unpacking station D1 sets new standards in the automated unpacking of SLS-manufactured plastic parts. Compatible with EOS P3 and EOS P3 NEXT systems, it enhances both efficiency and cost-effectiveness in additive manufacturing. The vibration-assisted unpacking process ensures gentle handling of parts, minimizes damage and scrap, and achieves powder recovery rates of up to 95%. An integrated powder storage system and a closed powder loop ensure maximum workplace and process safety. The D1 can be flexibly integrated, offers storable process parameters, and ensures consistently reproducible results with minimal operator effort. In combination with our F1 powder handling system, used and new powder can be automatically sieved and precisely mixed with the highest dosing accuracy.

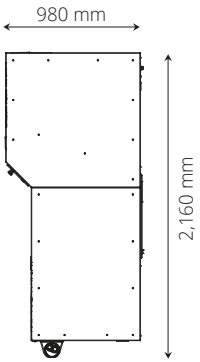
Equipment layout



Front view



Side view



Top view

Equipment specifications

Technical data
Parts handling: swap frame P3 Series
Material: PA12 (PA2200)
Usable volume of Polybox: approx. 180 l
Drive power: 1.9 kW
Noise level: ≤ 75 dB(A)

Installation conditions
Supply voltage: 230 V, 50 Hz (US: 2x 110 V)
Control voltage: 24 V DC
Compressed air connection: R 1/2“, male connector, 6 bar
Transport: Forklift, pallet truck
Machine empty weight: ≈ 1,250 kg

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