

## D1 – Automated unpacking for maximum efficiency, safety and quality



Powder Removal



Polymers

### Features & benefits

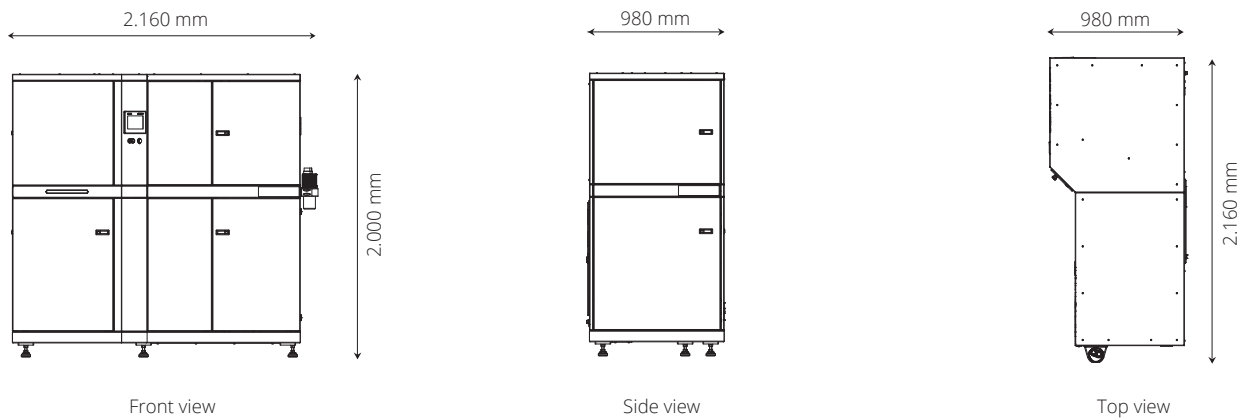
- Fully automated unpacking and gentle part handling with maximum efficiency
- Reduced unit costs through powder recovery, lower scrap rates, and less labor
- Maximum operator safety thanks to a closed powder loop
- Reliable production conditions through automated processes
- Resource-efficient production 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 and a closed powder loop ensure maximum workplace and process safety. The D1 can be flexibly integrated, offers storable process parameters, ensure consistently reproducible results with minimal operator effort. In combination with our F1 powder handling unit for automated sieving and precise powder mixing.

## Equipment layout



## Equipment specifications

### Technical data

Parts handling: swap frame P3 series

Material: PA12 (PA2200)

Usable volume of Polybox: approx. 170 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