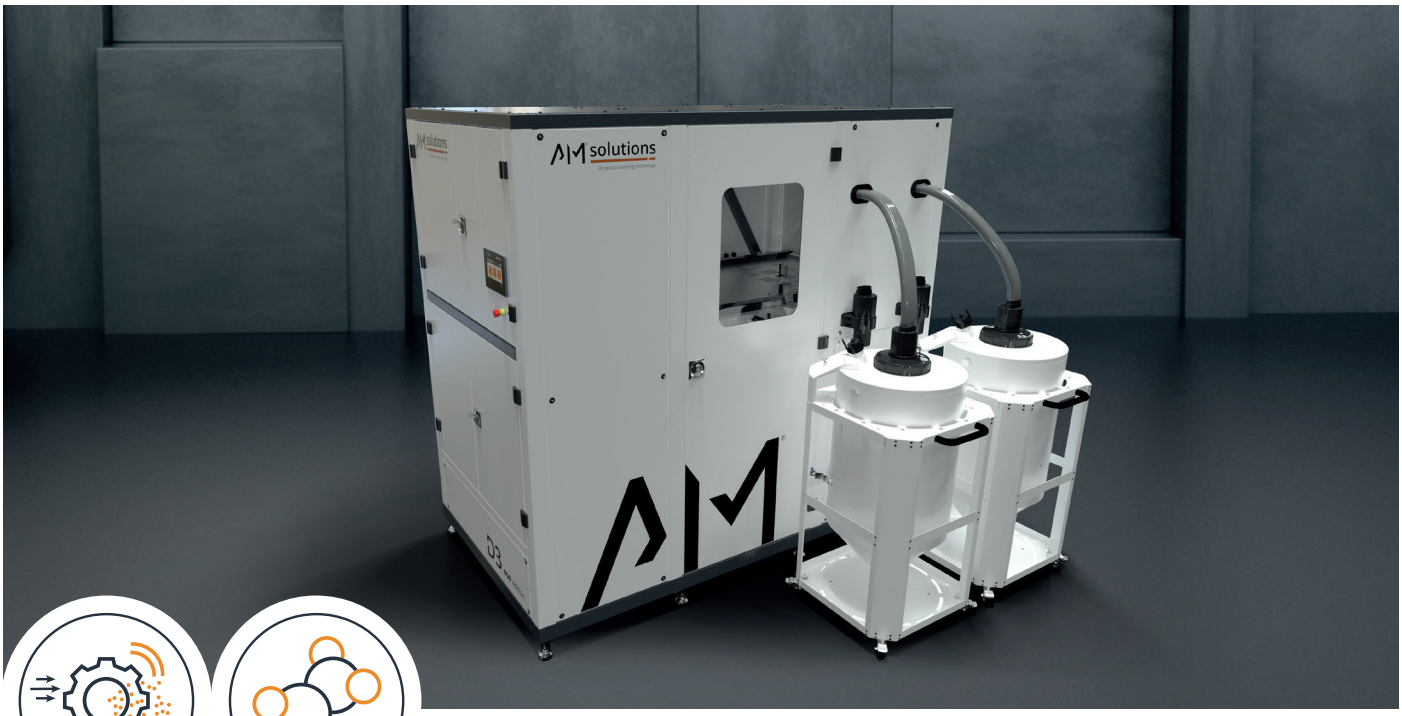
AM solutions
3D post processing technology

D3 – Automated unpacking for large-format EOS printers



Unpacking

Polymers

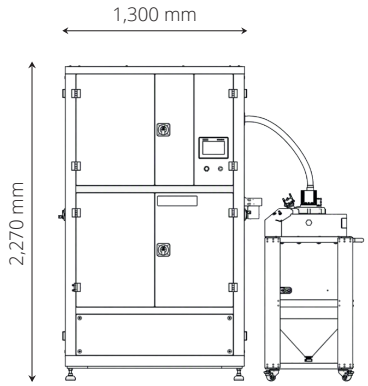
Features & benefits

- Fully automated unpacking and gentle part handling for maximum efficiency
- Lower cost per part through powder recovery rates of up to 95%, reduced scrap and lower labor requirements
- Maximum operator safety thanks to a fully enclosed powder loop
- Gentle on parts while reducing energy consumption and operating costs through vibration instead of compressed air
- Faster part availability: unpacking can begin at core temperatures of ≤ 100 °C under certain conditions
- Designed for optional separation of outer-region powder from powder exposed to higher thermal loads near the parts

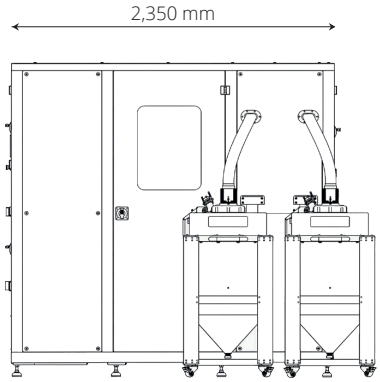
Description

The D3 transfers the proven unpacking principle of the D1 to large-format EOS polymer printers. It automatically unpacks build jobs weighing up to 90 kg in approximately 20 minutes for PA 12, depending on build height and packing density. With the optional Unpacking Plus feature, up to 95% of the powder can be recovered from robust parts, depending on their geometry. Under certain conditions, unpacking is possible at core temperatures of ≤ 100 °C. This shortens the cooling phase, allowing parts to be made available for further processing sooner. Instead of compressed air, the D3 uses vibration. The powder itself cushions and protects even delicate geometries, while eliminating compressed air costs. As an option, the D3 separates powder from the outer regions of the build job from more thermally exposed powder in the interior. The closed-loop powder system minimizes direct powder contact for operators and helps keep the workplace clean.

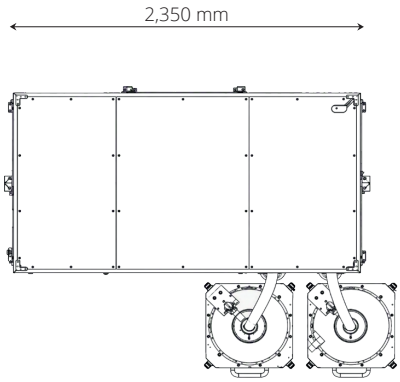
Equipment layout



Front view



Side view



Top view

Equipment specifications

Technical data
Usable volume of Polybox: approx. 180 l
Power consumption: 4 kW
Noise level: ≤ 85 dB
Powder transport: 2x powder outlet, 32 mm
Hose: PVC suction and feed hose, electrostatically grounded

Installation conditions
Supply voltage: 400 V, 50 Hz (US: 460 V, 60 Hz, 3-phase)
Control voltage: 24 V DC
Compressed air connection: R 1/2“
Pneumatics: 6–8 bar
Machine empty weight: 1,850 kg

Publ.-Nr.: EN.370.00 D3 – Revision: 10/2026 – Specifications are subject to change without notice.