

PMS – AUTOMATED POWDER SUPPLY FOR UP TO FOUR EOS SLS PRINTERS



Just one printer?
Then take a look
at our DFS solution.



Powder Handling

Polymers

Features & Benefits

US READY
PRE-FIELD EVALUATED

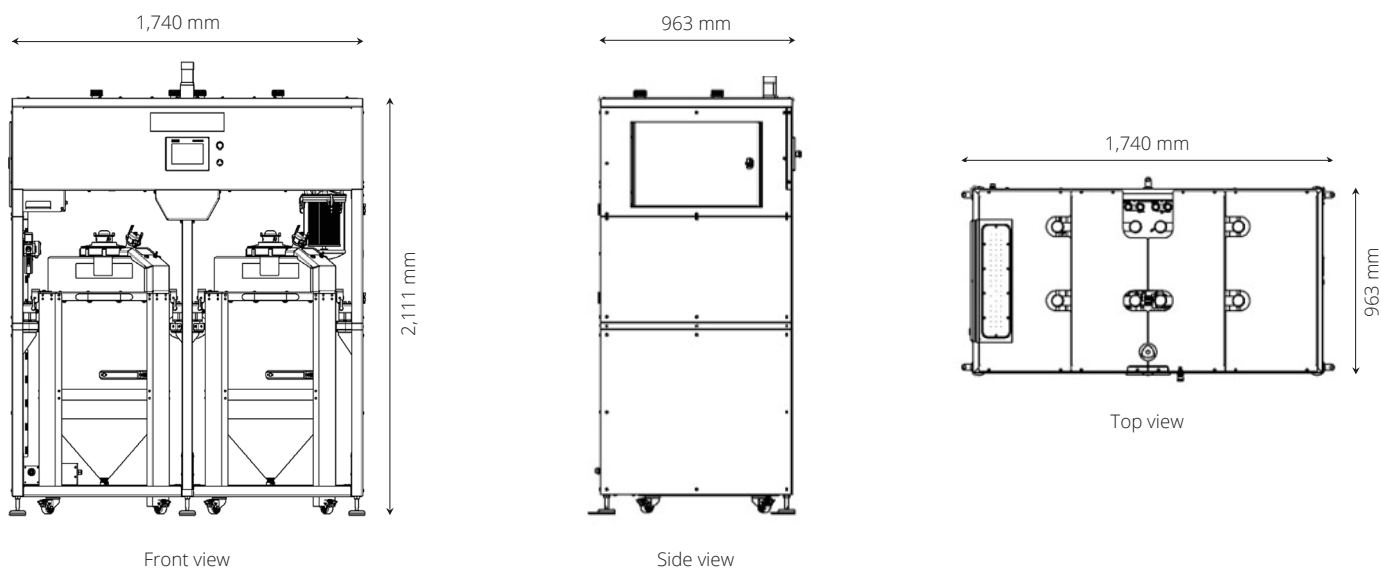
- **Automated material flow:** Closed powder loop for efficient processes and increased productivity
- **High scalability:** Powder supply for up to four EOS SLS printers with easy printer assignment
- **Increased cost efficiency:** Uninterrupted operation through automatic switching between two pre-filled PolyBoxes
- **Maximum operator safety:** Closed system with air return and integrated filtration
- **High process reliability:** Integrated weight monitoring for transparent powder availability
- **Flexible system integration:** Powder conveying over distances of up to 15 meters with integrated powder pump
- **Optimal ergonomics:** Convenient powder handling with user-friendly working height
- **Fast commissioning:** Easy startup via a standard 230 V power connection
- **Compact integration:** Space-saving design and low noise level of <75 dB(A)

Description

The Powder Management System (PMS) enables the automated powder supply of up to four EOS SLS printers with processed powder from the F1. Two pre-filled PolyBoxes with a capacity of up to 180 liters each, combined with automatic switchover, ensure a continuous, uninterrupted supply. Integrated weight monitoring along with LED and 360° status indicators provide full transparency over

powder inventory and enable proactive material planning. Air recirculation and filtration technology minimize manual powder handling and ensure a closed-loop powder process. Powder conveying over distances of up to 15 meters allows flexible integration into a wide range of production environments, supporting an efficient, scalable, and process-reliable powder supply.

Equipment layout



Machine specifications

Technical data	Installation conditions
Usable volume PolyBox: approx. 180 l (per PolyBox)	Operating voltage: 230 V, 50 Hz, 230 V cold-device connector*
Noise level: < 75 dB	Power input: 1.0 kW
US compliance: Successful pre-field evaluation according to UL/NFPA standards	Control voltage: 24 V DC
	Compressed air connection: G 1/2", 6–8 bar
	System empty weight: ≈ 500 kg

*Different connection voltage like US on request also available