

Material Management System v2 with HEPA/VOC¹ Control

Industry-leading Material Handling & Health Safety



Enhanced Material Performance & Life

- Keep materials dry and printing at their best
- Stop materials and part quality from degrading over time
- Have multiple materials dry and ready to print quickly & easily without storage hassles

Monitor Material Quantities in Realtime

- Live readout of remaining material of each of 6 reels on MMS display & on included 10" wireless tablet
- Remote readout via web browser of type of material loaded at each position, and its remaining length²

Cost Effective Manufacturing

- Optimize material usage while saving time, reducing failed prints and improving part quality
- 24 x 7 printing with remote monitoring & control

Physical Dimensions	
Width	38.125" - 96.84cm
Height	32.5" - 82.55 cm
Depth	36" - 91.44 cm
Weight	~ 290 lbs - 132kg
Shipping Size & Weight	42" x 42" x 36" 370 lbs - 168 kg
Voltage Requirement	20A total with printer & server

Material Performance Enhancing Safety, Storage & Measurement Solution

Introducing Plural's Material Management System v2 for optimized material handling with integrated HEPA and volatile organic compound health protection.

MMS guarantees that materials are always dry, optimizing bonding and providing the best possible surface finish, appearance and performance.

The automated weighing and reporting system provides you with real-time remaining material status for up to six spools at a time (from 4kg to 500g spools), any three of which are fed to the printer.

MMS also manages power, requiring only one 220V connection for the cabinet which supplies the correct power and voltage to the printer, the print server, 5 USB ports and the web camera.

The MMS system includes an industrial, fanless print server with the power to support live video streaming of HD quality print monitoring, and increases storage from 16GB SD card standard with the printer to 128GB SSD for time-lapse recordings, virtually unlimited gcode storage and increased robustness.

v2 adds chamber heating (40°C) to the powerful desiccant drying solution, integrated HEPA filtration with activated charcoal stage to control VOCs, increased connectivity options and 10" wireless tablet control.

Enabling industry-leading safety, print quality, part size capability and user convenience, 3ntr printers with MMSv2 offer the best, most cost-effective open material industrial AM solutions available.

For more details on Plural's industrial 3D printing/Additive Manufacturing solutions visit pluralam.com.

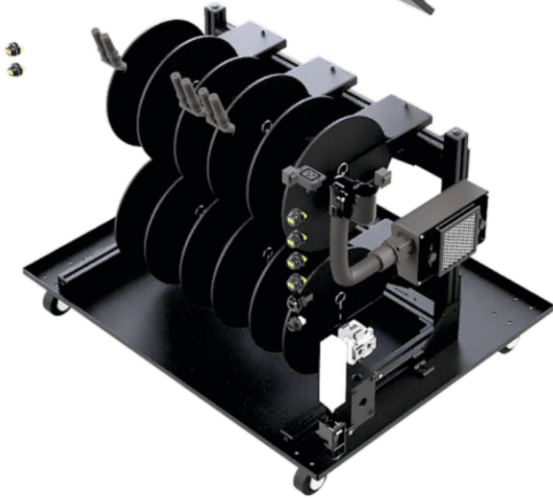


MMSv2 comes with wireless touchscreen control for the printer and the MMS.

¹Volatile Organic Compounds

Material Management System v2

For Optimum 3D Printing Performance



Additional storage for up to 10 reels

MMS Summary

Unit Settings-

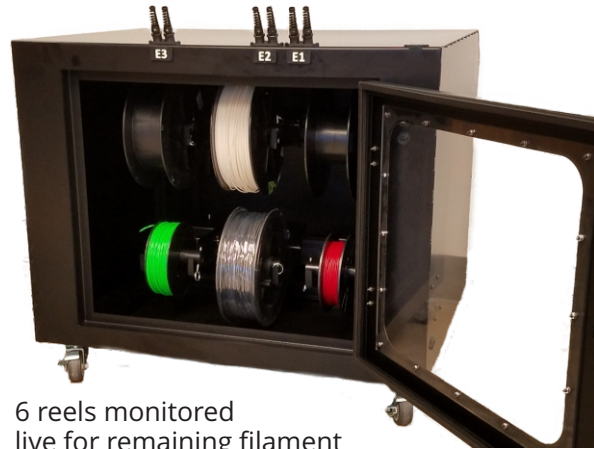
[Weight](#) [Length](#) [Diameter](#) [Temperature](#)

MMS-

Unit Name : PluralMMS RH : 5.8% | Temp : 23.20 C

Nozzle_1	Nozzle_2	Nozzle_3
Diameter : 0.6 mm Material Diameter : 2.85 mm	Diameter : 0.6 mm Material Diameter : 2.85 mm	Diameter : 0.6 mm Material Diameter : 2.85 mm
Reel_A Extruder : #3 Material : SSU00 - Black Diameter : 2.85 mm Reel Weight : 2.00 Kg Live Weight : 0.21 Kg Remaining Filament : Infinity m	Reel_B Extruder : not fed... Material : SU301 Diameter : 2.85 mm Reel Weight : 1.00 Kg Live Weight : 0.17 Kg Remaining Filament : 23.80 m	Reel_C Extruder : #1 Material : ASA Diameter : 2.85 mm Reel Weight : 4.00 Kg Live Weight : 0.82 Kg Remaining Filament : 118.44 m
Reel_D Extruder : not fed... Material : SSU00 Diameter : 2.85 mm Reel Weight : 2.00 Kg Live Weight : 0.15 Kg Remaining Filament : 22.19 m	Reel_E Extruder : #2 Material : ASA - Black Diameter : 2.85 mm Reel Weight : 2.00 Kg Live Weight : 1.23 Kg Remaining Filament : 174.87 m	Reel_F Extruder : not fed... Material : ASA - Black Diameter : 2.85 mm Reel Weight : 2.00 Kg Live Weight : 0.32 Kg Remaining Filament : 45.17 m

[Knowledge Base](#) [Open Support Ticket](#)



6 reels monitored live for remaining filament

