

# SPECTRAL 30

## Level Up

### Innovative Industry-leading Super-polymer 3D Printing



- ⇒ 500°C Nozzles
- ⇒ 300°C Build Plate
- ⇒ 250°C Chamber
- ⇒ 4 Liquid Cooled Nozzles
- ⇒ 4 Active Material Dryers

Capable of 3D printing at high temperatures, the Spectral 30 is designed for use with high-performing polymers like PEEK, Ultem, PEI and PEKK.

Development of the Spectral 30 was borne out of the Clean Sky project, a research program aiming to reduce CO<sub>2</sub> gas emissions and noise levels produced by aircraft using advanced technologies, supported by the European Union's Horizon 2020 program.

The system was developed with input from French polymer research firm RESCOLL and international aerospace giant Airbus, who provided research on integrating 3D printers within the aerospace production process.

Spectral 30, the first in a family of industry-leading, powerful, ultra-high temperature open material printers.



**Engineered for AM**



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# SPECTRAL 30

## Specifications

Super Polymers
Ultem AM9085F™, PEEK, PEKK, PAEK, PPSU
Polymers
ABS, Bio ABS, ASA, CF & GF Nylons, IGUS Igidur™, PCABS, FR PCABS (UL Blue Card), GF Polypropylene, PVDF, PETG, Investment casting pattern material Generally, any open 1.75mm filament (see Polymer Pillar)
Temperatures
500°C nozzles 300°C build plate 250°C build chamber
Multi-material Printing
4 nozzles - 1.75mm filament
Active Material Drying
4 automated temperature controlled material bays (Ventos) holding up to one 4kg spool each (16kg total material)
Advanced Features
Magnetic removable build tray attachment High capacity liquid cooling 10" touch screen End spool and jam detection and handling Fully automated nozzle and build plate leveling
Mechanical
300 (11.81") x 300 (11.81") x 300 (11.81")mm printing envelope 5 micron XYZ positioning precision Brushless AC motors on all 3 axis
Electrical
240 V three phase power (or single to three phase converter required) 20 Amp line required, average 3.6 Amp consumption
Physical
1158 (45.6") x 882 (34.725") x 1788 (70.4") 400 Kg (880 lbs)

Print it All with Spectral

