

amt
postpro[®]



postpro[®] 3D MINI

SPECIFICATION GUIDE

FEBRUARY 2021



THE ONLY AUTOMATED TURNKEY ADDITIVE MANUFACTURING POST PROCESSING TECHNOLOGY DELIVERING END-USE PARTS FOR YOUR DESIGN & DEVELOPMENT NEEDS.



AMT's patented chemical vapor smoothing technology is a smart and automated post processing solution for thermoplastic polymer 3D Printed parts based on AMT's proprietary BLAST process (Boundary Layer Automated Smoothing Technology).

The BLAST Process is now also available in the PostPro3D Mini. PostPro3D Mini delivers the same quality as the already proven PostPro3D, achieving a surface finish that matches injection molding techniques. This enabling technology reduces lead-time, cost of manufacture, operational and maintenance costs providing the 'missing piece' in the digital manufacturing chain.

PROPRIETARY PATENTED TECHNOLOGY

5 YEARS OF FUNDAMENTAL DEVELOPMENT AT THE UNIVERSITY OF SHEFFIELD. 3 YEARS OF INDUSTRIAL DEVELOPMENT. OVER 92,000 PARTS PROCESSED TO DATE FOR 250 END USERS.

ENHANCING PART PROPERTIES

THE ONLY TECHNOLOGY THAT SMOOTHS AND SEALS THE SURFACE AND INTERNAL CAVITIES OF 3D PRINTED POLYMER PARTS, WHILE ALSO IMPROVING MECHANICAL PROPERTIES.

COMPATIBILITY

WORKS WITH POWDER- AND EXTRUSION-BASED ADDITIVE MANUFACTURING TECHNOLOGIES. TESTED WITH OVER 100 THERMOPLASTIC POLYMERS INCLUDING NYLONS AND TPU/TPE FLEXIBLE MATERIALS. IDEAL FOR SLS, MJF, HSS AND FFF APPLICATIONS.

AUTOMATED

INDUSTRY 4.0 ROBOTIC AUTOMATION WITH ADVANCED MACHINE LEARNING ALGORITHMS.

COMPLIES WITH ALL INDUSTRIAL HEALTH AND SAFETY STANDARDS

PROPRIETARY INDUSTRY ACCEPTED SOLVENT CONSUMABLES VALIDATED IN HIGHLY REGULATED APPLICATIONS FROM MEDICAL AND DENTAL TO CONSUMER AND FOOD APPLICATIONS. POSTPRO3D MINI WORKS WITH A WIDE RANGE OF SOLVENTS TAILORED TO YOUR SPECIFIC REQUIREMENTS.

SAFE AND SUSTAINABLE

FULLY CLOSED-LOOP SYSTEM TO ENSURE OPERATOR AND END USER SAFETY. ZERO SYSTEM WASTE AND FULL CONSUMABLE RECYCLING.

PART EXAMPLES:



Chamber Dimensions, W x D x H	12.0" x 15.8" x 12.0"	305mm x 400mm x 305mm
Nominal Chamber Temperature	Maximum 158°F	Maximum 70°C
PostPro3D Mini Machine	26.6" x 43.8" x 55"	676mm x 1113mm x 1396mm
PostPro3D Mini Machine	650 LBS.	295 KG.

Power Supply	1 x 16A
Permissible Voltage Fluctuation	230VAC
Mains Fuse Protection	C16A1P MCB
Rated Short-Circuit Current	10kA

**Specifications subject to change*

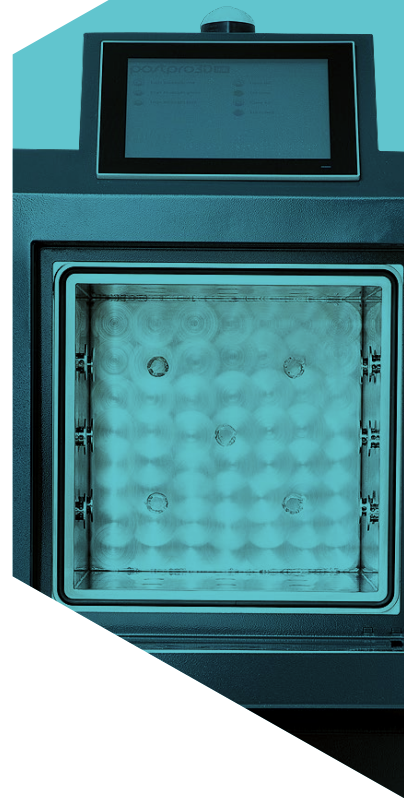
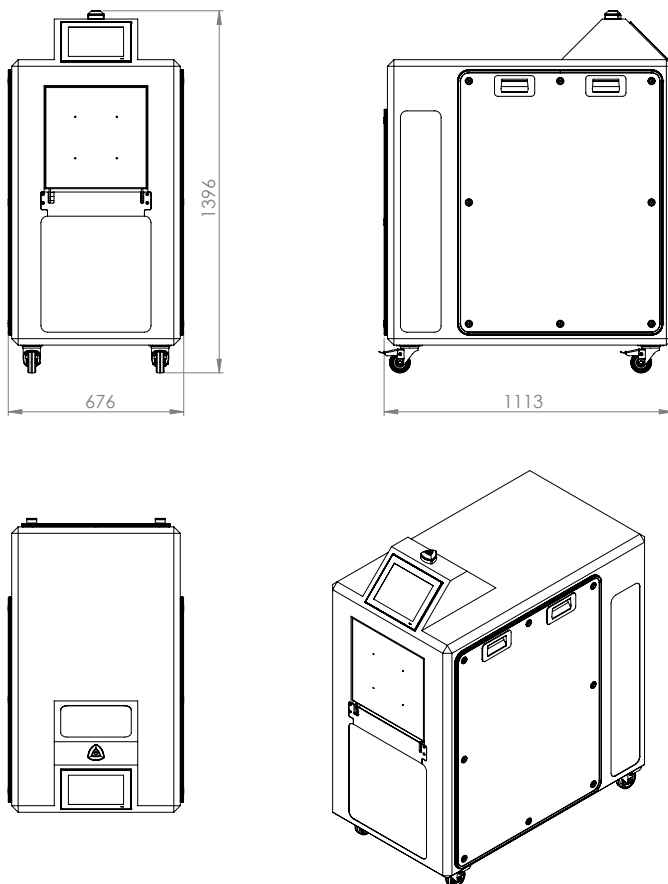
SAFETY AND CERTIFICATION

PostPro3D Mini has been thoroughly tested with a number of industrial end users in the USA and Europe.

SAFETY FEATURES

- Closed loop system with activated carbon filters.
- 1 front-panel-mounted e-stop button connected to dedicated safety relay
- Two-handed safety start function, requiring both front-panel start buttons to be pressed to operate
- Front-panel mounted anti-vandal key switch with LEDs for maintenance and diagnostics
- Uninterruptible power supply with 12Ah sealed lead-acid battery
- Detection of power cut or improper shutdown, battery charge and usage detection
- C-curve breakers for short-circuit or overload protection
- Clear indication of machine state via front-panel LEDs and luminescent PostPro3DMini logo
- Automatic handling of fault and emergency states with failsafe procedures and remote alarm transmission via internet connection
- 24/7 Automatic remote monitoring of machine through the 3G cellular network

DIMENSIONS





CONTACT INFORMATION

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