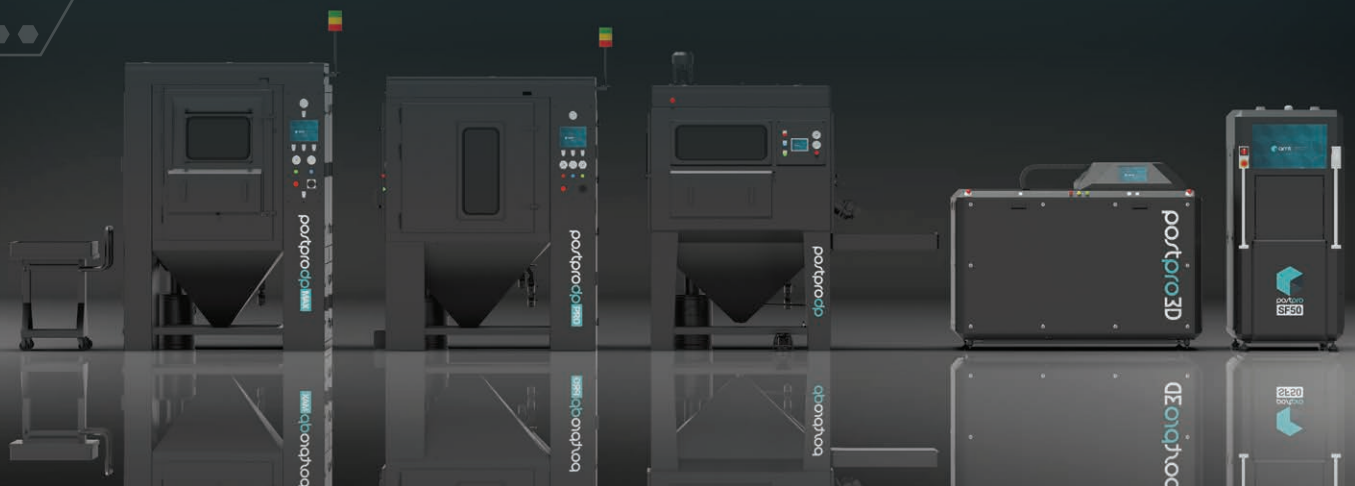




ADDITIVE MANUFACTURING TECHNOLOGIES // AMT

# AUTOMATED POST-PROCESSING SOLUTIONS FOR ADDITIVE MANUFACTURING



POSTPRO SF50 // POSTPRO 3D // POSTPRO DP MAX // POSTPRO DP PRO // POSTPRO DP



**AMT IS THE WORLD LEADER  
IN AUTOMATED POST-  
PROCESSING TECHNOLOGY  
FOR 3D PRINTED PARTS**



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**Joseph Crabtree**  
CEO and Founder

## ABOUT AMT

AMT is the world's first company focused on developing digital technology solutions for post-processing 3D printed parts.

Developed at the intersection of material science, chemistry, hardware, engineering, robotics, and machine learning, our post-processing technology enhances 3D printed parts to market-ready specifications, enabling every industry to mobilize the power of additive manufacturing.

AMT was formed in 2017 by CEO and Founder, Joseph Crabtree, after he developed the world's first fully automated chemical vapor smoothing solution – PostPro 3D. Since then, AMT's product portfolio has expanded to a range of end-to-end fully automated post-processing solutions.

AMT is headquartered in the UK with a design and manufacturing facility in Hungary, R&D facility in Texas, an office in Taiwan, and multiple resellers across the globe.

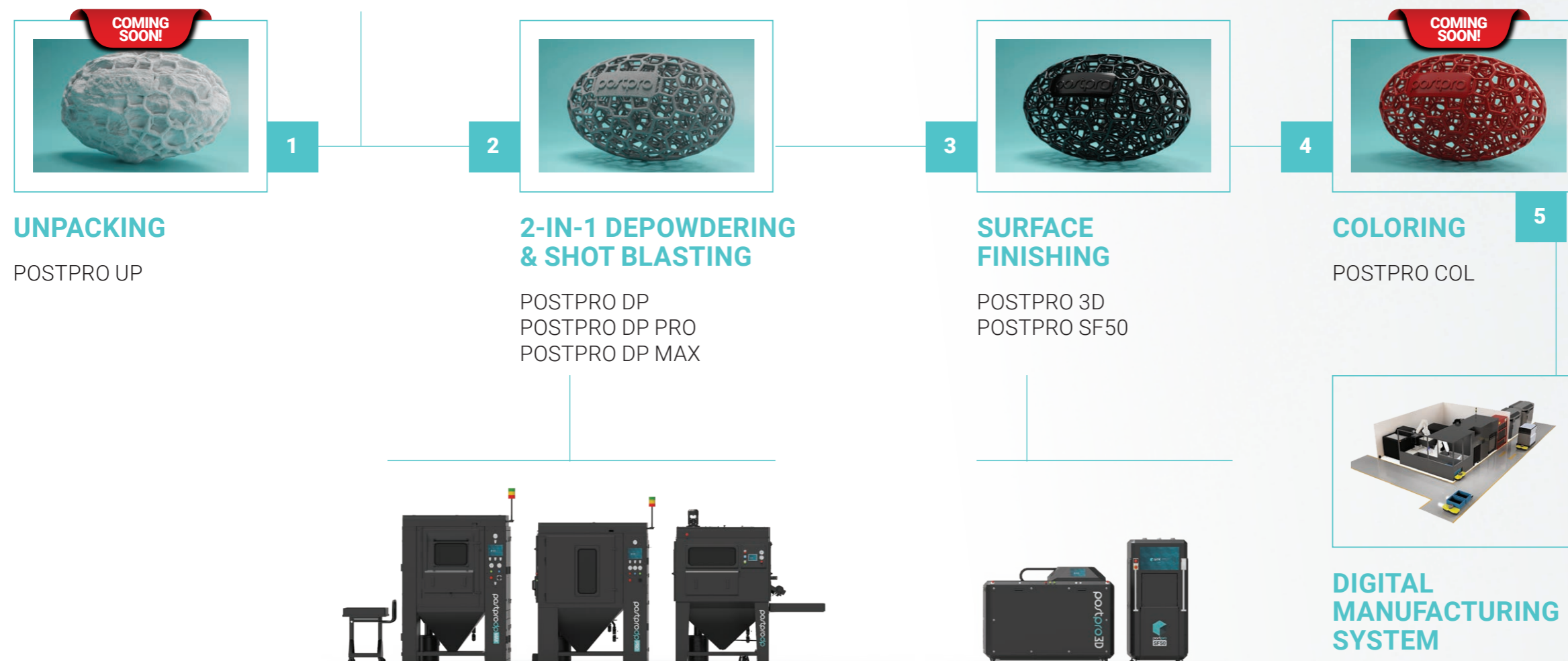


# AMT UNLOCKS THE SOLUTIONS

Removing barriers through sustainable ip rich technology.

- CE certified
- Certified solutions for all industries
- No geometrical limitations
- Reproducible results
- Material & technology agnostic
- Reduces cost per part
- Automated, scalable, customizable

## POSTPRO AUTOMATED WORKFLOW





# PRODUCTS



# POSTPRO DP

AUTOMATED 2-IN-1  
DEPOWDERING & SHOT  
BLASTING SYSTEM FOR  
POLYMER POWDER-BED  
AM PROCESSES

Affordable cleaning and shotblasting system that further reduces manual intervention in the process chain. Suitable for all common abrasives. Features include a large basket with 2 spray nozzles, ionization unit to reduce static electricity, and ventilator system with high extraction rate to prevent windows from getting dusty. CE and ATEX certified.

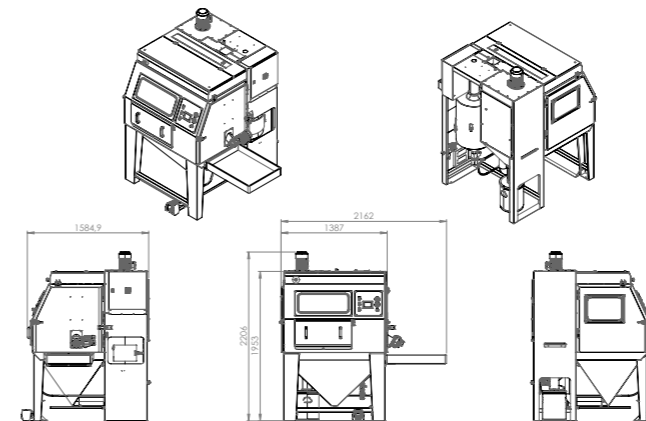
Commercially available since Q2 2020.



## TECHNICAL SPECIFICATIONS

Description	US	EU
<b>External dimensions (w x d x h):</b>	57 x 63 x 87 in	1.626 x 1.600 x 2.206 mm
<b>Effective blast room (l x w x h):</b>	49 x 40 x 37 in	1.320 x 940 x 1060 mm
<b>Working height:</b>	33 in	725 mm
<b>Door openings (w x h) (2 pieces)</b>	35 x 31 in	835 x 825 mm
<b>View window (w x h):</b>	26 x 10 in	656 x 266 mm
<b>Maximum load cabinet:</b>	770 lbs	350 kg
<b>Basket with lining:</b>		
• Dimensions	Ø 24 x 16 in	Ø 600 x 400 mm
• Approx. volume (depends on size and form of products)	8 gallons 33 lbs	30 liter 15 kg
• Maximum load		
<b>Blast guns basket (2 pieces):</b>	Hardened blast guns with boron carbide nozzles (Ø 0.31 in)	Hardened blast guns with boron carbide nozzles (Ø 8 mm)
<b>Filter cartridges (polyester, M-class):</b>	2 filter cartridges of 43.05ft <sup>2</sup> each	2 filter cartridges of 4 m <sup>2</sup> each
<b>Capacity ventilator:</b>	3522 gpm	800 m <sup>3</sup> /h (1,1 kW)
<b>Dust emission:</b>	< 0.0018ppm	< 1,8 mg/Nm <sup>3</sup>
<b>Atex classification:</b>	Class II 3/-D T257°F	Class II 3/-D T125°C
<b>Lighting:</b>	LED light 50 Watt	
<b>Electrical connection:</b>	3 x 480V, 60 Hz, earth and zero	3 x 400V, 50 Hz, earth and zero
<b>Total power consumption:</b>	1,3 kW	
<b>Colours powder coating:</b>	Light and dark grey (=RAL 7040 / 7015)	
<b>Pneumatic connection/pressure</b>	G 1/2" air supply hose, 6 bar	G 1/2" air supply hose, 6 bar
<b>Min. Pneumatic flow rate</b>	Minimum 71.3 cfm	Minimum 2.02m <sup>3</sup> /min
<b>Cabin weight (complete):</b>	1,257 lbs	570 kg

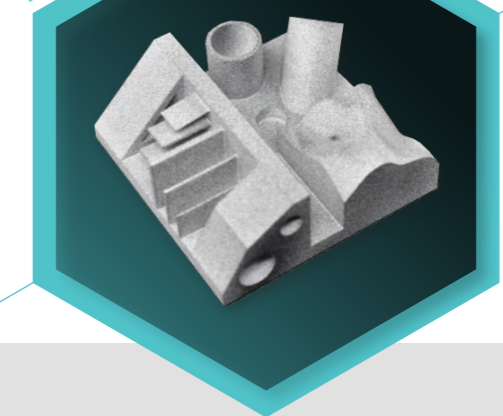
\*Specifications are subject to change



BEFORE



AFTER





# POSTPRO DP PRO

AUTOMATED INDUSTRIAL DEPOWDERING & SHOT BLASTING SYSTEM FOR POLYMER POWDER-BED AM PROCESSES



## POSTPRO® DEPOWDERING (DP) AUTOMATED POST-PRINT CLEANING

### DEPOWDERING & SURFACING (2-IN-1)

- Reduces time and labor cost
- Reduces scrap rate
- Ensures repeatable results
- Primes surfaces for secondary treatments e.g. chemical smoothing
- Allows different types of media to depowder and/or surfacing/peening
- All materials and geometries

### PRODUCTION-READY

- Increases throughput: large batches in 30 minutes or less
- Stores batch settings (material, build, or part-geometry specific)
- Adjustable angle of rotation for efficiency
- Reliable air filtration design extends life of media
- Ergonomic operator-friendly design
- Easy to install, use, and low maintenance
- CE and ATEX certified

Commercially available since Q2 2020.



## TECHNICAL SPECIFICATIONS

Description	EU	US
<b>External dimensions (w x d x h):</b>	1.700 x 1.800 x 2.500 mm	67 x 71 x 98 in
<b>Door opening front door:</b>	1.100 x 970 mm	44 x 39 in
<b>Door opening manual blasting:</b>	875 x 970 mm	35 x 39 in
<b>Blasting Chamber Dimensions:</b>	1287 x 1050 x 1100 mm	51 x 42 x 44 in
<b>Manual Blasting Area:</b>	420 x 1000 x 1100 mm	17 x 40 x 44 in
<b>Basket with lining:</b>		
• <b>Dimensions</b>	Ø 500 x 320 mm	Ø 20 x 12.5 in
• <b>Approx. volume (depends on size and form of products)</b>	20 liter	20 liter
• <b>Maximum load</b>	20 kg	44 lbs
<b>Blast guns basket (2 pieces):</b>	Hardened blast guns with boron carbide nozzles (Ø 8mm)	Hardened blast guns with boron carbide nozzles (Ø 0.3)
<b>Filter cartridges (polyester, M-class):</b>	2 filter cartridges of 4 m <sup>2</sup> each	2 filter cartridges of 4 m <sup>2</sup> each
<b>Door opening front door:</b>	1.100 x 970 mm	44 x 39 in
<b>Capacity ventilator:</b>	900 m <sup>3</sup> /h (1,1 kW)	52cfm (1.1kW)
<b>Dust emission:</b>	< 1,8 mg/Nm <sup>3</sup>	< 1,8 mg/Nm <sup>3</sup>
<b>Option: HEPA filter with dust emission of:</b>	< 0,1 mg/ Nm <sup>3</sup>	< 0,1 mg/ Nm <sup>3</sup>
<b>Atex classification:</b>	class II 3/-D T125°C	class II 3/-D T125°C
<b>Lighting:</b>	LED light 50 Watt	LED light 50 Watt
<b>Electrical connection:</b>	3 x 400V, 50hz, earth and zero, 25A	3 x 480V, 60Hz earth and zero, 25A
<b>Total power consumption:</b>	3,0 kW	3,6 kW
<b>Min. Pneumatic flow rate:</b>	Minimum 2.02m <sup>3</sup> /min	Minimum 71.3 cfm
<b>Cabin weight (complete):</b>	ca. 1.000 kg	Ca. 2205 lbs
<b>Pneumatic connection/pressure:</b>	3/4 inch air supply hose, 6 bar	3/4 inch air supply hose, 6 bar



# POSTPRO DP MAX

FULLY AUTOMATED INDUSTRIAL 2-IN-1 DEPOWDERING & SHOT BLASTING SYSTEM FOR MAXIMUM THROUGHPUT



## ADVANTAGES OF POSTPRO DP MAX

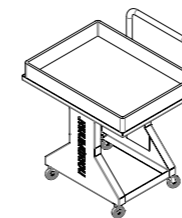
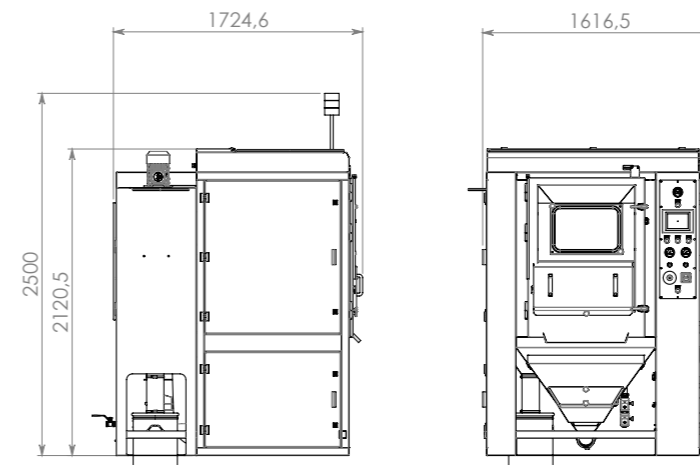
- Powered by continuous tumble belt technology for maximum throughput and part size flexibility.
- Designed for large parts and / or large batches of parts.
- Automated and ergonomic loading and unloading to and from the transport container.
- Processing volume of up to 63 liters.
- Moving nozzles speeds up the process for maximum throughput.
- Built in cyclone for efficient dedusting and cleaning of the media.
- Compact design to reduce floor space.
- Safe and robust industrial design.
- Digitally connected to communicate with other EMS.
- Low maintenance cost.
- ATEX certified.

Commercially available since Q2 2021.



## TECHNICAL SPECIFICATIONS

Description	EU	US
<b>External Dimensions</b>	1,617 x 1,725 x 2,500 mm	64 x 68 x 99 in
<b>Front Door Opening</b>	770 x 1070mm	30 x 42 in
<b>Processing Belt - Dimensions</b>	Ø590 x 770mm	Ø23 x 30 in
<b>Processing Belt - Volume</b>	63 Liter (part dependent)	63 Liter (part dependent)
<b>Processing Belt - Maximum Load</b>	20Kg	44 lbs
<b>Blast Guns</b>	3 x Hardened blast guns with boron carbide nozzles (Ø 8 mm)	3 x Hardened blast guns with boron carbide nozzles (Ø 8 mm)
<b>Filter Cartridges</b>	2 x Polyester, M-Class, 4m²	2 x Polyester, M-Class, 4m²
<b>Ventilator Capacity</b>	800 m³/h (1,1 kW)	52 cfm (1,1 kW)
<b>Dust Emission with HEPA Filter</b>	< 0,1 mg/ Nm³	< 0,1 mg/ Nm³
<b>Dust Emission without HEPA Filter</b>	< 1,8 mg/Nm³	< 1,8 mg/Nm³
<b>ATEX Classification</b>	class II 3/-D T125°C	class II 3/-D T125°C
<b>Electrical Connection</b>	3 x 400V, 50 Hz, earth and neutral, 25A	3 x 480V, 60 Hz, earth and neutral, 25A
<b>Total Power Consumption</b>	3.0kW	3.0kW
<b>Minimum Pneumatic Flow Rate</b>	3.0m³/min	106 cfm
<b>Cabin Weight</b>	1,250Kg	2,756 lbs





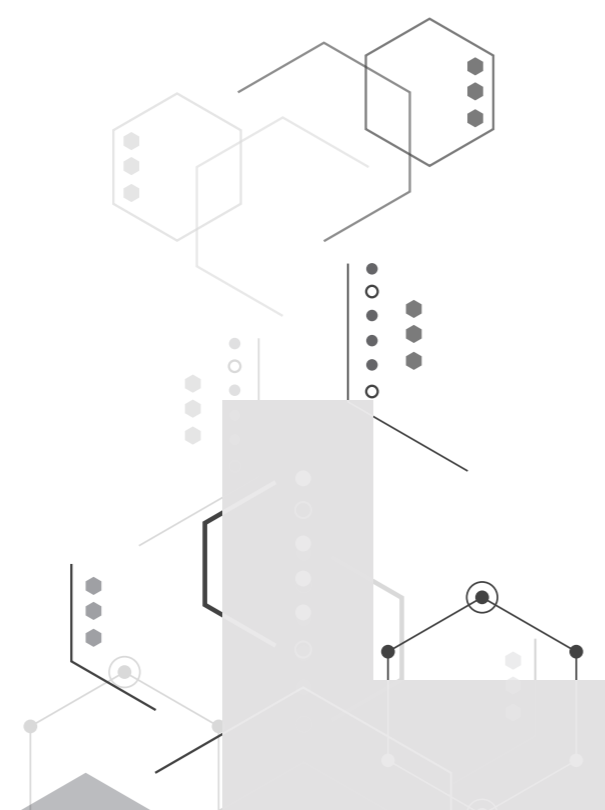
# POSTPRO 3D

PATENTED CHEMICAL VAPOR SMOOTHING TECHNOLOGY FOR FINISHING THERMOPLASTIC POLYMER PARTS



PostPro3D is an enabling technology that achieves for the first time a surface finish that matches injection molding techniques by using a series of predefined parameters. PostPro3D reduces lead-time, cost of manufacture, operational & maintenance costs providing the 'missing piece' in the digital manufacturing chain.

Commercially available since 2017.



## TECHNICAL SPECIFICATIONS

Capacity	US	EU
<b>Chamber Dimensions, W x D x H</b>	16.0" x 24.0" x 15.7"	410mm x 610mm x 400mm
<b>Consumable Cannister Volume</b>	940 in <sup>3</sup>	15,400 cm <sup>3</sup>
<b>Nominal Chamber Temperature</b>	Maximum 158°F	Maximum 70°C
Dimensions	US (w x d x h) (in)	EU (w x d x h) (mm)
<b>PostPro3D Machine</b>	71.9 x 54.7 x 54.4	1826 x 1388 x 1380
<b>Chiller Unit</b>	28.2 x 37.2 x 58.8	715 x 945 x 1492
<b>Extraction Unit</b>	24.6 x 31.5 x 47.2	626 x 801 x 1197
<b>Recommended Operating Space</b>	236 x 177	6000 x 4500
Weight	US (lbs.)	EU (kg)
<b>PostPro3D Machine</b>	2204	1000
<b>Chiller Unit</b>	386	175
<b>Extraction Unit</b>	320	145
Power	US	EU
<b>Power Supply</b>	480V 60Hz 3-Phase + PE	400V 50Hz 3-Phase+ PE
<b>Permissible Voltage Fluctuation</b>	±10%	±10%
<b>Typical Power Consumption</b>	12.4kW	9.7kW
<b>Maximum Power Consumption</b>	28.5kW	23kW
<b>Mains Fuse Protection</b>	3 x 32 A (characteristic C)	3 x 32 A (characteristic C)
<b>Rated Short-Circuit Current</b>	10kA	10kA

## POSTPRO® SURFACE SMOOTHING AESTHETICS & PERFORMANCE

### EASY TO ADOPT

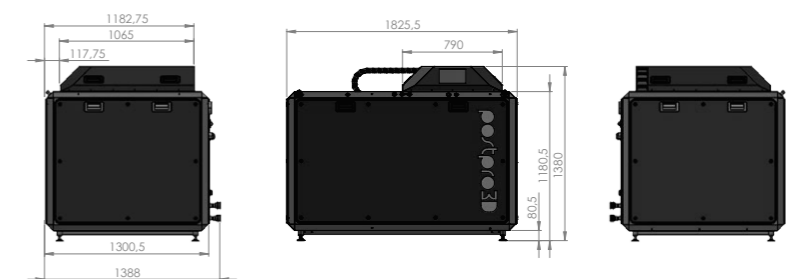
- Affordable
- Small foot-print
- Meets strict HSE standards
- UL & CE certified
- Low maintenance
- Easy to install and use
- Multi industry compatibility
- Broad material compatibility

### PRODUCTION READY

- Safe and fast-acting chemistry
- Low operating costs (cost/run)
- Large chamber size
- Short cycle time
- Repeatable
- Fully automated
- Ability to integrate / connectivity

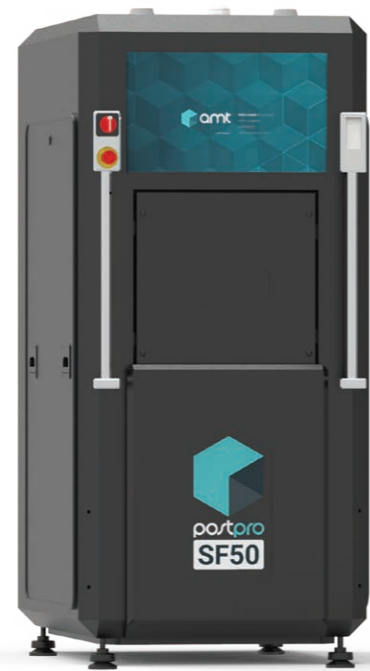
### ADDED VALUE

- Enhanced aesthetics
- Increased durability
- Improved properties
- Dimensional accuracy
- Tunable surface roughness
- Sealed surface, no porosity
- Easier to color and coat

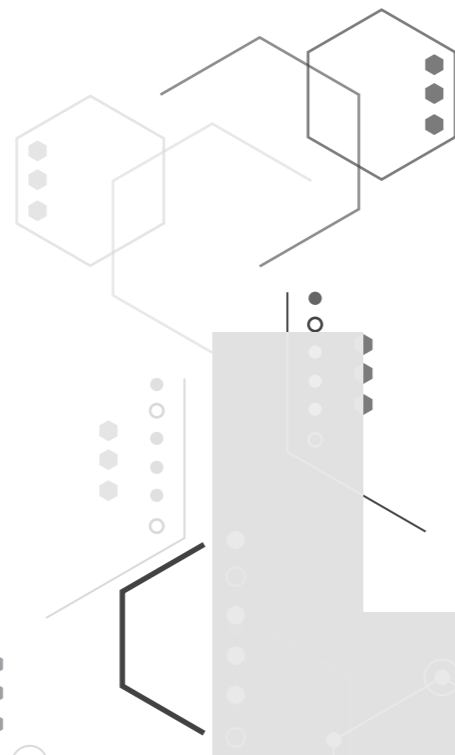


# POSTPRO SF50

AUTOMATED SURFACE FINISHING SOLUTION THAT OFFERS ALL THE ADVANTAGES OF THE POSTPRO3D MACHINE, BUT IN A MORE COMPACT UNIT FOR SMALLER PRODUCTION RUNS, RESEARCH AND DEVELOPMENT PROGRAMS, AND DESIGN STUDIOS



Commercially available since 2021.

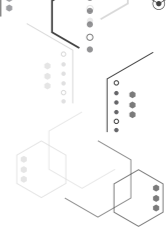
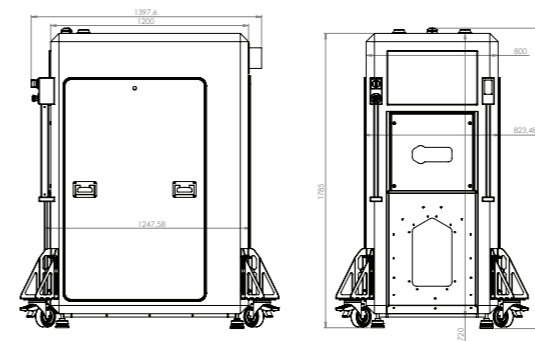


## TECHNICAL SPECIFICATIONS

	EU	US
<b>External Dimensions (WDH)</b>	824 x 1398 x 1822 mm	32.5 x 55.5 x 72 in
<b>Weight</b>	800 Kg	1,765 lbs
<b>Reccomended Operating Area</b>	2,350 x 3,200 mm	92.5 x 126 in
<b>Capacity</b>		
<b>Process Chamber Dimensions (WDH)</b>	400 x 300 x 400 mm	15.7 x 11.8 x 15.7 in
<b>Process Chamber Volume</b>	48 Litres	48 Litres
<b>Consumable Canister Volume</b>	10 Litres	10 Litres
<b>Power</b>		
<b>Single Phase</b> or	220 - 240V, 16A, 50/60Hz, (L+N+PE)	
<b>Three Phase</b>	3 x 400V, 16A, 50/60Hz, (L1+L2+L3+N+PE)	

### FEATURES INCLUDE:

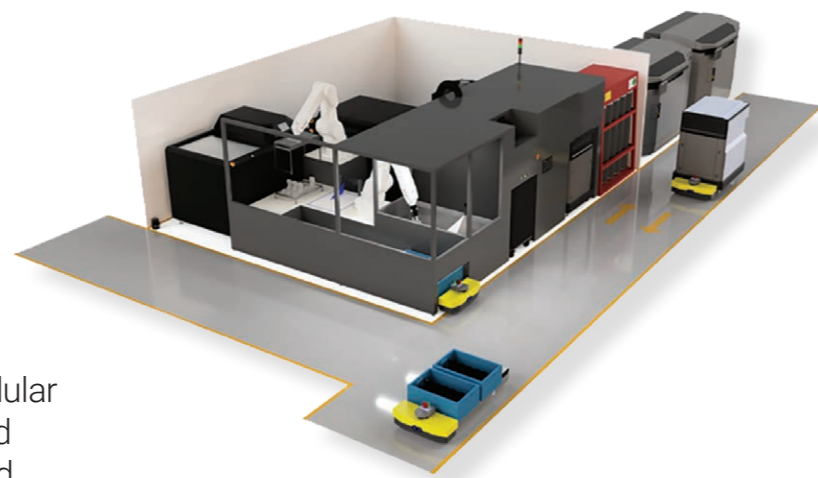
- Safety Circuit: Light curtain and front mounted E-Stop button.
- User Interface (HMI): 1080p Full HD. 21.5" touch screen.
- Consumable Management: RFID canister recognition and fool proof connections.
- Multiple Consumables: Can be used with all of AMT's processing consumables.
- Small Footprint: Reduced footprint and working area requirements.
- Chamber Loading: Front loading at an ergonomic height.
- User Access: RFID controlled user access.
- Industry 4.0 Ready: Built-in capability to connect with MES/ERP systems.



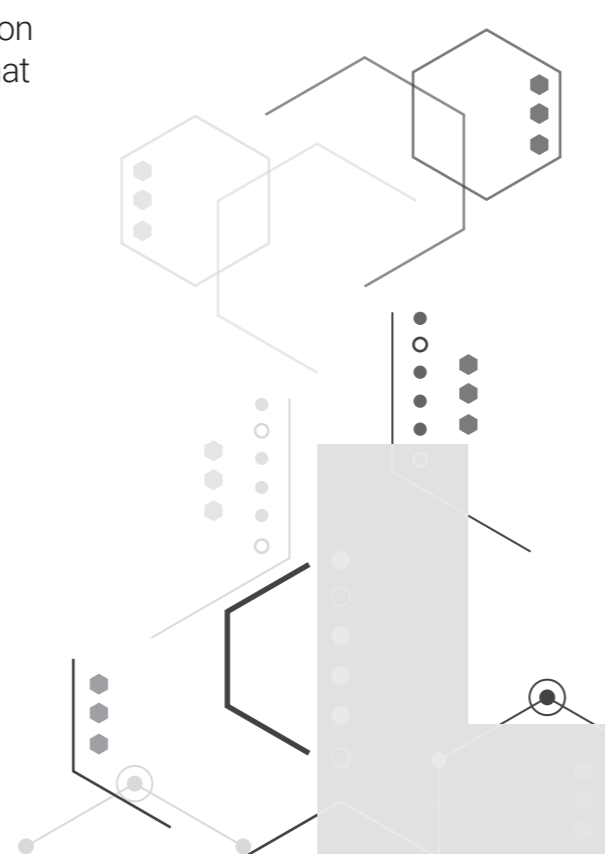


# DIGITAL MANUFACTURING SYSTEM

ENABLING PRINT TO PRODUCT ADDITIVE MANUFACTURING



AMT's DMS is a scalable modular system that is fully automated – enabled by AI and advanced robotics – with a quality management system built in to provide a real end-to-end, fully-automated, lights-out production solution for 3D printed parts that competes well with injection molding.



## TECHNICAL SPECIFICATIONS

CUSTOMIZED ON DEMAND

### AUTOMATED LOADING/UNLOADING

Parts with different geometries can be automatically loaded/unloaded into/from the Post-Pro Chemical Vapor Smoothing machines.

### AUTOMATED INSPECTION

Parts are individually inspected to guarantee part quality and process repeatability.

### AUTOMATED SORTING

Parts are sorted into bins to facilitate downstream processes.

### DATA ACQUISITION

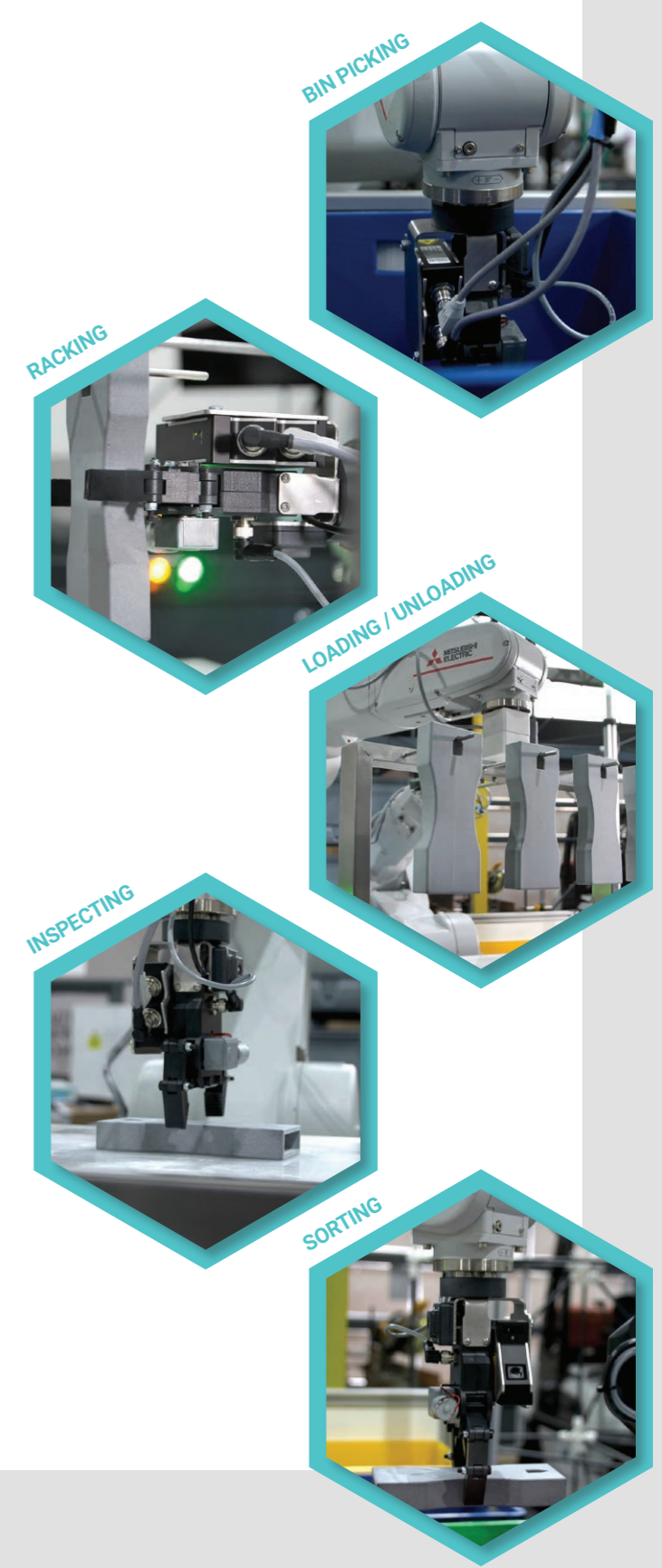
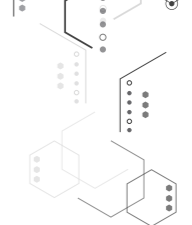
Traceable process and part parameters facilitate troubleshooting and system maintenance.

### INTEGRATION

Industry 4.0 ready with workflow integration capability.

### LIGHTS-OUT OPERATION

24-hour operation allows up to 27 PostPro3D runs per day.



# ORGANIC FINISHING AGENTS

AMT'S PORTFOLIO OF GREEN, BIO-RENEWABLE SOLVENTS WERE DESIGNED SPECIFICALLY TO FIT THE REQUIREMENTS FOR POST-PROCESSING OVER 100 THERMOPLASTIC MATERIALS.



## FINISHING AGENT PORTFOLIO

### FA 326

AMT's core consumable, formerly known as BLASTX (Boundary Layer Automated Smoothing Technology), designed for post-processing over 100 thermoplastic materials. Compatible with Rigid Plastics, Composites, and a range of Elastomers. Commercially available since 2017.

### FA 26

AMT's new generation consumable designed specifically for post-processing Lubrizol M95A and other TPU materials. Commercially available since Q2 2021.

### FA 9202

AMT's new generation consumable designed specifically for post-processing Polypropylene material. Commercially available since Q2 2021.



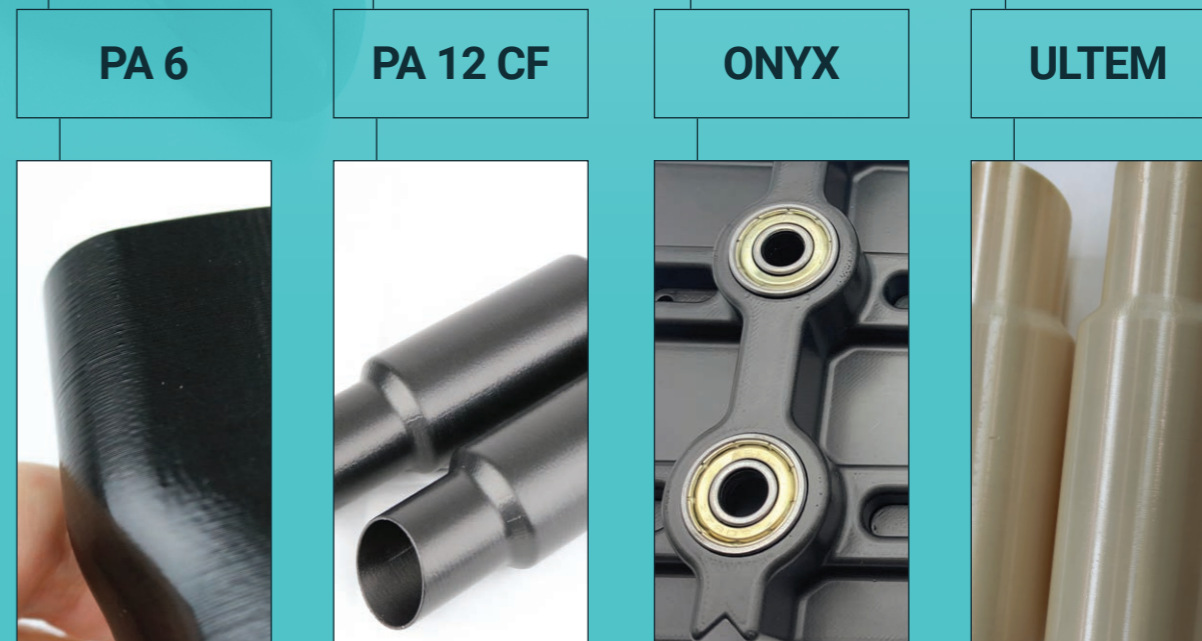
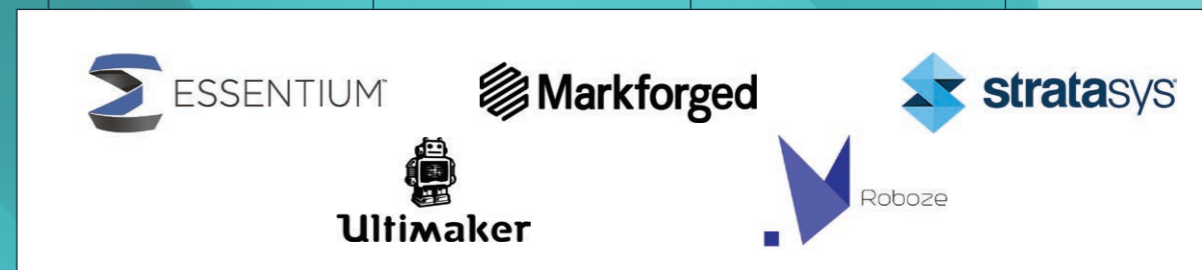
# PRINTER & MATERIAL AGNOSTIC DESIGNED FOR ANY INDUSTRY

## PRINTER AND MATERIAL COMPATIBILITY

- Powder Bed Fusion — SLS • MJF • HSS
- Extrusion — FFF • FGF • HSE
- Rigid Plastics — PA6 • PA11 • PA12 • ABS • PC • Polypropylene
- Elastomers — TPU • TPE • SBC • PEBA
- Composites — Glass & Carbon-filled

### POWDER BED FUSION // MJF • SLS • HSS

### EXTRUSION // FDM • FFF • HSE





# BROAD HORIZONTAL ADOPTION ACROSS MULTIPLE INDUSTRIES

## INCREASE THROUGHPUT AND LOWER COST

Our technologies generate up to a +200% return to our customers on their initial investment, when compared to manually post processing a part.

## SEALED SURFACES

3D printed parts are porous and rough. Our technologies clean, smooth and seal the surface. This enables the ability to pass regulatory testing for end-use in various industries.

## FINISH AND ACCURACY

Our technologies reduces the surface roughness of a 3D printed part to that equivalent of an injection molded or CNC milled part. The process does not affect the dimensional stability of the part.

## IMPROVED PROPERTIES

Our technologies improves the anisotropy of the printed part, while at the same time improving elongation at break.

CONSUMER EYEWEAR



AUTOMOTIVE



DENTAL



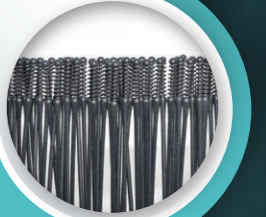
CONSUMER FOOTWEAR



AEROSPACE



MEDICAL



FOOD INDUSTRY



ELECTRONICS



ORTHOPEDICS





## TRY POSTPRO

The best way to understand the full potential of PostPro technology is to try it out with your own printed parts.

**Send us your 3D printed parts for complimentary benchmarking.**





# AMT AROUND THE WORLD

AMT LTD.  
**SHEFFIELD // UNITED KINGDOM**

AMT INC.  
**AUSTIN, TX // UNITED STATES**

AMT KFT.  
**VESZPREM // HUNGARY**

SALES OFFICE  
**TAIPEI // TAIWAN**





# AMT RESELLER NETWORK



3 UNITED STATES



1 CANADA



1 HUNGARY



1 FRANCE



2 GERMANY



1 RUSSIA



1 SOUTH KOREA



1 JAPAN



1 CHINA



1 SWEDEN



1 ITALY



1 TURKEY



1 NETHERLANDS



1 AUSTRALIA



1 ISRAEL



# CONTACT US for more information



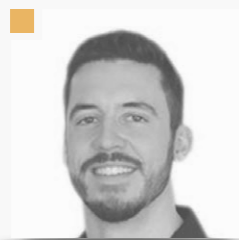
## NORTH AMERICA



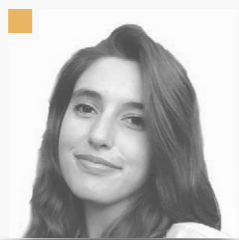
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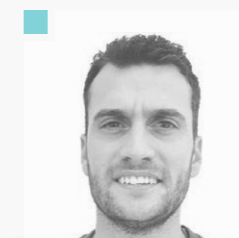


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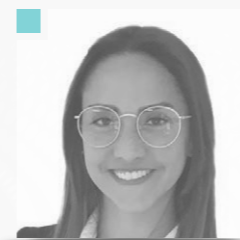
## UK & EUROPE



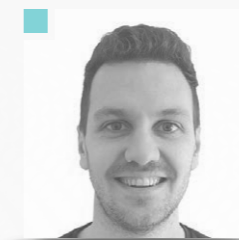
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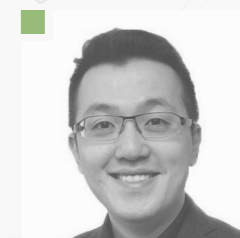


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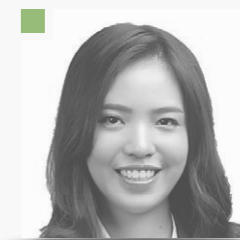


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