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

1

UNPACKING

POSTPRO UP

2

2-IN-1 DEPOWDERING & SHOT BLASTING

POSTPRO DP
POSTPRO DP PRO
POSTPRO DP MAX

3

SURFACE FINISHING

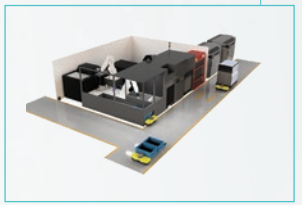
POSTPRO 3D
POSTPRO SF50

4

COLORING

POSTPRO COL

5



DIGITAL MANUFACTURING SYSTEM

PRODUCTS

POSTPRO DP

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

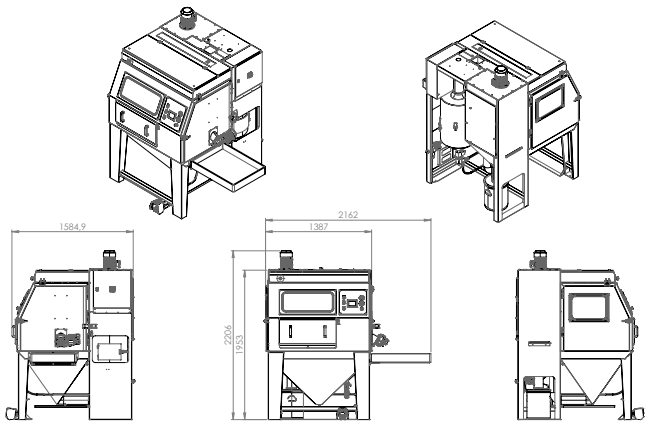
Affordable cleaning and shotblasting system that further reduces manual intervention in the process chain. Suitable for all common abrasives. Features include a large basket with 2 spray nozzles, ionization unit to reduce static electricity, and ventilator system with high extraction rate to prevent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

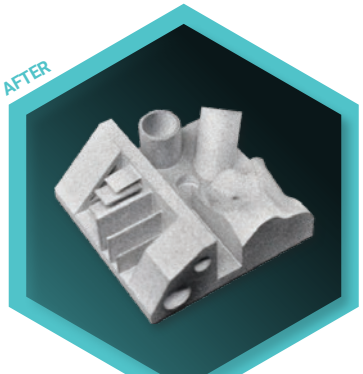
Commercially available since Q2 2020.

TECHNICAL SPECIFICATIONS

Description	US	EU
External dimensions (w x d x h):	57 x 63 x 87 in	1.626 x 1.600 x 2.206 mm
Effective blast room (l x w x h):	49 x 40 x 37 in	1.320 x 940 x 1060 mm
Working height:	33 in	725 mm
Door openings (w x h) (2 pieces)	35 x 31 in	835 x 825 mm
View window (w x h):	26 x 10 in	656 x 266 mm
Maximum load cabinet:	770 lbs	350 kg
Basket with lining: **• Dimensions** **• Approx. volume (depends on size and form of products)** **• Maximum load**	 Ø 24 x 16 in 8 gallons 33 lbs	 Ø 600 x 400 mm 30 liter 15 kg
Blast guns basket (2 pieces):	Hardened blast guns with boron carbide nozzles (ø 0.31 in)	Hardened blast guns with boron carbide nozzles (ø 8 mm)
Filter cartridges (polyester, M-class):	2 filter cartridges of 43.05ft² each	2 filter cartridges of 4 m² each
Capacity ventilator:	3522 gpm	800 m³/h (1,1 kW)
Dust emission:	< 0.0018ppm	< 1,8 mg/Nm³
Atex classification:	Class II 3/-D T257°F	Class II 3/-D T125°C
Lighting:	LED light 50 Watt	
Electrical connection:	3 x 480V, 60 Hz, earth and zero	3 x 400V, 50 Hz, earth and zero
Total power consumption:	1,3 kW	
Colours powder coating:	Light and dark grey (=RAL 7040 / 7015)	
Pneumatic connection/pressure	G 1/2" air supply hose, 6 bar	G 1/2" air supply hose, 6 bar
Min. Pneumatic flow rate	Minimum 71.3 cfm	Minimum 2.02m³/min
Cabin weight (complete):	1,257 lbs	570 kg

*Specifications are subject to change





amt postpro®

POSTPRO DP PRO

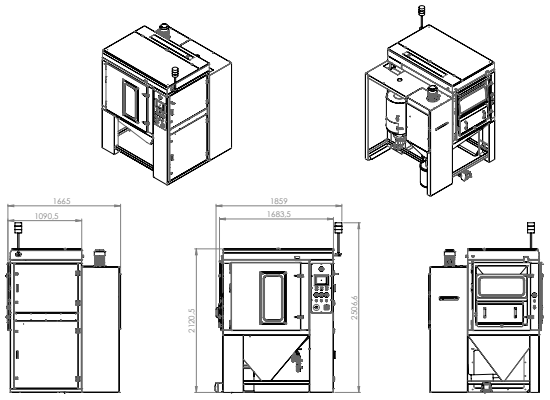
AUTOMATED INDUSTRIAL DEPOWDERING & SHOT BLASTING SYSTEM FOR POLYMER POWDER-BED AM PROCESSES

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

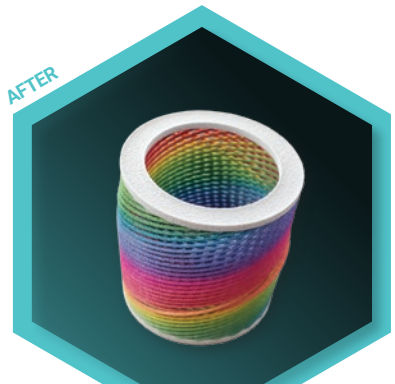
- Increases throughput: large batches in 30 minutes or less
- Stores batch settings (material, build, or part-geometry specific)
- Adjustable angle of rotation for efficiency
- Reliable air filtration design extends life of media
- Ergonomic operator-friendly design
- Easy to install, use, and low maintenance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



Commercially available since Q2 2020.

◆ TECHNICAL SPECIFICATIONS

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



POSTPRO DP MAX

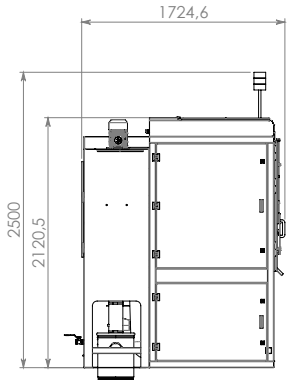
CONTINUOUS INDUSTRIAL 2-IN-1 DEPOWDERING & SHOT BLASTING SYSTEM FOR MAXIMUM THROUGHPUT

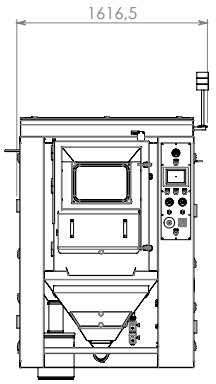
TECHNICAL SPECIFICATIONS

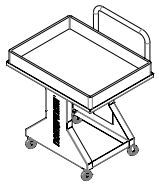
Description	EU	US
External Dimensions	1,617 x 1,725 x 2,500mm	64 x 68 x 99 in
Front Door Opening	770 x 1070mm	30 x 42 in
Processing Belt - Dimensions	Ø590 x 770mm	Ø23 x 30 in
Processing Belt - Volume	63 Liter (Part dependent)	63 Liter (Part dependent)
Processing Belt - Maximum Load	20Kg	44 lbs
Blast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

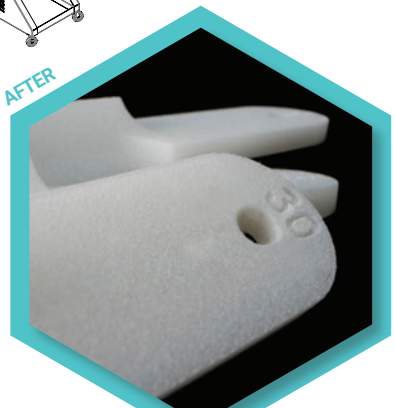
ADVANTAGES OF POSTPRO DP MAX

- 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.

POSTPRO 3D

PATENTED CHEMICAL VAPOR SMOOTHING TECHNOLOGY FOR FINISHING THEROMPLASTIC POLYMER PARTS

PostPro 3D 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.
PostPro 3D reduces lead-time, cost of manufacture, operational & maintenance costs providing the 'missing piece' in the digital manufacturing chain.

Commercially available since 2017.

◆ TECHNICAL SPECIFICATIONS

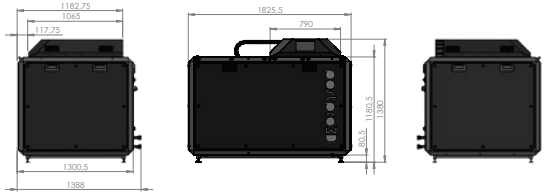
Capacity	US	EU
Chamber Dimensions, W × D × H	16.0" × 24.0" × 15.7"	410mm × 610mm × 400mm
Consumable Cannister Volume	940 in^3	15,400 cm^3
Nominal Chamber Temperature	Maximum 158°F	Maximum 70°C
Dimensions	**US (w × d × h) (in)**	**EU (w × d × h) (mm)**
PostPro3D Machine	71.9 × 54.7 × 54.4	1826 × 1388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



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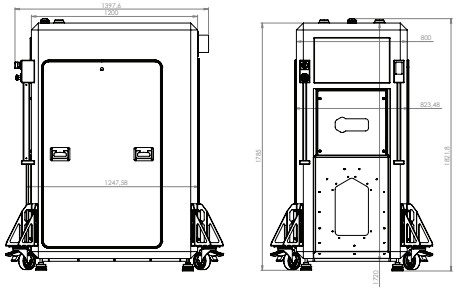
POSTPRO SF50

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
External Dimensions (WDH)	824 x 1398 x 1822 mm	32.5 x 55.5 x 72 in
Weight	450 kg	992 lbs
Reccomended Operating Area	2,350 x 3,200 mm	92.5 x 126 in
Capacity		
Process Chamber Dimensions (WDH)	400 x 300 x 400 mm	15.7 x 11.8 x 15.7 in
Process Chamber Volume	48 Litres	48 Litres
Consumable Canister Volume	10 Litres	10 Litres
Power		
Power Supply	220 - 240V, 50/60Hz	220 - 240V, 50/60Hz
Mains Fuse Protection	16A (characteristic C)	16A (characteristic C)

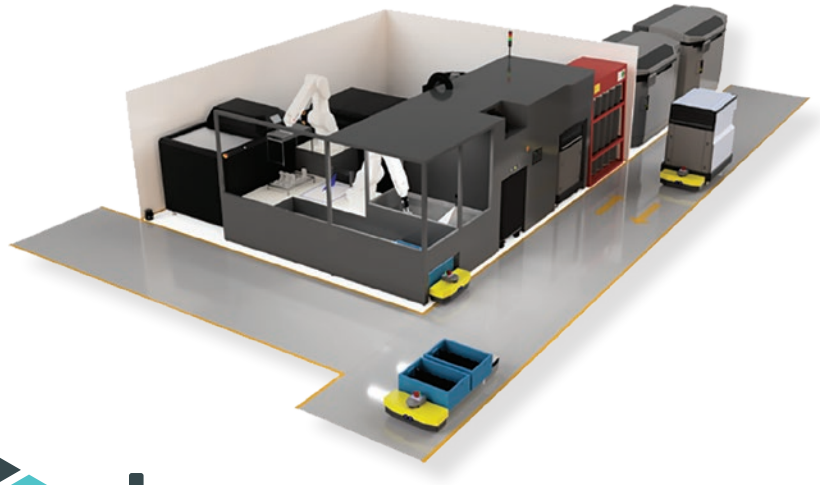
FEATURES INCLUDE:

- 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 finishing agents.
- Small Footprint: Reduced footprint and working area requirements.
- Ergonomic Chamber Loading: Front loading chamber for operator ease and comfort
- 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.



dms
DIGITAL MANUFACTURING SYSTEM

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.

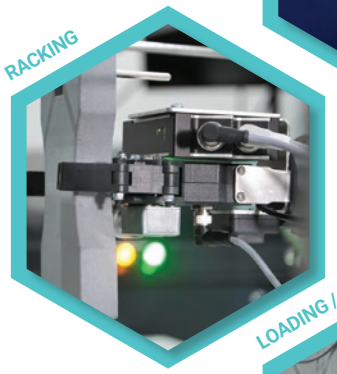
AUTOMATED INSPECTION
Parts are individually inspected to guarantee part quality and process repeatability.

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.

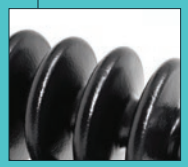
PRINTER & MATERIAL AGNOSTIC
DESIGNED FOR ANY INDUSTRY

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

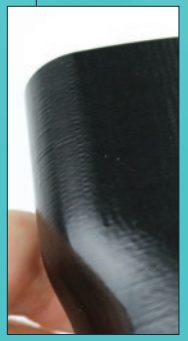
POWDER BED FUSION // MJF • SLS • HSS

3D SYSTEMS · EOS · FARSOON TECHNOLOGIES · HP · formlabs · voxeljet · PRODWAYS TECH

PA 11	PA 12	TPU
		

EXTRUSION // FDM • FFF • HSE

ESSENTIUM · Markforged · stratasys · Ultimaker · Roboze

PA 6	PA 12 CF	ONYX	ULTEM
			

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

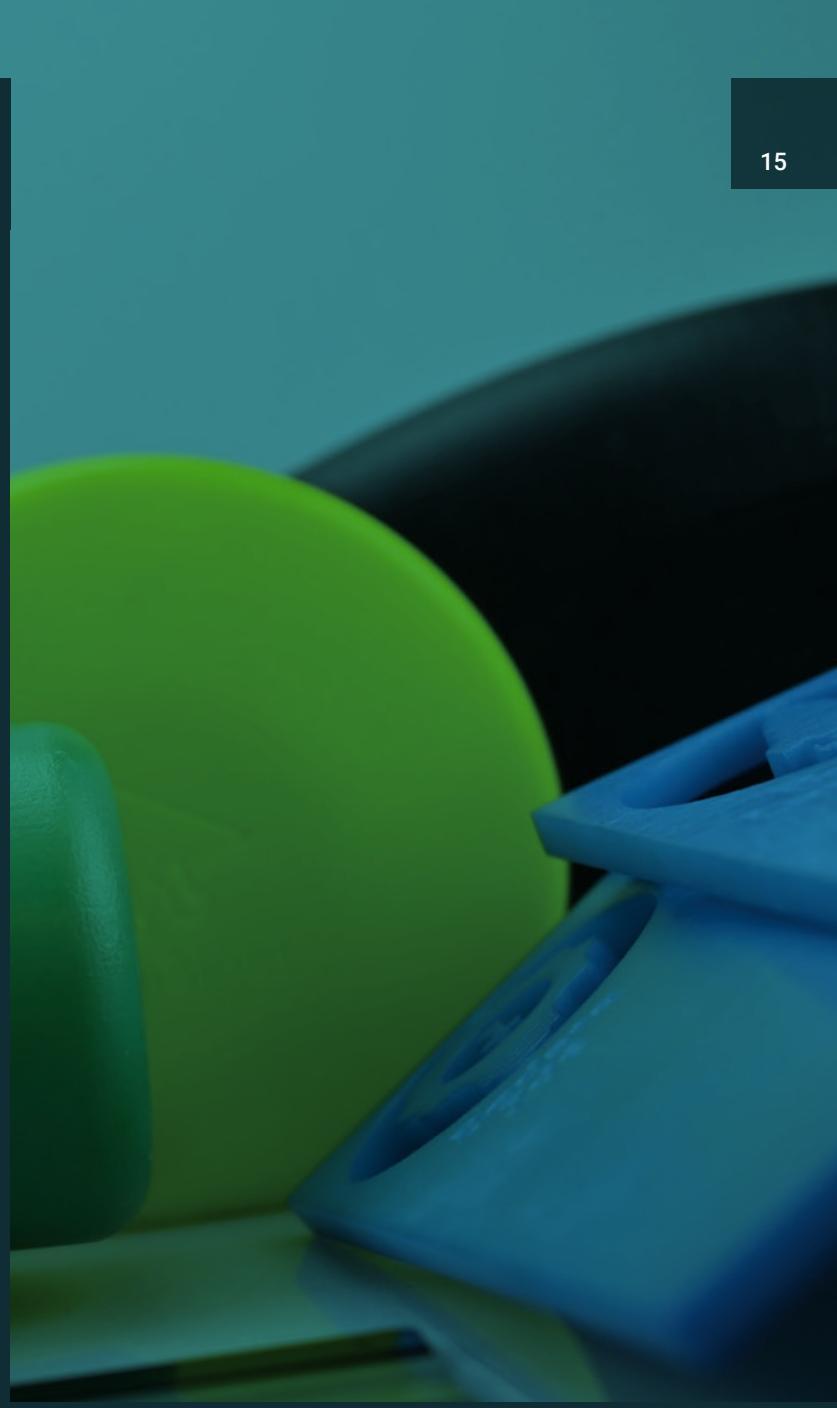
ELECTRONICS

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.



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AMT
AROUND THE WORLD

AMT LTD.
SHEFFIELD // UNITED KINGDOM

AMT INC.
AUSTIN, TX // UNITED STATES

AMT KFT.
VESZPREM // HUNGARY

SALES OFFICE
TAIPEI // TAIWAN

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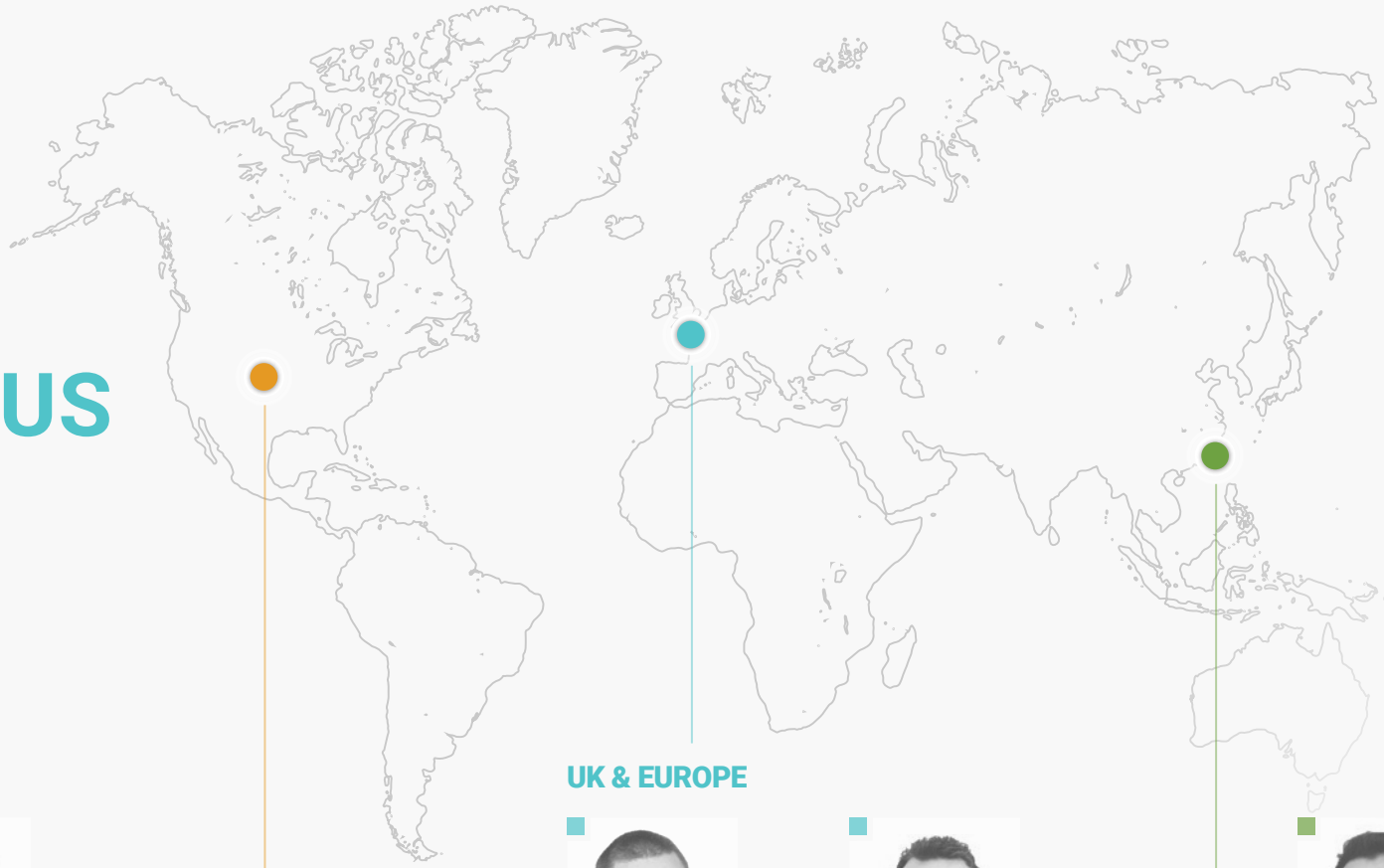
AMT
RESELLER NETWORK

- 3 UNITED STATES — CIMQUEST, HAWK RIDGE SYSTEMS, impac SYSTEMS
- 1 CANADA — designfusion
- 1 HUNGARY — VARINEX
- 1 FRANCE — ERM Fab-to-Test
- 2 GERMANY — KAUT-BULLINGER, ALSO
- 1 RUSSIA — MAGISTRAL TECH
- 1 SOUTH KOREA — AMKOREA
- 1 JAPAN — ED
- 1 CHINA — ORFIN
- 1 SWEDEN — KMC
- 1 ITALY — elmec 3D
- 1 TURKEY — TEKNODIZAYN
- 1 NETHERLANDS — LEERING powered by HENGELO
- 1 AUSTRALIA — EVOK3D
- 1 ISRAEL — CALIBER 3D Printing Solutions, Gestetnertec

CONTACT US
for more information



NORTH AMERICA

LUIS FOLGAR
EVP Technology GTM Strategy & Americas
luis@amtechnologies.com

ALYSSA WELCH
Global Marketing Manager
alyssawelch@amtechnologies.com

BRAD DUERMIT
AMER Market Director
bradduermit@amtechnologies.com

LAUREN CAIN
Application Engineer AMER
laurencain@amtechnologies.com

UK & EUROPE

JOSEPH CRABTREE
Founder & CEO
joseph@amtechnologies.com

GIORGIO IOANNIDES
EMEA Market Director
giorgio@amtechnologies.com

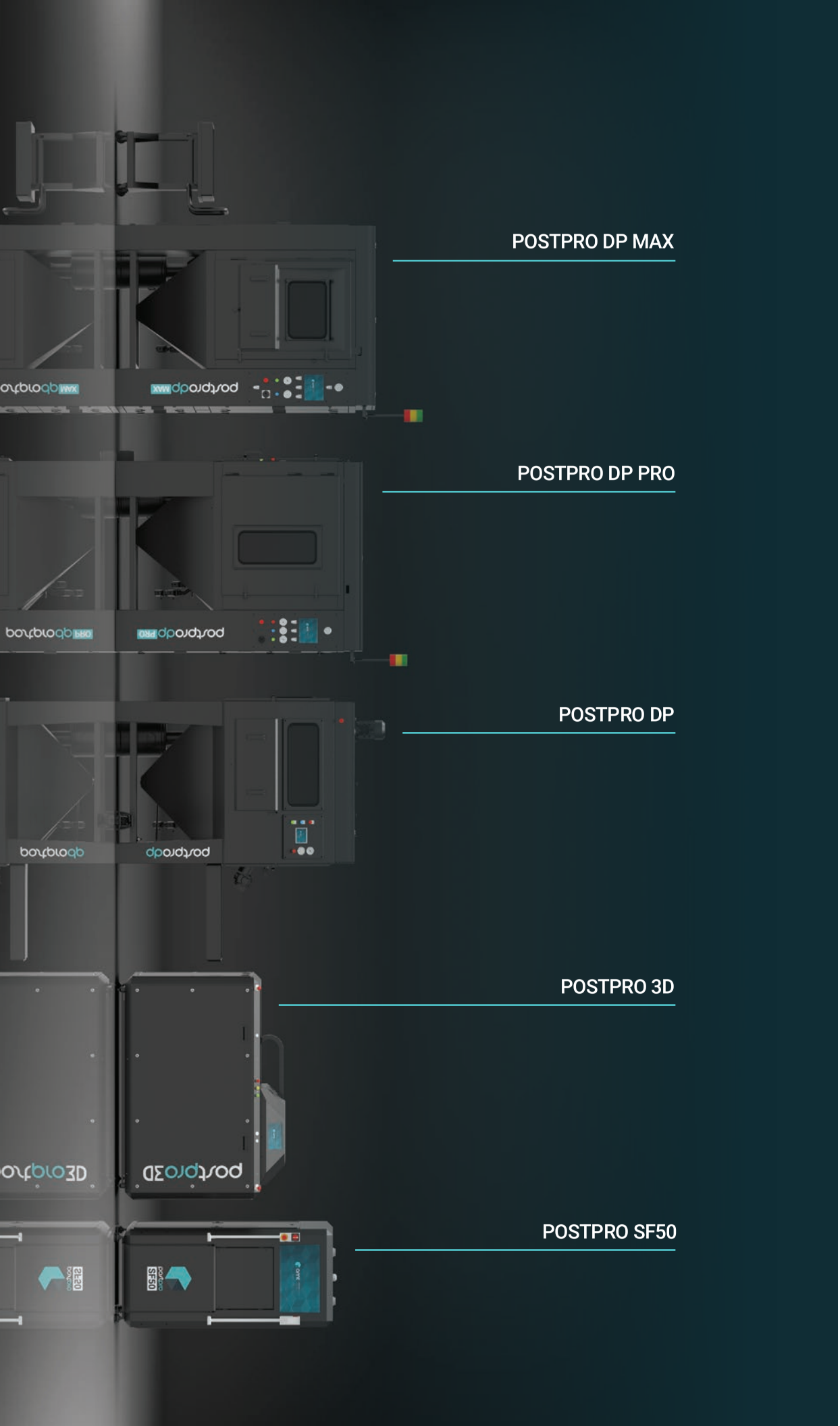
MARIANA CABRERA
Application Engineer EMEA
marianacabrera@amtechnologies.com

GAVIN MINTON
Commercial Operations Manager
gavin@amtechnologies.com

APAC

DAMSON LAI
APAC Market director
damsonlai@amtechnologies.com

YING-TING GUO
Application Engineer APAC
yingtingguo@amtechnologies.com


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

ADDITIVE MANUFACTURING TECHNOLOGIES // AMT

AUTOMATED POST-PROCESSING SOLUTIONS FOR ADDITIVE MANUFACTURING

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