



AMT POSTPRO

AUTOMATED POST-PROCESSING SYSTEMS FOR ADDITIVE MANUFACTURING





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DELIVERING SCALABLE MANUFACTURING THROUGH AUTOMATED FINISHING

3D printing has changed how products are manufactured. We are changing how they are finished.

With our PostPro platform, we take the most complex and time-consuming manual steps of post-processing and turn them into automated, repeatable, and scalable workflows. The result: 3D-printed parts that are no longer limited to prototypes, but delivered as production-ready components at industrial volumes.

Our vision is clear: remove the bottlenecks of additive manufacturing and turn post-processing into a competitive advantage, enabling manufacturers to scale smarter and faster.

From compact entry-level systems to fully automated digital manufacturing lines, we provide solutions tailored to your production needs. Because production at scale demands more than printing. It requires finishing you can rely on.





INTERNATIONAL PRESENCE

AMT operates globally with facilities in the UK, Hungary, and the USA, supporting our customers with R&D, manufacturing, customer experience, and dedicated technical support.



Round Rock // Texas // USA // AMER

- Customer Experience Center
- Application Engineering
- Customer Support



Sheffield // UK // EMEA

- Fundamental R&D
- Automation
- Customer Experience Center
- Customer Support



Veszprem // Hungary // EMEA

- Design and R&D
- Automation
- Manufacturing
- Customer Support
- Industrial 3D Printing

MEET THE TEAM

Our team brings together engineers, scientists, and innovators, united by the mission to make additive manufacturing truly scalable. We work hand in hand with customers to deliver solutions that perform in real-world applications across different industries.



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THE COMPLETE POST-PROCESSING WORKFLOW

AMT systems automate every step of post-processing for polymer 3D printing. Together, these steps deliver injection-molded quality with the flexibility of additive manufacturing.

UNPACKING

Unpacking removes parts from the powder bed after printing. Automated unpacking ensures safe part handling, minimizes powder waste, and lays the foundation for a clean, consistent workflow.

DEPOWDERING

Depowdering clears residual powder from parts printed with SLS, MJF, and other powder-based technologies. Using compressed air and blasting media, it preserves fine details and prepares parts for further finishing.

SURFACE BLASTING

Surface blasting reduces surface roughness by uniformly blasting the surface with controlled media. The result: smoother, uniform parts with enhanced appearance, ready for dyeing or vapor smoothing.

VAPOR SMOOTHING

Vapor smoothing seals surfaces by exposing parts to a controlled vapor. This eliminates peaks and pores, strengthens mechanical properties, and delivers a smooth surface, watertight finishes comparable to injection molding.

COLORING

Coloring adds deep, uniform color to 3D-printed parts. With AMT Dye BLK, manufacturers achieve industry leading finishes that enhance aesthetics and provide a cost-effective route to end-use production.



BENEFITS OF AUTOMATED DEPOWDERING

EFFICIENT, SAFE REMOVAL OF RESIDUAL POWDER

DEPOWDERING USES COMPRESSED AIR AND MEDIA TO REMOVE EXCESS POWDER, LEAVING PARTS CLEAN AND READY FOR IMMEDIATE USE OR FURTHER FINISHING.



FULLY AUTOMATED PROCESS

Typical cycle takes
~10 min



CONSISTENT RESULTS

Batch-to-batch reliability with
minimal operator input



IONIZATION UNIT

Eliminates static build-up for
thorough powder removal



CONFIGURABLE PARAMETERS

Adjustable recipes ensure
cleaning across part
geometries



BENEFITS OF AUTOMATED SURFACE BLASTING

UNIFORM, DYE-READY SURFACES AT SCALE

SURFACE BLASTING REDUCES ROUGHNESS, IMPROVES GLOSS, AND CREATES A CONSISTENT FINISH THAT ENHANCES APPEARANCE AND PREPARES PARTS FOR COLORING OR SEALING.



FULLY AUTOMATED PROCESS

Typical cycle takes ~15-30 min



UNIFORM FINISH

The pressure and rotation deliver consistent surfaces



ENHANCED DETAIL VISIBILITY

Features become sharper and more defined



IMPROVED DYE UNIFORMITY

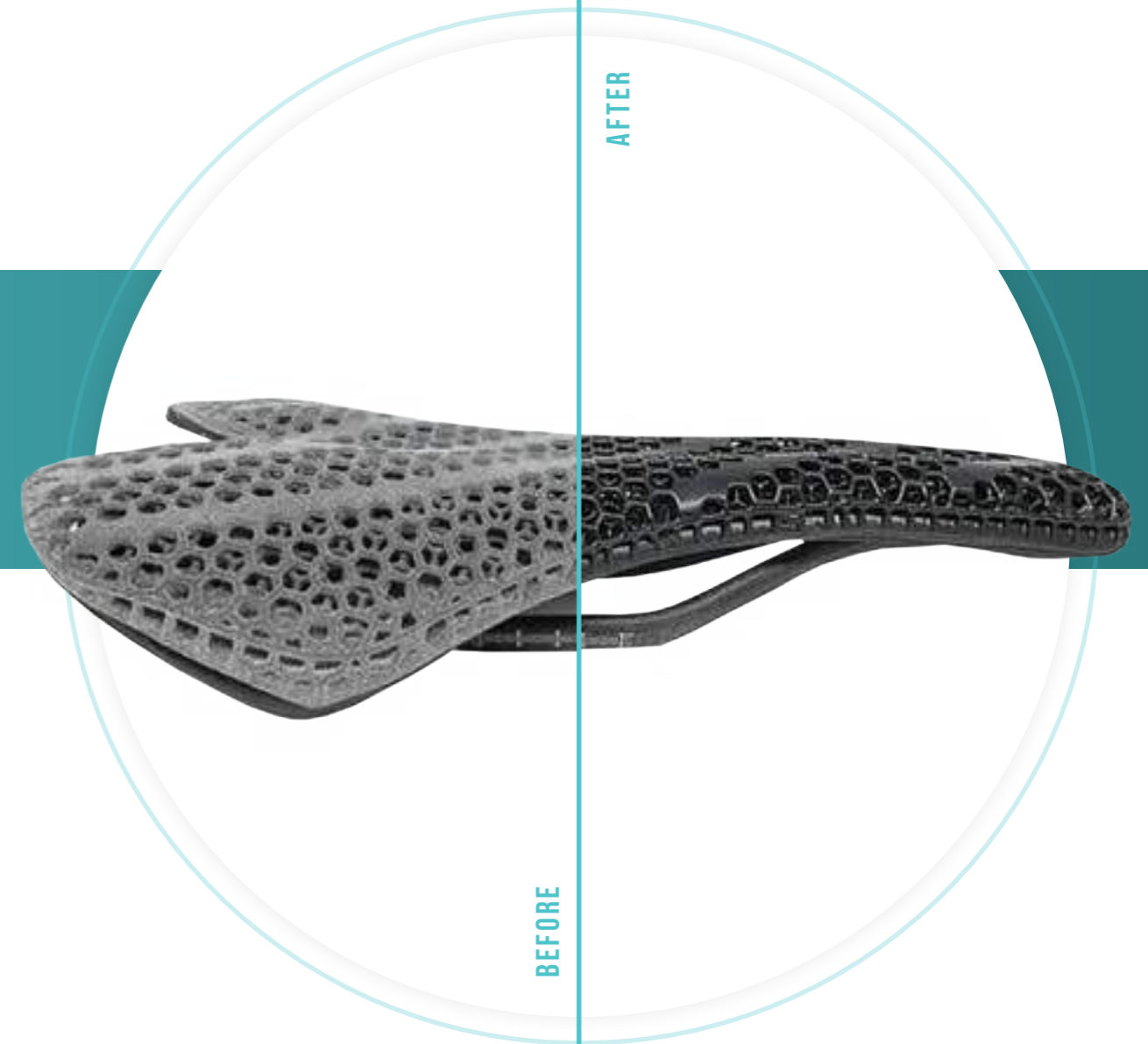
This pre-dyeing step ensures consistent color penetration




BENEFITS OF AUTOMATED VAPOR SMOOTHING

INJECTION MOLDING-QUALITY FINISHES FOR 3D PRINTED PARTS

VAPOR SMOOTHING IS THE ONLY TECHNOLOGY THAT SMOOTHS AND SEALS BOTH THE SURFACE AND INTERNAL CAVITIES OF POLYMER PARTS, WHILE ALSO ENHANCING THEIR MECHANICAL PERFORMANCE.





COST-EFFICIENT
Reduces cost per part and increases throughput


RELIABLE & REPEATABLE
Consistent results from batch to batch


SEALED SURFACES
Eliminates porosity for improved performance


MECHANICAL IMPROVEMENTS
Enhances strength, durability, and elongation


IMPROVED RESISTANCE
Boosts UV and scratch resistance


ENHANCED AESTHETICS
Smooth, glossy finishes comparable to injection molding

ENTRY-LEVEL POST-PROCESSING SYSTEMS

POSTPRO DPX
POSTPRO SFX
POSTPRO SF2X



PostPro DPX Compact Depowdering System

THE POSTPRO DPX IS THE MOST COMPACT AUTOMATED DEPOWDERING SOLUTION IN THE POSTPRO RANGE. DESIGNED FOR SMALL-SCALE ADDITIVE MANUFACTURING, IT DELIVERS EFFICIENT POWDER REMOVAL FOR PROTOTYPING, LABS, AND R&D ENVIRONMENTS.

FEATURES INCLUDE:

- **Compact footprint**, ideal for small workshops and laboratories
- **Spacious 10L basket** equipped with a soft plastic liner for gentle yet thorough depowdering of intricate parts
- **Built-in manual blasting** option for additional flexibility
- **Ionization unit** to reduce static build-up for dust-free parts
- **User-friendly touchscreen** interface for process control, parameter adjustment, and recipe storage

Powerful filter



Manual blasting



Removable nozzle



Spacious basket



TECHNICAL SPECIFICATION

Description	EU	US
External Dimensions (WDH)	985 x 1135 x 1890mm	39 x 44.5 x 74.5 in
Weight	370 kg	815 lbs
Blasting Area (WDH)	850 x 640 x 845 mm	33.5 x 25.5 x 33.5 in
Basket Size	Ø 450 x 210 mm	Ø 17.5 x 8.27 in
Basket Volume/Weight	10 liters / 10 kg	10 liters / 22 lbs
Blast Gun	Single Ø6 mm silicon carbide nozzle	
Filter Cartridge	Single with area of 4 m ²	
Electrical Configuration	230V Single Phase 50/60 Hz	
Total Power Consumption	0.85 kW	
Air Consumption	700l/min at 4 bar	
Explosive Atmosphere	NEN-EN 1127-1:2019	

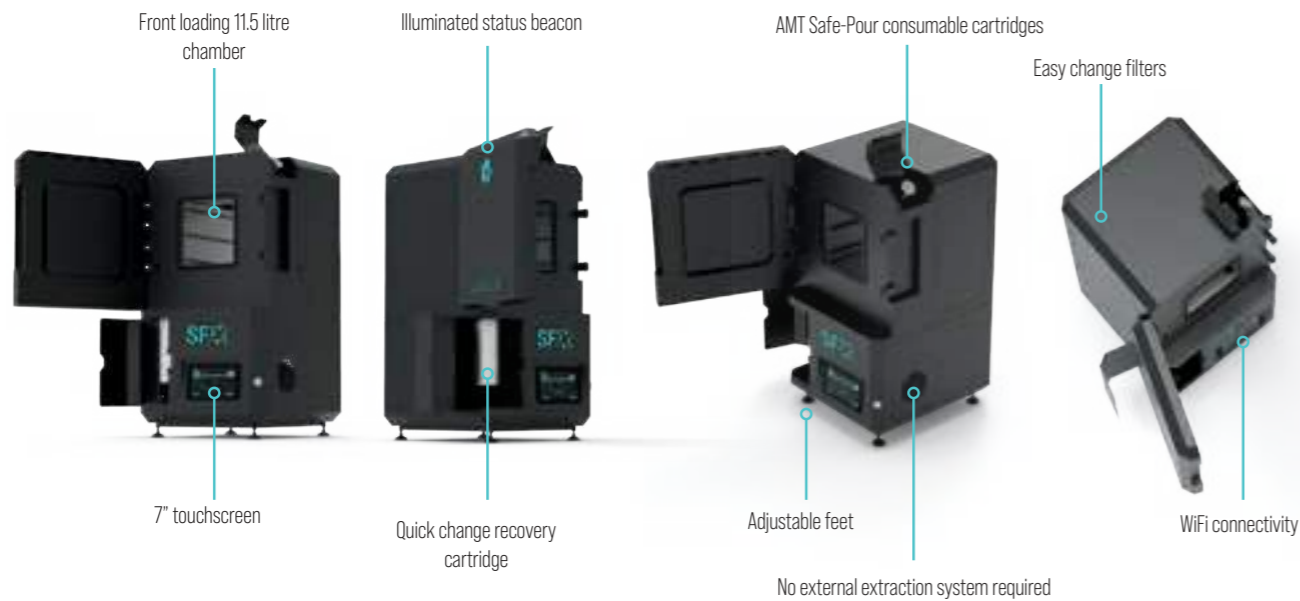


PostPro SFX Benchtop Vapor Smoothing

THE WORLD'S FIRST BENCHTOP VAPOR SMOOTHING SYSTEM BRINGS OUR INDUSTRIAL FINISHING TECHNOLOGY TO SMALLER ENVIRONMENTS. POWERED BY THE SUSTAINABLE POSTPRO PURE CONSUMABLE, THE POSTPRO SFX DELIVERS SEALED, INJECTION-MOLDED SURFACES WITHOUT COMPROMISING SAFETY OR PERFORMANCE.

KEY FEATURES:

- **Compact footprint**, ideal for small workshops and laboratories
- **Safe, non-hazardous consumable** utilizing AMT's green PostPro Pure
- **Enhancing part properties** through smoothing & sealing the surfaces, while also improving mechanical properties
- **The ideal addition** to the PostPro DPX in an entry-level workflow
- **AMT's patented technology** including the following patents: EP3565712, GB2582225 & GB2597240B



TECHNICAL SPECIFICATION

Description	EU	US
External Dimensions (WDH)	450 x 500 x 845 mm	17.7 x 19.7 x 33.3 in
Weight	82 kg	181 lb
Process Chamber Dimensions (WDH)	190 x 320 x 190 mm	7.5 x 12.6 x 7.5 in
Process Chamber Volume	11.5 liters	
Electrical Configuration	230V / Single Phase / 16A or 13A (UK)	120V / Single Phase / 15A



PostPro SF2X Benchtop Vapor Smoothing

THE POSTPRO SF2X BUILDS ON THE PROVEN SUCCESS OF THE POSTPRO SFX, DELIVERING THE SAME INDUSTRY-LEADING VAPOR SMOOTHING PERFORMANCE IN A SYSTEM WITH DOUBLE THE CHAMBER CAPACITY.

KEY FEATURES:

- **Larger process chamber** with over 24L volume for increased production
- **Utilizing AMT's green PostPro Pure consumable**
- **Smooths and seals surfaces** to enhance part quality
- **Lower cost** per part compared to the SFX
- **Pairs perfectly with the PostPro DPX** for entry-level workflows

STAGES OF VAPOR SMOOTHING

Part loading



Processing



Curing & Drying



Part removal



TECHNICAL SPECIFICATION

Description	EU	US
External Dimensions (WDH)	450 x 500 x 845 mm	17.7 x 19.7 x 33.3 in
Weight	90 kg	198 lb
Process Chamber Dimensions (WDH)	250 x 390 x 250 mm	9.8 x 15.4 x 9.8 in
Process Chamber Volume	24.4 liters	
Electrical Configuration	230V / Single Phase / 16A or 13A (UK)	120V / Single Phase / 15A



AVAILABLE CONFIGURATIONS



<p>STARTER BUNDLE</p>	<p>STEP INTO THE WORLD OF POST-PROCESSING WITH THE ESSENTIALS.</p>	<p>WHAT'S INCLUDED</p> <ul style="list-style-type: none"> · 1x POSTPRO SFX SYSTEM · 1x SINGLE CONSUMABLE CARTRIDGE · 3x PROCESSING RACKS · 1x RACK STORAGE STAND <ul style="list-style-type: none"> · 2x AIR FILTERS · 12 MONTHS MANUFACTURER'S WARRANTY 	<p>1x PostPro SFX 3x rack 1x rack stand 1x consumable cartridges 2x air filter cartridges</p>
<p>COMPLETE BUNDLE</p>	<p>COMPLETE YOUR PRODUCTION WITH EVERYTHING YOU NEED TO VAPOR SMOOTH YOUR PARTS.</p>	<p>WHAT'S INCLUDED</p> <ul style="list-style-type: none"> · 1x POSTPRO SFX SYSTEM · 1x POSTPRO SFX MACHINE STAND · 3x CONSUMABLE CARTRIDGES · 1x RACK PREPARATION STAND · 1x RACK STORAGE STAND · 6x PROCESSING RACKS <ul style="list-style-type: none"> · 6x AIR FILTERS · 24 MONTHS MANUFACTURER'S WARRANTY 	<p>1x PostPro SFX & Stand 6x rack 1x rack stand 1x preparation stand 3x consumable cartridges 6x air filter cartridges</p>
<p>ULTIMATE BUNDLE</p>	<p>LEVEL UP YOUR POST-PROCESSING WORKFLOW WITH BOTH MACHINES FROM OUR X-SERIES: THE POSTPRO DPX DEPOWDERING SYSTEM AND THE POSTPRO SFX VAPOR SMOOTHING MACHINE.</p>	<p>WHAT'S INCLUDED</p> <ul style="list-style-type: none"> · 1x POSTPRO SFX SYSTEM · 1x POSTPRO SFX MACHINE STAND · 1x POSTPRO DPX SYSTEM · 3x CONSUMABLE CARTRIDGES · 1x RACK PREPARATION STAND <ul style="list-style-type: none"> · 1x RACK STORAGE STAND · 6x PROCESSING RACKS · 6x AIR FILTERS · 24 (POSTPRO SFX) & 12 (POSTPRO DPX) MONTHS MANUFACTURER'S WARRANTY 	<p>1x PostPro DPX 1x PostPro SFX 6x rack 1x rack stand 1x preparation stand 3x consumable cartridges 6x air filter cartridges</p>

INDUSTRIAL UNPACKING & BLASTING SYSTEMS

POSTPRO UP
POSTPRO DP/SB
POSTPRO DP/SB MAX



PostPro UP Fully Automated Unpacking

AUTOMATED UNPACKING FOR INDUSTRIAL POLYMER ADDITIVE MANUFACTURING

The PostPro UP is a fully automated unpacking solution designed for industrial polymer additive manufacturing. It delivers safe, consistent, and highly efficient removal of excess powder from 3D printed build cakes using an optimized combination of mechanical vibration, pressurised air flow, and controlled drum rotation. Engineered for high-throughput production environments, the PostPro UP automatically separates and recovers reusable powder, transferring it directly to an integrated or external AMT Powder Recovery System. Available in configurations compatible with both HP Natural Cooling Units and EOS P3 Build Units, it provides a seamless and reliable first stage in the fully automated PostPro workflow.



KEY FEATURES:

- **Automated unpacking** with combined vibration and air-blast powder removal
- **Dedicated interfaces** for HP NCU and EOS P3 build units
- **Direct integration** with the AMT Powder Recovery System
- **7-inch touchscreen HMI** with recipe management and safety interlocks
- **Ergonomic loading height** (approximately 1200 mm) with front-service access
- **Dual emergency stops and safety door interlocks** for operator protection
- **Optional integration** with Depowdering Modules (DMS cells) for complete automation

TECHNICAL SPECIFICATION

Description	EU / US Values
Printer Compatibility	HP Natural Cooling Unit (NCU) · EOS P3
Material Compatibility	PA11 · PA12 · TPU · Other compatible polymers used in MJF and SLS systems
External Dimensions (L × W × H)	2530 × 1200 × 2060 mm (≈ 99.6 × 47.2 × 81.1 in)
Approx. Weight	700 kg
Recommended Operating Area	3530 × 2200 × 3060 mm (≈ 139 × 86.6 × 120.5 in)
Power Supply	400 V 50 Hz / 480 V 60 Hz (3-phase)
Compressed Air Pressure	≥ 6.5 bar
Air Consumption	≈ 300 L/min
Extraction Port	Ø 76 mm
Connectivity	Ethernet / USB



CONFIGURATIONS:

- HP Natural Cooling Unit (NCU)
- EOS P3

INTENDED USE:

Automated unpacking of polymer build cakes prior to depowdering

SUPPORTED MATERIALS:

- PA11
- PA12
- TPU
- Other polymers used in MJF & SLS systems

PROVEN TECHNOLOGY FOR EFFICIENT POWDER REMOVAL

The PostPro UP combines controlled vibration and precision air-blast cleaning within a rotating drum to remove residual powder evenly and safely. Engineered for repeatable performance, it consistently delivers clean, production-ready parts while recovering reusable powder for subsequent builds, optimizing both quality and material efficiency.

SEAMLESS COMPATIBILITY WITH LEADING PRINTER PLATFORMS

Available in dedicated configurations for HP MJF 5200 Series and EOS P3 build units, the PostPro UP integrates effortlessly into established industrial polymer workflows. Each system is factory-calibrated for its specific printer interface and connects directly to AMT's Powder Recovery System, ensuring a smooth and continuous process chain from build to unpack.

DESIGNED FOR INDUSTRIAL AUTOMATION AND EASE OF USE

Featuring a 7-inch touchscreen HMI, programmable process control, and comprehensive safety interlocks, the PostPro UP enables fully automated, unattended operation. Its ergonomic loading height and front-access service design streamline daily operation and maintenance, supporting reliable performance in demanding production environments.

PostPro DP/SB Industrial Performance Depowdering

BUILT FOR DEMANDING PRODUCTION SETTINGS, THE POSTPRO DP PROVIDES ROBUST, AUTOMATED DEPOWDERING WITH ENHANCED THROUGHPUT. IT IS SUITED TO MANUFACTURERS PROCESSING A VARIETY OF POLYMER POWDERS, OFFERING RELIABILITY FOR CONTINUOUS USE.

KEY FEATURES:

- **Large 30L basket** capacity suitable for different part sizes & equipped with a soft plastic liner for gentle yet thorough depowdering
- **Dual blasting nozzles** to reduce cycle times & maximize blasting performance
- **Strong cyclone** for effective separation of blasting media to ensure consistent operation
- **Built-in manual blasting** option for additional flexibility
- **Ionization unit** to reduce static build-up for dust-free parts
- **User-friendly touch screen** interface for process control, parameter adjustment, and recipe storage

Manual blasting



Two blasting nozzles



Deionization nozzles



Large basket



TECHNICAL SPECIFICATION

Description	EU	US
External Dimensions (WDH)	1,626 x 1,600 x 2,206 mm	64 x 63 x 87 in
Weight	570 kg	1,257 lbs
Blasting Area (WDH)	1,320 x 940 x 1,060 mm	52 x 37 x 42 in
Basket Size	Ø 600 x 400 mm	Ø 23.5 x 15.5 in
Basket Volume/Weight	30 liters / 15 kg	30 liters / 33 lbs
Blast Guns	2 x Ø8 mm boron carbide nozzle	
Filter Cartridge	2 filter cartridges of 4 m ² each	
Electrical Configuration	3 x 400V, 50hz, earth and zero, 16A	3 x 480V + Earth, 60Hz, 16A
Total Power Consumption	1,3 kW	
Air Consumption	2.02m ³ /min	71.3 cfm
Explosive Atmosphere	NEN-EN 1127-1:2019	



PostPro DP/SB MAX High-Throughput Depowdering

ENGINEERED FOR MAXIMUM THROUGHPUT, THE POSTPRO DP MAX IS POWERED BY A CONTINUOUS TUMBLE-BELT TECHNOLOGY TO PROCESS LARGE BATCHES. IT ENABLES MANUFACTURERS TO SCALE PRODUCTION WITH EFFICIENCY AND CONSISTENCY.

KEY FEATURES:

- **Continuous 50L** belt system for high-volume depowdering
- **Automatic unloading** to save operator time & improve ergonomics
- **Triple blasting nozzles** to reduce cycle times & maximize blasting performance
- **Strong cyclone** for effective separation of blasting media to ensure consistent operation
- **Ionization unit** to reduce static build-up for dust-free parts
- **User-friendly touch screen** interface for process control, parameter adjustment, and recipe storage

Belt technology



Programmable recipes



Deionization nozzles

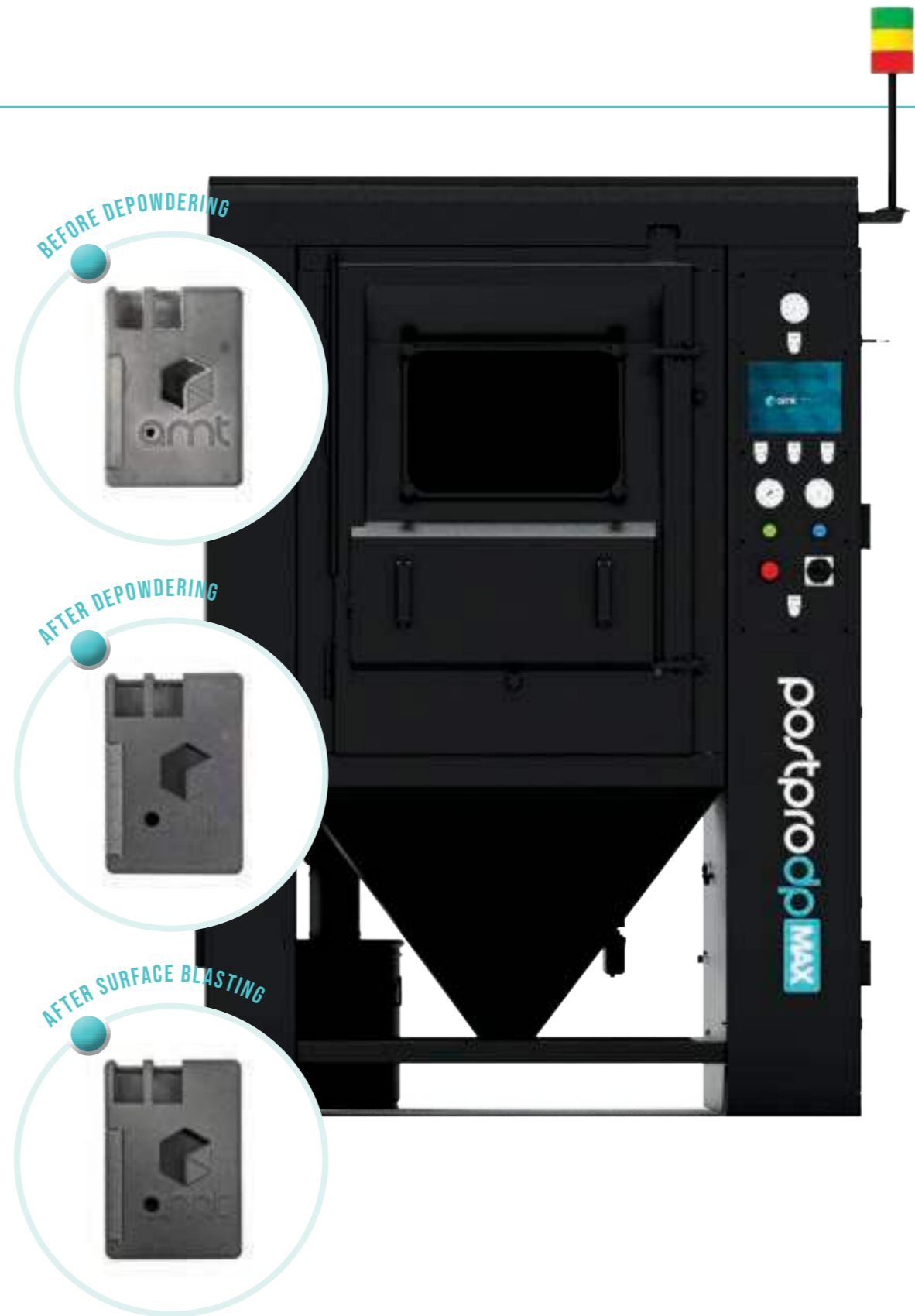


Powerful cyclone



TECHNICAL SPECIFICATION

Description	EU	US
External Dimensions (WDH)	1,617 x 1,760 x 2,500 mm	64 x 70 x 99 in
Weight	1,250 kg	2,756 lbs
Front Door Opening (WH)	740 x 1,074 mm	29 x 42 in
Belt Dimensions	Ø590 x 740 mm	Ø23 x 29 in
Belt Volume/Weight	50 liters / 30kg	50 liters / 66 lbs
Blast Guns	3 x Ø8 mm boron carbide nozzle	
Filter Cartridge	2 filter cartridges of 4 m ² each	
Electrical Configuration	3 x 400V, 50 Hz, earth and neutral, 25A	3 x 480V, 60 Hz, earth and neutral, 25A
Total Power Consumption	3.0kW	
Air Consumption	3.0m ³ /min	106 cfm
Explosive Atmosphere	NEN-EN 1127-1:2019	



COMBINED DEPOWDERING & SURFACE BLASTING

POSTPRO DUO MAX



PostPro DUO MAX Combined Depowdering and Surface Blasting Systems

THE POSTPRO DUO MAX INTEGRATES DEPOWDERING AND SURFACE BLASTING INTO ONE SYSTEM, MAXIMIZING THROUGHPUT AND MINIMIZING FOOTPRINT. IT PROVIDES A COMPLETE FINISHING STEP FOR PARTS REQUIRING SMOOTH, DYE-READY SURFACES.

KEY FEATURES:

- **Dual-functionality** - depowdering and blasting in one process
- **Continuous 50L belt** system for high-volume depowdering
- **Automatic unloading** to save operator time & improve ergonomics
- **Triple blasting nozzles** to reduce cycle times & maximize blasting performance
- **Improved cyclone** including an external cyclone for excellent results for both depowdering & surface blasting
- **Ionization unit** to reduce static build-up for dust-free parts
- **User-friendly touch screen** interface for process control, parameter adjustment, and recipe storage

Belt technology



Programmable recipes



Deionization nozzles

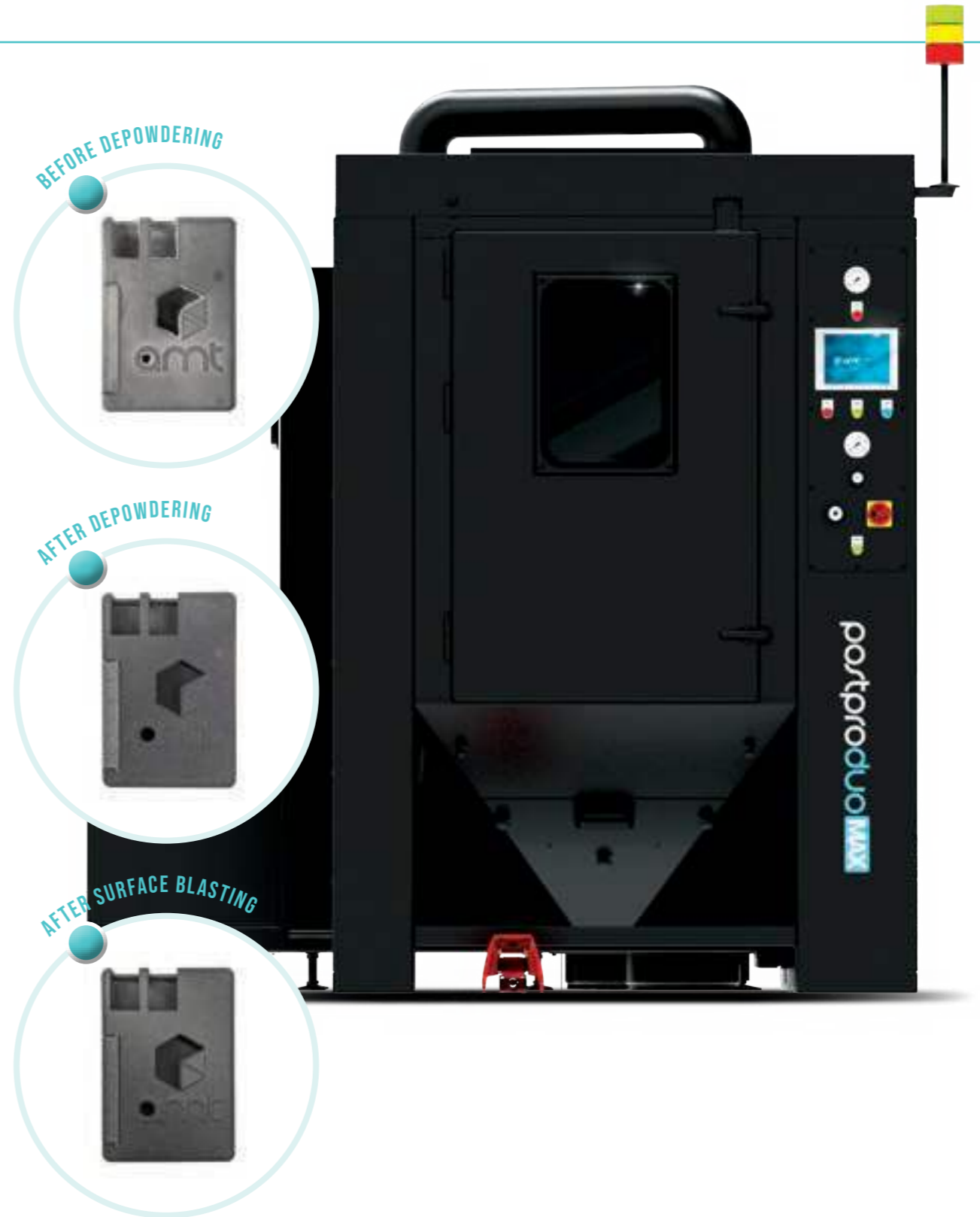


Powerful cyclone



TECHNICAL SPECIFICATION

Description	EU	US
External Dimensions (WDH)	2,170 x 1,983 x 2,437 mm	64 x 68 x 99 in
Weight	2,400 kg	5,291 lbs
Front Door Opening (WH)	770 x 1,075 mm	30 x 42 in
Belt Dimensions	Ø590 x 740 mm	Ø23 x 30 in
Belt Volume/Weight	50 liters / 30 kg	50 liters / 66 lbs
Blast Guns	3 x Ø8 mm boron carbide nozzle	
Filter Cartridge	2 filter cartridges of 4 m ² each	
Electrical Configuration	3 x 400V, 50 Hz, earth and neutral, 25A	3 x 480V, 60 Hz, earth and neutral, 25A
Total Power Consumption	3.6 kW	
Air Consumption	3.0m ³ /min	106 cfm
Explosive Atmosphere	NEN-EN 1127-1:2019	



COMPARING THE DEPOWDERING & SURFACE BLASTING RANGE

Depowdering is essential for the part's functionality and prepares it for any further post-processing steps, such as surface blasting or vapor smoothing.

All of our depowdering machines are rated to NEN-EN 1127-1:2019 suitable for locations with combustible dust and media. Find the right system for your throughput and application.

	POSTPRO DPX	POSTPRO DP/SB	POSTPRO DP/SB MAX	POSTPRO DUO MAX
EXTERNAL DIMENSIONS (WDH)	985x1135x1890 mm	1626x1600x2206 mm	1617x1760x2506 mm	2170x1983x2437 mm
BASKET/BELT CAPACITY	10L / 10kg	30L / 30kg	50L / 30kg	50L / 30kg
BLASTING NOZZLE QTY	1 x ø6mm	2 x ø8mm	3 x ø8mm	3 x ø8mm
MANUAL BLASTING	Yes, Shared	Yes, Shared	Yes, Shared	Yes, Shared
AUTOMATICALLY ADJUSTABLE	✗	✗	✓	✓
STORABLE RECIPES	✓	✗	✓	✓

INDUSTRIAL VAPOR SMOOTHING

POSTPRO SF50
POSTPRO SF100



PostPro SF50 Scalable Vapor Smoothing

THE POSTPRO SF50 IS A COMPACT, PATENTED VAPOR SMOOTHING SYSTEM THAT ENABLES PRODUCTION-READY SURFACES FOR SMALL TO MEDIUM VOLUMES. IT COMBINES ADVANCED AUTOMATION WITH OPERATOR SAFETY IN A REDUCED FOOTPRINT.

KEY FEATURES:

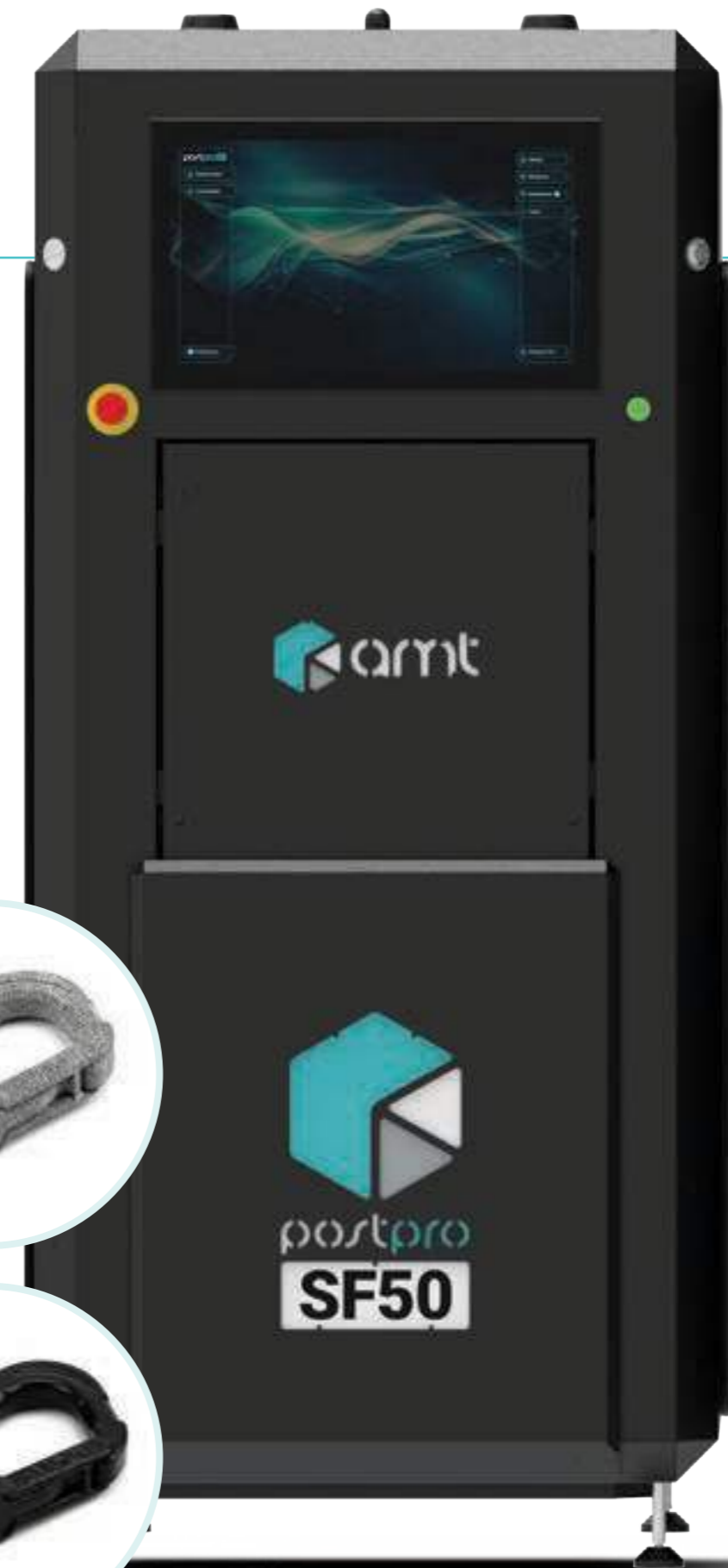
- **Front loading 48L chamber** at an ergonomic height
- **Compatibility with over 100 thermoplastics**, including rigid plastics and elastomers
- **Consumable compatibility** with our available consumables, including sustainable options
- **Optimized design** through a compact footprint, improved ergonomics, and optional stabilizers for easy transport and installation
- **Industry 4.0 ready** via RFID-controlled access, HD touchscreen, and built-in connectivity for seamless MES/ERP integration

STAGES OF VAPOR SMOOTHING



TECHNICAL SPECIFICATION

Description	EU	US
External Dimensions (WDH)	830 x 1400 x 1830 mm	33 x 55.5 x 72 in
Weight	800 kg	1,765 lbs
Recommended 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 liters	
Consumable Canister Volume	10 liters	
Power		
Three Phase	3 x 400V, 16A, 50/60Hz (L1+L2+L3+N+PE)	3 x 480V, 16A, 50/60Hz (L1+L2+L3+PE)



PostPro SF100 Industrial Vapor Smoothing

THE POSTPRO SF100 EXTENDS THE CAPABILITIES OF THE POSTPRO SF50 WITH A LARGER CHAMBER AND HIGHER THROUGHPUT. DESIGNED FOR MANUFACTURERS SCALING INTO INDUSTRIAL VOLUMES, IT DELIVERS CONSISTENT, HIGH-QUALITY RESULTS ACROSS LARGE BATCHES.

KEY FEATURES:

- **Front loading 96L chamber** for large parts or batch production
- **Compatibility with over 100 thermoplastics**, including rigid plastics and elastomers
- **Consumable compatibility** with our available consumables, including sustainable options
- **Optimized design** through a compact footprint, improved ergonomics, and optional stabilizers for easy transport and installation
- **Industry 4.0** ready via RFID-controlled access, HD touchscreen, and built-in connectivity for seamless MES/ERP integration

STAGES OF VAPOR SMOOTHING



TECHNICAL SPECIFICATION

Description	EU	US
External Dimensions (WDH)	830 x 1400 x 1830 mm	33 x 55.5 x 72 in
Weight	850 kg	1,875 lbs
Recommended Operating Area	2,350 x 3,200 mm	92.5 x 126 in
Capacity		
Process Chamber Dimensions (WDH)	400 x 600 x 400 mm	15.7 x 23.6 x 15.7 in
Process Chamber Volume	96 liters	
Consumable Canister Volume	10 liters	
Power		
Three Phase	3 x 400V, 16A, 50/60Hz (L1+L2+L3+N+PE)	3 x 480V, 16A, 50/60Hz (L1+L2+L3+PE)



VAPOR SMOOTHING CONSUMABLES OVERVIEW

AMT'S CONSUMABLES ARE ENGINEERED TO DELIVER SAFE, CONSISTENT, AND REPEATABLE RESULTS ACROSS A WIDE RANGE OF 3D PRINTING POLYMERS. FROM HIGH-PERFORMANCE FINISHING AGENTS TO SUSTAINABLE GREEN CHEMISTRY SOLUTIONS, OUR PORTFOLIO PROVIDES THE RIGHT FIT FOR EVERY APPLICATION.

ALL CONSUMABLES ARE:



TESTED FOR
BIOCOMPATIBILITY
AND SAFETY
ACCORDING TO ISO
STANDARDS



CERTIFIED FOR
FOOD AND SKIN
CONTACT WHERE
APPLICABLE



REACH AND ROHS
COMPLIANT



OPTIMIZED FOR
USE WITH POSTPRO
SYSTEMS

FA5802

CONSUMABLES OVERVIEW

PostPro Pure Sustainable Finishing Agent

Also known as PostPro Pure, this consumable is our green chemistry solution. It is biodegradable, non-hazardous, and FDA-listed for food contact. PostPro Pure delivers high-quality finishing for a wide material range, including nylons, TPU, and composites, while ensuring operator and environmental safety.



FA326

High-Performance Finishing Agent

A versatile consumable for a broad range of rigid plastics, elastomers, and composites. FA326 delivers smooth, sealed surfaces with improved mechanical properties, making it ideal for industrial applications requiring durability and precision.



FA9202

Polypropylene Finishing Agent

FA9202 is AMT's dedicated, non-hazardous consumable for finishing polypropylene parts. It enhances surface quality and sealing, unlocking the use of PP in demanding industries such as automotive, aerospace, medical and consumer goods.



PRINTING TECHNOLOGY + MATERIAL	FA326	FA5802	FA9202
MJF PA 12	✓	✓	✗
MJF PA 12 Filled	✓	✓	✗
MJF PA 11	✓	✓	✗
MJF Forward AM TPU	✓	✓	✗
MJF Lubrizol TPU	✗	✓	✗
MJF Polypropylene	✗	✗	✓
SLS PA 12	✓	✓	✗
SLS PA 12 Filled	✓	✓	✗
SLS PA 11	✓	✓	✗
SLS Polypropylene	✗	✗	✓
FDM ABS, PC, PBT, ASA, PET	✓	✗	✗
FDM Ultem	✗	✓	✗
CNC machined plastics (PC, PEI, PMMA)	✗	✓	✗

* More compatible materials can be found in our compatible material documents.

The Digital Manufacturing System (DMS)

AUTOMATING POSTPRO FOR SCALABLE PRODUCTION

THE POSTPRO DMS ENABLES FULLY AUTOMATED, LIGHTS-OUT POST-PROCESSING. DESIGNED FOR HIGH-VOLUME ADDITIVE MANUFACTURING, IT INTEGRATES SEAMLESSLY WITH OUR POSTPRO SF SERIES TO MAXIMIZE THROUGHPUT, REDUCE LABOR, AND ENSURE CONSISTENT RESULTS.



24/7 UNATTENDED PRODUCTION

Engineered for continuous operation, allowing vapor smoothing to run reliably overnight or around the clock.



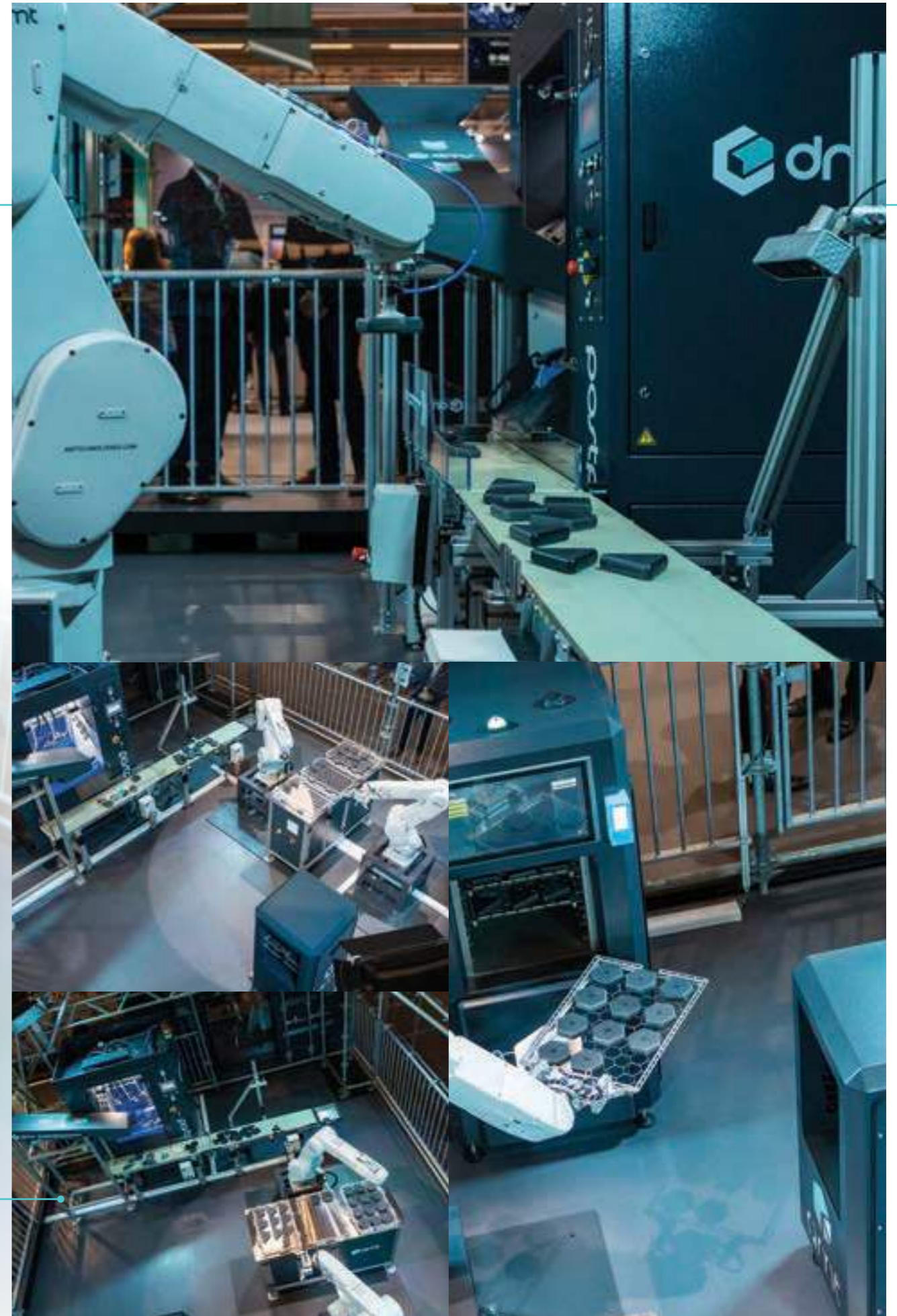
SMART TRAY MONITORING

Automatic tray recognition selects the right processing recipe for each batch, guaranteeing repeatable quality.



SEAMLESS INTEGRATION

Compatible with existing PostPro SF100 systems for straightforward implementation and scalability.



For more information on AMT's Digital Manufacturing System (DMS), contact info@amtechnologies.com, or your AMT Sales representative.

AMT Dye BLK Black Coloring Solution at Lower Cost

AMT DYE BLK DELIVERS DEEP, UNIFORM BLACK FINISHES FOR 3D-PRINTED PARTS, COMBINING PRODUCTION-GRADE QUALITY WITH LOWER RUNNING COSTS. COMPATIBLE WITH ALL MAJOR DYEING MACHINES, IT INTEGRATES SEAMLESSLY INTO EXISTING WORKFLOWS FOR CONSISTENT, PROFESSIONAL RESULTS.

KEY FEATURES:

- **Broad compatibility** and validated on powder-based technologies
- **Lower operating cost**, with up to 50% reduction in running costs compared to standard dyeing solutions
- **Sustainable capsules** with fully recyclable packaging, REACH compliance, and PFAS-free formulation
- **Flexible integration** into existing workflow and compatible with all major dyeing machines

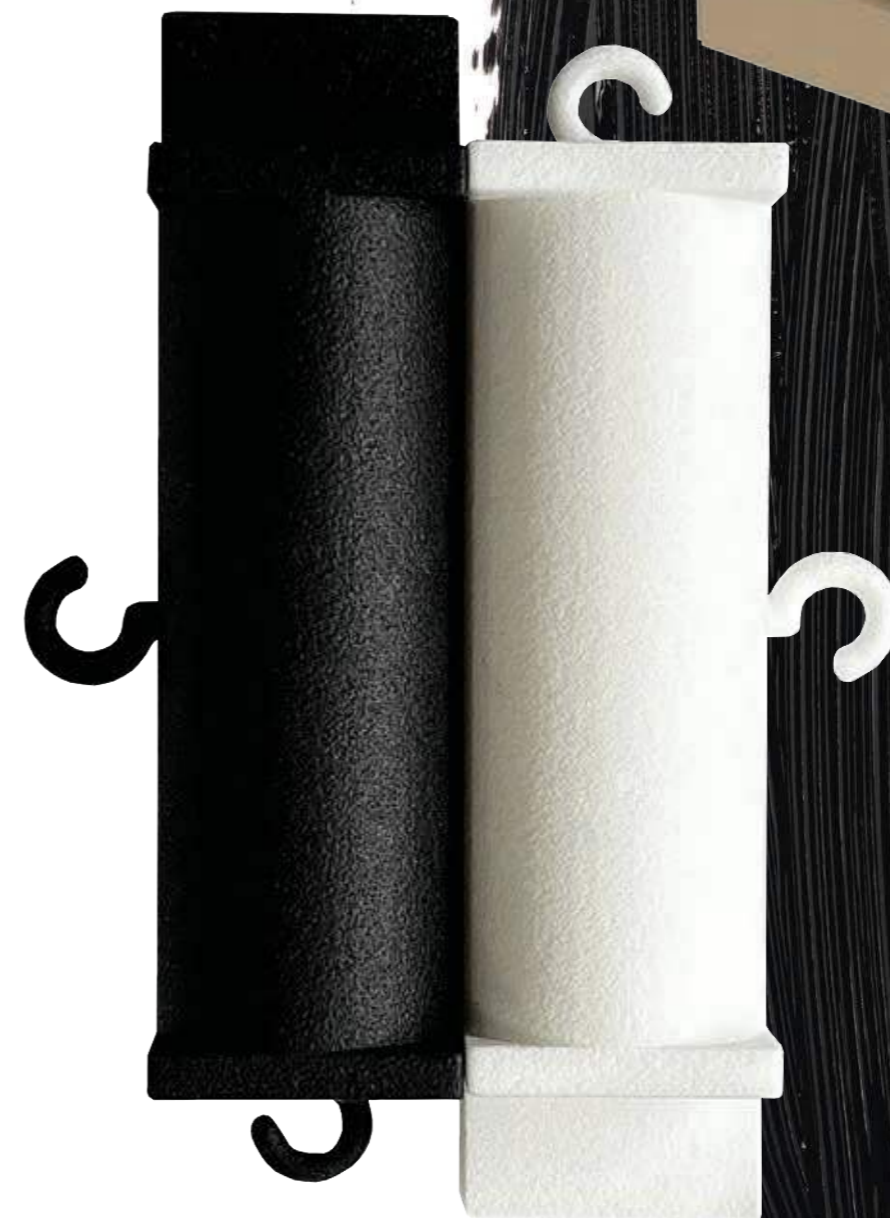


TECHNICAL SPECIFICATION

Description

Material Compatibility:	Polyamide 12
Color:	Deep Black
Available Sizes:	Small (10L), Medium (20L), Large (35L), X Large (51L), XL Reservoir (Coming soon)
Compatible Printing Technologies:	SLS, MJF, SAF and HSS
Dyeing Machine Compatibility:	All industry-standard dyeing machines
Adjustable Dyeing Parameters:	Fully controllable
Dye Penetration Depth:	SLS up to 100 µm MJF, SAF, HSS up to 80 µm
Dyeing Time:	Up to 60 min
Fastness:	Xenon lamp: B/L 6-7; B/Dk 7*
Food Safe:	No

*Fastness based on the dye material with polyamide, in accordance with ISO 105 and international standards.



STANDARDS & QUALIFICATION TRACKER

Our vapor smoothing systems use proprietary, environmentally friendly solvents that meet all major health, safety, and compatibility standards. See the table for a breakdown of the main health & safety certifications.

See the table for a breakdown of some of the standards our consumables have met.*

AMT is providing this information to assist customers. It is the responsibility of each customer to determine that its particular use of AMT's post-processing is safe and technically suitable to the customer's intended applications and consistent with the relevant regulatory requirements applicable to the customer's final product. The only warranties for AMT products and services are set forth in the express warranty statements accompanying such specific products and services. Nothing herein should be construed as constituting an additional warranty. AMT shall not be liable for technical or editorial errors or omissions contained herein.

Verified by Dr. Konstantin Rybalcenko
Global Head of R&D at AMT

*Please contact AMT for a breakdown of certifications for a specific consumable.

TEST TYPE	INDUSTRY	TEST STANDARD	PRINT TECHNOLOGY	MATERIAL
Skin Irritation	Medical	ISO 10993-10 (2013)	MJF	BASF Ultrasint TPU01
Skin Sensitivity	Medical	ISO 10993-10 (2013)	MJF	BASF Ultrasint TPU01
Hemolysis	Medical	ISO 10993-4	MJF	PA11
Cytotoxicity	Medical / Dental	ISO 10993-5 (2009)	MJF	PA11
Skin Irritation	Medical	ISO 10993-10 (2013)	MJF	PA11
Intradermal Reactivity (Irritation)	Medical	ISO 10993-10 (2013)	MJF	PA11
Flammability	Automotive	FMVSS 302	MJF	PA12
Antibacterial Activity	Medical / Dental	ISO 22196 (2011)	MJF	PA12
Aquatic / Acute Toxicity	Medical	ISO 11348-3	MJF	PA12
Cytotoxicity	Medical	ISO 10993-5 (2009)	MJF	PA12
Skin Irritation	Medical	ISO 10993-10 (2013)	MJF	Lubrizol TPU
Cytotoxicity	Medical	ISO 10993-5 (2009)	MJF	Lubrizol TPU
Food Contact	Industrial	DS/EN1186-01:2002, DS/EN1186-03:2002, DS/EN1186-14:	SLS	PA12
Skin Irritation	Medical	ISO 10993-10 (2013)	SLS	PA12
Cytotoxicity	Medical	ISO 10993-5 (2009)	SLS	PA12
Skin Sensitivity	Medical	ISO 10993-10 (2013)	SLS	PA12
Cytotoxicity	Consumer	ISO 10993-5(2009)	SLS	Covestro Addigy P3001
Irritation	Consumer	ISO 10993-10(2013)	SLS	Covestro Addigy P3001
Sensitization	Consumer	ISO 10993-10(2013)	SLS	Covestro Addigy P3001
Cytotoxicity	Medical	ISO 10993-5 (2009)	SLS	RICOH PP S5500P



CASE STUDIES



ALL CASE STUDIES

MEDICAL ORTHOBROKER

IMPROVING PATIENT COMFORT AND HYGIENE WITH VAPOR SMOOTHING

BACKGROUND:

Orthobroker manufactures customized 3D-printed orthoses tailored to each patient through its OrthoSolid platform. Printed in PA11 and TPU, the parts required smooth, skin-safe finishes for daily use, ensuring comfort, hygiene, and durability.

BENEFITS OF VAPOR SMOOTHING:

- **Improved comfort:** Smooth, non-abrasive surfaces minimize skin irritation
- **Better hygiene:** Sealed surfaces resist moisture and bacteria buildup
- **Consistent quality:** Enables scalable production of patient-ready devices

CONCLUSION:

With PostPro vapor smoothing, Orthobroker delivers orthoses that combine comfort, hygiene, and durability, meeting both patient expectations and medical standards.



FOOD INDUSTRY DANISH TECHNOLOGICAL INSTITUTE // JBT MAREL

ENHANCING HYGIENE AND SAFETY IN FOOD PROCESSING EQUIPMENT

BACKGROUND:

JBT Marel and the Danish Technological Institute developed a 3D-printed nylon gripper for handling salmon sides. The application required smooth, joint-free surfaces that were easy to clean and traceable for food safety compliance.

MATERIAL & DESIGN:

Printed in metal-detectable nylon for traceability, the gripper is optimized for food safety with no joints in contact areas and smooth, rounded surfaces. Vapor smoothing further enhances cleanability and hygiene.

BENEFITS OF VAPOR SMOOTHING:

- **Enhanced hygiene:** Sealed surfaces minimize bacteria buildup and improve sanitation
- **Improved durability:** Strengthened parts resist stress and wear
- **Easier inspection:** Smooth finish improves visibility and metal-detectable nylon ensures traceability

CONCLUSION:

PostPro vapor smoothing enabled a food-safe, durable, and easily sterilizable gripper, reducing maintenance needs while ensuring consistent quality in production environments.



CONSUMER FINGERPRINT CYCLING

FULLY CUSTOMIZED BICYCLE SADDLE BY FINGERPRINT CYCLING

BACKGROUND:

Cyclists often experience discomfort from ill-fitting saddles. Fingerprint Cycling, in partnership with Elkamet, developed a fully customized 3D-printed saddle tailored to each rider's anatomy and style using PA11 and SLS printing technology.

CHALLENGE:

While 3D printing enabled customization, the as-printed saddles faced challenges related to their durability, hygiene, and aesthetics. The rough, porous surface was difficult to clean, collected dirt, and lacked visual appeal.

BENEFITS OF VAPOR SMOOTHING:

- **Sealed surface** for easy cleaning and dirt resistance
- **Enhanced aesthetics and feel** for a premium finish
- **Improved durability** and consistency while reducing post-processing time

CONCLUSION:

By integrating PostPro vapor smoothing, Fingerprint Cycling and Elkamet produced a next-generation bicycle saddle that combines comfort, hygiene, and style. Through 3D printing in combination with vapor smoothing, the team delivered a customized seat that meets the performance and design expectations of cyclists.





INDUSTRIAL NORDEN MACHINERY

OPTIMIZING WASTE FLOW WITH 3D-PRINTED TRIM WASTE CHUTES

BACKGROUND:

Norden redesigned a metal chute, traditionally manufactured from sheet metal using multiple production methods, into a single 3D-printed PA12 component to simplify assembly and improve waste management during tube trimming.

BENEFITS OF VAPOR SMOOTHING:

- **Easier cleaning:** Sealed surfaces prevent dust and debris buildup
- **Reduced friction:** Smoother interior promotes better waste flow
- **Enhanced finish:** Professional appearance suitable for regulated use

CONCLUSION:

By applying vapor smoothing, Norden achieved a cleaner, more efficient waste chute, demonstrating how additive manufacturing can replace traditional fabrication methods.



AUTOMOTIVE AB CONCEPT

3D-PRINTED AND VAPOR SMOOTHED RALLY CAR PARTS PROVE THEIR STRENGTH OVER 2,450 KM

BACKGROUND:

ABConcept produced over 100 3D-printed components for the Zephyr rally car, tested across 2,468 km in the Rallye du Maroc. Using HP MJF technology and PostPro vapor smoothing, the team achieved durable, lightweight parts capable of enduring extreme vibration, impact, and heat.

BENEFITS OF VAPOR SMOOTHING:

- **Increased durability:** Sealed surfaces improve strength and wear resistance
- **Enhanced aerodynamics:** Smooth surfaces reduce drag
- **Reliable performance:** Maintains part integrity under extreme rally conditions

CONCLUSION:

By integrating PostPro vapor smoothing, ABConcept optimized production of rally-ready components that combine lightweight design with durability fit for desert racing.



Case Studies



CONSUMER FLiPHEAD

PERFECTING SOUND AND STYLE IN 3D-PRINTED FLUTE MOUTHPIECES

BACKGROUND:

Fliphead, in collaboration with 1zu1 Protocal, developed an SLS-printed mouthpiece allowing flutists to play in a relaxed position with the acoustic performance of an Irish low flute. The application required precision surfaces suitable for direct mouth contact.



Mouthpiece after PostPro Vapor Smoothing

BENEFITS OF VAPOR SMOOTHING:

- **Improved acoustics:** Smooth internal channels enhance airflow and tone
- **Hygienic surface:** Sealed finish ensures safety and easy cleaning
- **Consistent quality:** Enables reliable production across batches

CONCLUSION:

With PostPro vapor smoothing, Fliphead scaled production of its mouthpiece with the surface precision, hygiene, and acoustic performance required for professional use.



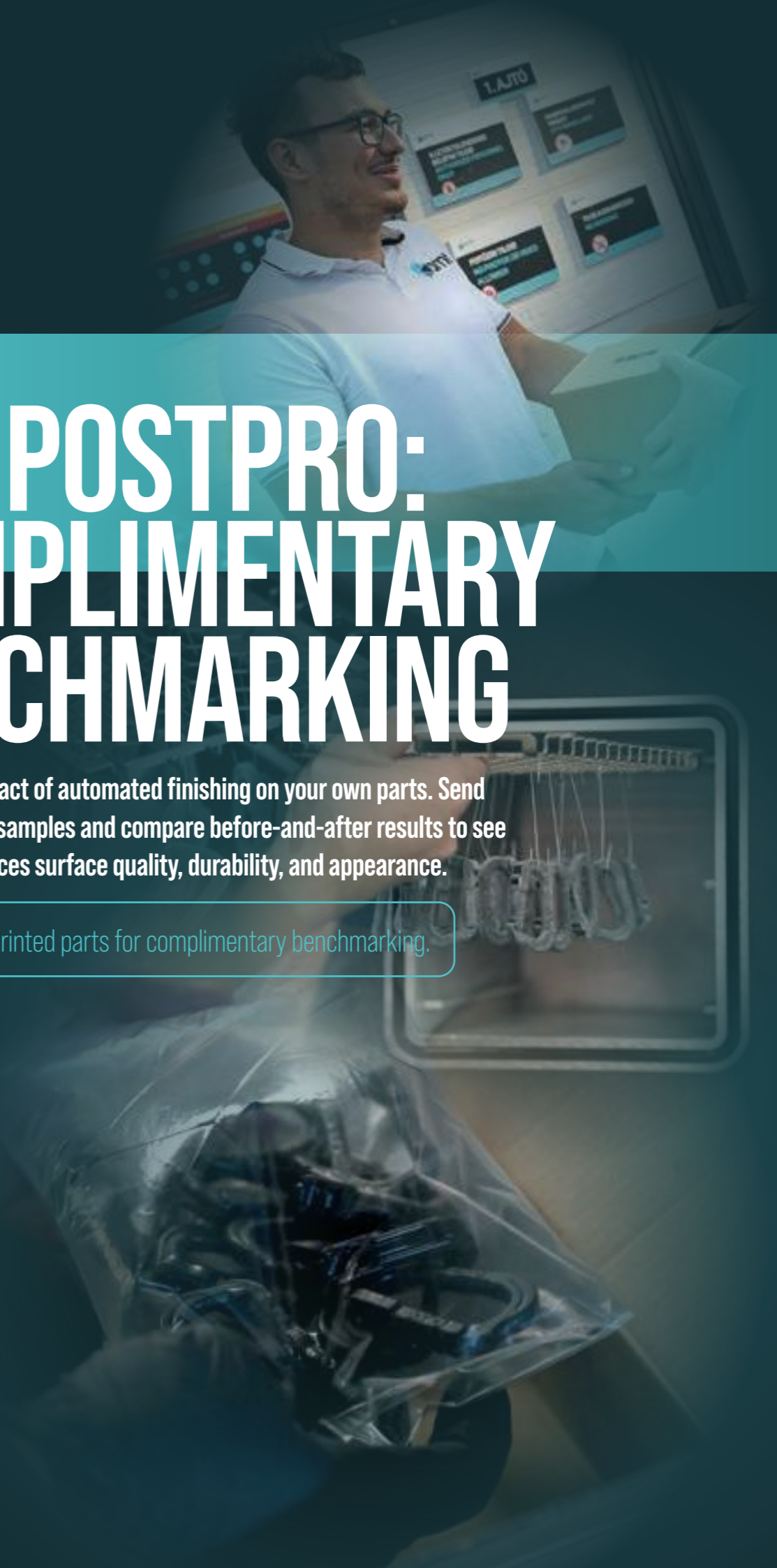
TRY POSTPRO: COMPLIMENTARY BENCHMARKING

Experience the impact of automated finishing on your own parts. Send us your 3D-printed samples and compare before-and-after results to see how PostPro enhances surface quality, durability, and appearance.

Send us your 3D printed parts for complimentary benchmarking.



MORE INFORMATION



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