Automated, Digitized
Post-Printing Solutions
Enabling Additive
Manufacturing at Scale

POSTPROCESS

Automated. Intelligent. Comprehensive.

A Technology That Changes Everything.

It's Automated.

Our automated solutions eliminate time-consuming and expensive piece-by-piece manual cleaning by applying a patent-pending combination of integrated technologies; including software, hardware, and consumables.

It's Intelligent.

Our revolutionary technology thoroughly processes each part regardless of geometry. Reliable support removal and dependable surface finishing produce 'customer-ready' parts, every time.

It's Comprehensive.

A full range of solutions supports your post-printing requirements. From desktop systems to production-scale systems for support removal, powder removal, and surface finishing, we are continuously innovating for the future.

Virtually All 3D Print Technologies.

From SLA to DMLS – we've got you covered. From light-cured resins to superalloys – we handle them all. We've designed and tested our solutions to work across a wide variety of materials and print technologies.

End-to-End Expertise.

Expertise in the three steps of additive – design, build, and post-print – has allowed us to develop machines and engineer precise solutions to drive faster throughput and more consistent results.

Every Imaginable Market.

Across every industry, our technology removes the post-print bottleneck with an automated approach. From aerospace to automotive, consumer goods to dental, or defense to medical, we're ready to put our technology to work for you.

We Don't Build 3D Parts. We Make 3D Parts Customer-Ready.

The World's Only Data-Driven Post-Print Solution.

PostProcess's software-driven technology enables users to produce customer-ready 3D printed parts at scale. As the first in the world to bring an automated and intelligent solution to the third step of additive manufacturing, we're helping the market realize its full potential. Our solutions make post-processing parts easier, more consistent, and more efficient.
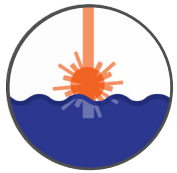
SLA & CLIP

Our comprehensive software, hardware, and chemistry solution reduces SLA and CLIP resin removal steps by 50% or greater. As the **fastest resin removal system on the market**, field-tested on thousands of trays, our solutions are proven to clean multiple full trays in under 10 minutes consistently. Coupled with our surface finishing solutions, PostProcess can streamline your SLA and CLIP post-printing bottleneck.

FDM & FFF

Providing the fastest cycle times in the industry, PostProcess FDM post-printing solutions reduce processing times by at least 50% compared to traditional submersible tank systems. Controlled by AUTOMAT3D® software, attended technician time is significantly reduced for **both support removal and surface finishing** to enable high-volume production and decrease overall cycle time for your print operation.

PolyJet & Material Jetting

Our PolyJet solutions perform thorough support removal with less part warpage and breakage. Software-driven submersible technology has been proven to increase throughput by over 30% compared to traditional manual water blasting, along with a dramatic reduction in attended technician time of over 80%. Pair with our surface finishing solutions for a **complete post-print workflow** to achieve consistent results even for the most delicate geometries.
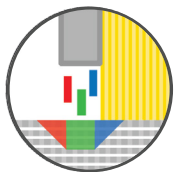
MJF & SLS

Delivering replicable, high-quality uniformity for every part, our surface finishing and powder removal solutions incorporate advanced, additive-specific technology for MJF and SLS. Our proprietary software platform provides an unprecedented level of process insight and control, ensuring uniform media and detergent exposure as well as motion control for **predictable, consistent surface finishing.**

Metals

PostProcess automates **surface finishing** for additive manufactured metal parts with our unique, patent-pending technologies. Ensuring every printed part meets your desired Roughness Average (Ra) while maintaining dimensional consistency and fine feature detail, our data-driven solutions deliver repeatable automation in batches. This technology is developed to align with your print quantities with significantly reduced operator attendance time.

Support & Resin Removal

PostProcess's cutting-edge solutions automate support removal using patent-pending software and exclusive chemistry technologies. Our proprietary process reliably removes support materials from all 3D printed technologies while reducing cycle times and increasing productivity. We offer a range of envelope sizes, from desktop format to production volume solutions. From submersible to spray platforms, no matter what print material, we've designed a solution that fits your additive manufacturing operation.

| DEMI 200 Series*	DEMI 400 Series	DEMI 800 Series	DEMI 4000 Series**	DECI	BASE
Envelope: 18" L x 10" W x 6" H 46 cm x 25 cm x 15 cm	Envelope: 14" L x 14" W x 14" H 35.5 cm x 35.5 cm x 35.5 cm	Envelope: 18" L x 18" W x 18" H 46 cm x 46 cm x 46 cm	Envelope: 35" L x 35" W x 25" H 89 cm x 89 cm x 64 cm	Envelope: 19" L x 27.5" W x 26" H 48 cm x 70 cm x 66 cm	Envelope: 40" L x 27.5" W x 26" H 102 cm x 70 cm x 66 cm
Footprint: 23.5" L x 18" W x 15.5" H 60 cm x 46 cm x 39 cm	Footprint: 29" L x 36" W x 43" H 74 cm x 91 cm x 109 cm	Footprint: 34.75" L x 43.5" W x 59.75" H 88 cm x 110 cm x 152 cm	Footprint: 89" L x 55" W x 94" H 226 cm x 140 cm x 239 cm	Footprint: 44.7" L x 40.4" W x 93.8" H 114 cm x 103 cm x 238 cm	Footprint: 68.7" L x 40.7" W x 93.2" H 174 cm x 103 cm x 237 cm

Agitated flow via pumps are available in combinations of advanced ultrasonics, heat, and specially formulated detergents to effectively remove supports with a 'sink-float' process to rotate parts throughout the chamber. This variable motion, combined with optimal energy delivery and detergent filtration, results in fast and uniform support and resin removal. Patented submersible systems for the desktop or the shop floor, with envelope sizes to handle medium sized parts in higher volumes.

Patented advanced spray systems with 360-degree agitation and large envelopes ensure complete part coverage and deliver uniform, high-quality results for every part, regardless of the geometry, with short cycle times to meet high-volume production needs.

AUTOMAT3D software precisely controls energy, additive tailored detergents, intelligent cycle time programming, customizable settings, one-touch repeatability with recipe storage, and pre-programmed preventative maintenance schedules.

POLYJET / MATERIAL JETTING   FDM/FFF   SLA   DLP   CLIP

POLYJET / MATERIAL JETTING   FDM/FFF
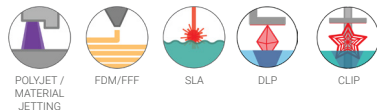
*CENTI and LEVO available in North America only
**DEMI 4000 only available for SLA, DLP, and CLIP resin removal.
***Dimensions subject to change; please download latest Spec Sheet at postprocess.com/resources

Surface Finish

Replicable, high-quality uniformity for every part, every time, even with the most complex geometries. Our suite of surface finishing solutions are automating today's manual post-printing methods. PostProcess systems ensure every printed part meets your specifications, such as desired Roughness Average (R_a) and dimensional consistency, while keeping the fine feature detail of the 3D printed part intact.

LEVO*

Circular Envelope:
12" Diameter x 10" H
30 cm Diameter x 26 cm H

Footprint:
54.3" L x 28.3" W x 39.4" H
137 cm x 72 cm x 100 cm

RADOR

Rectangular Envelope:
21.4" L x 8.4" W x 13" H
54 cm x 22 cm x 33 cm

Footprint:
54.3" L x 28.3" W x 39.4" H
137 cm x 72 cm x 100 cm

NITOR

Rectangular Envelope:
60" L x 24" W x 20" H
152 cm x 61 cm x 51 cm

Footprint:
96" L x 42.5" W x 49.75" H
244 cm x 108 cm x 126 cm

DECI Duo

Envelope:
15" L x 15" W x 15" H
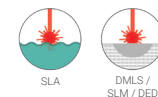38 cm x 38 cm x 38 cm H

Footprint:
69.5" L x 37" W x 94" H
177 cm x 94 cm x 239 cm

Circular Systems: Circular motion and optimized energy combine with our abrasive and polish media to deliver fast surface finish results. Rectangular Systems: Vertical motion and optimized energy in a vibratory system pair with abrasive and polish media to meet the specifications for your desired Roughness Average (R_a). A divider in the NITOR allows for separate envelopes to run different media in each side simultaneously.

Designed for all types of geometries, simple to complex, our machines are specifically engineered for 3D printed parts. Our proprietary AUTOMAT3D software platform allows the system to work continuously with limited technician involvement required. This, combined with the ability to finish many parts in the same cycle, speeds overall throughput and ensures that the post-print finishing never hinders the production runs.

Multi-functionality. Maximum efficiency. Space saving footprint.

AUTOMAT3D software controls our proprietary *Agitation Algorithms*, allowing for consistent and repeatable post-processing. Suspended solids under air and water pressure, through optimized energy, deliver fast cycle times.

POLYJET / MATERIAL JETTING   FDM/FFF   SLS   MJF   SLA   DLP   CLIP   DMLS / SLM / DED

SLA   DMLS / SLM / DED

Software

The Brains of our Automated Solutions

Intelligence built from data...

AUTOMAT3D

PostProcess pioneered intelligent post-printing with our patent-pending AUTOMAT3D® software platform. We've taken the guesswork out of post-printing after spending years collecting data from hundreds of thousands of benchmark parts of all 3D print technologies and most materials.

The data collected is at the core of our software design, which incorporates optimized recipes to deliver a precise finish every time. This enables a consistent finished part in four simple steps with the push of a button. You can also customize programs to your unique needs and use the recipe setting recall feature for streamlined operation.

AUTOMAT3D continuously monitors and reacts to key process factors to optimize part finish. This logic- based, real-time decision-making reduces operator "attended" time to increase the efficiency of your additive manufacturing (AM) operation and enable volume production.

Thoughtfully designed for ease of use, our software ensures PostProcess systems deliver intelligence for your operator and peace of mind for your maintenance department. The solution's built-in proactive features enable exponential leaps in throughput with minimal manual labor required.

The First in the World to Bring Software to Post-Printing

Complementing our AUTOMAT3D platform driving our intelligent machine solutions, PostProcess's CONNECT3D™ software application features functionality accommodating the digital thread for smart manufacturing. In the past, the concept of the digital thread within additive manufacturing ended once a part was printed. With conventional finishing processes relying on tribal knowledge and hand tools, there was no ability to collect or transfer data.

Now, with CONNECT3D, PostProcess has delivered the first solution to the industry that completes the picture through the post-printing step. The CONNECT3D platform is the only software that addresses additive manufacturing end-to-end within the digital thread. It combines all features necessary to generate the direct digital thread while being fully adaptable to the customer's needs.

Starting with the native CAD file or 3D printer sliced file, CONNECT3D defines the requirements and strategies to automatically post-process the additive manufactured part on PostProcess's hardware platform. CONNECT3D is designed for both metal and polymer additive manufacturing and imports most native CAD formats.

With the benefits of increasing throughput and reducing cycle time for consistent, customer-ready final parts, CONNECT3D advances users' AM operations by empowering scalability and supporting the market's drive towards mass customization and the factory of the future.

Get connected to the digital backbone...

CONNECT3D

Chemistry

Novel Chemistries Formulated for 3D Print Materials

As the pioneer of the automated post-printing industry, PostProcess Techologies' patent-pending chemistry solutions are unmatched. Our family of **detergents** and **media** have been developed for high-performance and safe handling, delivering faster throughput and more consistent results.

SUPPORT REMOVAL

PostProcess's pre-mixed, aqueous-based detergents optimize the removal of supports while leaving the build material in perfect condition. Our chemistry line, in concert with our thoughtfully designed support removal systems, are formulated for all 3D print materials and technologies to achieve the customer's desired cycle time and end product characteristics.
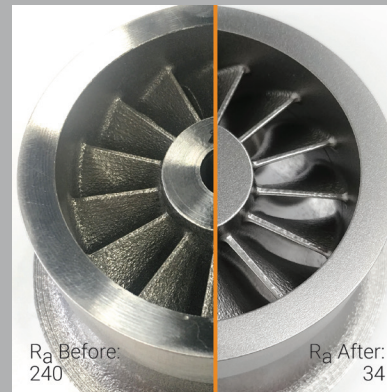
PolyJet

FDM
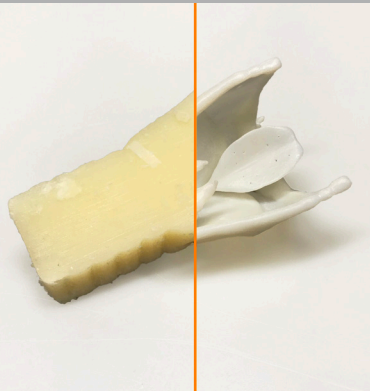
SURFACE FINISH

Our surface finishing media, available in different density and grit, ensures the desired finish and end product surface roughness (R_a) for all print materials. With abrasive and polishing options, our comprehensive solutions are designed to work with the media to accurately deliver the correct amount of energy to produce the desired end result.

SLA

R_a Before: 240

R_a After: 34

DMLS

MJF

POSTPROCESS

Automated. Intelligent. Comprehensive.

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