CUSTOMER SPOTLIGHT

3D Infinity

POSTPROCESS
Automated. Intelligent. Comprehensive.

CASE STUDY

3D INFINITY AND POST-PRINTING GROWING PAINS OF SCALING ADDITIVE

Founded in 2015, 3D Infinity has quickly solidified itself as one of Belgium's most knowledgeable and dependable additive service bureaus. Specializing in Fused Deposition Modelling (FDM), Sterolithography (SLA), and Selective Laser Sintering (SLS), they collaborate with customers across a variety of industries for 3D design, scanning, and printing. As a cutting-edge business, 3D Infinity has always put significant value in innovative technologies and outstanding customer service.

While 3D Infinity's services are highly digitalized, they found 3D post-printing processes, particularly surface finishing for Prodways ProMaker P1000X-printed SLS parts, to be highly inefficient. 3D Infinity was frustrated to be losing valuable technician labor time on tasks like hand sanding SLS parts, and epoxy coating certain parts for more refined finishing. These additional steps spurred a workflow bottleneck, culminating in throughput and consistency issues.

GAINING BACK PRECIOUS TECHNICIAN TIME WITH AUTOMATED SURFACE FINISHING

When seeking to overcome these issues, 3D Infinity desired a solution that was flexible for use across various print technologies, and landed on the PostProcess® RADOR™ as the all-in-one solution. Thanks to its software-driven nature, the RADOR takes human error out of the equation and finishes parts with unmatched consistency for the highest quality product possible. Employing exclusive Suspended Rotational Force (SRF) technology, the RADOR is engineered to achieve the desired Roughness Average (Ra) on various types of finishes across a wide range of 3D printed materials. This technology uses software intelligence to drive parts in a circular motion within a mix of composite abrasive and fluid. This automated technique ensures even mechanical force is applied at the surface level, resulting in consistent finishing.

Surface Finishing Parts in the PostProcess® RADOR™ at 3D Infinity

> "Considering the manual labor that went into hand sanding large SLS batches or part builds, the **time we've gained back** thanks to the RADOR has been transformative."

The automated RADOR has enabled 3D Infinity not only to eliminate manual surface finishing, but to transform their throughput levels and workflow dynamics. Though 3D Infinity's build sizes vary significantly, the company never prints less than three builds per week. Depending on variable factors, manual finishing used to take anywhere from 30 - 60 minutes per build. That means when operating at their lowest print volumes, the RADOR saves 3D Infinity a minimum of 1.5 - 3 hours of labor every week.

Example 3D Printed Parts, Finished in the PostProcess RADOR

Speaking to the introduction of the RADOR, 3D Infinity Owner Simon Truant said, "Especially when considering the manual labor that went into hand sanding large SLS batches or part builds, the time we've gained back thanks to the RADOR has been transformative for 3D Infinity. Technicians can now simply put parts in the RADOR, set the parameters, and go back to more important tasks. In terms of sustainability, we're also pleased to say that the RADOR has enabled a safer working environment by minimizing technician exposure to hazardous materials like powder residue and epoxy coatings."

About 3D Infinity

3D Infinity specializes in 3D printing plastics, 3D scanning, 3D design, and consultancy with a focus on good customer relations, short delivery times, and high quality parts. The experienced 3D Infinity team is able to aptly match customers with the best materials for every application. The company provides 3D printing services for automotive industry, healthcare, art, heavy industry, spare parts, machine builders, tools & fixtures, and production. With an extensive portfolio of SLS, FDM and SLA machines, they are able to tackle every complicated job. Learn more at 3dinfinity.be.

About PostProcess

PostProcess Technologies is the only provider of automated and intelligent post-printing solutions for 3D printed parts. Founded in 2014 and headquartered in Buffalo, NY, USA, with international operations in Sophia-Antipolis, France, PostProcess removes the bottleneck in the third step of 3D printing – post-printing – through patent-pending software, hardware, and chemistry technologies. The company's solutions automate industrial 3D printing's most common post-printing processes with a software-based approach, including support, resin, and powder removal, as well as surface finishing, resulting in "customer-ready" 3D printed parts. Additionally, as an innovator of software-based 3D post-printing, PostProcess solutions will enable the full digitization of AM through the post-print step for the Industry 4.0 factory floor. The PostProcess portfolio has been proven across all major industrial 3D printing technologies and is in use daily in every imaginable manufacturing sector. Learn more at postprocess.com.

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