POSTPROCESS

ENVIRONMENTAL, HEALTH & SAFETY

Safer, Cleaner, Scalable Post-Processing Challenges

As additive manufacturing (AM) scales, manual and chemically intensive post-processing methods are creating environmental, health and safety challenges for companies. These challenges are causing operational bottlenecks while exposing employees and facilities to serious safety and compliance risks.

Hazardous Chemicals: Isopropyl Alcohol (IPA) is widely used in traditional additive workflows; however, its flammability (flashpoint of 53°F/12°C), hazardous waste requirements, and environmental impact creates avoidable EHS and ESG risks that companies are actively working to eliminate.

Equipment Safety & Manual Handling Risks: Open air “dunk tanks" with limited safety controls, increase the risk of chemical burns, inhalation hazards, vapor exposure, and accidental spills. These systems requires manual, hands-on operator involvement contributing to additional safety risks, operator fatigue and inconsistent process controls.

Regulatory Burdens: Storing and handling large volumes of flammable solvents often requires explosion-proof equipment, specialized ventilation, and strict regulatory compliance, increasing facility costs and complexity. Because of these regulations and safety risks, many municipalities have restricted or completely banned the use of dangerous solvents, like IPA in their facilities.

THE SOLUTION

AUTOMATED. ENCLOSED. SUSTAINABLE.

PostProcess Technologies delivers a fully digitized, automated solution that transforms post-processing safety and sustainability. By replacing hazardous manual methods with enclosed, software-driven systems, PostProcesss solutions reduces operator exposure, improves consistency and lowers environmental impact.

HEALTH

Reduced chemical & operator exposure with a fully enclosed hands-free operation

- Automated lift and cycle controls limit contact with chemicals and vapors
- Non-flammable, safer detergents reduce the risk of burns and fire hazards
- Fully enclosed systems minimize exposure, inhalation risks, and spills

SAFETY

Enhanced workplace and operator safety with automated systems

- Reproducible, controlled processing cycles that reduce human risk
- Reduce operator fatigue and repetitive manual motion
- Enclosed chamber with safety interlocks and emergency stop functionality

ENVIRONMENT

Improved sustainability with regulatory and facility compliance

- Waste reduction with up to 10x reduced waste generation compared to IPA
- Extended chemical life reduces frequency of changeouts
- Simplified storage and reduced hazardous material handling requirements

CUSTOMER SUCCESS STORIES

Stratasys Direct® *Service Bureau* utilizing PostProcess® DEMI 4100™ & DEMI 830™

Stratasys Direct replaced labor-intensive manual resin removal and IPA baths with PostProcess automation to improve safety and throughput.

By significantly lowering cycle times, improving labor efficiency, and cutting costs through reduced IPA usage and waste, Stratasys Direct has strengthened its ability to deliver high-quality products to its customers.

- **Sean Schoonmaker**
  Director of Operations, Stratasys Direct

DEMI 4100 for Resin Removal

Read the Case Study

DEMI X 520 for Dental PolyJet

Read the Case Study

Ninety! Dental Production Center utilizing PostProcess® DEMI X 520™ for Dental PolyJet

PostProcess delivered an efficient and automated solution to provide industrial resin removal that meets Ninety!'s production needs.

When I calculate my ROI at the end of the year, I have increased my productivity and saved money. And, I reduced my ecological impact while improving my employees' working conditions!

- **Oliver Mangot, Co-Director**
  Ident'M Laboratory, Ninety!