

# Automated FDM 3D Printing Workflow

FDM<sup>®</sup> 3D printing combined with the PostProcess<sup>®</sup> BASE<sup>™</sup> Automated FDM Support Removal Solution creates a rapid, end-to-end, low-touch additive manufacturing workflow.

- Reduce cycle time
- Increase throughput
- Minimize labor
- Increase yield

Once parts are printed, the removal of support material is accomplished automatically in the enclosed PostProcess BASE system. Volumetric Velocity Dispersion spray technology rinses away support material without the risk of part damage that can occur with manual support removal.



## Why Use FDM Technology?



### Reliability

FDM 3D printers have a proven record of reliability, uptime, and repeatable performance



### Durability

A deep material portfolio for the most demanding 3D printing applications



### Service Support

Backed by a worldwide, best-in-class support team with 35+ years of experience

FDM technology offers faster creation and deployment of essential Department of Defense (DoD) applications compared to traditional manufacturing technologies.

- Drone parts and subassemblies
- Strong, lightweight, ergonomic tooling customized for the user and the application
- On-demand production of spare parts and replacements for obsolete parts
- Tooling for shipyard, arsenal, and depot applications
- Production of flight-worthy parts

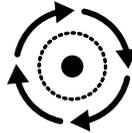


## Why use PostProcess BASE?



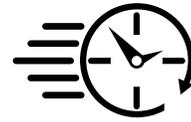
### Proven

Used by numerous DOD branches, contractors, and manufacturers



### Consistent

Dependable post-processing results, part after part



### High-Performance

Delivers 6X-10X faster results compared to traditional dunk tanks

## Real-World Results

**Automotive lighting manufacturer J.W. Speaker** achieved significant savings with FDM and BASE for 3D printed tooling:

- 98% reduction in post-print drying time (10 minutes with BASE vs. overnight)
- 78% part production time savings using combined FDM process with BASE (9 hrs. vs 1 week)
- \$60K – \$75K annual savings (FDM/BASE vs. machining)

**Stratasys Direct contract manufacturing services** achieved similar results during its BASE evaluation:

- Improved yield (less part breakage, fewer non-conformance reports)
- 40% faster support removal speed vs. ultrasonic
- 67% - 75% post-support removal drying time improvement (2-4 hrs. from 8-12 hrs.)

## FDM technology + BASE

Learn more about  
Stratasys  
FDM Technology.



Learn more about  
PostProcess BASE.



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FDM

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