

# Reducing Cost of L-PBF Parts with the Right Support Removal Strategies.

Would you like to scale your AM part production, but find post-processing too costly?

Fraunhofer IAPT is about to start a research study that will compare different approaches to support removal and offer technology-specific guidelines and designs to reduce the effort and cost of support removal.

**Join us now!**

## Challenges of support removal

Post-processing contributes roughly 30%\* to the costs of metal AM parts, with some companies estimating it to account for around 60% of the final part's cost. Manual post-processing slows support removal, limits the ability to precisely reproduce parts, and requires highly qualified staff.

Currently, the reliance on manual post-processing of AM parts hinders mass or series production of L-PBF components. Regardless of whether post-processing represents 30% or 60% of the overall cost, the ability to cost-effectively post-process large series of prints is crucial for the industrial application of AM.

\* According to "Wohlers Specialty Report on Post-Processing" (2023)

## Support removal study at a glance

- Study duration: 10 months
- Scheduled to begin in February 2025
- Investigation of two materials and five removal strategies

## The study will enable you to

- assess different support removal strategies
- speed and simplify support structure removal
- automate the support removal process most effectively
- optimize support structures for your technologies

**Early Bird Special**  
ends in March, 2025

Early access to results, right to vote on material selection and discounted price. Contact us for more information!

## What to expect:

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The study will provide an objective comparison of various techniques and approaches for support removal, focusing on specific removal technologies. It will offer both experts and non-specialized readers a concise overview of state-of-the-art support removal strategies, including innovative techniques and optimized post-processing designs.



### Expected\* materials for investigation:

- Ti6Al4V
- AlSi10Mg



### Benchmark criteria:

- Cost (Post-processing costs, cost per part, scalability)
- Quality (Surface quality, dimensional accuracy)
- Time (Production time, post-processing time)



### Five removal strategies:

- Manual Removal and Milling
- Chemical Removal
- Dry Ice Blasting
- Automated Chiseling
- Vibration-Based Removal

To sign up or to obtain further information please contact:

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\*to be defined with Early Bird participants