Can You Replace Machined Jigs with 3D Printed Parts?

written by Lauri Moon | October 7, 2019

Machining tooling in metal or plastic, either in-house or via a service bureau, can be a costly process. Depending on the forces experienced by the part, however, it may not always be necessary to machine these tools. Top tier manufacturers such as Ashley Furniture have turned to 3D printing parts in-house to replace custom tooling that was previously machined and outsourced.

In this webinar, we'll examine three case studies of how companies are printing strong, functional parts using a library of engineering materials and in-house 3D printing in order to dramatically cut costs and improve operational efficiency in production environments.

Register to learn:

- Which engineering material a manufacturer used to reduce costs by over 90% and achieve tolerances that fit their requirements.
- How Ashley Furniture improved efficiency by freeing up jig builders from repetitive tasks by using 3D printing to develop a universal system for an assembly fixture.
- 3 unique ways to use these learnings to improve operational efficiency and reduce costs at your workplace through desktop-based additive manufacturing.

Speakers

Andrew Edman, Manufacturing Industry Manager, Formlabs

Andrew Edman is the Industry Manager for Product Design, Engineering, and Manufacturing at Formlabs. He's focused on using additive technologies to create value in manufacturing and industrial workflows, like using 3D-printed tooling to bridge from prototype to production. Prior to Formlabs, Andrew worked as a design and engineering consultant, helping startups and Fortune 500 companies develop

products from concept through to scale manufacturing.

Faris Sheikh, 3D Printing Specialist, Formlabs

Faris Sheikh, 3D printing specialist at Formlabs, has helped Formlabs run over 40 live broadcasts around the world to educate over 21,000 engineers, manufacturers, dentists, and jewelers on how to successfully incorporate Formlabs products into their day-to-day workflows. Previously, Sheikh most notably ran an online technology show on hardware and software products totalling over 2 million global views.

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Webinar: Metal Casting with 3D Printing – Finding Value from Design to Production

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While direct printing of metal is widely discussed and promoted, the high costs and

technical difficulty involved means that many products and applications are better addressed through a mature manufacturing process like metal casting.

In this webinar, we will look at how desktop stereolithography (SLA) 3D printers are being used to directly print patterns, how to work with SLA patterns for investment casting, and how the benefits of generative design are increasing the demand for printed patterns.

What You'll Learn:

- How to direct create tool-free investment casting and sand casting patterns with low cost desktop printers
- How to work with SLA patterns for investment casting processes
- How to take advantage of 3D printing's design freedom to create complex, high-value components
- How to print quick-turn prototype molds for wax injection

Speaker

Andrew Edman, Applications Engineer, Formlabs

Andrew Edman is an applications engineer at Formlabs focused on using additive technologies to create value in manufacturing and industrial workflows, like using 3D printed tooling to bridge from prototype to production. Prior to Formlabs, Andrew worked as a design and engineering consultant, helping startups and Fortune 500 companies develop products from concept through to scale manufacturing.

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