

Delkor Systems

Use Case – Production Tooling

Customer Profile

Delkor Systems is a leading U.S. manufacturer of advanced robotic packaging systems for the food, beverage and consumer products industries. For over 50 years, Delkor has been widely recognized for continuous innovations to automated end of line packaging machinery and package design. Based in Minneapolis, MN, Delkor employs over 300 people and has an operational footprint of 300,000 square feet.

Challenge

Facing increased demands and shortened deadlines for its automated packaging equipment, Delkor Systems needed a solution to meet high volumes of customized components. Traditional production methods and some forms of additive manufacturing (AM) solutions could not consistently keep pace with the required throughput or deliver parts such as end-of-arm tooling quickly enough without adding cost or complexity. In short, Delkor was looking for a faster, more scalable way to produce production-grade components with consistent quality.

Solution

Enter: the Stratasys H350™ 3D printer using SAF™ (Selective Absorption Fusion®) powder bed fusion technology. Cost-effective and capable of higher production volumes than other AM technologies, the SAF-powered H350™ printer allowed Delkor to achieve higher throughput and repeatable production of complex parts for its packaging systems without compromising on quality. In addition, by including the PowderEase™ T1 post-processing accessory, Delkor can save time on post-print printing.

Impact

Implementing SAF technology afforded Delkor multiple benefits:

- 30 minute reduction in post-print processing per build using PowderEase T1
- Ability to scale production with demand
- Capability to produce a wide variety of parts (SKUs)
- Isotropic (higher durability) parts with finishes that have injection-mold-like surface quality

Quantitative benefits for an example part include:

- 50% decrease in time-to-part compared to other AM methods
- 60% reduction in cost to produce vs. previous AM method

The combination of SAF technology's higher throughput and automated post-processing with PowderEase T1 offers a complete production solution that supports Delkor's goals for faster lead times, increased output, and better design flexibility now and into the future.



An example of a typical part Delkor produced on the H350 with SAF technology.

Time Savings

30 Min. Decrease in Hands-On Time Per Build

Cost Savings

60%
Reduction Vs. Previous AM Method
(One Example Part)

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