Fogg Filler relies on the SOLIDWORKS design platform to develop the innovative and sophisticated products that drive its business growth.
SAVING TIME, REDUCING PROTOTYPES

Designing with SOLIDWORKS software, Fogg Filler engineers are no longer constrained by time-critical prototyping processes and can develop and evaluate ideas in a 3D virtual design environment. When ready to produce a prototype, they can manufacture their designs directly from the solid model. Using the company’s state-of-the-art machine shop, engineers can now create prototypes in 24 hours instead of the weeks that prototyping used to take. This efficiency improvement—combined with SOLIDWORKS tools for simulating motion, stress loads, and fluid flows—enables Fogg Filler to spend more time on innovative concepts at a much lower cost.

“We will actually take more time and develop multiple concepts for evaluation before making physical parts,” explains Engineering Manager Todd Kemme. “We can conduct simulations, check for interferences, and integrate third-party components, all before making a single part. This allows us to make better decisions that will save time and money during fabrication and assembly. In the event that a change is required, we now have the ability to seamlessly modify the design and export an updated bill of materials.”

DEVELOPING CUSTOM MACHINES MORE EFFICIENTLY

With SOLIDWORKS, custom fabrication at Fogg Filler has become engineering-driven—based on complete documentation—rather than relying on assembly modifications. “In our business, the best measure of efficiency is the ability to create custom parts and assemblies that fit together correctly the first time,” Fogg notes. “SOLIDWORKS greatly increases the odds that we consistently achieve that goal, not just during initial assembly but also whenever we need to produce replacement parts for service.”

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— Ben Fogg, Owner
Kemme adds that by leveraging SOLIDWORKS to drive fabrication and assembly operations, Fogg Filler has cut four weeks from its machine assembly time. “Our machines can have as many as 15,000 parts, including up to 9,000 discrete one-offs,” Kemme says. “The ability to model these parts in 3D and to make sure that we consistently assemble the machines without problems is a big plus. SOLIDWORKS helps us to keep both our assembly and component costs down.”

**INNOVATION AND SOPHISTICATION DRIVE BUSINESS GROWTH**

With the increased efficiency and quality provided by SOLIDWORKS, Fogg Filler can spend more time developing industry innovations, inventing new applications for its machines, and expanding into additional markets. For example, Fogg Filler used SOLIDWORKS to design a Chemical Supply & Recovery System, which reclaims fluid from a customer’s rinsing system, filters the fluid, and then reuses it repeatedly. The company’s new line of Micro-Blasters®, which kill microorganisms using ultraviolet light technology, is currently used to sanitize bottles and caps, but also carries the potential for many different applications.

“With the forward thinking of our engineers and SOLIDWORKS technology, we anticipate many more innovations to come,” Fogg says.