

Productive SolidCAM

How Stenner Pump prepares for the Future

In the current economic climate companies are desperately trying to find the keys to survival and growth. The answer to this question is painfully clear, either "innovate or die" says Bill Harington, Tooling Manager for Stenner Pump in Jacksonville, FL. Stenner Pump Company was started in 1952, by Gustav Stenner. Gustav was looking for a solution to create bullet-proof, low flow, high precision industrial pumps that would overcome the reliability and accuracy limitations of common diaphragm based pumps of the era. Today, it is increasingly common for science to look at nature to mimic millions of years of tinkering to build better mechanisms. Almost 60 years ago, Gustav Stenner was way ahead of his time when he developed a roller and tube pump system that mimics an animal swallowing liquid to create an incredibly durable, efficient and precise peristaltic metering pump. Gustav Stenner's innovation and hard work are the cornerstones of what has kept this company successful and known throughout the world as the Industry standard for over 57 years.



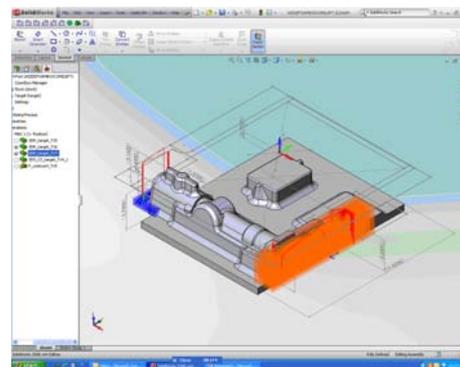
Jeff Weiss, CAD/CAM operator at Stenner Pump: "With SolidCAM+SolidWorks, we really accelerated our manufacturing processes"

One of the innovations that Bill and Jeff Weiss, CAD/CAM operator for Stenner, explain "was the early adoption of SolidWorks and SolidCAM as our CAD and CAM solution. Years ago, when we were searching for a replacement for our Visual Mill system which we had simply outgrown, SolidWorks was the clear design solution for us to be able to get our products to market faster with better molds, jigs and tools. When we learned of SolidCAM (offered as a bundle with our SolidWorks system), it was the natural choice to bring us to a new level of development and production power. Again, innovation is key to survival and the quick and easy adoption of SolidWorks and SolidCAM, helped us hit the ground running from right out of the box." Jeff continues, "Within a week, we had created 5 or 6 setups and were getting comfortable with the system. With SolidWorks and SolidCAM, you can visualize (simulation) the entire way from design to machining to confirm that what you're making is going to happen the way it should. Once I learned to trust that the cutters would go where I wanted them to, it opened up a whole new world of get-

ting our molds, fixtures, tools and R&D parts much faster."

Stenner Pumps are used in industries where it is crucial to have highly precise, low maintenance and exceedingly durable devices that feed liquid to a process. From administering medication to feedstock for livestock, to keeping commercial pools and theme parks sparkling clean, Stenner Pumps are at work making sure the proper doses of liquids are being added at precise levels without interruption. "Our pumps are very unique", says Bill, "Where traditional pumps use a diaphragm (and piston) to build pressure, we use rollers pressing on a flexible tube to create pressure. The advantages are efficiency and durability as the tube itself is an easily replaceable component.

While there are companies that would be content to be the industry standard, Stenner is currently in a high R&D mode", mentioned Bill. "We are customer driven, and make pumps per customer requirements. We are also looking for constant improvements within our existing product line by



3D Milling of a Mold for foam packaging with SolidCAM



Milling of the mold



Bill Harrington, Tool Shop Manager, and Jeff Weiss: "We are customer driven, and make pumps per customer requirements. Therefore we need an efficient CAD/CAM Technology"

focusing on innovation for simplifying installation and service. We know the key to expanding our market share is incorporating what makes our product great into new products for different applications and industries. To our customers and companies who private label our product, we are known for consistent quality and ease of service which increases dependability for users while reducing service time and expense." Stenner pumps have an incredible service record and longevity. There are even stories of some of earlier pumps (over 20 years old) that are still in service today. "We service these earlier pumps; further proving our dedication to our customers."

The SolidWorks and SolidCAM integrated CAD/CAM solution is a natural fit for Stenner. They use the best tools available to eliminate the need to depend on outside sources. Reliability comes from within as Stenner is a vertically integrated company; from raw goods to final assembly, producing ninety percent of their product in-house. "We are primarily a do it yourself house" says Jeff, "and SolidCAM/SolidWorks are the perfect tools for us. Of course, we did look at other systems before we locked on to SolidCAM and SolidWorks, but the process of going back and forth with IGES or STEP models would not allow us the power, time savings and flexibility that we get with our system. SolidCAM is the perfect hand shake between CAD and CAM and simplifies our whole process. It also makes implementation much easier." "Getting up to speed was a key issue", explained Bill. "Jeff is very much a self starter, and the

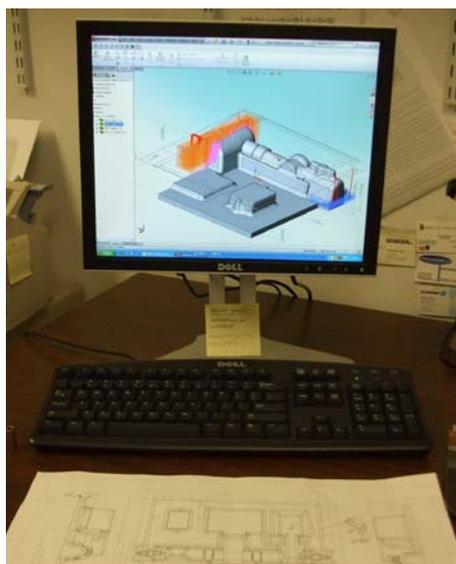
About Stenner Pump

Located in Jacksonville, Florida and currently celebrating over 50 years in business, Stenner Pump's philosophy has remained the same since 1952: Manufacture high-quality, reliable products, incorporate forward thinking into all aspects of the business and maintain a total commitment to customer satisfaction.

Stenner peristaltic metering pumps are based on a simple, well-engineered design that minimizes complexity and delivers reliable performance. The time-tested design is world renowned for consistent quality and ease of service, which increases dependability for users while reducing service time and expense. Reliability comes from within and Stenner is a vertically integrated company; from raw goods to final assembly, producing ninety percent of their product in-house. By controlling the processes, they can control inventory and quality issues at the time of manufacture and maintain a three day lead time. Being the industry standard is not an accident and Stenner Pump is committed to leading the way for at least another 50 years.

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common interface saved him from having to learn two completely different systems. We do get excellent support and training from CAMcad Technologies, our local reseller, but the simplicity of the system itself was a major factor in us getting up to speed so quickly."



Bill and Jeff both expressed that, "we would recommend anyone looking to get a CAD/CAM system to look at SolidCAM/SolidWorks first, and judge the rest, by the standards set by SolidCAM/SolidWorks. Test the other systems to see if they alert you if you make a mistake, give you the ability to set datums separate from the design model and check out how they handle revisions to the original design. The SolidCAM and SolidWorks package truly set the mark to compare the rest.

SolidCAM

Founded in 1984 by its Managing director Dr. Emil Somekh, SolidCAM provides manufacturing customers with a full suite of CAM software modules for 2.5D and 3D Milling, High-Speed Machining, Multi-sided Indexial 4/5 axes Milling, Simultaneous 5 axes Milling, Turning, Turn-Mill up to 5-axes and WireEDM. SolidCAM has the Certified Gold-product status from SolidWorks and provides seamless, single-window integration and full associativity to the SolidWorks design model including parts, assemblies and configurations. SolidCAM has today more than 12,000 seats installed. The company has been on a very rapid growth path since it implemented the SolidWorks integration strategy with annual growth rates over 30%. SolidCAM is sold by a worldwide reseller network in 46 countries.

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This is high praise coming from a company like Stenner Pump that is known world-wide for the best pumps in many industries and is continually the leader in design, manufacturing and product innovation. Stenner has proven that survival is not a secret, simply put, Innovate or become extinct.

