

Kern Technik GmbH & Co. KG

Customer Success Story

Autodesk® Inventor®
AutoCAD® Mechanical
Autodesk® Vault Workgroup

By taking advantage of Digital Prototyping, we can look at a number of different ideas for a solution before we cut steel. We can simulate and analyze our designs to minimize mistakes—and in the end provide a better product.

—Torsten Rausch
CAD and Data
Management Manager
Kern Technik GmbH & Co. KG

Going green.

Kern Technik wins business by producing energy- and material-efficient products with Digital Prototyping.

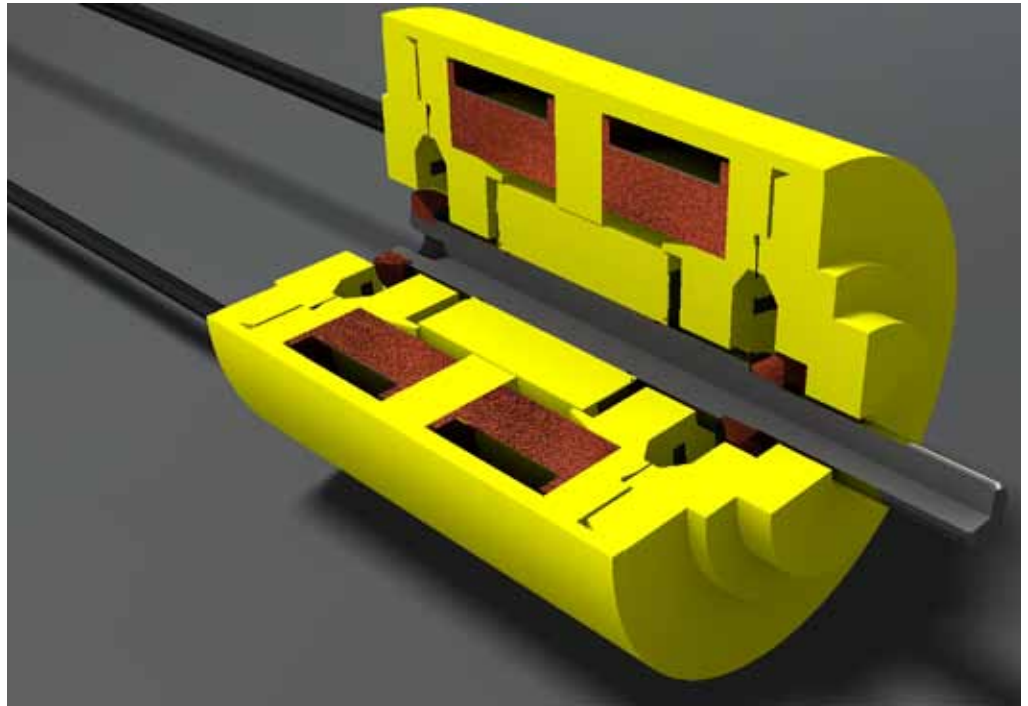


Image courtesy of Kern Technik GmbH & Co. KG.

Project Summary

Kern Technik GmbH & Co. KG is a leading international maker of solenoids. Its business is built around hydraulic, gas, and magnetic solenoids that are parts of larger control systems used in construction, building equipment, and machinery. Founded in 1941 as a metalworking company, it survived the Soviet dismantling of its factories and evolved into an innovative manufacturer that counts Siemens, Bosch Rexroth, and KBA König & Bauer among its many customers.

While Kern Technik is in a fiercely competitive field and closely guards its processes, the company's philosophy is to carefully invest in technology to deliver better results for its customers. Kern Technik uses Autodesk® Inventor®, AutoCAD® Mechanical, and Autodesk® Vault Workgroup software to:

- Use materials more efficiently, helping cut waste and material costs
- Provide more seamless data exchange between platforms
- Check for interferences in moving parts
- Drive sales using advanced rendering features

The Challenge

Customers are demanding tighter and ever-more-complex tooling according to Torsten Rausch, CAD and data management manager of Kern Technik. "Our biggest challenge at the moment is the industry trend to bring products to market that are more efficient in terms of material usage and energy consumption—much smaller and faster items that have a lower impact on the environment," he says.



The Solution

The company uses Autodesk Inventor software to design the mechanical and hydraulic systems on its machines and Autodesk Vault Workgroup to track revisions and prevent unauthorized use of drawings.

With Inventor software Kern Technik can create superior, optimized designs faster than ever. "By taking advantage of Digital Prototyping, we can look at a number of different ideas for a solution before we cut steel," Rausch says. "We can simulate and analyze our designs to minimize mistakes—and in the end provide a better product."

Kern Technik has also gained efficiencies by using Vault Workgroup to release and manage files devel-

oped by other manufacturers. "For years an older colleague kept everything in his head," Rausch says. "Implementing Vault Workgroup has made it far easier to find archived designs. Everything is easier to find, reuse is increased, and we can modify existing designs instead of doing them from scratch."

The Result

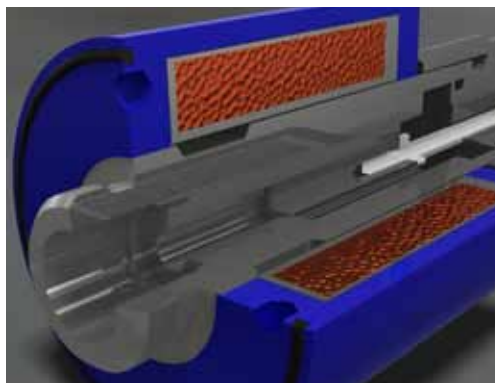
Faced with competitive challenges and an economy in which customers are reducing surplus capacity, Autodesk software is helping Kern Technik minimize the size, energy consumption, and amount of materials needed to construct solenoids.

Moreover, the solution lets Kern Technik demonstrate this competitive advantage to

customers, enabling them to see the benefits of energy and materials efficiency in a complex automated system. "With Digital Prototyping, our sales and marketing people can access photorealistic, real-time engineering data and use it for generating more revenue," says Rausch.

For More Information

To find out how the Autodesk solution for Digital Prototyping can help you complete projects faster and at a lower cost, visit www.autodesk.com/digital-prototyping.



Implementing Vault Workgroup has made it far easier to find archived designs. Everything is easier to find, reuse is increased, and we can modify existing designs instead of doing them from scratch.

—Torsten Rausch
CAD and Data
Management Manager
Kern Technik GmbH & Co. KG