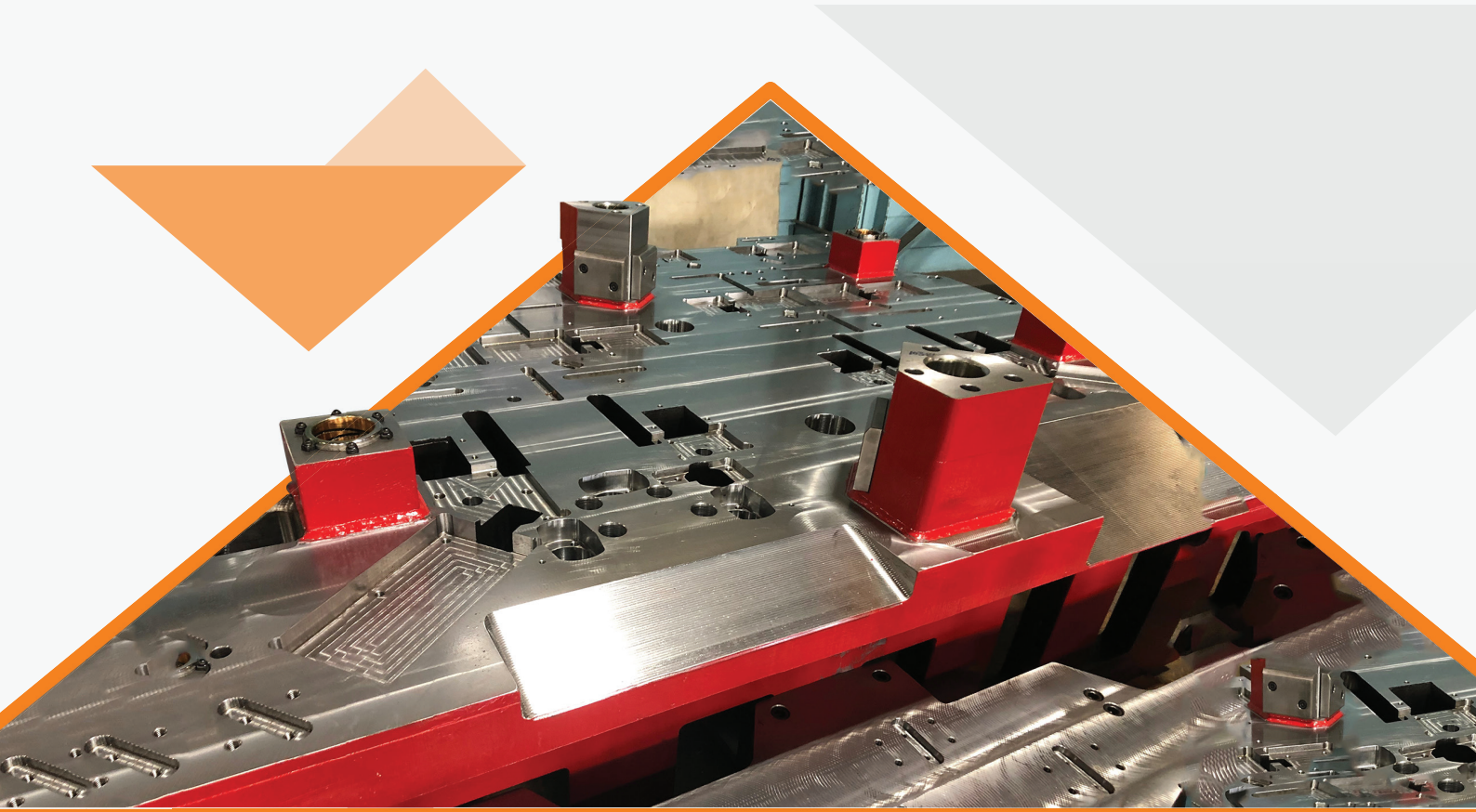


Boosting efficiency of mold and tool & die production

Anchor Danly increases spindle uptime, improves quality with CAMWorks and CAMWorks ShopFloor

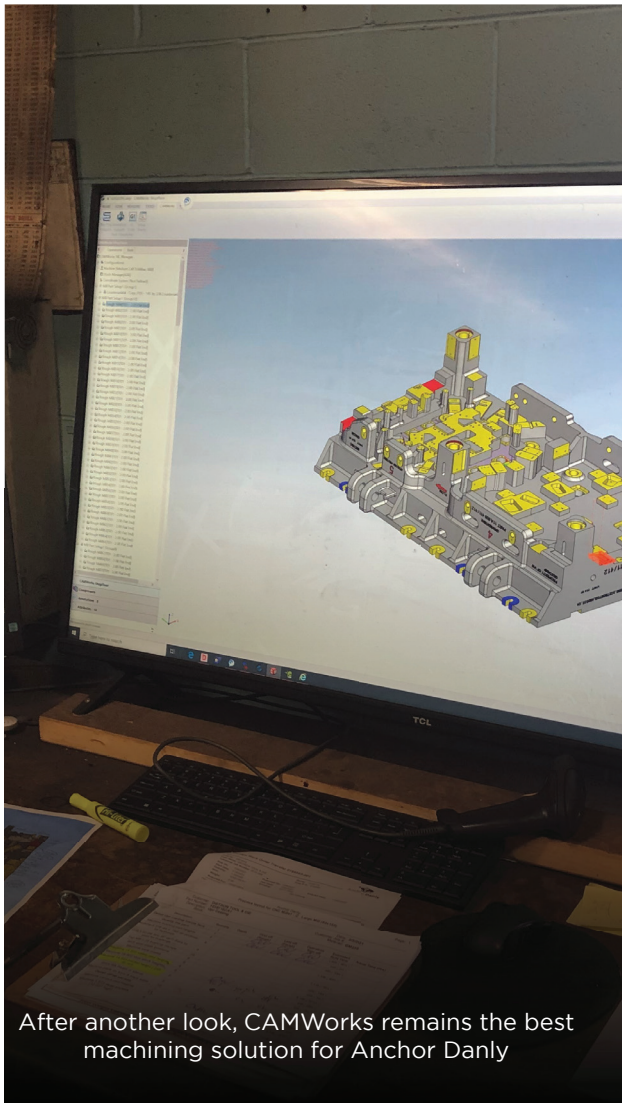


Anchor Danly is a leading international manufacturer and distributor of high quality die sets, components, steel plates, and metal fabrications. Their products are used in tools, dies, and molds for metal working and plastics injection molding, machine bases, mining & construction equipment, and general fabrications. With four facilities in Canada and the United States, Anchor Danly is the original equipment manufacturer (OEM) and distributor of the Danly: Lempco & Anchor style die set. In addition to producing these products, the company serves as a distributor for the Danly-IEM, Lamina, Lempco and Special Springs nitrogen lines of tools and mold components, and provides precision ground/machined plate of various grades of steel, as well as large metal plate fabrications.

The company is the largest North American manufacturer of large engineered die sets used by automotive and automotive parts industries. The automotive industry constitutes Anchor Danly's largest single custom metal parts market. Other important markets include manufacturers of industrial and textile machinery, motors, generators, electronic equipment, aircraft, diesel and other internal combustion engines, household appliances and fixtures, hardware, office equipment, agricultural equipment, railroad equipment, general machinery, and automation.

In short, Anchor Danly offers nearly every type of pin and bushing required for precision tooling, offering an extensive line of metal wear components and assemblies. The company's product lines include pins, bushings, die springs, punches, and wear/guide components used in die sets, molds, and machinery; large heavy cams used in stamping dies; and Lamina hydraulic motors and hydraulic equipment.

Anchor Danly is a leading international manufacturer and distributor of tool, die, and mold components for the metal working and plastics industries.



After another look, CAMWorks remains the best machining solution for Anchor Danly

According to Customer Service/Process Manager Ryan Wozniak, using an efficient, integrated CAM package is critically important for achieving the productivity gains that Anchor Danly needs to continue to grow and be successful. "Up until 2005, the company used SmartCAM® machining software for fabrication and production, but management actively sought something that would improve G Code programming consistency, boost productivity, improve quality, and facilitate more accurate estimating and quoting," Wozniak, who works out of the Cambridge facility, recalls.



The client

Company: Anchor Danly, Inc. | **Headquarters:** Windsor, ON, Canada

Industry: High quality die sets, components, steel plates, and metal fabrications used in the production of tools, dies, and molds for metal working and plastics injection molding, machine bases, mining and construction equipment, and general fabrications.



The objective

Make machining operations associated with the production of tooling components and fixtures as efficient as possible to increase spindle uptime while simultaneously controlling costs through more accurate estimating/quoting, improved quality, less scrap/rework, and the elimination of paper and printing costs.



The solution

Implement CAMWorks and CAMWorks ShopFloor machining software to take advantage of the solutions' seamless integration with SOLIDWORKS 3D modeling software, feature-based recognition capabilities, machining simulation/ estimating tools, shop floor access to model data, and extensive knowledge database.



The benefits

- Increased spindle uptime by 15-20 percent
- Made estimating / quoting more accurate
- Improved quality, decreased scrap / rework
- Eliminated paper / printing costs via paperless production



Ryan Wozniak

Customer Service, Process Manager
at Anchor Danly

“In 2005, Anchor Danly started evaluating other CAM packages,” Wozniak continues. “We were impressed with CAMWorks® because of the automatic feature recognition capabilities and technology database”.

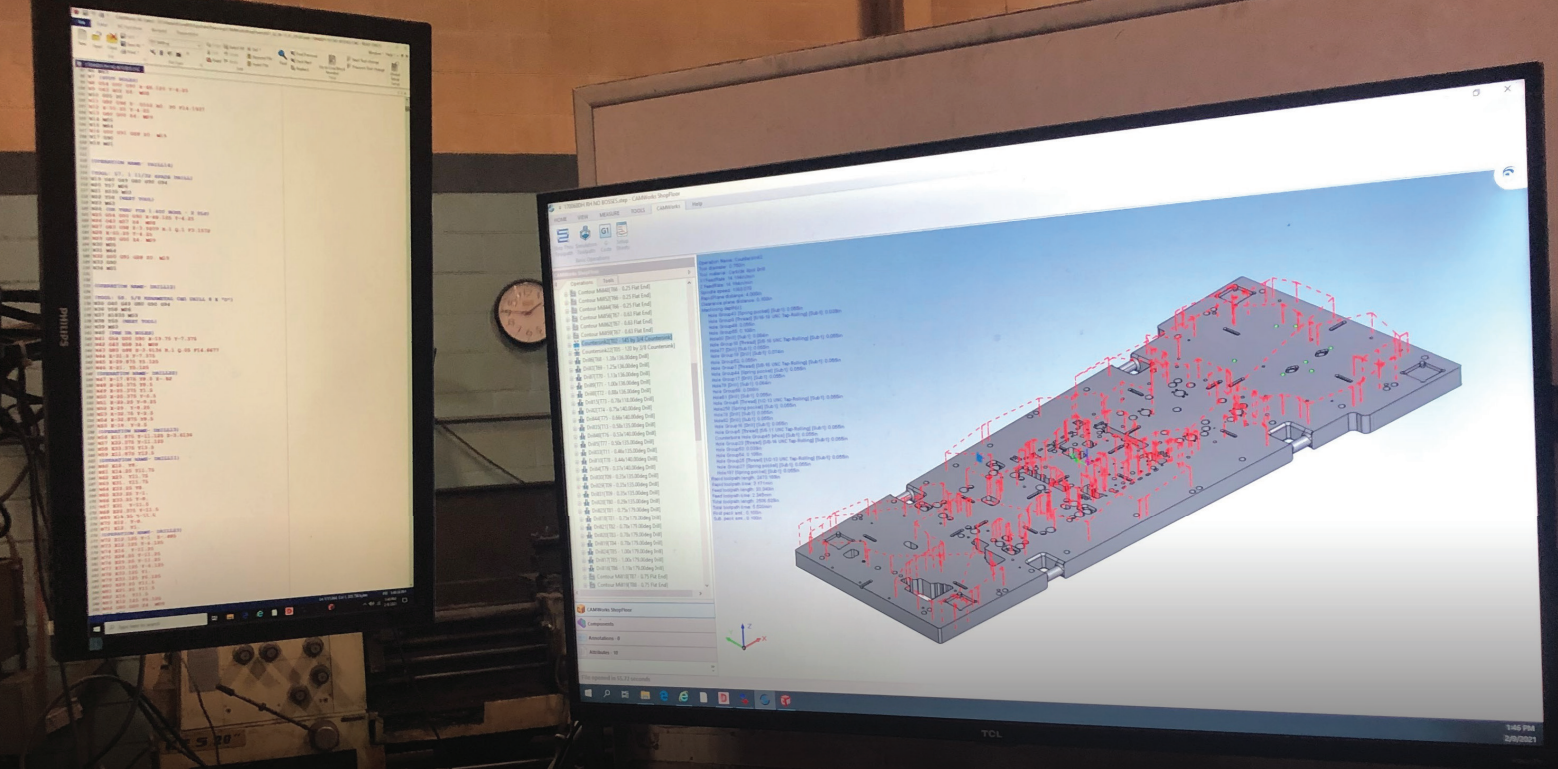
“Recently, we took another look at whether CAMWorks remains the best machining solution for Anchor Danly—evaluating MasterCAM® and VISI®, among others—and confirmed that CAMWorks—and the CAMWorks ShopFloor application that we’ve since implemented—is the best solution for helping us cut metal quickly and accurately,” Wozniak notes. “We were in the process of reviewing CAM systems when the announcement was made that it had been fully integrated with SOLIDWORKS® CAD software, which affirmed that we had made the right decision.”

Simultaneously improving spindle uptime and quality

Using CAMWorks milling and CAMWorks ShopFloor measurement, cross-sectioning, and machining simulation capabilities, Anchor Danly has been able to increase spindle uptime while simultaneously improving quality and reducing scrap and rework. “With CAMWorks, and more recently with the addition of CAMWorks ShopFloor, just about every facet of our operations has improved,” Wozniak stresses.

“From the way that CAMWorks works hand-in-hand with SOLIDWORKS CAD software to the ability to simulate tool paths and access sub-routines from the technology database, CAMWorks has helped us to improve our quality and increase spindle uptime, which is up at least 15 to 20 percent,” Wozniak adds. “We’re not wasting time re-programming or dealing with inconsistency in the G Code we’re running because it’s all in the database.”





Anchor Danly improved its estimating and quoting accuracy with the use of CAMWorks ShopFloor

Greater confidence, more accurate quotes

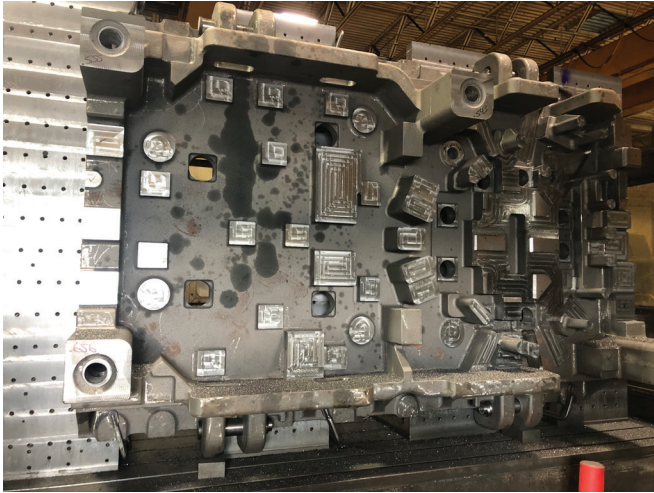
With the combination of CAMWorks and CAMWorks ShopFloor solutions, Anchor Danly has not only been able to improve its estimating and quoting accuracy but has also increased the confidence of machine operators. This results in less down time, because machine operators now have tools to interrogate 3D SOLIDWORKS models directly and update G Code automatically when design changes are made, as well as tap existing G Code in the technology database for common and complex operations.

“CAMWorks ShopFloor is the product that I’ve been looking for during the past 10 years,” Wozniak says. “With CAMWorks ShopFloor, there’s greater ease of understanding about what’s going on among the operators. Every mill has a large 60-inch monitor on which operators can view the 3D solid model, measure/cross-section features, and simulate the entire toolpath. In addition to helping our mill operators, the ability to simulate an entire milling operation in CAMWorks has helped our estimators become more accurate with quoting complex work because they can take the time calculated by the simulation, add a plus factor for bio breaks and tool changes, and produce a very accurate quote.”



Eliminating paper/printing costs with CAMWorks ShopFloor

In addition to increasing machine up-time, boosting quality, and improving quoting accuracy, the combination of CAMWorks and CAMWorks ShopFloor solutions has allowed Anchor Danly to implement a completely paperless system—with all drawings, setup sheets, shop prints, tool lists, models, and machining processes digitally represented via monitors on the shop floor. This digital system has enabled the company to completely eliminate paper and printing costs from its operations.



Anchor Danly has implemented a digital system that enabled the company to eliminate paper and printing costs.

“We used to print off 50-page prints for every milling operation for reference by our operators and then throw them away once the operations were complete,” Wozniak explains. “Although it took some time to adjust to the change, now there is an appreciation for having easy and quick access to all of the information about each job—from the 3D model to the machining simulation to all related information. CAMWorks ShopFloor helps our operators work smarter, not harder, helping us to increase throughput and keep the spindles turning.”

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