



RhinoCAM at T-Fay Tech!

[T-FAY TECH](#), a custom machine shop, in operation since 1998, is located in Elora, Ontario. The geographic location of which is made famous by the spectacular [Elora Gorge](#) and its 80-foot limestone cliffs descending into the Grand and Irvine Rivers, a favorite for adventure enthusiasts and nature lovers alike.

Owner and [RhinoCAM](#) user since 2011, Tamas Fay provides custom component manufacturing, machining capabilities, and production CNC machining to the industrial machinery in Ontario and across Canada. T-FAY TECH specializes in machined precision components, fixtures, jigs, gauges and industrial automation and special purpose machines requiring precision CNC milling and turning applications. Materials typically used include aluminum, plastics (derlin and semitron), steel, tool steel (A2, 4140, D2) and stainless.

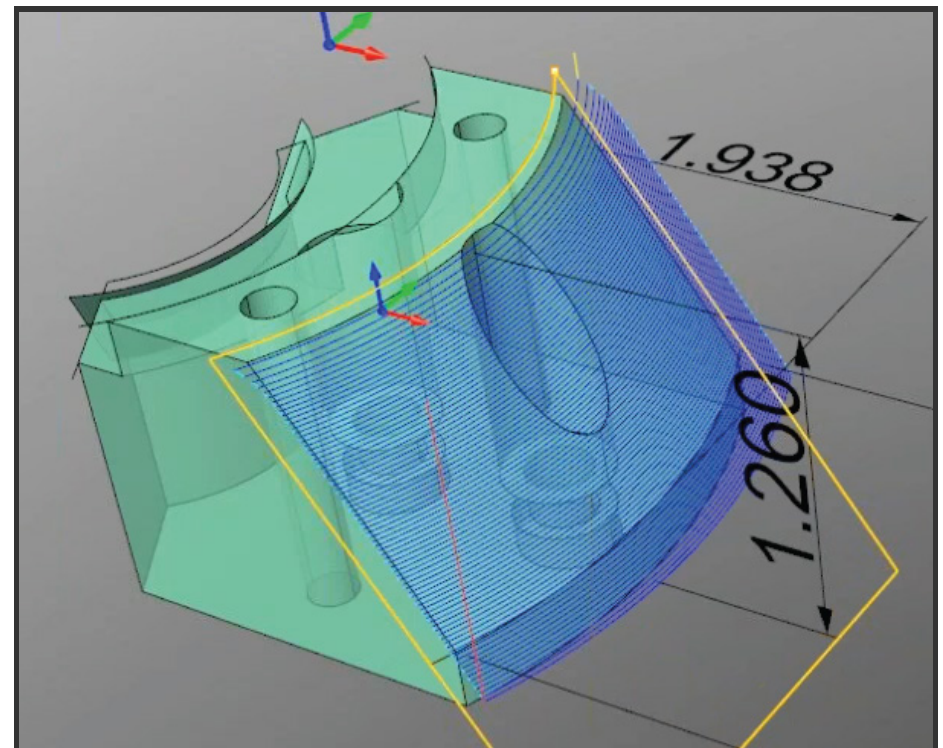


Figure 1 - RhinoCAM 2016 coupled with Rhino 5.0 provides T-FAY Tech the tools they need to cut precision parts. In this example, a 3 Axis Horizontal Finishing toolpath is shown generated from a Rhino reference surface.

(a)

(b)

(c)

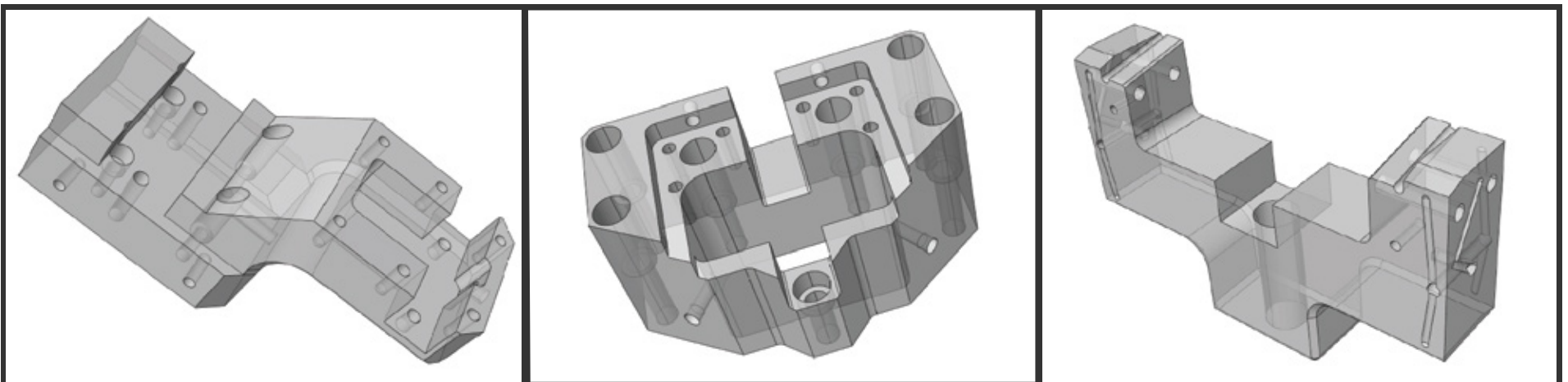


Figure 2 – T-FAY TECH machines precision components for tool & die and industrial machinery applications. Here are three typical examples of the type of machined components from T-FAY TECH.

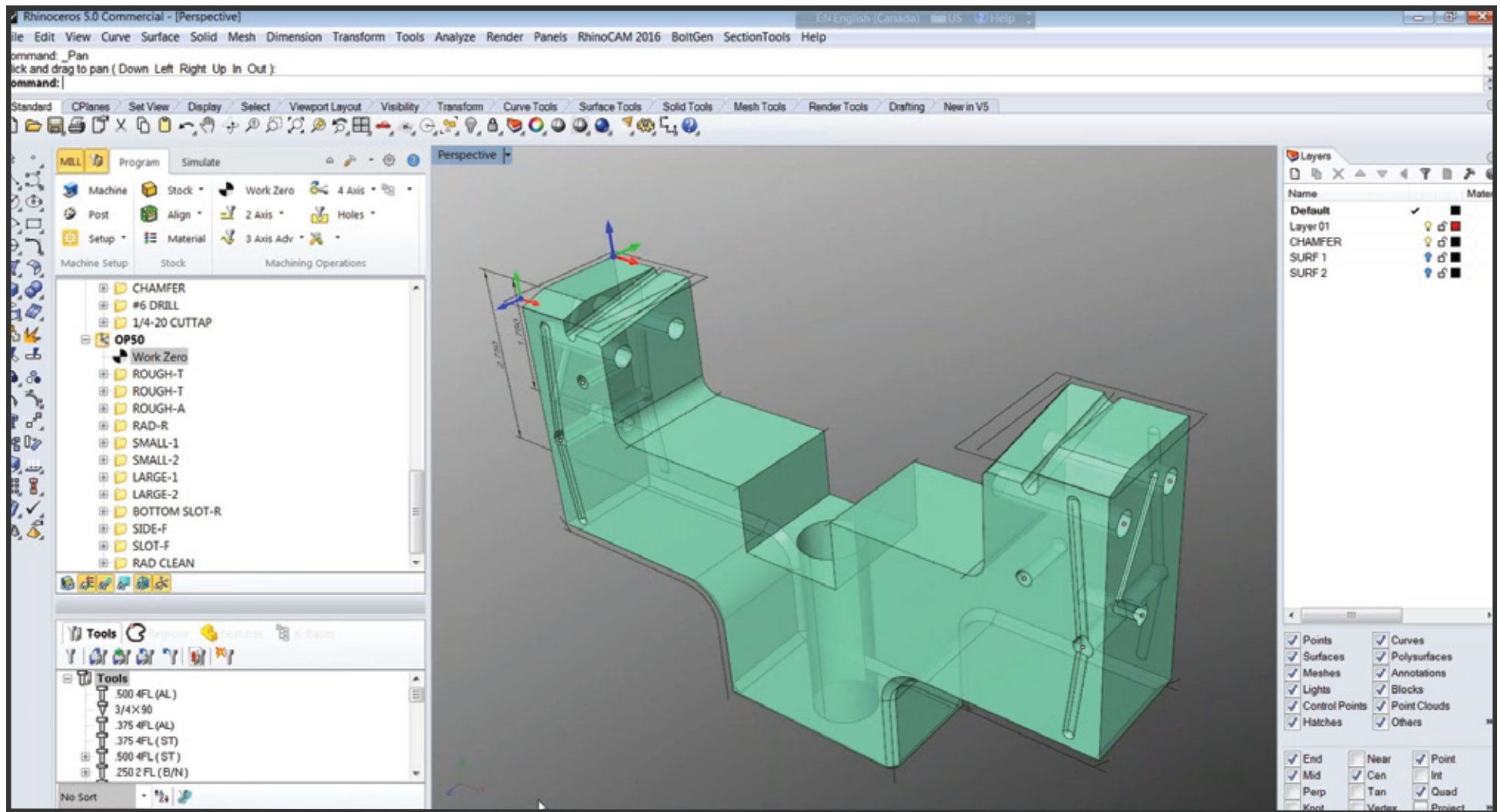


Figure 3- Sample Tool & Die part machined at T-FAY TECH from A2 Tool Steel. The RhinoCAM functionality is neatly composed within the Machining Browsers displayed on the left side of the Rhino 5.0 display.

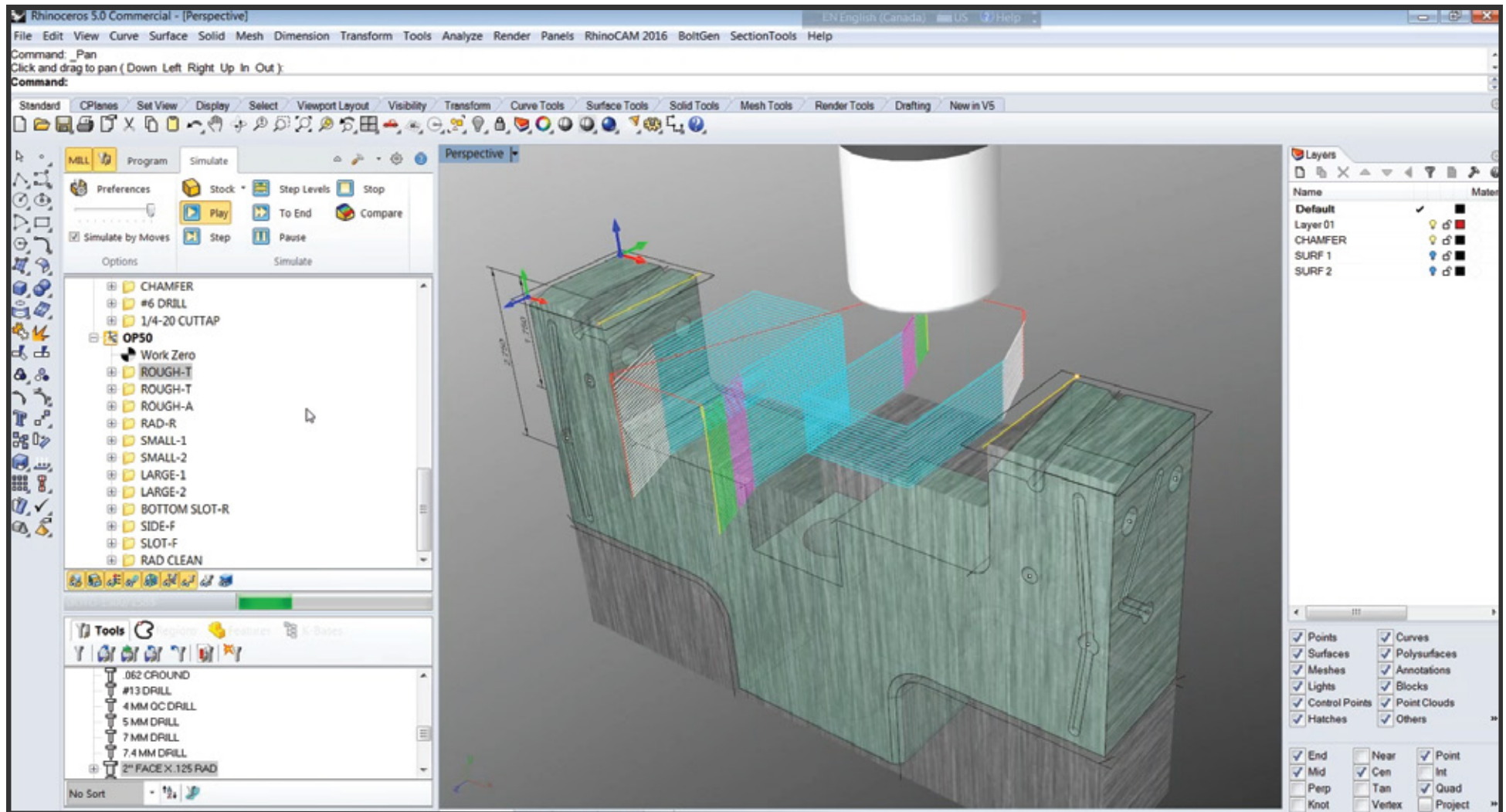


Figure 4 – Advanced Cut Material Simulation in RhinoCAM for the initial 3 axis Horizontal Roughing operation is shown here. Beginning in 2016, the Advanced Cut Material Simulation is now available in all RhinoCAM configurations!

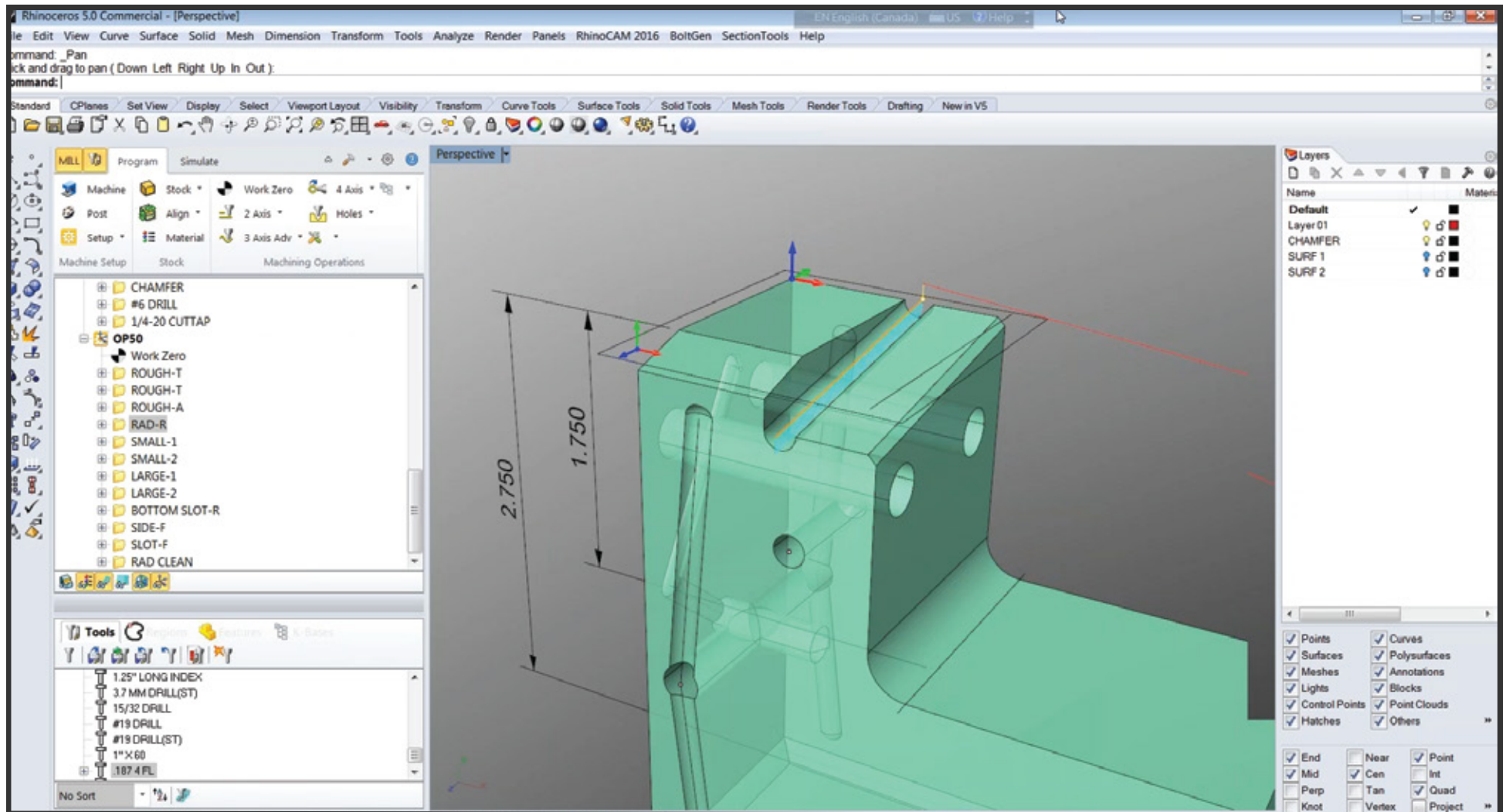


Figure 5 - Tamas loves how RhinoCAM allows him to work with any geometry type needed to get the job done! In this example, a simple line, a 3/16" Ball Mill and a 3 axis Curve Machining operation to cut the required part feature.

A Bit of CAD/CAM History at T-FAY TECH

In 2008, Tamas started out using the Standard configuration of [VisualMILL](#). To get more proficient with 3D CAD modeling he started learning [Rhino](#) and fell in love with its ability for “free-style” modeling, accuracy and versatility! After learning Rhino in 2011 it was a natural decision for T-FAY TECH to migrate to RhinoCAM. Tamas also upgraded from Standard to the Professional configuration which provided all of the advanced 3 axis toolpath strategies that he now uses every day!



I looked at MasterCAM® but the cost was prohibitive and I didn't want to spend the weeks of recommended training that would be required to get started. I also spoke with other MasterCAM® users and was told to expect 3-6 months of experience “to get it right”. I then tried another CAM program called BobCAM® and was unhappy with it. Even though I purchased it, I don't even use it! I've been with MecSoft ever since! Also, the technical support is by far better than any other company I have worked with and they will call you back!

CNC equipment used at T-FAY TECH:

- ✓ Kitamura 3 axis milling center 30" X, 18"Y,18"Z
- ✓ Fadal CNC milling center VMC3016 with 88HS control 30" X, 16" Y, 20" Z
- ✓ Matsuura RA-1GII milling center with pallet changer 21.6" X, 16.1" Y, 18.1" Z
- ✓ Miyano CNC turning center BNC-34S (up to 1.25" diameter by 4x diameter long, sub spindle and 12 bar feed capacity)
- ✓ Additional controls: Yasnac i80 and Yasnac 300j with high speed option

When Your Software Company Actually Listens!

Tamas has been one of those users who have been instrumental in helping to shape RhinoCAM into the product that it is today. Here at Mecsoft Corporation, we encourage constructive user feedback that helps us better understand how our software is used in the real world (i.e., what works and what needs to be improved)!

In older versions of RhinoCAM, for 2½ Axis Pocketing and some 3 Axis Horizontal Roughing applications, the tool entry was automatic and often times ended up feeding down into the material.



When cutting plastic or wood this would not be a problem but for cutting steel, it was a nightmare says, Tamas! I lobbied for an enhancement that would allow me to predrill critical areas and force entry at the predrilled points. This is now possible in RhinoCAM.

Tamas lobbied for additional user enhancements that made it into the product, such as sorting tools by name and diameter, and the ability to fit arcs to toolpaths, to name a few.

More information:

For more information about the topics discussed in this article, you can refer to the following links:

- ✓ [T-FAY TECH website](#)
- ✓ [Learn more about RhinoCAM](#)
- ✓ [View more products from MecSoft](#)