

RPM**REPORTING** □ **PROBING** □ **MONITORING**
□ trends in the machining industry □

RPM is a monthly, one-page, PDF newsletter published by DATRON Dynamics, Inc. to cover trends in the high-speed micro-tooling industry.

Cool Customer!

Steve Brenneisen of Ross Custom Switches earns Cool Customer accolades this month. Steve chose a Datron Aluminator, to bring all out-sourced production of small parts (used to switch model trains from track to track) in house. He maintains a 500% increase in throughput — 50 parts per hour compared to 8 to 10 parts per hour in 2002. With the Datron machine, his cost per part went from \$8 each to only \$.50 each providing a 16 times higher profit margin (a 1600% increase). Annual production costs went from \$64,000 to only \$4,000. Now that's Datron savings!

About Ross Custom Switches: Since 1972, Ross has been designing and manufacturing proprietary switches for model trains. Visit them online at www.rossswitches.com or contact Datron to get the entire Ross Case History PDF.

PrimCam Probing.

The latest version of PrimCam has support for Datron's Z-Correction Probe™ built right into the software! So, unlike most CAD/CAM systems, you don't have to add probing commands after exporting your machining data. You just output one complete file and go. Since, PrimCam supports all our features and controls, using the this probe to measure and compensate for surface variance is now easier than ever — so your projects go from R&D to the shop floor and out to your customers all in the blink of an eye.

DATRON Dynamics is a distributor for DATRON Electronics Makers of the awe-inspiring 60,000 RPM CNC Machine Centers 454 Route 13 • Milford, New Hampshire 03055 • USA t 888.262.2833 • f 603.672.8067 • www.datrondynamics.com © 2003. All rights reserved.

Be sure to visit the Datron Dynamics Booth #3347 in the Young Building at the EASTEC Show, May 25-27.

Smooth It On Over.

One of the more impressive advantages of the new Datron Windows® Control Software is a feature we call smoothing. Essentially the command is a filter you can turn on or off at any point in a program to optimize the cutting path. The feature allows you to “smoothen” a high volume of cutting vectors often found when posted from 3D CAD/CAM software. The control automatically calculates a smooth spline over a series of short line vectors, creating an optimized route for acceleration and deceleration of the machine servos. This process will achieve a superior surface finish and faster cycle time. Because the settings compromise the tool path, the surface geometry is usually altered slightly and sometimes detail is lost. However, the command is fully programmable allowing the user to define the amount of smoothing required and can be switched on and off at any point. You can see below an example of how radical a cycle time can be diminished, with very little loss in detail.



Program straight from CAD/CAM
Cycle Time: 50:45



Program altered with Smoothing
Cycle Time: 32:45

Emailable Service Reports.

With Datron's new Windows®-based Control Software, operators can check the status of items such as current consumption on a servo motor, temperature of the spindle and electronic continuity — all within the familiar Windows® interface. Plus, a report function allows users with questions or problems to simply type a message in a dialogue box and email the report to a Datron service specialist right from their machine. This report includes all the error message files, system files and .ini files from the machine to help Datron service specialists make a diagnosis and quickly provide a solution.