

## Cool Customer.

Aero-Tec Industries, based in Seminole, OK, manufactures a wide variety of internally illuminated control panels for usage in fixed wing, rotary wing and simulator applications. A large percentage of these are manufactured to be compatible with night vision goggles. In 2005, Aero-Tec President, Charles Harbert set out to find a CNC machine capable of batch machining illuminated displays for aircraft communications gear from cast acrylic. But, these were to be no ordinary displays and to produce them they needed an extraordinary CNC. Read about it in *Aerospace Manufacturing & Design Magazine* — in the Fall 2007 issue.

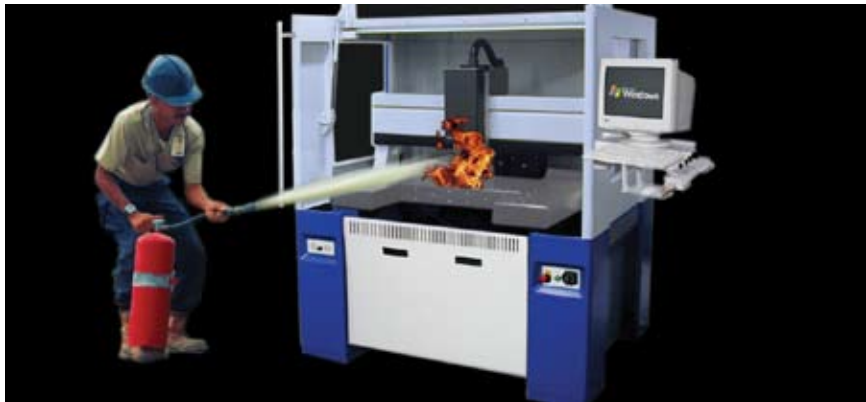
**Plastics Machining Tip:** Machining plastics requires high speed. Slower spindle speeds allow heat to build up and melt the plastic rather than cutting it. High speeds throw chips out of the cutting channel and prevent bird-nesting.

## Plastics One, Two.

**1.** Machining plastics can be like aluminum and very sharp tools work better than than very hard-edged tools. That said, carbide tools or hardened steel tools are required for machining fiber reinforced plastics that contain glass or ceramics. **2.** A plastic with a low Durometer reading (an indication of softness) will machine easily ... perhaps too easily as the material can be squeezed out rather than cut cleanly out of the cutting channel. So freeze the plastic prior to machining it.

**DATRON** Dynamics is a distributor for DATRON Electronics Makers of the awe-inspiring 60,000 RPM CNC Machine Centers 115 Emerson Road □ Millford, New Hampshire 03055 □ USA t 888.262.2833 □ f 603.672.8067 □ www.datrondynamics.com © 2007. All rights reserved.

## Fire Bad. Fire Extinguisher **WORSE!**



### The Chemicals in most fire extinguishers destroy CNC machines!

Fortunately, Datron Dynamics, Inc. now offers an Automatic Fire Suppression System designed specifically for use on our high-speed machining centers. The system uses FM200 liquid to suppress fire without damaging the working components — thereby protecting your investment and perhaps even your business.

At the heart of this system is a proprietary, polymer, thermal-detection tubing that will rupture when exposed to a flame. The composition of this unique tubing combines leak resistance, flexibility, durability and a precise temperature sensitivity — allowing it to react quickly when heat from a fire is present. The tubing connects to custom engineered valves and a fire suppression cylinder that contains the best suppression agent for CNC machines.

The reason that fire readiness becomes increasingly important in today's manufacturing environment, is because there are more and more workpiece substrates that can burn. Plastics are a good example. If you're running G10 or FR4 unattended, Look Out!



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