

# APPLICATION SPOTLIGHT

## Firetrace Systems Protect CNC Turning Centers From Fire



Image 1 - Swiss-Type Turning Center

Swiss-Type Turning Centers are the standard in precision metal working across the world (see *Image 1*). The machines are used extensively to manufacture an array of products, including medical instrumentation, electronics, fiber optics, automobiles, business machines, aerospace, defense, firearms, tools, valves, fasteners, etc. Manufacturing companies using these machines continue to increase their unattended machine operation and around the clock production. Although these machines are designed to be inherently safe from fire, human error can lead to a potentially devastating fire—especially since they use lubricants and coolants that can ignite if exposed to extremely high temperatures. And, since these machines can cost upwards of \$300,000, machine repair and downtime could be very costly.



Image 2 - Installed Firetrace ILP system

In an effort to protect their valuable *AND* revenue-generating Swiss-Type Turning Center from fire damage, a precision parts manufacturer in the Northeast recently had a Firetrace Indirect Low Pressure (ILP) system installed (see *Image 2*). This UL Listed and FM Approved ILP system utilized FM-200® as the fire suppressant. The Firetrace Detection Tubing (FDT) was routed above and beside the machine's cutting area (see *Image 3*). The system incorporated two discharge nozzles, strategically positioned to suppress a potential fire (see *Image 4*), and a Manual Release mounted on the machine's control panel (see *Image 5*). The Firetrace distributor used creativity in securing the FDT to the inside of the machine by using strong magnets. They connected the FDT Mounting Tabs directly to the magnets and did not have to drill into the machine itself (see *Image 5*). The installation was performed in less than a half day, allowing the machine to quickly begin its 24/7 operation once again.

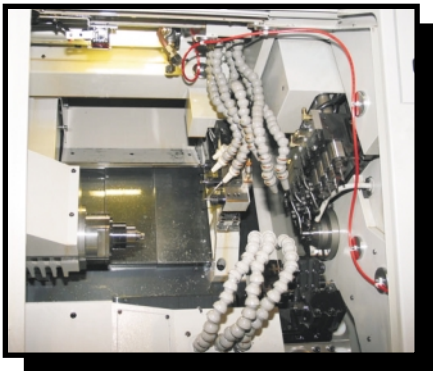


Image 3 - Firetrace Detection Tubing

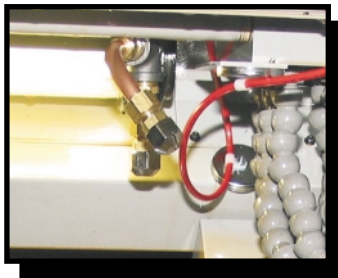


Image 4 - Fixed Distribution Nozzle



Image 5 - Manual Release & FDT mount

### FIRETRACE

AUTOMATIC FIRE SUPPRESSION SYSTEMS

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<sup>1</sup> Marubeni Citizen-Cincom Inc. does not specifically endorse Firetrace. Their equipment is inherently safe from fire when operated properly.