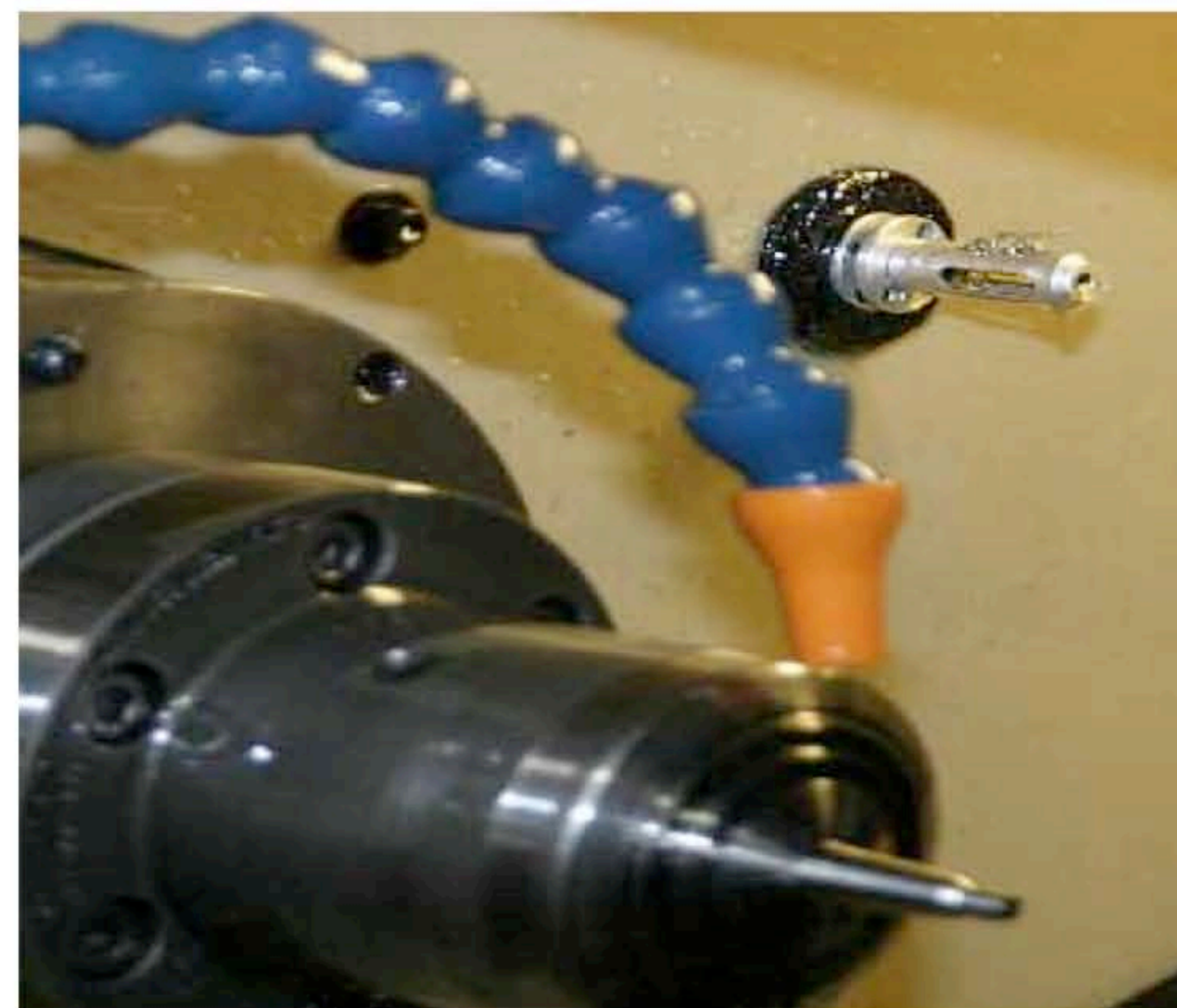


## **CNC Fire Suppression Systems for Modern Machining Centers**

USA PRO – SAFECRAFT, noted for their industrial, aircraft, racing (NASCAR, NHRA, etc.), and engineering expertise for multiple automotive safety products, has developed the ultimate in safety and simplicity for machine shop fire suppression systems: CNC, EDM, Milling, Grinding.

Installation provides 24-hour protection including "lights out". System features our ultra-fast thermal detection, combined with machine emergency stop functions, and multiple alarms. Standard system also includes our NASCAR-NHRA-approved hand or push-knob suppression discharge release.



Note. (figure 1) all-in-one cylinder- sensor- shutdown/alarm plug – (figure 2) the thermal sensor works alongside the coolant and cutting tool – Fires can occur spontaneously due to a momentary lack of control of the cutting tool, heated metal surfaces, and coolant mist combining with oxygen. This simple process can produce sufficient energy to ignite the liquid coolant as well. If you're machining a metal with a low flash point, the cascade of events could be catastrophic.

Model 4-8000 CNC-01 is engineered for these specific applications - taken from the demands of our aircraft, racing systems and heavy duty vehicle engineering background. System is easily installed and maintained, with ultra-fast reaction, wide-band suppression coverage, is operator friendly, and provides reduced down time should an incident occur.

Agents like powder and carbon dioxide suppression are slower. Powder can facilitate corrosion, does not stop flames from spreading, and can damage both the machine tool and coolant mixture. Carbon dioxide is a far less comparative suppression agent than Halon for these applications and we do not recommend it for aircraft, racing or machine tool applications.

The 4-8000-CNC-01 utilizes a pre-system engineered thermal dispersion injector in combination with Halon – H 1301. H 1301 is a colorless, odorless gas, with a 50% discharged rate of less than three seconds; Halon 1301 attacks the fire; other products try to blanket it and making them less effective and far slower. Some systems require multiple powder nozzles, elaborate piping and electrical input which are not needed with our system and H 1301 will not contaminate the coolant. System is prepared to attack a fire with proven thermal nozzle dispersion day or night.

Safety Never Takes a Holiday