

# FirePro.

## Kumi A-TECH Solution

Location: **Asia** Distributor: **FirePro Korea** Application: **CNC Machines** Industry: **Manufacturing**



### KUMI A-TECH SOLUTION

Kumi A-TECH Solution Co. produces various components by utilizing advanced automation robotics and wireless computer numerical control systems. Kumi A-Tech invests heavily in Research and Development and holds patents for high-gloss mold and double molding device technologies. It is currently a military substitute service company and one of the largest sub-contractors for Samsung Electronics with ISO 9001:2015 / ISO 14001:2015 Quality and Environmental Management System certifications.

#### The Task

Supply, design, install and maintain a reliable and robust fire suppression system for the fire protection of the Fanuc Robodrill equipment. By assessing the situation and implementing proper fire risk mitigation methods, the fire engineers sought to ensure risk mitigation with maximum uptime and the wellbeing of the business and its employees. They also wanted to make sure that any unattended (lights out) CNC machining could meet contract requirements and increase efficiency and profitability while limiting fire risk.

FirePro Systems used:

**FP200**

### Risks Involved & Consequences

Fires within CNC Machines can cause major destruction in seconds, even in the presence of highly capable operators. These fire hazards are primarily linked to oil mist that forms during the machining process, as well as to human error, improper use and maintenance issues. The consequences of a fire incident within these sophisticated and instrumental machines can be catastrophic. Direct damage to the machine and any peripheral equipment involves lost revenue and productivity, extensive downtime, insurance claims and injuries, as well as environmental damages.

### Why FirePro?

FirePro possesses the know-how for protecting complex and critical applications, as well as the indisputable credentials attesting to the effectiveness of its technology. Moreover, the system's ease of installation, robustness, minimal space requirements, low maintenance and 15-year product lifetime are just a few of the attributes that set FirePro apart from other technologies. Furthermore, the fire suppression condensed aerosol generator can be retrofitted and integrated with existing control systems, enabling real-time system status feedback. FirePro's proven reliability across the industry ensures a long operating life.



## Results of Implementation

FirePro Korea supplied a bespoke FirePro fire suppression system as per project specifications to replace the existing failed gas system (see pictures). FirePro engineers designed the system, which included a double-knock flame and ATEX heat detector, from the ground up and carried out its installation within the prescribed time limits. The system currently protects the specific CNC machine and is ready to protect it from fire as well as to notify the operator.

