EDM and Milling Expertise for the Aerospace and Power Generation Industry

When it comes to its customers, Turbine Technologies Inc. is mission driven. When your customers include the cream of the U.S. military defense industry, General Electric, Pratt & Whitney, and Lockheed Martin, among others, makers of the military’s Black Hawk helicopter and F-22 and F-35 Raptor fighter aircraft, you’d better be. “It’s all about the mission,” said Tyler Burke, Turbine Technologies’ president and CEO, “and there’s no room for error.”

Turbine Technologies’ specialty is in providing high precision sinker EDM, wire EDM, 5 axis milling, airflow testing, and project management expertise to the aerospace and power generation industries. EDM is a design manufactured and engineered process that shapes an engine component, in Turbine Technologies’ most frequent use, a turbine engine’s blades and vanes, using electrical discharges to create profiles and cooling holes. About half of Turbine Technologies’ work is in the commercial power generation industry, maintaining the giant turbines that work virtually non-stop in power generation plants. The other half is split between military and commercial aerospace work.

“We are a 100 percent veteran owned and operated company,” said Burke, speaking both of himself, an Army Tank Commander during Operation Iraqi Freedom in 2003-2004, Cavalry Officer during Operation Enduring Freedom in 2010, and his Vice President, a 27 year Army Special Forces veteran.

The employee base is 20 percent ex-military as well, he added, many drawn from the ranks of former military officers of all branches — commissioned and non-commissioned — who possess highly proficient technical skills and leadership abilities. Many, including Burke, continue their service in the reserves and National Guard. Employee tenure at Turbine Technologies averages around 16 years, said Burke, though many employees possess 20 years or more with the company. All maintain the highest levels of certifications and training in the industry.

“Our equipment mix is constantly being upgraded to new CNC machines with larger work envelopes in order to drive costs out of the process and sustain our position as EDM, milling, and airflow leaders,” he said. Burke added that the company’s workforce is Lean manufacturing trained, a corporate priority to attack economic waste and costs for their customers, and that a number of employees are Six Sigma Black Belt certified.

Burke attributes this level of company commitment, work force consistency and discipline as chief among the reasons Turbine Technologies is considered to be the EDM leader in the aerospace and power generation industry, and in providing full service EDM project management.

“We’ve got this combination of senior military leadership, lean manufacturing and industry experience. It’s a winning combination,” he said.

It is often said that the military is like a family. In Burke’s case, that’s certainly true. His brother, an active duty U.S. Army officer, is a test pilot for the Black Hawk helicopter.

“That really brings it home for all of us here,” he said. “When you’re holding a blade that is going into an engine that a family member could be piloting, you’re going to make sure you’re on top of the mission. We are the best at what we do.”

Turbine Technologies, Inc.
Address: 126 Hyde Road, Farmington, CT 06032
Phone: 800-678-1642
Fax: 860-677-4216
Website: www.turbinect.com
Number of employees: 60
Top Executives: Tyler Burke, CEO/President; Max McIntyre, Vice President; Rick Daigle, Engineering Director; Fred Fitzgerald, Technical Director; David Marchak, CFO
Product or Service: Providing high precision sinker EDM, wire EDM, 5 axis milling, airflow testing, and project management expertise to the aerospace and power generation industries.
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