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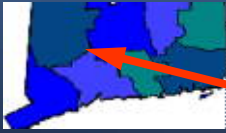
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Southington, CT

CV TOOL COMPANY

Published in The Southington Observer April 12, 2018
Submitted by Dee Babkirk, CTMA Executive Director

By SHERIDAN CYR
STAFF WRITER

U.S. Senator Chris Murphy (D-Conn.) visited CV Tool Company, Inc. on April 4 for a guided tour of the facility and discussion with employees and owners as part of “Murphy’s Monday Manufacturer” series, which highlights manufacturers across the state for their unique contributions.

CV Tool’s Southington branch, at 44 Robert Porter Rd., employs 48 machinists, and the company also employs about 20 in their Fitchburg, Mass. branch.

The facility manufactures machined tools, steam turbine packing rings, and other hardware for the defense aerospace, nuclear and steam turbine industries.

“Southington has a rich manufacturing history, and a big future in manufacturing,” said Murphy. “It’s companies like this that are going to thrive, and Southington has made it easy for CV Tool to thrive and stay rooted in town.”

Part of Murphy’s visit was to see firsthand the effects of the bipartisan BuyAmerican.gov Act, a bill he and U.S. Senators Rob Portman (R-Ohio), Lindsey Graham (R-S.C.) and Sherrod Brown (D-



CV Tool owner Carmine Votino, right, discusses his facility that employs 48 machinists in Southington, making machined tools, steam turbine packing rings, and other hardware for the defense aerospace, nuclear, and steam turbine industries. CV Tool was recognized as part of “Murphy’s Monday Manufacturer” series. (Photo by Janelle Morelli)

Continued on page 7



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U.S. Senator Chris Murphy, center, visited CV Tool Company with local officials. From left, Town Councilor Tom Lombardi, Mike Votino, John Votino, Murphy, Carmine Votino, Southington economic development director Lou Perillo, and State Rep. Liz Linehan (D-103). (Photo by Janelle Morelli)

Ohio) unveiled in January that sought to establish a centralized online hub to increase transparency and ensure federal agencies prioritize the purchase of American-made goods in compliance with existing law.

As explained in a January press release, federal agencies may use domestic content waivers to Buy American laws to purchase goods or services from foreign companies only in certain circumstances. Evidence was revealed that U.S. federal agencies have granted an excessive number of waivers to Buy American laws in the last few years. The act would create a central, public website to collect and display information about each requested waiver to Buy American laws.

“This facility is a great example of how a federal policy brought business to this company,” Murphy said, “and local leaders have helped them to expand. You’ve got to have that partnership between federal purchasing policy and local economic development to be successful.”

CV Tool president Carmine Votino explained the facility began in a different location in downtown Southington in 1980 before moving to the property at 44 Robert Porter Road. Since the move, the facility has undergone six additions.

The company specializes in aircraft machinery and supplies both commercial and military products. At the Southington branch, employees work 12-hour shifts, and Votino is looking into hiring about a dozen more employees to work a night shift. However, he said, it’s difficult to find trained and qualified candidates.

Continued on page 9



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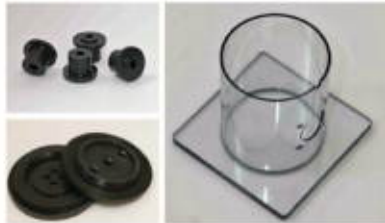
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Southington Economic Development director Lou Perillo said that issue is “a common statement” from owners of factories. “I’m just glad the business is so strong, and if you could get some more help, imagine what you could do,” he said.

Murphy said the BuyAmerican.gov Act would strengthen Buy American laws and boost the state’s economy as well as secure the national security supply chain.

Southington Town Councilor Tom Lombardi (R) said that he was pleased to have the senator visit. “I’m excited that Senator Murphy is taking time out of his busy schedule to see the great things happening in Southington.”

Murphy’s visit was a homecoming of sorts. His political career began when he was a Planning and Zoning Commissioner in town before he became a State Representative and then a State Senator. He entered Congress in 2007.

“I’m particularly proud of the businesses that grow here in Southington,” he said. “I have a lot of friends on both sides of the aisle here because Republicans and Democrats tend to come together in this town to work for the economic benefit of the town.”

CV Tool Company is the second Southington company to be recognized by the senator and the first since Yarde Metals in 2015. For more information about the series, visit murphy.senate.gov.

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In general, manufacturing in the US has picked up in the last two years. In the case of equipment manufacturing, the growth is even more pronounced. According to a US Market Research Report on Industrial Machinery & Equipment, there will be higher demand for industrial machinery and equipment over the next five years.

To keep up with this demand and stay competitive, there are several areas Machine Manufacturers will need to concentrate on including...

1. Provide consistent quality and delivery across all markets
2. Manage the challenge of finding qualified workers
3. Focus on operational optimization to increase efficiency
4. Manage the workload while continuing to innovate for the future

With so much to focus on, many machine and industrial equipment manufacturers are looking to partner with companies who can assist them. While innovation, quality and delivery management are often handled in-house, an outside partner can make up for an unfilled position and/or assist with increasing efficiencies.

These partnerships can enable machine manufacturers to work outside their realm of expertise. In some cases, partnerships enable manufacturers to complete tasks that they have never done in-house or no longer have the capacity to keep up with production. In other cases, manufacturers benefit because they no longer have staff able to perform certain operations.

As their machine manufacturing clients continue to grow, Sirois Tool has been able to help them keep up with the demand. They specialize in complex, precision parts, assemblies and prototypes for low volume and custom machine manufacturers. Assemblies are produced for small volume orders of 1 to 1,000 pieces.

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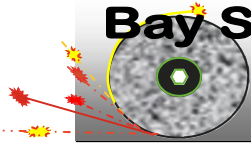
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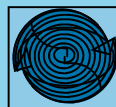
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PRESS RELEASE

Caron Engineering's New High-Resolution Power Sensor for Monitoring Low Power Cuts

Caron Engineering has been optimizing the machining process for the metalworking manufacturing industry for over 30 years. Specializing in tool monitoring and adaptive control by monitoring true motor power to determine when a tool is worn or broken; has set them apart in the industry as a more precise way of measuring tool wear. Their standard power transducer has a 2 – 90 HP range. This transducer provides valuable resolution above 2 HP, but today's low-end (0 – 2 HP) sensor readings tend to blur into unusable data which is subsequently of little value.



Caron Engineering's newest sensor option is a high-resolution (24 bit) USB power sensor. This sensor provides superior resolution at lower power cuts in the 0 – 23 HP range. This higher resolution allows monitoring very small tools (less than 1 mm), right angle heads, and other applications where the measured cutting power is too small to be captured with a typical power transducer. Specifically, Swiss-type machines are used for smaller, more precise parts, with super-small tools, and thus need more data sampling rates in the low HP range.

This high-resolution power sensor is making its debut on the market as a new sensor option for Caron Engineering's product DTect-IT; a monitoring system that communicates with custom USB (universal serial bus) sensors to detect machine irregularities. DTect-IT communicates with multiple USB sensor options including vibration, strain, analog, and now, high resolution power. The USB connection offers easier installation and maintenance due to the modular design inherent to USB architecture.

DTect-IT is now capable of monitoring the slightest cutting operations with power. A 1 mm spot drill, (similar to a small needle lightly pricking a finger), is easily detected. A subsequent 1 mm peck drill operation is captured on the monitoring graph, showing each individual peck through the material, with superior resolution.

Caron Engineering has typically monitored micro-tools with strain and vibration sensors. With the new high-resolution power sensor, DTect-IT can detect tool wear and breakage based on the measured power of the small cutting tools. Monitoring can be initialized through the CNC, manually on the DTect-IT touch screen, or via physical I/O. Using limits for wear, extreme, and undercut, DTect-IT can be programmed to alert the user when the power load on the tool goes above the user-defined wear or extreme limit. Using an undercut limit, DTect-IT can also detect an absence of cutting power and alert the CNC if the tool did not perform its operation.

In addition to DTect-IT, Caron Engineering's high-resolution power sensor will be offered as a sensor option for their Tool Monitoring Adaptive Control (TMAC) system in the near future.



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