

# Wisconsin Fabricating Equipment Company Helps Local High School Obtain Valuable Manufacturing Video Series



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Justin Casper, a technology education teacher at Two Rivers High School in Wisconsin, knows his Metals 1 and 2 courses on print reading, drafting, welding, sheet metal, casting, sheet metal forming, and machine shop, aren't just your typical high school classes. These programs are a dire necessity for a resurging manufacturing industry that continues to struggle to fill hundreds of thousands of skilled labor job openings and whose employers increasingly are looking to high schools and community colleges to solve their future labor shortage problem.

But as a public educator, Casper found himself in a usual dilemma – a lack of funding to obtain the high quality, technological learning resources needed to enhance his curriculum and prepare his students for careers in manufacturing. Turning to Tooling U-SME, producers of the industry-leading Fundamental Manufacturing Processes video series, Casper got the support he needed when Tooling U-SME was able to connect him to Baileigh Industrial — a local metal fabrication and woodworking machinery equipment company in Manitowac, WI who was more than happy to purchase the entire video series (all 44 in-depth programs showing examples and applications of key manufacturing technologies and processes) for the high school program.

“Over the years, Baileigh Industrial has shown its commitment to the community in various ways,” said Steve Wronkowski, General Manager of Baileigh Industrial, Inc. “One extremely important way is by supporting local education and future talent development for the manufacturing

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**WISCONSIN FABRICATING EQUIPMENT COMPANY HELPS LOCAL HIGH SCHOOL OBTAIN VALUABLE MANUFACTURING VIDEO SERIES**

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industry. We look at this as an investment in the next generation of manufacturing on which companies all over the world will depend.”

Baileigh Industrial, a designer and manufacturer of industrial metalworking and woodworking machinery since 1999, is now going on its 9th year as an exhibitor at FABTECH (Booth S1780).

“Progress happens when you leverage investment in technology and people within the manufacturing community,” said Jeannine Kunz, SME’s Director of Learning and Development. “As we build the capabilities of both today and tomorrow’s workforce, and help educators and employers collaborate to develop the next generation workforce, we take pride in being a catalyst within manufacturing to drive meaningful economic growth and bridge that interaction.”

Headquartered in Wisconsin, Baileigh Industrial also has equipment showrooms in California, Germany, UK and Australia. The company has invited Casper and students from his classes to visit and tour their Manitowac facility to see the exciting technology and careers inherent in manufacturing today. ■

**SPIN TO WIN, Hall C, Booth C1344**

Stop by and spin the wheel for a chance to win cash and prizes!

**Nov 9-12, 2015 | McCormick Place, Chicago**

**Hours of Operation:**

**Monday 11:00 AM – 5:00 PM    Wednesday 10:00 AM – 4:00 PM**  
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**New Breakthrough Flexwave Welder Technology Booth #N18025**

**Combines Both CDW & MFC Welder Capabilities**

The Flexwave Welder is a combination of an advanced Capacitor Discharge Welder (CDW) and a 1500Hz Bipolar Medium Frequency Converter (MFC), comprised of four IGBTs.

**Provides Better Quality Parts**

The feature of CDW that provides less thermal distortion with its large current in a shorter weld time is combined with the stability of MFC supported by its constant current feedback.

**Makes It Easy To Set Weld Parameters**

While the weld current for CDW is configured by increasing or decreasing the charging voltage, which makes it more difficult for operators to understand the welding parameter setting, the Flexwave allows direct configuration of weld current values.

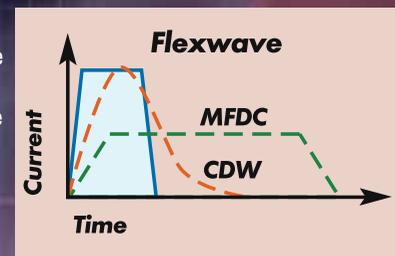
**Provides Energy Savings And Shortens Cycle Times**

A typical CDW wasted the end portion of the weld current wave without any use. The Flexwave technology has the ability to manage the current flow to just what is required for the optimum weld, thereby achieving a shorter charge time for the next spot weld and generating energy savings as a by-product.



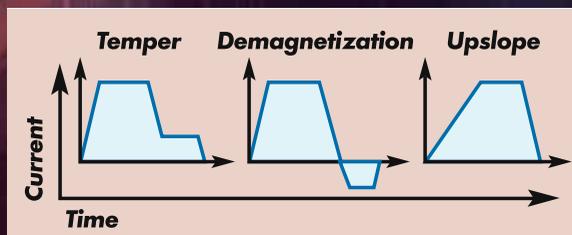
**Optimizes Weld Nugget Quality**

As for weldability, a large current in a shorter weld time allows welding with less thermal distortion or indentation, even for materials such as aluminum that have high thermal conductivity as well as a thermal diffusion tendency. Additionally, the constant current feedback of the MFC function provides stable welding without fluctuations of weld current. This even includes the conditions of projection welding, which tends to display load variations because of protrusion changes, or even for high tensile materials, which tends to cause fit-up gaps because of its hardness. As another benefit, the capacitor is always fully charged, providing the fastest current start-up required by projection welding every time.



**Maximizes Waveform Flexibility**

Waveform of current can be freely programmed in polarity at every 1 ms, allowing necessary welding parameter settings such as tempering, demagnetization, upslope, etc. Also, if the controller unit of your single-phase AC welder is replaced with the controller unit of Flexwave, it can be used as a Flexwave welder as well.



Flexwave series includes N1CP-050, N1CP-100, and N1CP-150 with the maximum weld current of 50,000, 100,000, and 150,000 amps respectively.



*Engineering Resistance Welding Value* ★

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