**CMW® FIN™ CAP ELECTRODES**

CMW INTRODUCES THE REVOLUTIONARY CMW® FIN™ CAP ELECTRODE » The CMW® FIN™ cap electrode utilizes internal “fins” to promote operating at lower amperages which results in a significant slowdown of the “mushrooming” phenomenon. This mushrooming of the weld face diameter promotes lessening the useful life of the electrodes. By operating at lower amperages, CMW® FIN™ cap electrodes last significantly longer than standard cap electrodes. This slowdown in weld face deformation also allows the customer to reduce electrode tip dressing that is needed to maintain weld nugget quality which results in increased productivity, energy savings, and reduced cost per weld. CMW® FIN™ cap electrodes can also be successfully used in non-dressing applications.

The CMW® FIN™ cap electrodes are being successfully used in automotive robotic applications. Automotive plants have seen a reduction in the overall number of electrode caps used, increased number of welds in between tip dressing, lower operating currents and stepper rates. These improvements in manufacturing all contribute to overall cost savings when using the CMW® FIN™ cap electrodes.

**INNOVATIVE AND COST-EFFECTIVE**

**BENEFITS AND RESULTS**

- **HIGH COST SAVINGS:** With up to 5 times the cap life customers have seen significant cost savings.
- **LONG ELECTRODE LIFE:** independent and internal testing has shown between 3-5 times the life when compared to standard cap electrodes.
- **OPERATION AT LOWER AMPERAGES:** Customers have been able to lower the starting current by up to 10% as well as lower the amounts of current stepping when needed.
- **LESS FREQUENT TIP DRESSING:** By lowering the current and slowing the weld face deformation customers have been able to weld much longer in between tip dressing.
- **REDUCTION IN COST PER WELD:** With fewer cap changes, longer cap life and reduction in energy usage, customers have seen a significant cost savings when using CMW® fin™ cap electrodes.
- **ALUMINUM WELDING:** The CMW® fin™ cap electrode has shown excellent results when welding aluminum in automotive applications.
About the Company » The development of CMW Resistance Welding Products traces back to the early Twentieth Century and Phillip Rogers Mallory during the period of the expansion of the use of assembly line mass production techniques in America.

Mallory Metallurgical Company, founded by P. R. Mallory, began to develop and manufacture resistance welding products utilizing the elements copper, silver and tungsten, to provide industry with improved ways to bond metals and create lighter, more cost effective products for consumers. Mallory worked with Henry Ford on the first automotive application for resistance welding.

Mallory established itself as a leading contributor to the Allied war effort during WWII, producing products for a range of applications on the battlefield, in the air and on the ocean. Of particular note, Mallory developed revolutionary battery technology, perfecting the alkaline dry-cell battery to be known as the Duracell® battery.

In the late 1970s, as part of the larger corporate strategy, Mallory sold select assets of the Mallory Metallurgical Co. to its divisional management team lead by Howard D. Johnston, who formed a new corporation and named it CMW Inc. CMW, solidified its reputation for product innovation, quality and service in all its specialty metals business and became further ingrained as the supplier of choice in American Industry for resistance welding products.

Today CMW Resistance Welding Products is a division of Tuffaloy Products, Inc. and continues to serve CMW customers worldwide, exporting to over 40 countries and across a variety of industries.

For more information about CMW® FIN™ Cap electrodes, please call our office or visit our website at www.cmwinc.com.