

MDW Technologies, LLC

November, 2003

Who we are...

MDW Technologies, LLC

We help our clients stay competitive by identifying and incorporating new technologies into existing and next generation products through the introduction of:

Materials Technology

- Thin film coatings (PVD, CVD, DLC)
- Micro surface engineering and treatments

Electronics

- Sensors (MEMs components, modules and subsystems)
- Wireless communications (components, modules and subsystems)

Power Components

- Lithium polymer and lead acid batteries and associated controllers
- Motor controllers

MDW's unique added value is visualizing, engineering and transferring new technologies to our clients through an understanding of their market and technology needs. We believe this only comes from years of product engineering and new product development experience, relationships with technology innovators, manufacturers and testing laboratories and MDW's ability to work closely as part of our client's product development team.

MDW has proven product-to-market experience with extensive materials, electronics and sensors background. We employ materials and electronics technologies transferred from fields like MEMs (micro electro mechanical systems) and microprocessor fabrication to provide cost effective solutions. Functional coatings and micro surface engineering are examples of technology transfer. MDW strategically partners with world class manufacturers bringing proven new technology to our clients at acquisition costs far less than our clients could produce for themselves. Examples include electronic sensors (accelerometers, air and liquid flow, temperature), wireless communications, lithium polymer batteries and associated controllers.

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MDW's work with our clients often involves unique combinations of technologies that enhance a products performance. Examples include:

- High performance surface coatings (ex. PVD, CVD, DLC) and metallurgical treatments combined with micro surface engineering to add unique qualities and increased performance of current product materials.
- Introduction of low cost sensors, wireless communications and lithium polymer battery technology to create a new class of biometric sensing products
- Engineering metal surfaces to eliminate corrosion and increase hardness.

MDW Principals have nearly 50 years combined of engineering, product development and product marketing experienced having worked for or consulted with companies like Adidas, American Hospital Supply, Becton Dickinson, Johnson & Johnson, Baxter, ACMI, CompuMed, La Jolla Technology, Haemonetics, Delphi, Intermatic, Newell, American Family Scale, Hasbro, I-Way, ConeTech and Mentor.

MDW's work with its current clients often involves one or more of the following technologies:

Thin film applications. There are many thin film materials that can both enhance performance and improve visual appeal of products. We work with many CVD, PVD, and DLC materials that can supply these functional and cosmetic performance enhancements.

Hardening and lubricity. Some of our solutions revolve around "hardening" projects with a variety of metals often with the need to increase or decrease lubricity. Applications of various technologies to accomplish these (and more) features can have profound effects on finished products at very low cost.

Corrosion resistance. A common problem with products destined for harsh environments. Corrosion issues often involve other technologies outlined. We are used to passing very severe salt bath tests that would otherwise destroy current manufactured product. Solutions can be cost effective for small as well as larger parts.

Micro surface treatments. The application of micro surface treatments (as small as .005 inch) can have a major affect on the efficiency, usability or accuracy of a product. We have experience working at the micro level as

much of our technology comes directly from microprocessor manufacturing where dimensions and tolerances are extremely small.

Electronic sensors and wireless communications. MDW partners with world class manufacturers of electronic sensors some of which we apply to medical and consumer applications. Examples of sensor applications include flow control (gas and liquid), pressure, movement, weight and acceleration. These sensors are designed to distribute data via wireless 802.11 networks.

Lithium polymer batteries, motors and controllers. New, high performance Lithium Polymer batteries represent significant opportunities for medical device (and other) manufacturers. This new battery technology available through an MDW manufacturing partner along with associated controllers offer a breakthrough in efficiency, recharging life and safety. We also represent the highest quality lead acid batteries for marine and recreational use available today.

Testing, imaging. MDW maintains close working relationships with facilities that engineer and test new materials and have the capability to image and measure the effect of materials applications. Since much of what MDW does is micro in nature we have developed a visualization service for our clients who wish to really see existing and new products. This can be particularly important in blade and edge engineering as well as micro surface applications.

What we do...

MDW's skill is transferring technology by incorporating knowledge and manufacturing know-how gained in micro surface engineering, thin film applications, electronic sensors and systems and power components to meet the diverse needs of our manufacturing clients.

Technologies introduced to our clients are used to improve existing products and often form the basis of new generations of products. Examples include: electronic and sensor technology to enhance recreational product functions and micro surface treatments to improve recreational products performance and reduce corrosion.

MDW partners with some of the world's largest sensor and electronics systems manufacturers as well as with a variety of independent coating, etching, fabrication and imaging labs to bring our clients the right expertise for the

project. All of our vendors operate under NDA's with our clients and us and understand that specific expertise often needs to be transferred or licensed at appropriate times. Our primary electronics manufacturing partner has the capability of manufacturing and supplying products in any region of the world.

What we can do for you...

We can address a variety of materials, micro surface treatments, electronic sensing and power component applications that could help achieve a new class of better performing products. We can also introduce new and developing technologies from semiconductor and other industries that could potentially provide the basis of next generation products. Many of the technologies we introduce (and their associated costs) are often difficult to attain by our clients because of the scale we can achieve through our partner relationships. MDW's goal is to provide solutions resulting in long-term relationships and intellectual property licensing opportunities.

For more information contact

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