



Pulp & Paper Industry

At MH&W, we are proud to serve as the master distributor for Aperam Magnetic Components across the Americas, working closely with both current and previous ownership since 2015. Aperam Magnetic Components is a global leader in supplying nanocrystalline cores in a wide range of shapes and sizes. Through our expertise and extensive industry experience, we provide customers with effective noise-filtering solutions, including filters and chokes for electric vehicles (EV), variable frequency drives (VFD), solar, and wind applications. Our customers include key energy producers, manufacturers, water treatment facilities, agricultural operations, and more!

MH&W also works with the pulp and paper industry, where Aperam Magnetic Components solutions eliminate “ghost” malfunctions that result in lengthy, unplanned system shutdowns and loss of revenue. Our CoolBlue and NaLa nanocrystalline common mode choke (CMC) cores help protect signal lines by eliminating stray ground noise. These products also eradicate bearing fluting and the associated replacement costs, effectively absorbing electromagnetic interference (EMI) noise at the variable frequency drive source.

What Is the Pulp & Paper Industry?

Wood pulp is the necessary ingredient for paper processing. The eco-friendly material is both biodegradable and renewable. Products manufactured using wood pulp are very sustainable, as it is one of the most versatile raw materials available, with an extensive range of practical uses.

In pulp and paper processing facilities, machinery with a VFD system controls operations using the torque and speed of the motor. To ensure long-lasting operation, every motor system must have sufficient EMI protection to reduce the risk of bearing damage and “ghost” malfunctions, where the system shuts down without any apparent reason or warning.

Disruptive EMI noise can lead to electronic and electrical interference, drowning out signals of neighboring components and negatively impacting the performance of the motor systems.

MH&W's Services for the Pulp & Paper Industry

To resolve industrial motor system issues, MH&W offers a full range of products and services, including magnetic products and protective components. Based on our pulp and paper industry customers' specific problems, needs, and goals, we provide a wide selection of solutions for their VFD-driven systems. Here's an overview of our products.



CoolBlue[®] Common Mode Chokes

CoolBlue[®] cores suppress the asymmetrical EMI currents generated by the VFD while significantly reducing the high frequency common mode EMI current at the motor. Made from nanocrystalline material, these toroids diminish the damage to motor bearings in modern inverter systems that operate at high switching frequencies.

Placing CoolBlue[®] cores on the inverters output cables, significantly prolongs the service life of the motor bearings and minimizes downtime and maintenance costs.



CoolBlue® Kits

At MH&W, we have empowered industrial plants, office buildings, and hospitals to eliminate equipment failure and save millions in downtime costs through our specialized CoolBlue® Kits. Designed to accommodate any cable length or horsepower range, these standard kits take the guesswork out of motor protection by providing the exact size and quantity of CoolBlue® and NaLa® cores required for your specific application. To ensure maximum system reliability, each kit is precision-engineered based on the VFD's HP rating, the distance between the motor and drive, and the number of conductors per phase.

Applications



Agricultural Equipment



Automotive Manufacturing



Electric Vehicles (EV)



Fans and Pumps



Hospitals



OEM Manufacturers of HVAC Systems



Paper and Pulp Processing Equipment

Benefits of Working with MH&W

Identifying the source of noise in a pulp and paper processing facility is essential to prevent errors, shutdowns, and major malfunctions. Since 2010, MH&W's engineers, in collaboration with Aperam Magnetic Components engineers, have provided long-lasting solutions as a leading provider of nanocrystalline products for filtering and power conversion.

When you work with MH&W, you can expect to experience the following benefits.



High Quality

At MH&W, we partner with Aperam, a premier, publicly traded manufacturer renowned for their high-quality nanocrystalline products. Following their acquisition of Magnetec, Aperam continues to provide the industry-leading material integrity essential for eliminating noise in pulp and paper machinery, effectively preventing costly shutdowns and equipment malfunctions.



Technical Expertise

At MH&W, we provide "boots on the ground" engineering expertise throughout the Americas, working directly onsite to solve complex interference issues. By collaborating closely with Aperam Magnetic Components' world-class engineers, we ensure our customers receive the highest level of technical support and material precision. Together, we deliver specialized nanocrystalline solutions that guarantee system reliability and peak performance for every application.



Customization

While CoolBlue® kits cover most needs, MH&W works directly with Aperam Magnetic Components engineers to tackle any custom design challenge. When standard components aren't enough, we develop tailored solutions by modifying cores and protective products to meet the unique specifications of your VFD motor system. No matter the complexity, our collaborative engineering team is ready to deliver a custom fit.



Our Reach

As Aperam Magnetic Components right-hand partner, MH&W provides dedicated engineering and distribution throughout the Americas. While we handle the Western Hemisphere, our collaboration with Aperam ensures that CoolBlue solutions are available globally through their extensive manufacturing network. This partnership allows us to protect VFD-driven motor systems on a worldwide scale, combining our local technical support with a truly global reach.



Competitive Pricing

MH&W offers competitively priced, high-performance solutions for the pulp and paper industry, helping you lower operational costs by reducing downtime, improving energy efficiency, and cutting down on expensive emergency maintenance and repairs.

Pulp & Paper Industry Solutions From MH&W

Since 2010, MH&W has specialized in solving "ghost shutdowns" and mysterious signal interference caused by EMI noise in VFD-driven motor systems. By installing CoolBlue cores directly at the source, you can absorb damaging high-frequency currents before they trigger equipment failures. This proven approach eliminates the unpredictable downtime that frequently plagues pulp and paper facilities.

Our engineers leverage over a decade of field experience to provide both standard and custom filtering solutions tailored to your specific application. We focus on stabilizing your motor systems and reducing maintenance costs, giving your facility a significant reliability advantage. Contact us today to learn how our nanocrystalline technology can safeguard your VFD drives.

About MH&W

Since 1964, MH&W has pioneered innovative magnetic components for power conversion and filtering. Since 2010, we have specifically led the North American market in nanocrystalline technology, developing high-performance solutions to eliminate noise in VFD, EV, Wind, and Solar applications.

Our engineering team leverages decades of technical expertise to provide both standard and custom-engineered components that give our customers a distinct competitive edge. From complex power challenges to demanding industrial filters, the MH&W team is ready to deliver the foresight and reliability your systems require.



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