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For Immediate Release

PAI Industries partners with ECM to Expand Capabilities and Increase Efficiency by Adding In-House Carburizing Vacuum Furnace System



Pleasant Prairie, WI – August 26, 2024 – PAI Industries, renowned manufacturer and distributor of high-quality parts to the heavy-duty truck industry, has partnered with ECM to bring heat treatment in-house with a NANO vacuum furnace system. Adding to the already impressive 112,000ft² manufacturing facility with state-of-the-art machinery in Suwanee, GA, and exemplary outsourced heat treating, this in-house system expands PAI's capabilities to expedite production and increase capacity.

Transitioning from primarily out-sourced heat treatment to in-house vacuum technology, they will be able to perform low pressure carburizing and through-hardening 24/7 - thanks to the modularity of the ECM NANO system, an external loader, 3-position temper oven & queuing positions. Additional benefits provided by vacuum technology include: no IGO, zero CO₂ furnace emissions, no fire hazards/open flames, increased repeatability, and improved metallurgical results. Prior to project acceptance, testing was conducted in the ECM NANO located in the ECM USA Synergy Center (Pleasant Prairie, WI) to further validate improved metallurgical properties.

Visit us online to learn more about ECM Vacuum Furnaces (www.ecm-usa.com) and PAI Industries (www.paimanufacturing.com).

About PAI Industries

PAI Industries manufactures and distributes quality service parts to the heavy-duty truck industry. For over 50 years, we've been supplying distributors throughout the world. PAI owes its remarkable success to its dedicated and knowledgeable employees. With decades of experience designing and field-testing products, both our Engineering and Sales Staff are available to answer your most challenging technical questions. As proud US manufacturers, PAI's commitment to its customers is evidenced by maintaining the highest levels of quality for the products and services we provide. Quality, continual improvement, and customer satisfaction are the personal responsibility of every PAI employee.

About ECM Technologies

ECM Technologies is an innovative low pressure vacuum furnace manufacturer with headquarters in Grenoble, France. With subsidiaries and ventures around the world, including ECM USA located in Pleasant Prairie, Wisconsin USA. ECM's global presence is well known in the automotive, aerospace, nuclear, energy, electronic, induction and 3D additive industries. With such versatile product lines and service capabilities, ECM is the ideal furnace system supplier for heat treatment processes ranging from rapid thermal processing (RTP) to low pressure vacuum carburizing (LPC). Our service capabilities include advanced automation, robotics, after sales, spare parts, on-site training and more.

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