

Smart Manufacturing Technology establishes strategic partnership with Prometech Software for technological innovation in electrified powertrains

Prometech Software Inc. (Head office: Bunkyo-ku, Tokyo, President and CEO: Takahiko Suzuki) announced on June 30, 2025 that it has established a strategic partnership with Smart Manufacturing Technology (Head office: Nottingham, UK, CEO: Pramod Mooneeramsing).



We have agreed to strengthen the collaboration between Prometech Software's particle method CFD analysis software Particleworks and Smart Manufacturing Technology's gear system and motor analysis software MASTA to provide innovative solutions to both companies' customers around the world.

The innovation of electric powertrains is progressing toward higher speeds and higher power. In that respect, we are convinced that there is great synergy between fluid analysis and gear analysis, such as lubrication of gear systems, minimizing churning losses, and efficient cooling of electric motors. This will significantly improve development efficiency, shorten the time to market, and save cost.

The two companies will cooperate on software integration and interfaces in the development of technology and products using fluid analysis and gear systems analysis.

Takahiro Suzuki, CEO of Prometech Software, says, "I am delighted to announce our strategic partnership with Smart Manufacturing Technology. The integration of MASTA, their world-class gear system analysis software, with our fluid dynamics software, Particleworks, creates a powerful synergy for advanced lubrication and cooling design in electrified powertrains. Through this collaboration, we will empower our customers in their product development and together, lead the technological innovations that will shape the future of mobility."

Paul Langlois, CTO of Smart Manufacturing Technology, says, "MASTA covers all aspects of the design and analysis process for transmissions and electrified powertrains from durability to NVH and efficiency. Sometimes there arises the need for further high-fidelity analyses of lubrication supply, churning losses and cooling. By coupling with Particleworks the process for these analyses can be greatly improved, saving our customers time and money."

■Prometech Software, Inc. URL : <https://prometech.co.jp/en>

Prometech Software was established with the aim of becoming the world's leading industry-academia collaborative tech company in computational science through the commercialization and global expansion of Japan-originated simulation technology. With a focus on the development of physical models such as particle method simulation technology, Prometech is contributing to the realization of "high-added-value manufacturing" that the manufacturing industry aims for by combining HPC, GPGPU technology and visualization and CG technology. Prometech's simulation technology is used in a wide range of fields, including automobiles, machinery, materials, chemicals, electronics, food, consumer goods, medicine, civil engineering, disaster prevention, energy, and dual use.

■Smart Manufacturing Technology URL : <https://www.smartmt.com>

Smart Manufacturing Technology is a world leader in gear system CAE simulation software development and engineering services. Over the past 23 years, Smart Manufacturing Technology has grown from a team of experienced and passionate engineers to an international company serving all sectors of the transmission and driveline development industry.

Through strategy, dedication and innovation, we are committed to continuing to provide the most pioneering simulation software services and technologies trusted by the world's leading gear system engineers.