ModuleWorks and MAL Inc. Extend Partnership

[Aachen, Germany, 12 March 2024] - ModuleWorks, a leading supplier of software components for digital manufacturing, has extended its partnership with MAL Inc., a developer specializing in physics-based virtual machining and optimization solutions.

The extended partnership makes ModuleWorks exclusive reseller of MAL Inc’s AppsPro software library as well as the NPro plug-in for Siemens NX™ and the DELPro plug-in for Dassault Systèmes DELMIA. In addition, ModuleWorks will sell the jointly developed Machining Wizard that integrates machining physics and toolpath technology to assist engineers in selecting optimal cutting parameters for automated toolpath generation.

As Prof. Yusuf Altintas, Founder of Mal Inc. explained, “Even for seasoned CAM engineers, the task of selecting machining parameters to account for physical loads, vibrations and forces on the machine tool poses a challenge. The new Machining Wizard integrates our physics engine with the ModuleWorks toolpath kernel to bring CAM toolpaths closer to the real-world scenarios of actual machining and help engineers by automating and simplifying the selection process. We are excited by the reseller agreement which will bring this technology to a wider digital manufacturing audience.”

“Our technologies complement each other perfectly” said Dr.Yavuz Murtezaoglu, Founder and Managing Director of ModuleWorks. “The industry needs integrated, highly automated solutions that simplify workflows and raise productivity across the manufacturing chain. Integrating machining physics with toolpath technology takes us closer to this goal.”

AppsPro and its plug-in derivatives NPro and DELPro optimize the feeds for a toolpath that has already been calculated. The Machining Wizard, on the other hand, simulates physical forces such as torque, bearing load and vibrations to give engineers the information they need for selecting parameters like cutting depths, widths, speeds and feeds. It then uses these parameters in combination with a geometrical analysis of the workpiece to automatically generate a toolpath with optimized cutting parameters for each region of the part.

“For the first time, machining physics, geometrical analysis and toolpath algorithms work hand-in-hand to enable even novice CAM engineers to expertly program parts”, said Julia Meyer Hendricks, Head of Business Development - Digital Manufacturing at ModuleWorks. ”This exactly answers the skills-gap facing the industry”.

**About ModuleWorks**

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Description automatically generated[ModuleWorks](https://www.moduleworks.com/) is the leading software component provider for the digital manufacturing industry. With over 200 employees and 1500 person-years of software development, ModuleWorks’ expertise in toolpath creation and simulation is recognized throughout the industry and its software components are already optimizing the performance and quality of over 500,000 installed seats of CAD/CAM and CNC software around the world. From standard products to exclusive development projects, ModuleWorks helps companies to bring their vision of Industry 4.0 to life. With its comprehensive portfolio of cutting-edge software components, ModuleWorks enables its customers to optimize their CAD/CAM solutions and connect to CNC/MTB systems to increase their competitiveness and help them Get There Faster.

**About MAL Inc.**

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Description automatically generated**[MAL Manufacturing Automation Laboratories, Inc. (MAL Inc.)](https://www.malinc.com/) was founded in 1996 by Professor Yusuf Altintas, a professor of Mechanical Engineering at the University of British Columbia. MAL Inc. creates virtual machining and optimization solutions that embed in-house scientific theory, paired with a modern user interface design. This combination of science and software allows customers to virtually machine parts, then change the process as needed. Machining is optimized without ever having to operate machinery, cut material, scrap parts, break tools, crash spindle bearings or suffer machine downtime.