

WorkNC CAD/CAM parallel computing capabilities at Euromold 2009, December 2-5, Frankfurt



Parallel computing for its WorkNC automatic CAD/CAM software; fast and easy prostheses machining with WorkNC Dental; new tools and interfaces for its high-speed viewer WorkXPlore 3D; and the latest version of WorkPLAN Enterprise ERP make SESCOI's booth in Hall 8, F22 the place to go for productivity solutions at EuroMold, Frankfurt running from 2nd to 5th December.

SESCOI will be unveiling its WorkNC parallel features (multi-threading and multi processing) for the first time at the show. WorkNC's parallel computing capabilities enable it to take advantage of the speed of the latest multi-processor computers by splitting computational tasks between processors, reducing memory requirements and greatly increasing the speed of calculation. WorkNC users have long had the ability to program the next part while calculating the previous one, and can set-up a queue of jobs to be calculated out of normal working hours. The new parallel algorithms will extend and further improve these capabilities, virtually eliminating waiting times, bringing an optimized toolpath to the machine tool in a fraction of the time previously possible.

WorkNC Auto 5 sets the standards for the easy and automatic programming of continuous 5-axis toolpaths. SESCOI has extended this capability with its Auto 3+2 module, designed to meet the demands of 3+2 axis machining. Engineers on the SESCOI booth will be demonstrating WorkNC Auto 3+2's simple programming that makes 3+2 jobs much faster and easier, cuts down on manual operations, speeds up the machining process and eliminates errors. WorkNC's Auto 3+2 module brings the power of automatic multi-axis programming to older and larger machines, greatly improving their productivity.

WorkNC V20, which is compatible with MS Windows® 7, will be demonstrated on the SESCOI booth, highlights of this latest version include Z-level finishing combined with optimization in a single strategy, and new 3-axis undercut remachining.

Live demonstrations of WorkNC's intelligent cutter paths on a Hermle C30 5-axis machining center will take place each day.

Visitors to the show from the dental and medical industries can also see a demonstration of WorkNC Dental with live machining of dental prostheses on a Witech MIC5 machine. Since its launch at the beginning of the year, the WorkNC Dental CAD/CAM system has taken the dental prosthetics industry by storm. Its highly automatic programming allows technicians with little or no knowledge of CNC machining to produce accurate, high quality bridges, crowns and inserts in hard to machine materials such as chrome cobalt, titanium and zirconia. Nesting minimizes material wastage, interactive pin positioning locates the prosthesis during cutting, machining wizards automatically produce an optimized 3 to 5-axis high-speed toolpath, and automatic margin line detection ensures that the sensitive gum area is machined accurately.

SESCOI is working with a number of partners within the dental prosthetics manufacturing sector, including Dental Wings, well known for its scanners and dental CAD software. SESCOI and its partners promote an "open system" philosophy that provides dental professionals with a flexible and affordable solution for prostheses manufacture.

Increased collaboration and concurrent working within an organization, its suppliers and customers, helps to optimize product design and shorten development cycles. WorkXPlore 3D makes this possible by enabling the high speed sharing, analysis and mark-up of CAD data from multiple sources. New features within the software allow users to include dimensions with geometric tolerance symbols and permit data sharing with SESCOI's ERP solution WorkPLAN Enterprise, released in Version 3 at EuroMold.

WorkPLAN Enterprise V3 is dedicated to the needs of custom manufacturers such as special purpose machine makers and mold makers. It allows managers to have absolute control of costs and production, and produce highly accurate quotations. The new link to SESCOI high-speed viewer, WorkXPlore 3D, helps to refine the quoting process, bringing better products to market sooner and at the right price. WorkPLAN Enterprise Version 3 will be SAP® certified and has already increased the range of 3rd party software it links to, including Preactor® and Ortems® advanced planning and scheduling systems. Quality control improvements in the new version include scheduled maintenance monitoring and equipment recalibration timetables, while mobile working is promoted through remote database access, allowing managers to check the current status of production from wherever they are in the world.

SESCOI is pleased to announce that cutting tool partner Ingersoll, will be co-located on the SESCOI booth (Hall 8, F22)