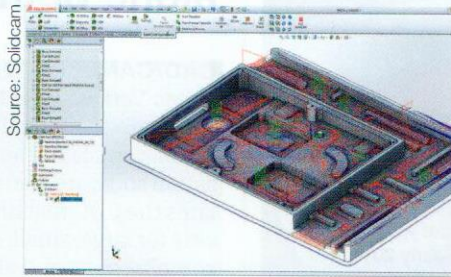


Savings in CNC milling, extended tool life

CAD/CAM - Solidcam offers its unique, patented i-Machining module, seamlessly integrated in Solidworks and Autodesk Inventor, which is said to provide unbelievable savings and increased efficiency in CNC milling operations. According to the company, i-Machining saves 70% and more in CNC machining time and extends cutting tool life. The unique i-Machining Technology Wizard provides optimal feeds and speeds, taking into account the tool-path, stock and tool material and machine specifications, Solidcam explains.

According to the supplier, the unique patented "morphing spirals", intelligent island separation and moating provide users with short cycle times. Moreover, the cutting angle constantly adjusts be-

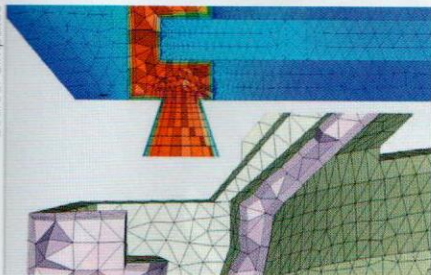


i-Machining automatically reduces vibrations to prevent excessive tool wear.

tween a minimum and a maximum value, while the feed is dynamically adjusted to ensure constant mechanical and thermal load on the tool, Solidcam explains. solidcam.com

Improved injection moulding simulation

Simulation Software - The new release of Moldex 3D R14 provides several solver enhancements improving speed, robustness and reliability of simulation. Simpathec's Moldex 3D Boundary Layer Mesh



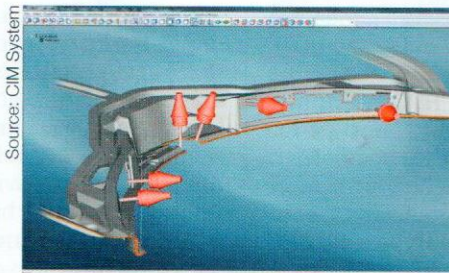
The new Moldex3D BLM generator uses less meshing elements, speeding up simulation.

(BLM) generator makes it possible to use fewer meshing elements, which is said to reduce the meshing time by up to five times whilst keeping the maximum wall thickness resolution. The Designer BLM revolutionises the entire sequence of CAE pre-processing steps, Simpathec says.

Another new development of the Designer BLM is the auto-repair function, which significantly reduces the effort and time needed for mesh generation, the supplier says. Common mesh defects such as free edges, T-connect edges and overlapping elements can now be automatically detected and fixed, thereby speeding up and simplifying the meshing process, the Germany-based company explains. simpathec.com

Programming made fast and effective

CAD/CAM - SUM 3D CAM, from Italian company CIM System, is a CAM solution suitable for applications such as moulds, models, shipyards, mechanical, petrochemical and medical industries, the company says. Modules are available for wood, marble, and precious metal machining. SUM 3D's simple command structure is said to enable users to produce a mould after only a few hours of training. The wide range of file readers provides compatibility with all CAD/CAM systems. Iges, dxf, 3dm, Parasolid, vda, and stl are included as standard, CIM System says. Catia v4 and v5, Unigraphics, Step, Inventor, SAT, Top Solid and Pro-E and a facility to accept exports from Solidworks are available as options. SUM 3D can be in-



Specific modules are engineered for wood, marble, and precious metal machining.

stalled on a PC or directly onto CNC machines. According to the supplier, direct installation enables autonomous management of toolpaths. cimsystem.com

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