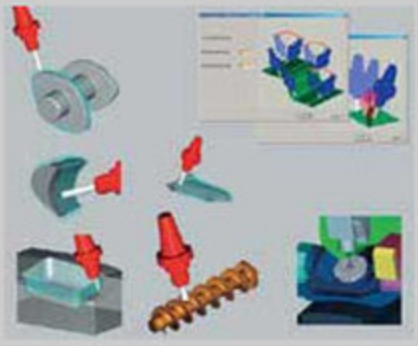
tool-moldmaking.com
Global Sourcing Solutions for Tool & Mold Makers

European Tool & Mould Making
January/February 2006

User Interface on Multiaxis Machining Module Makes Advanced CAM Easier

Industry Roundup: New Products & Services



SUM3D is a computer-aided manufacturing (CAM) software package developed by **CIMsystem S.r.l.** that is designed to be operated directly at the machine tool in workshops and in the technical offices of manufacturing facilities. This software has now been augmented with the **Advanced Multiaxes Machining module,** which has just been released by CIMsystem.

The module provides new working strategies that support advanced application of 4- or 5-axis machining. The chief benefit of this SUM3D enhancement is to make possible a reduction in working time through creation of a closer, smoother tool path.

The Advanced Multiaxes Machining module features a new graphical user interface that allows for simple and intuitive insertion of many parameters that control every machining strategy. Every command related to tool-path generation and milling technologies is represented on screen graphically, thereby presenting an immediate image of the available results.

A dynamic graphical help system changes the displayed image in connection with each selection or alteration of an operational parameter.

Key elements of the new module are Advanced Machining Strategies, which can solve all 5-axis machining problems; a new cinematic simulator that displays all the movements related to the full array of the machine's axes; Collision Avoidance, on both the mathematical level and in the cinematic simulation; and the simplification of multiaxis processing once it has been defined through the machine cinematic simulator.

Advanced Multiaxes Machining can be purchased either as a single package or as a module to install on the existing SUM3D license. The module can be used in mould and die, cutting tool, cylinder head, impeller, turbine blade, eccentric valve, and mill/turn machining applications.

CIMsystem S.r.l.
Cinisello Balsamo (MI), Italy
CIMsystem S.r.l. website