# SOFTWARE COMBINES SCAN AND CAD DATA

Geomagic Spark enables users to create accurate, manufacturable solid models and assemblies using scan and CAD data in the same application, even with partial scan data. The software features a live 3D scanning interface and 3D point and mesh editing, modeling design, assembly modeling and 2D drawing creation capabilities. The program integrates scanning technology with the direct modeling capabilities of the SpaceClaim platform. Designers can scan directly into the program or load an existing point cloud or polygon mesh, and then choose automated tools to convert and edit data into a polygon mesh. Once a solid model is created, users can compare it to the mesh and identify areas of deviation.
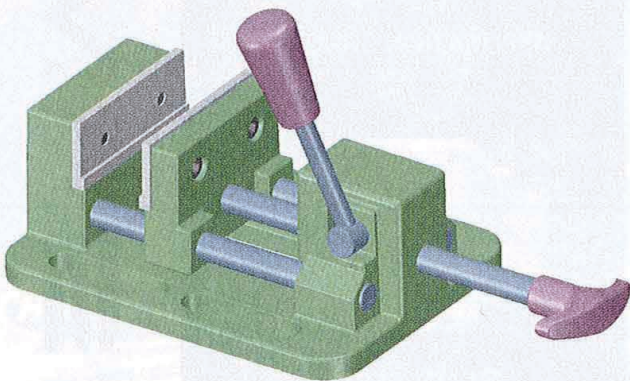
The software is well-suited for engineers and manufacturers that design in 3D from existing objects or those that need to finish or modify scanned parts. The program is designed to increase process efficiency in reverse engineering, production-focused manufacturing, prototyping and concept modeling in the automotive, electronics, industrial design, consumer goods, tooling and aerospace industries.
Geomagic Inc., call 800-691-1839 or visit geomagic.com.

MODELING SOFTWARE DESIGNED FOR SOLID HEALING

MachineWorks Polygonica solid modeling software is designed for solid healing applications. The program can automatically close and slice models, re-orient triangles, fix self-intersections, simplify geometry, offset profiles, fit arcs and perform other Boolean operations. The software enables STL repair and manipulation of polygonal solid models. Industrial uses include CAD/CAM/CAE applications, reverse engineering, prototyping, 3D printing and other 3D digital applications.
MachineWorks Ltd., call 44-114-223-1370 or visit machineworks.com.

SOFTWARE MODULE PREVENTS COLLISIONS

The software module tool RealityCheck from Zoller is designed to provide fast, precise collision checks during setup to determine whether a scanned tool matches the original simulation tool. The module records the tool's actual contour while it is rotated, simulating the machining process.

The operator enters the start and end points of the requested tool contour. The measuring program automatically positions the camera at
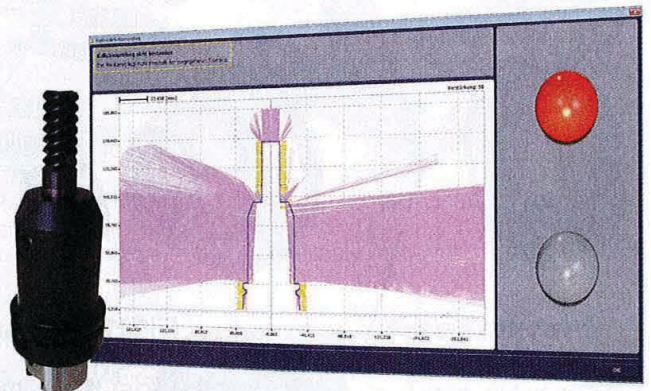
the starting point and measures the contour during rotation. An actual/nominal comparison is displayed along with the results of the collision check. A green light means that the machining processes can be performed; a red light indicates a collision. The module is available for all Zoller CNC tool presetter and measuring machines.