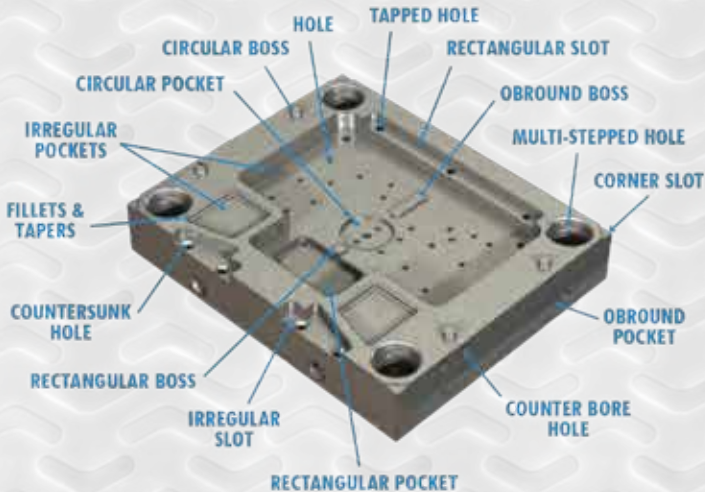


For Pocketing, Contouring, and Drilling

- **Automatic Feature Recognition (AFR)** automatically recognizes over 20 types of features on native Solid Edge part models or on solid models imported via IGES, STP, SAT, etc. Feature-based machining reduces programming time by as much as 90% compared to traditional CAM software.



- **Interactive Feature Recognition (IFR)** provides an intuitive and easy-to-use wizard interface for inserting user-defined features
- **Knowledge-Based Machining** allows you to capture and reuse your programmers' and machinists' best programming practices using the patented TechDB (Technology Database). The TechDB reduces programming time by as much as 80% and provides a company-owned database to store employee knowledge and skill.
- **Seamless Integration of CAMWorks with Solid Edge** ensures that the design model and CAM model share a common interface with the same intuitive menus, toolbars, and view manipulation, thus allowing users to quickly master the software. The CAM data is integrated and stored along with the CAD model automatically in a single file.

- **2.5-Axis Milling** includes automatic roughing, contouring (finishing), thread milling, hole drilling, boring, reaming, and tapping cycles. Machining algorithms use the latest toolpath and gouge protection methods to provide fast, error-free toolpaths

- **Thread Milling** supports bi-directional thread milling for both single-point and multi-point tools. Thread mill with ID or OD threads, using climb or conventional milling. Either top-down or bottom-up cycles can be employed.

- **Face Mill** generates toolpaths on a face feature to square or face off the top of a part. Number of passes can be calculated automatically or can be user defined. An option is also available to specify one pass down the middle of the part.

- **Full Model to Toolpath Associativity** automatically updates the toolpaths and CAM data to design changes made to the model

- **4- and 5-Axis Indexing Included!** The CAMWorks 2.5-axis module also includes 4- and 5-axis indexing (pre-positioning) to reduce setups and facilitate the use of shorter, more rigid tools. Setups and indexing angles are created and posted automatically.

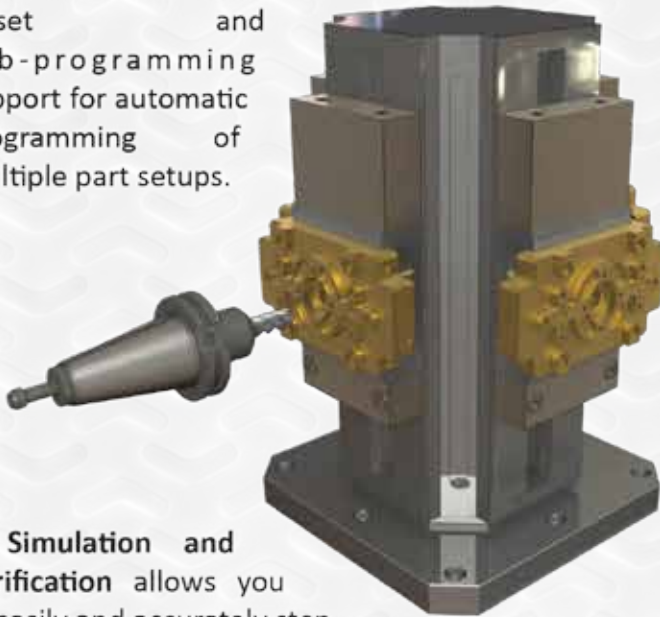
- **Drilling Cycles:** Canned cycle support for all major hole types and cycles including drill, pecking, high-speed pecking, variable dwell, back pecking, bore, bore w/ dwell, back boring, fine boring, ream, ream w/ dwell, counter boring, tapping, reverse tapping



- **Roughing Operations** remove material by following the machinable feature shape in standard pattern strategies. Patterns included are: zigzag, zig, pocket in/out, spiral in/out, plunge rough, and offset roughing. High-speed toolpaths can be generated with no sharp corners.

- **Countersink and Center Drill Operations** include automatic calculation of machining depth based on tool size/shape and countersink diameter

- **Assembly Mode Machining** allows you to accurately model your fixtures and clamps using Solid Edge assembly mode to avoid costly crashes with tools. Also includes fill fixture offset and sub-programming support for automatic programming of multiple part setups.



- **Simulation and Verification** allows you to easily and accurately step through or continuously simulate toolpaths with speed control and optional stop capabilities. A model compare feature is also included, to compare the machined model and the design model to validate program accuracy, so you can be sure you'll cut it right the first time

- **CAMWorks Configuration Support** for multiple setups across multiple machines. Programs for each machining setup can be saved as a separate configuration, even for multiple machines of different types. Using configurations, all of the programs required to machine a part can be stored along with the CAD model automatically, in a single file.

- **CAMWorks VoluMill™** is an optional module for creating ultra-high performance toolpaths, using the latest technology to rough mill parts faster and more efficiently than any other product available on the market today



CAMWorks Modules are available in a variety of bundles or combinations:

- 2.5-Axis Mill
- 3-Axis Mill
- Multi-Axis Machining
- Mill Turn
- 2- and 4-Axis Turning
- Wire EDM
- CAMWorks VoluMill™
- CAMWorks Virtual Machine



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