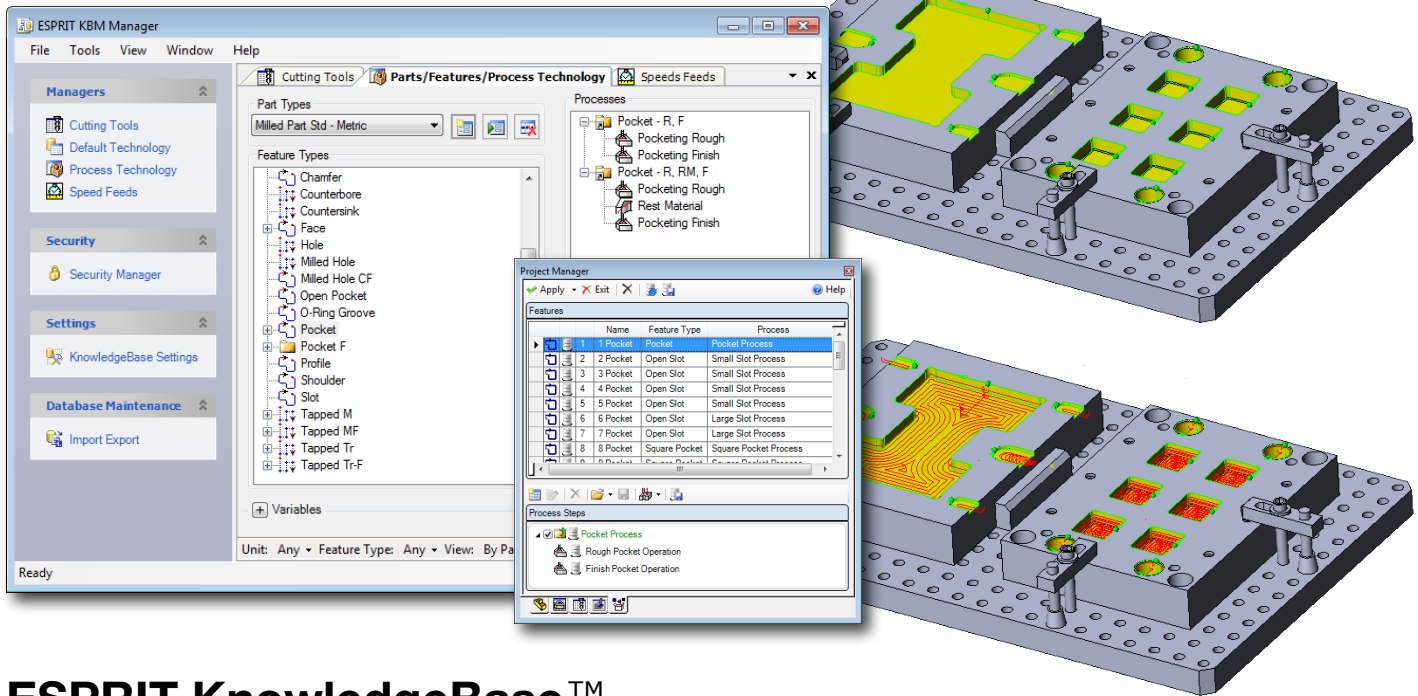The most powerful *CAM software* ever.

ESPRIT KnowledgeBase™

Achieve unprecedented automation, quality and consistency in CNC programming with ESPRIT KnowledgeBase™. ESPRIT's KnowledgeBase gives you the power to leverage your shop's most important strategic assets — its best machining practices developed over the years — for maximized productivity and a sharpened competitive edge.

Store

The multi-user SQL database built into ESPRIT's KnowledgeBase™ closes the loop between CNC programmers and the shop floor by providing a central repository for accumulating shop-wide machining experiences.

The days of relying on your memory to recall what worked before are gone. In KnowledgeBase™, process-specific information is stored securely and is readily available to any operator or programmer.

Refine

Refine your best practices using real-world input and apply them automatically for flawless consistency throughout your enterprise.

Each time a machining process in KnowledgeBase™ is used to program a part, the process is automatically retrieved and updated to reflect improved methods, refining your machining in a cycle of continuous evolution.

Automate

ESPRIT uses the accumulated "knowledge" of your shop's best practices and preferred methods to automate CNC programming. This lets you free your CNC programmers from repetitive parts programming, giving them time to focus on strategic process planning to further improve your best practices.

ESPRIT's KnowledgeBase™ provides a push-button approach for any programmer or operator to determine the best method to machine a given part or feature by automatically selecting the most appropriate machining cycles, cutting tools, and machining parameters.

Recognize, Apply, Done

ESPRIT's Automated Feature Recognition subdivides a given part into features like pockets, slots, shoulders, and holes. Each feature has a set of known physical characteristics including depth, draft, volume, and area.

Once features are recognized, the Process Manager provides extensive process automation, automatically choosing the most suitable process to machine a given feature — including machining cycles, cutting tools, speeds and feeds, and all associated machining parameters. When a process is applied, process steps are automatically adjusted to accommodate the feature geometry and other feature characteristics.

KnowledgeBase™ eliminates guesswork, and shop-wide consistency means unprecedented manufacturing productivity and profitability.

The most powerful *CAM software* ever.

Part-Feature KnowledgeBase

This powerful KnowledgeBase™ component lets you set up your own part types and their associated features and automatically categorizes these features into feature cases based on your shop's standards, terminology, and each feature's characteristics. With KnowledgeBase™ your programming automatically starts with a clear definition of what you are about to machine.

Process KnowledgeBase

The Process Technology Manager provides extensive process automation, letting programmers easily create new processes and update details of existing processes. All machining parameters are presented in a color-coded display for a clear visual representation of each parameter's source and condition.

Cutting Tools Manager

The Cutting Tools Manager provides an effective method for managing cutting tool information for consistent and accurate tool selection. This multi-user database works integrally with the Process Technology Manager to provide automated tool selection and can be accessed quickly and easily, whenever needed.

Speeds and Feeds Manager

A Speeds and Feeds calculator presents the best cutting speeds and feeds for each machining situation based upon the part material class and condition, cutting tool style and material, machining operation, and axial and radial depths of cut. The Speeds and Feeds Manager lets programmers add and update cutting speeds for any given situation, and the optional CUTDATA™ database simplifies programming with over 100,000 speed and feed recommendations.

Secure Storage

Preserving your best machining practices is important. The KnowledgeBase Security Manager gives you control over which users are allowed access to each component of the KnowledgeBase and multiple levels of security over who can add, edit or delete data.

Global Knowledge Transfer

Specific data contained in the KnowledgeBase™ can be exported and imported between company divisions and regional manufacturing facilities. You can choose to import or export data from any or all of the integral components of ESPRIT's KnowledgeBase system.
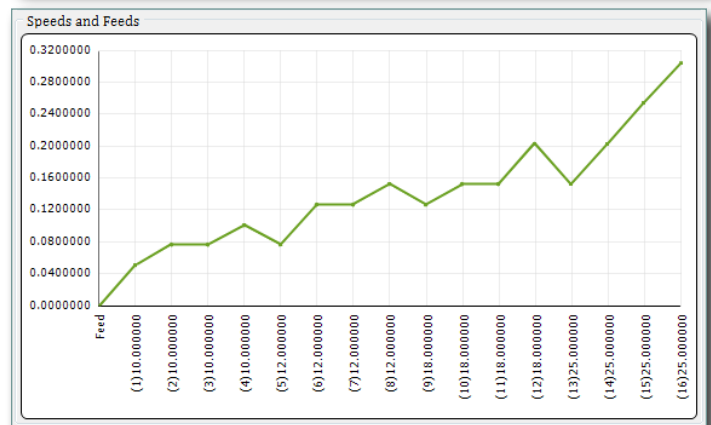
Parts/Features/Process Technology

Part Types: MillTurn Part Std - Metric

Feature Types:
- Pocket F
  - Pocket - Size
    - X-Small
    - Small
    - Medium
    - Large
    - X-Large
  - Pocket - Style

Processes:
- Pocket - R, F - MT
  - Pocketing Rough
  - Pocketing Finish
- Pocket - R, RM, F - MT
  - Pocketing Rough
  - Rest Material
  - Pocketing Finish

Variables:

Value	Finish_ID	Rough_ID	Rough_ID_Dia	Stock_Wall
X-Small	EMF 02.0	EM 02.0	2	0.5
Small	EMF 05.0	EM 05.0	5	0.5
Medium	EMF 20.0	EM 20.0	20	1
Large	EMF 30.0	EM 30.0	30	1
X-Large	EMF 40.0	EM 40.0	40	1

Cutting Tools

Tool Groups: Mill Tools - Metric

Cutting Tools:

Tool Style	Tool Diameter			
Tool ID	Comment	Tool Material	Number Of Flutes

- Ball Mill: 21 items(s).
- Boring Bar: 3 items(s).
- Chamfer Mill: 7 items(s).
- Drill: 91 items(s).
- End Mill: 24 items(s).

Tool Filter: By Tool Groups

Speeds and Feeds

ESPRIT — The Right Choice

DP Technology Corp.
1150 Avenida Acaso
Camarillo, CA
93012 USA
Tel: + 1 800 627 8479
Outside the US: + 1 805 388 6000
Email: esprit@dptechnology.com

dptechnology.com