



## CAPSturn / CAPSmill

### Software for learning CNC part program generation

CAPSmill and CAPSturn are designed to teach Computer Aided Programming and cycle time optimization techniques required for machining on a shop floor. Software comes with teaching material and free license for students to practise.

#### What the student learns

- Programming using CAM software.
- Programming parameters of machining operations.
- Cutting tools selection for various machining operations.
- Sequencing machining operations.
- Post processing for popular controls like Fanuc, Sinumerik (Siemens), etc.
- Cycle time calculation and optimization.
- Making process sheets.

#### How CAPS works

- Select the part material, its shape and size, and the work holding.
- Define the part and part geometries through CAD.
- Do the process sequencing, tools and cutting parameters selection.
- Perform machining operations.
- Check the tool path through graphical simulation.
- Check the cycle time through the cycle time calculation feature.
- Check the spindle power in the automatically generated spindle power graph.
- Generate the NC program.
- Generate the process sheet, tools list and tool layout sheet

#### Teaching material included

- Conversational and animated input screens for operations, tool selection, etc.
- Machining expert - reference for tolerances, tool selection and machining.
- Graphical tool selection guidance.
- Teachers' handbook with ready-made exercises
- Tutorials with machining examples of graded complexity.

#### Students can practice after class hours

- CAPS comes with FREE copies of the student version of the software.
- It can be installed on students' personal PCs.
- Works for 120 days once installed.

