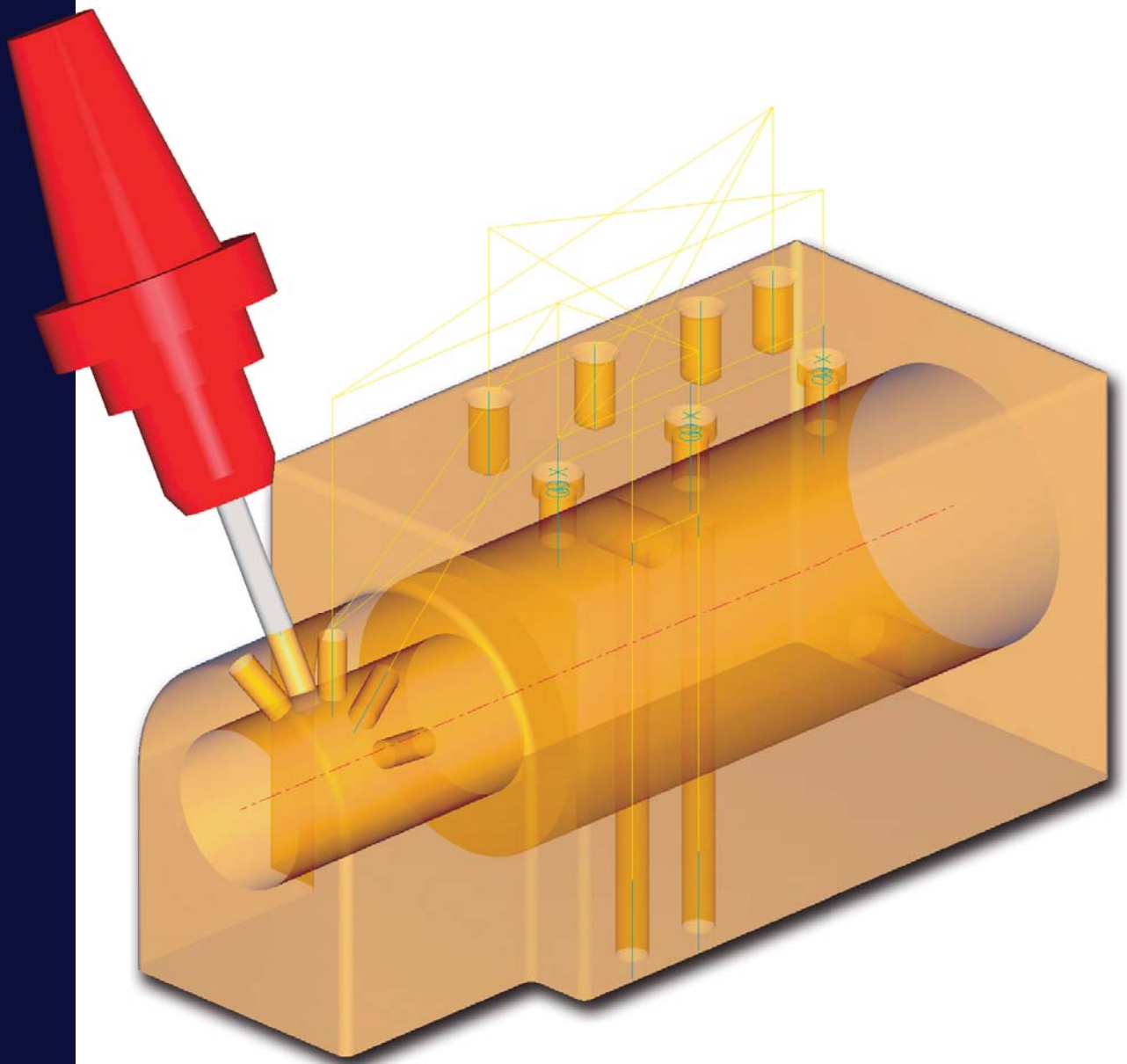# ProDrill

Feature based
Drilling for Mastercam

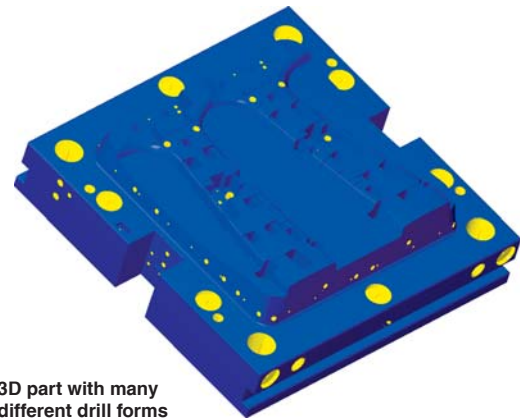**Automatic drilling – Fast and Simple!**

Widely usable and highly productive

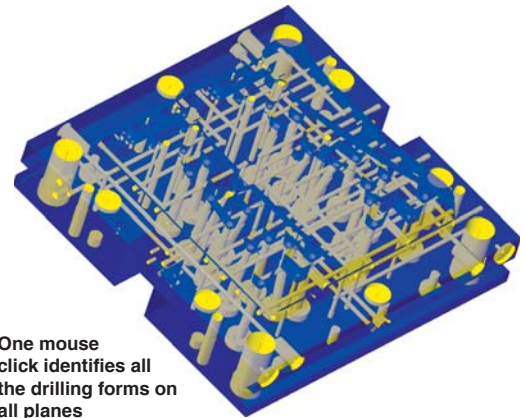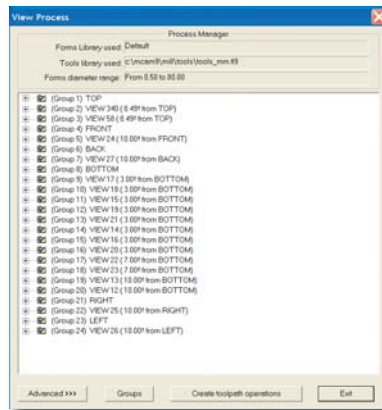Repetitive drilling that previously took hours can now be done in a few clicks! Rapid ROI!

Automatically identifies drilling operations independent of the CAD system source. Functions with surface and Solid models from any CAD system.

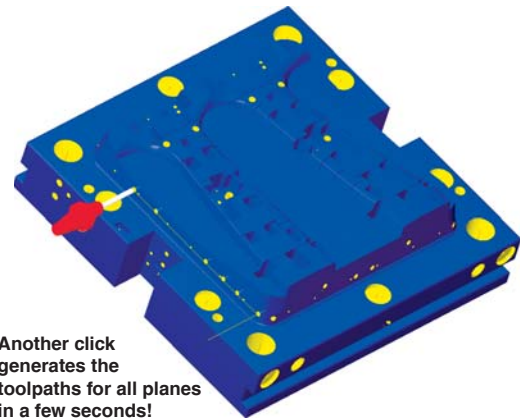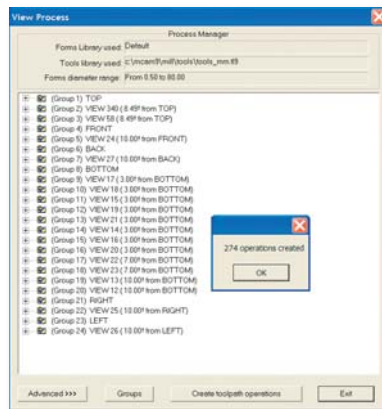Automatically create and insert complex drilling geometry and operations.

- Easy to use graphical interface
- Intellligent analysis of all drill forms encountered
- Automatically recognize drilling features and generate drilling operations from solid and surface models regardless of CAD system origin
- Identify drilling operations automatically on any plane and generate toolpaths for all forms or on a selective basis
- Check for possible collisions between tools and drill forms
- Create toolpath groups for optimizing tool usage
- Import drilling features for reamed and tapped forms from major CAD systems (Solidworks®, TopSolids®, TopMold®, CATIA® V5, etc.)
- Graphically set and identify reaming and tapping features on drill forms and process them automatically
- Automatically identify and process drill forms that exceed maximum drilling depth
- Optimize tool plane rotation to minimize wasteful empty space movements and reduce machining time
- Automatically create circle milling toolpaths for machining counter bores and large diameter cylinders
- Generate machining time reports and drill point data with operation lists to use for quality inspection or manual manufacturing
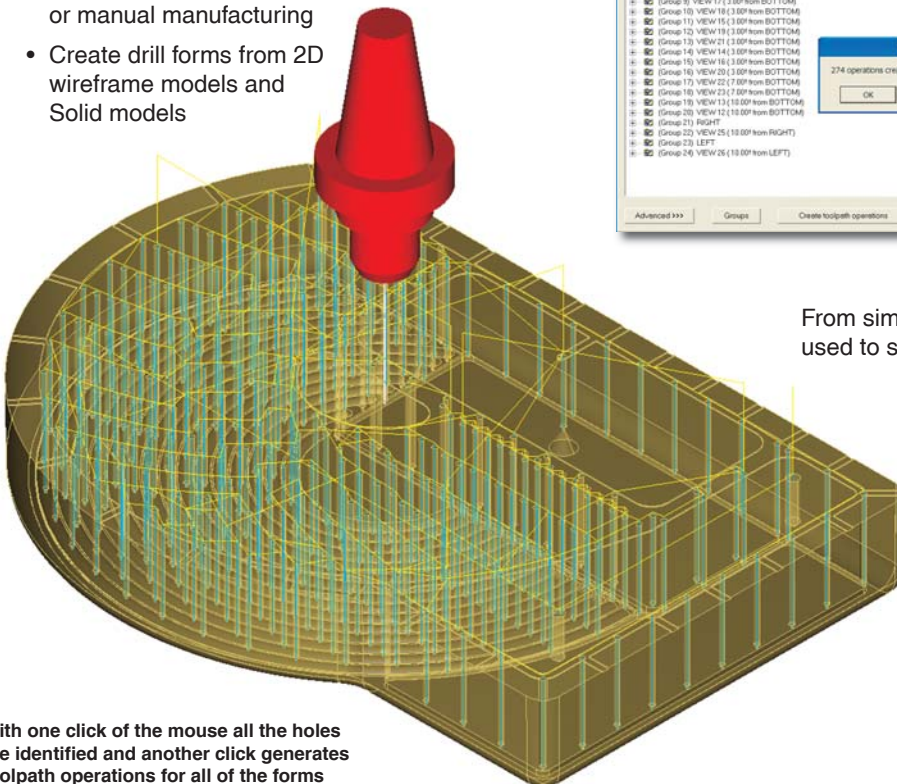- Create drill forms from 2D wireframe models and Solid models

3D part with many different drill forms

One mouse click identifies all the drilling forms on all planes

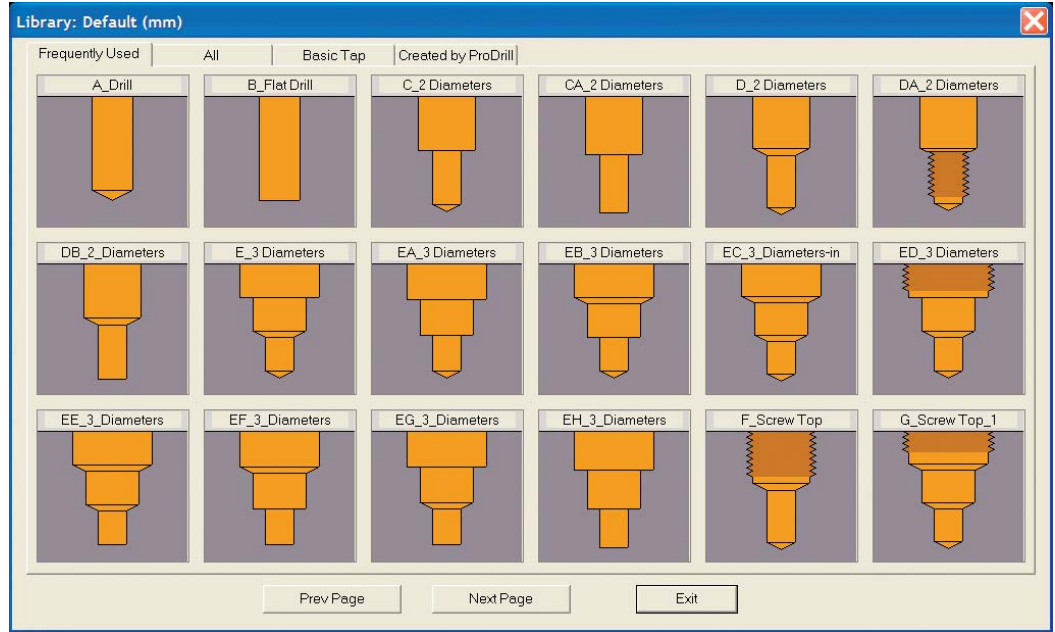**Another click generates the toolpaths for all planes in a few seconds!**

From simple plates to complex multi-axis drilling – ProDrill can be used to save time and money in every case.
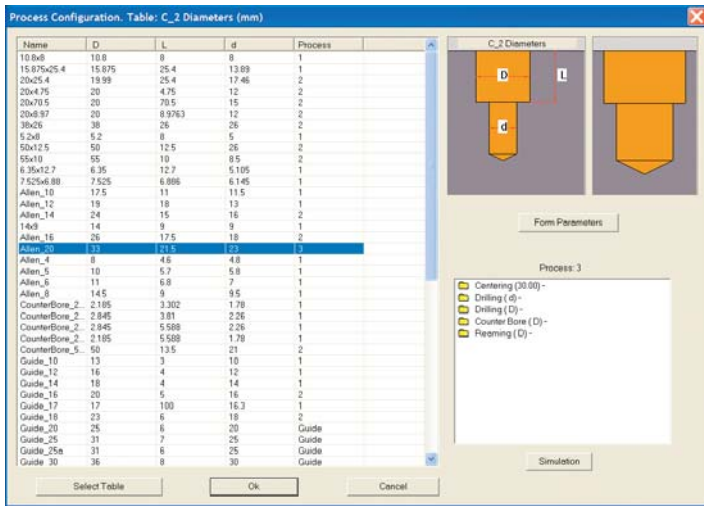

With one click of the mouse all the holes are identified and another click generates toolpath operations for all of the forms
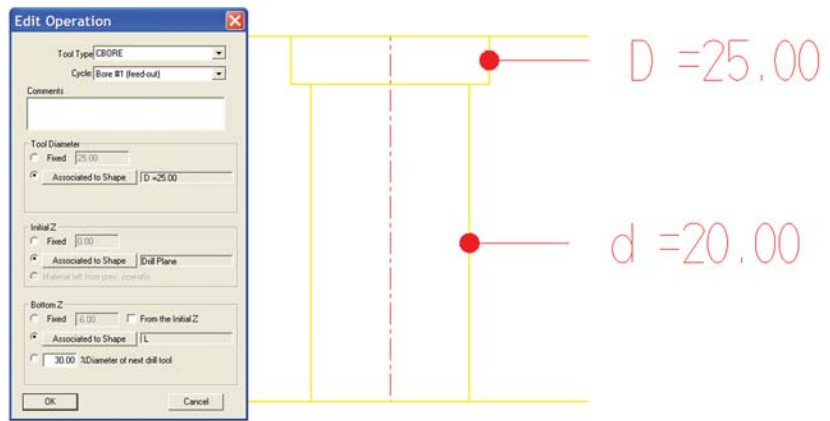
Drilling Features

- Simple drilling
- Drilling
- Counter-boring
- Reaming and Boring
- Chamfering/Counter-sinking
- Threading/Tapping
- Circle milling toolpaths
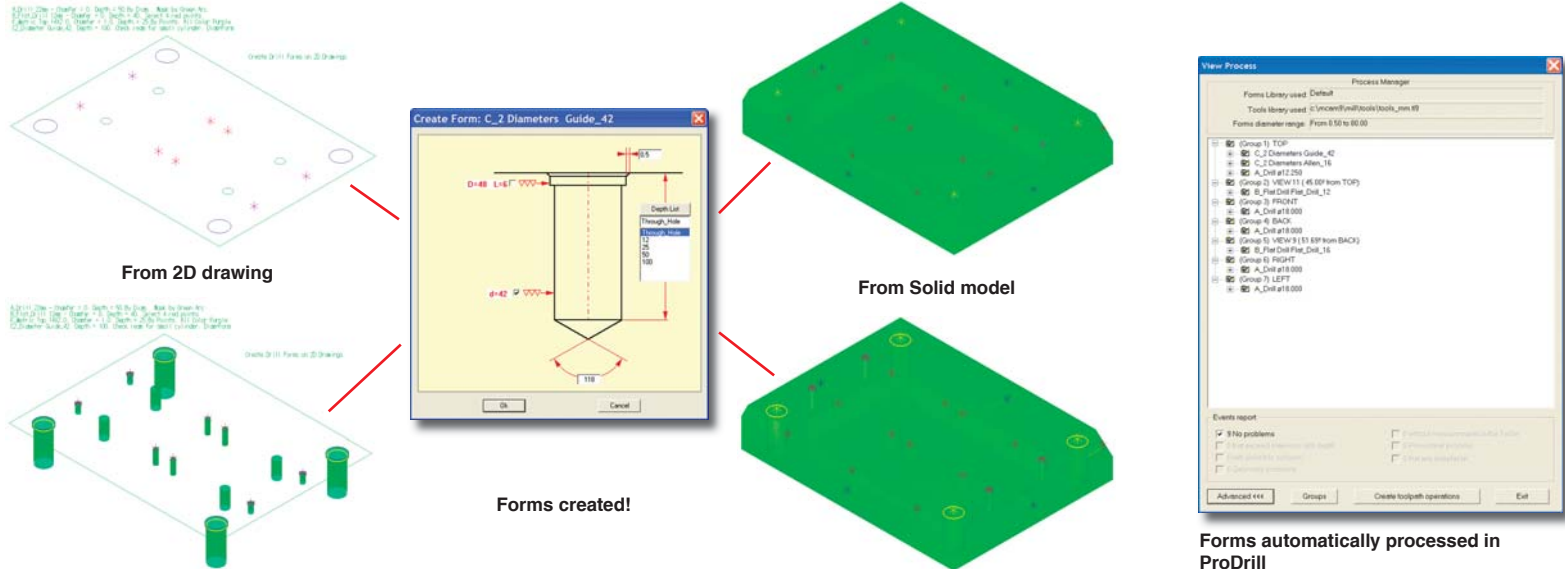- Creation of new drill forms

Extensive Drill Form Libraries

Define standard repetitive operations using graphical, user friendly interfaces

Drill Form Creation

Easy one click creation of drilling forms from 2D drawings or Solid models with all associated drilling operations.

From 2D drawing

Forms created!

From Solid model

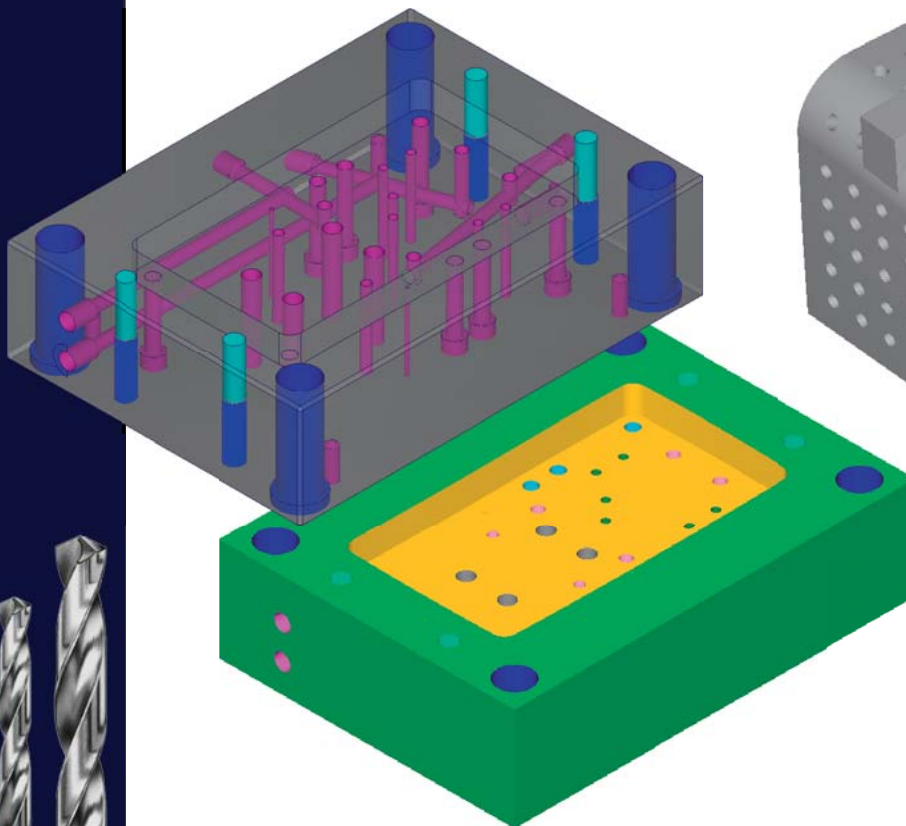**Forms automatically processed in ProDrill**

ProDrill

Feature based Drilling for Mastercam

What does ProDrill provide?

- Lightning fast automatic recognition of drill forms and toolpath generation from surface or Solid models
- Automatic creation of new drill form tables and addition of new measurements to form tables
- Graphic verification of possible collisions between the part and the tool
- Generate drilling toolpaths for all operations for all planes or on a selective basis
- Optimum manufacturing (intermediate spaces, maximum drill depth, reaming, opposite plane finishing, etc)
- Group toolpaths for optimal tool usage
- Detailed reports for machining time and drill point data with operations list
- Create drill forms from 2D models or on Solid models

ProDrill requirements

Mastercam 9.1+ Mill Entry and above.

Manufacturing mold plates or machining drill forms on 5 axis parts requires many different drilling operations and optimized toolplane machining. ProDrill automates the drilling tasks of the various form types of the plates and optimizes the machining on multiple planes.

Reseller