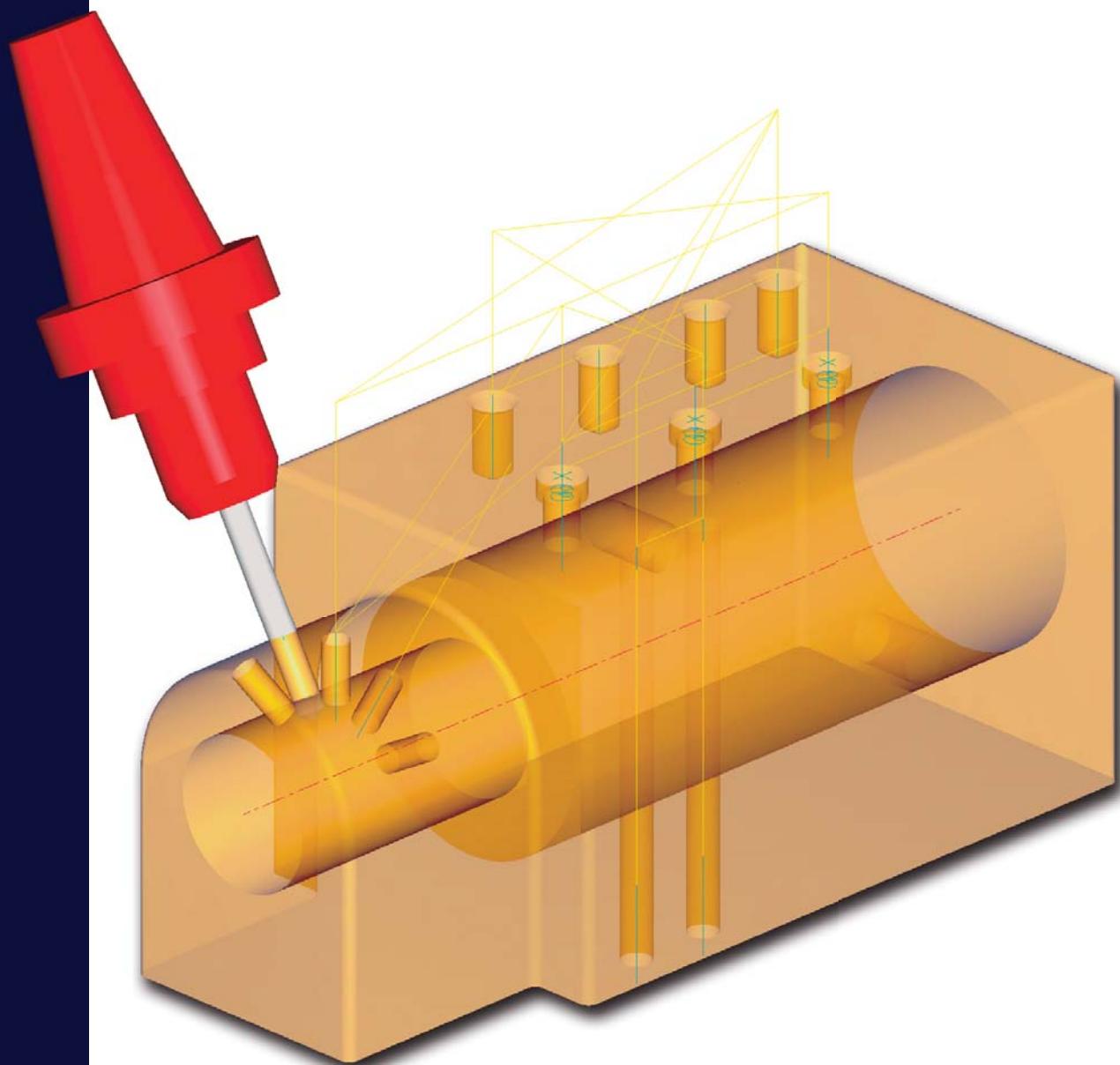


# ProDrill

Feature based  
Drilling for Mastercam



Automatic drilling – Fast and Simple!

# Prodrill delivers a total and detailed solution for drilling

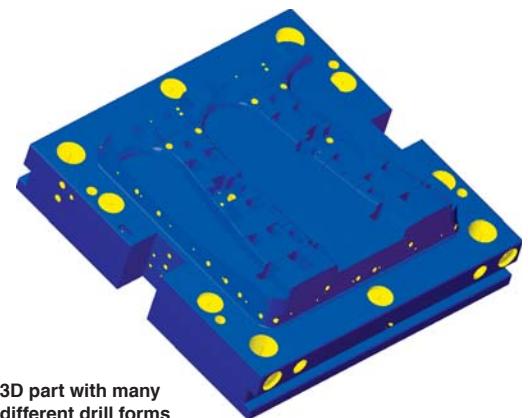
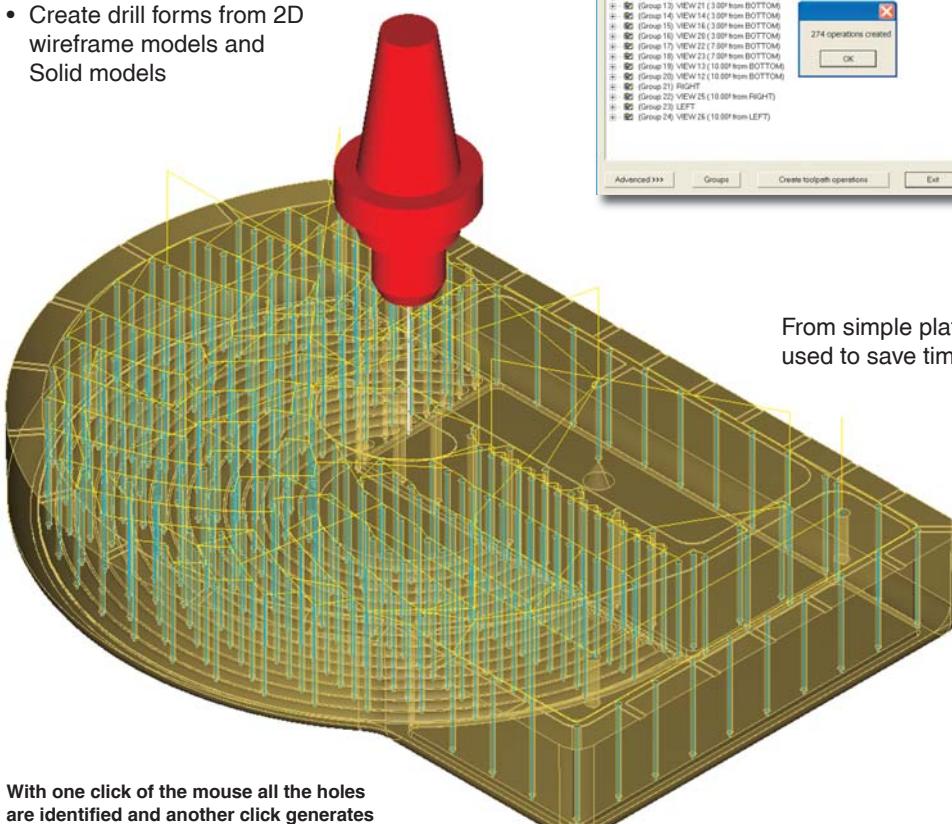
## Widely usable and highly productive

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

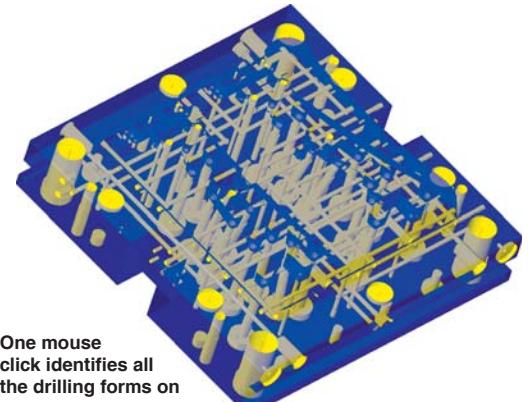
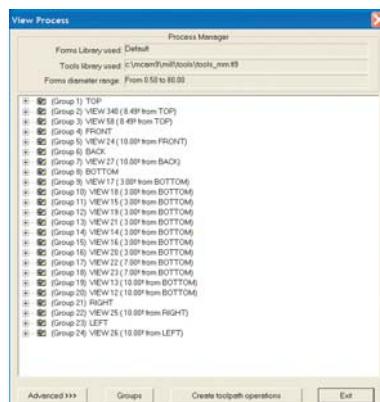
Automatically identifies drilling operations independent of the CAD system source. Functions with surface and Solid models from any CAD system.

Automatically create and insert complex drilling geometry and operations.

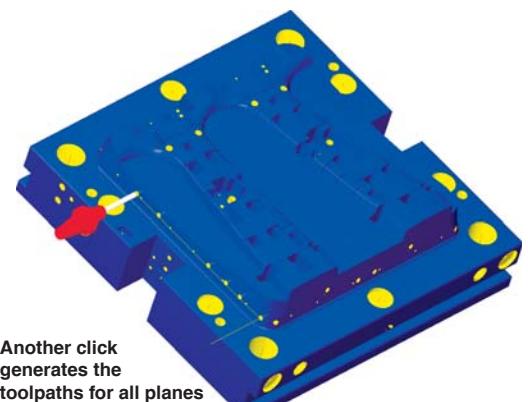
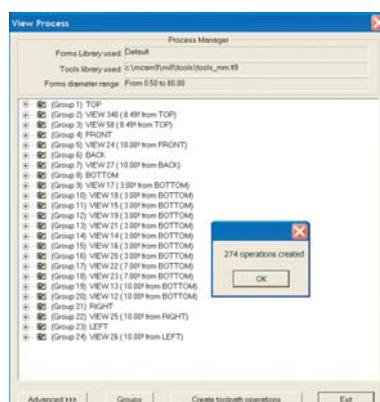
- Easy to use graphical interface
- Intelligent analysis of all drill forms encountered
- Automatically recognize drilling features and generate drilling operations from solid and surface models regardless of CAD system origin
- Identify drilling operations automatically on any plane and generate toolpaths 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!

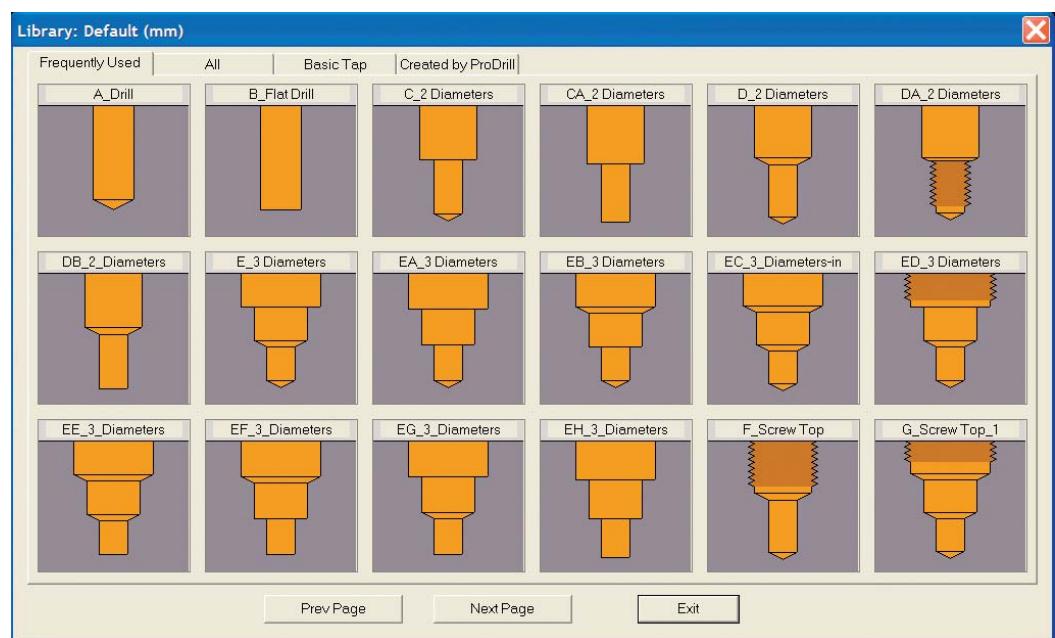
From simple plates to complex multi-axis drilling – ProDrill can be used to save time and money in every case.

# Detailed solution for drilling forms.

## Drilling Features

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

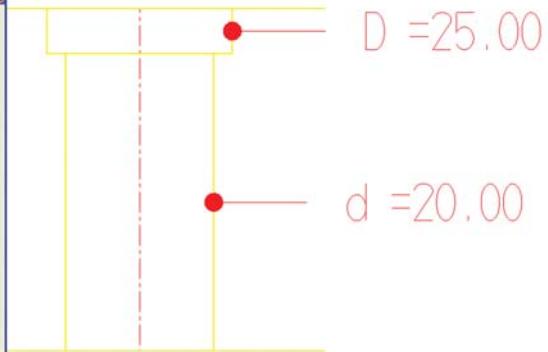
Extensive Drill Form Libraries



Process Configuration: Table: C\_2 Diameters (mm)

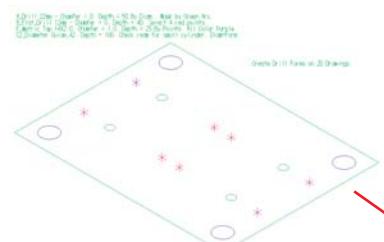
Name	D	L	d	Process
10xD	10.8	8	8	1
15xDx25.4	15.075	25.4	13.89	1
20xDx4.5	19.99	25.4	17.46	2
20x4.75	20	4.75	12	2
20x7.05	20	7.05	15	2
20xDx9.7	20	8.9763	12	2
20xDx6	20	26	26	2
3xD	5.52	6	5	1
5xDx12.5	50	12.5	28	1
5xDx10	55	10	8.5	2
6.35x12.7	6.35	12.7	5.105	1
7.525x6.88	7.525	6.886	6.145	1
Allen_10	17.5	11	11.5	1
Allen_12	19	18	13	1
Allen_14	21.4	15	16	2
14xD	14	9	9	1
Allen_16	26	17.5	18	2
Allen_20	33	21.5	21	3
Allen_22	46	46	46	1
Allen_5	10	5.7	5.6	1
Allen_8	11	6.8	7	1
Allen_12	145	9	9.5	1
CounterBore_2...	2.185	3.302	1.78	1
CounterBore_2...	2.848	3.81	2.26	1
CounterBore_2...	3.459	5.598	2.36	1
CounterBore_2...	3.185	5.598	1.78	1
CounterBore_5...	50	13.5	21	2
Guide_10	13	3	10	1
Guide_12	16	4	12	1
Guide_14	18	4	14	1
Guide_16	20	5	16	2
Guide_17	17	100	16.3	1
Guide_18	23	6	18	2
Guide_20	25	6	20	Guide
Guide_25	31	7	25	Guide
Guide_25a	31	6	25	Guide
Guide_30	36	8	30	Guide

Define standard repetitive operations using graphical, user friendly interfaces

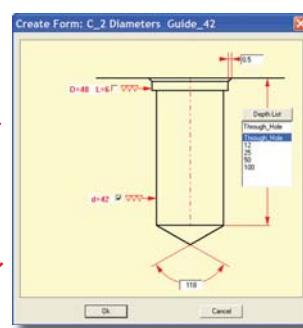


## Drill Form Creation

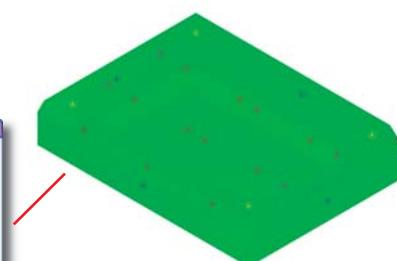
Easy one click creation of drilling forms from 2D drawings or Solid models with all associated drilling operations.



From 2D drawing



Forms created!



From Solid model



Forms automatically processed in ProDrill

# ProDrill

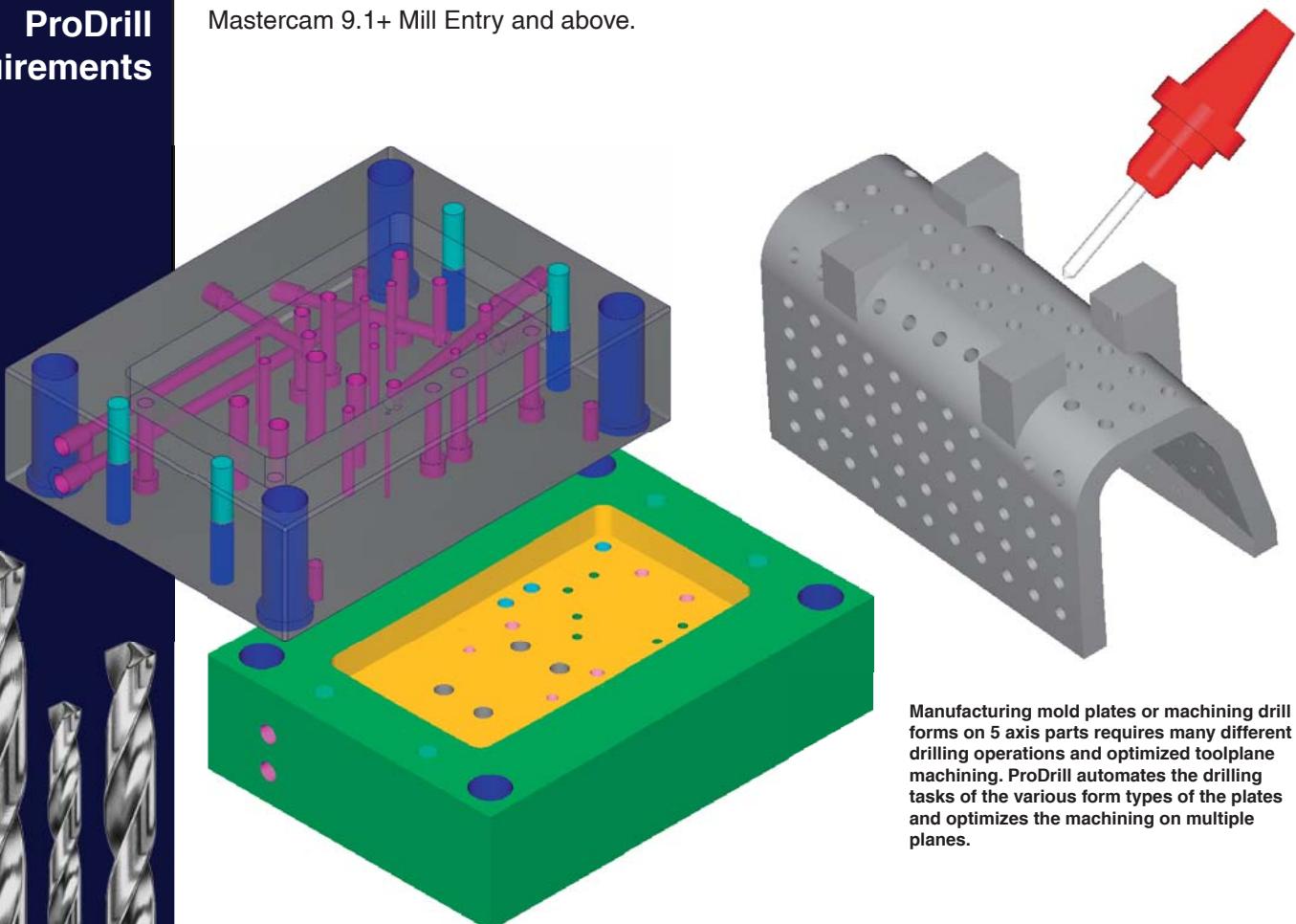
## Feature based Drilling for Mastercam

### 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

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