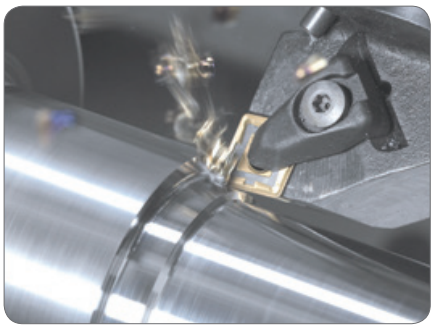
Delcam Advanced Manufacturing Solutions

PartMaker
Turn

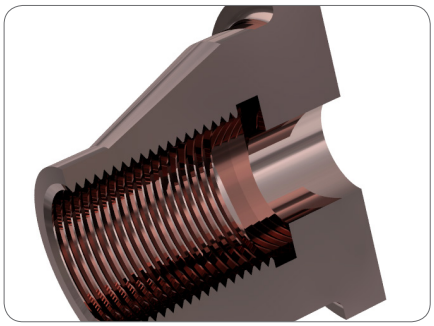
PartMaker Turn is the solution for programming 2-axis lathes faster and easier than ever before. The software gives you all the tools you need to program your 2-axis lathe quickly and easily. PartMaker Turn is a very visual and intuitive system, so it can be learned very quickly. The software provides full 3D simulation with collision detection to avoid costly machine crashes. PartMaker Turn comes included at no additional charge with a vast library of robust, user customizable post processors for virtually any 2-axis lathe machine-control combination on the market today. Additionally, as your shop's capabilities grow into multi-axis lathes or even possibly Swiss-type lathes, PartMaker Turn can be easily and cost effectively upgraded.

"PartMaker Turn was the best investment I ever made in my business."
Peter Galinksi, Owner
PA Machine

PartMaker Turn: Key Features



- Turning on OD and ID Boring with User Defined Z and X Finishing Allowances
- Contouring for facing and OD / ID turning
- Tip size compensation for contouring with grooving tools
- User Defined Hole making cycles for drilling, pecking, tapping and reaming
- Grooving for any shape using peck grooving or contouring
- Powerful threading routines with any number of passes
- Cut-off — synchronized with part handling
- Material Control Processes using bar feeders, tailstocks, part grippers and catchers
- Tooling database including standard inserts for grooving, threading and turning as well as user defined tools and multiple offsets per tool
- Integrated 3D Machine Simulation with full collision detection
- Ability to output in long hand or canned cycle format
- Free library of robust, user customizable post processors for virtually every 2-axis lathe machine/control combination
- Automatic set-up sheet creation
- Material Library for automatically calculating and customizing speeds and feeds.



Compatibility:

- Doosan
- Hardinge
- Okuma
- Mori-Seiki
- Mazak
- Miyano
- Nakamura-Tome
- Haas
- Hwacheon
- Romi
- Takamaz
- Takisawa
- Topper
- Samsung
- Hyundai-Kia
- Daewoo
- OmniTurn
- …and others

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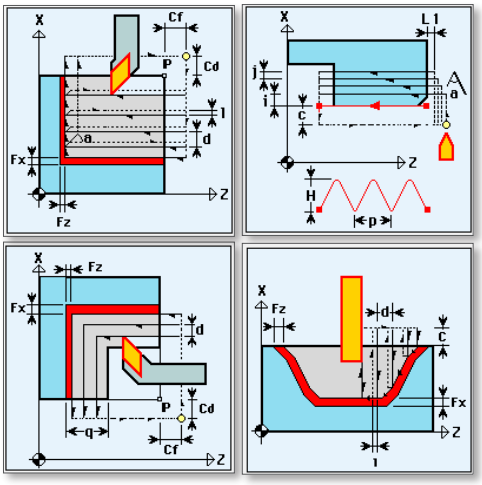
Powerful and Easy to Use Turning Machining Strategies



PartMaker Turn comes loaded with a wide variety of powerful, flexible and easy-to-use turning machining strategies. These machining strategies include highly automated turning, contouring, grooving, threading and cut-off operations. All PartMaker Turning operations can be output in either long hand G-code format or canned cycles and the output format can be controlled per process. PartMaker's unique Process Table allows operations to be reorganized quickly and easily, no matter what order they were defined.

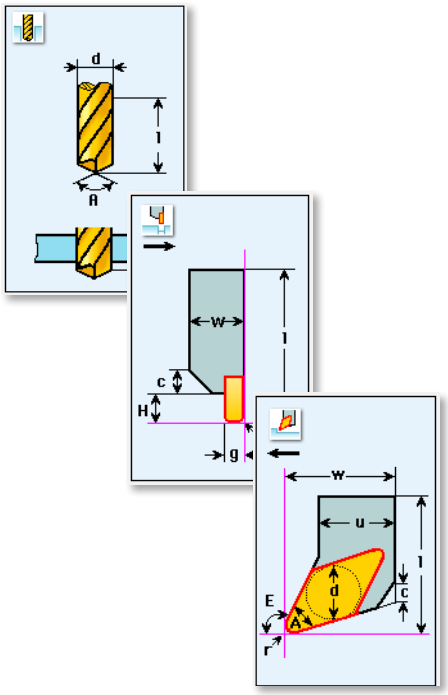
Knowledge Based Machining

PartMaker uses Knowledge Based Machining to store your shop specific expertise about tooling, feeds and speeds and repetitive hole making operations to reduce programming time. This expertise is then applied during part programming in the calculation of an accurate cycle time which can be used for quoting purposes.

Tools: The Tools Database allows you to keep track of your current tool inventory. The geometric and cutting characteristics of each tool are used for automatic depth calculation. PartMaker's tools database supports standard tooling as well as custom form tools.

Materials: The extensive Materials Database stores material data to automatically calculate feeds and speeds. You can customize PartMaker's Materials Library to reflect your own experience or create new materials just by pointing and clicking.

Cycles: The Cycles Database allows you to create and store cycles, sequences of repetitive operations such as center drilling, drilling and tapping.

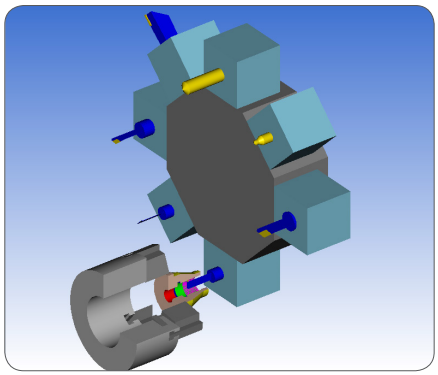


Vivid 3D Simulation

Machine collisions cost money! To avoid such expensive problems, PartMaker Turn simulates machining of the part with vivid 3D graphics. PartMaker Turn's 3D simulation will perform full collision detection in addition to allowing you to see what the part will look like before sending the program to the machine.

Robust, Flexible and Accurate Post Processors

PartMaker Turn comes standard with a vast library of robust, user customizable post processors for virtually every 2-axis lathe machine/control combination available on the market today. These post processors are capable of supporting both long hand and canned cycle output. All PartMaker Turn post processors are fully user customizable using PartMaker's unique 'Config-by-Click' technology. Better yet, with PartMaker Turn, once a part is programmed for one machine, by simply loading a new post processor, a program can be regenerated in moments for the same part on a completely different 2-axis lathe.

System Requirements

32 or 64 bit Windows 7 PC or 64 bit Windows 8 PC, Intel Core Duo processor or better, 80 GB Hard Drive or larger, 4 GB of RAM or more and 1 GB Independent Nvidia Video Card or better.