

Reducing CNC Programming Time by 75% is Now Possible



SolutionWare has developed "PowerCAM, the CNC programming assistant": This assistant identifies features in the solid-model and uses extensive logic to determine tools and cuts and typically is able to do a substantial amount of the programming work for you. PowerCAM will output pocketing, drilling, tapping, contouring, etc., in Mazatrol or G-code to just about any milling machine.

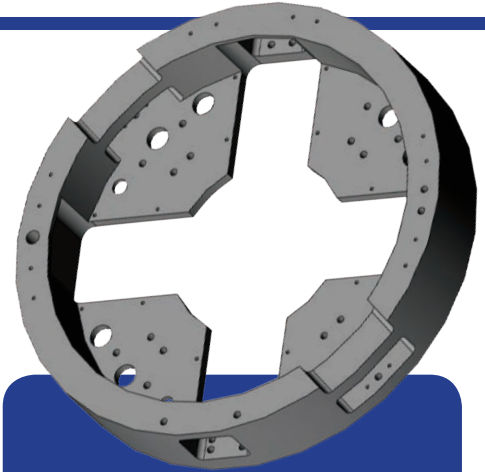
PowerCAM enables you to work with the best of both worlds:

From the solid-model, PowerCAM will automatically program your part directly and then present the result in a user-interface where you may review and tweak your tools and cuts. You have all the power to manage and control the operations in the program to apply any programming expertise and human input that you feel would improve the program, and then output Mazatrol or G-code using proven GeoPath post-processors. These post-processors can be extensively configured to output edit-free G-code for your shop's standard CNC machines.

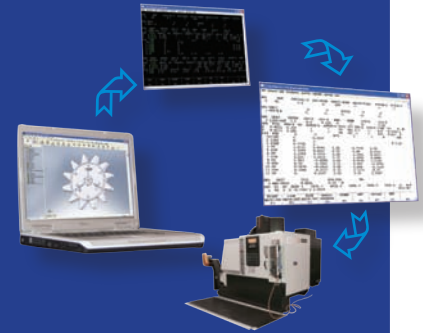
- Built-in tool library and technology: PowerCAM automatically enters speed and feed data for a variety of tools and materials. Saves you time and effort.
- PowerCAM can output Mazatrol directly to your Mazak machine whether you are programming a mill or an Integrex with B-axis. This Mazatrol output is compatible with most generations of Mazak controls, from the earliest T2/M2 to the latest Matrix and Smart.
- Programming your CNC (Fanuc, Yasnac, Fadal, Haas, etc.) from a solid model is now easier and faster to do than ever before. Over 75% of the part is programmed for you instead of having to program the whole part (from SolidWorks solid based files).

- Loading CAD files from other software such as IGES, STEP, SolidWorks Feature-Data files, etc. is in a part of the SolidWorks (integrated with PowerCAM) which means that you can get the solid CAD designed in any mainstream solid-modeling package (output via many compatible formats) from customers or engineering department, and automatically program your machines.

If you would like to see how this can improve and increase your shop's productivity call us to see a demonstration of PowerCAM.



This illustrates how simple it is to open a SolidWorks file and with a few steps; select settings, select features and output Mazatrol or G-code.



PowerCAM generates Mazatrol or G-code directly from the solid model.

Simply click on the "machine all features" button or click on the features or geometry you want to cut, then process the cuts to Mazatrol or G-code.

PowerCAM is compatible with MazaCAM, and GeoPath CAD/CAM.

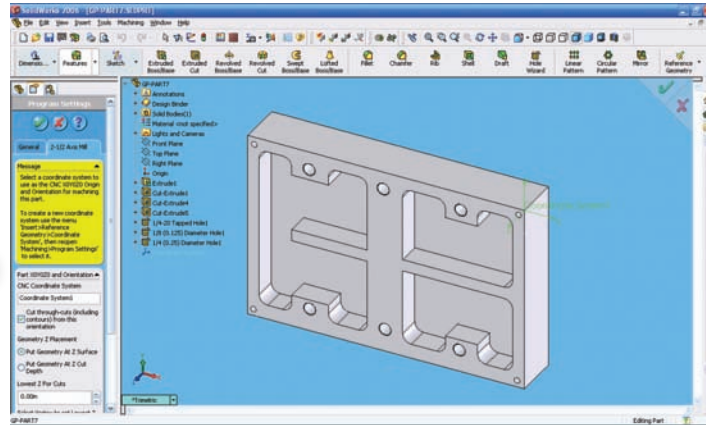
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To G-code
Program for all
standard CNCs



To Mazatrol
Program for
Mazak CNCs



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N1 G90 G0 G40 G49 Z0 M19
G0 X0 Y0
T1 M6
G17 G54 X-6. Y-4. B0
G43 H1 Z.13 M3 S1146 M8
G1 Z0 F7.2
X0 F13.
Y-.8
X-6. F21.6
Y0
X0
Y-.8
G0 Z.13
M9
N2 G90 G0 G40 G49 Z0 M19
G0 X0 Y-.8
T2 M6 (1 D X Y-7/8 LOC REG SNG-END)
G17 G54 X.52 Y1.02 B0
G43 H2 Z.105 M3 S2292 M8
G1 Z-1. F16.5
Y.52 F82.5
Y-4.52
X-6.52
Y.52
X.52
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UNO 0 MAT ALUMINUM INITIAL-Z 0.1 ATC-MODE 0 MULTI-MODE MULTI-FLAG PITCH-X PITCH-Y
UNO UNIT 1 WPC- 0 X 0. Y 0. THETA 0. Z 0. C A 0.
UNO UNIT 2 FACE-MIL 0. SRV-Z 0.03 SRV-R 4 BTM WAL FIN-Z FIN-R
SNO TOOL NOM-D NO APRCH-X APRCH-Y TYPE ZFD DEP-Z WID-R C-SP FR M M
F 1 E-MILL 0.75 ? ? X-BI <> <> 0.6 750 0.021 8 CNR
FIG PTN X Y R/O I J P
1*LINE 0. -2.
2*LINE 0. -4.
3*LINE 6. -4.
4*LINE 6. 0.
5*LINE 0. 0.
6*LINE 0. -2.
UNO UNIT 3 LINE-LEFT 1. SRV-Z 1.005 SRV-R 0.375 4 CHMF FIN-Z FIN-R
SNO TOOL NOM-D NO APRCH-X APRCH-Y TYPE ZFD DEP-Z WID-R C-SP FR M M
R 1 E-MILL 0.75 ? ? G01 1.005 <> 750 0.014 8 M
F 2 E-MILL 0.75 ? ? G01 <> <> 750 0.021 8
FIG PTN X Y R/O I J P
1*LINE 6. 0.125
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