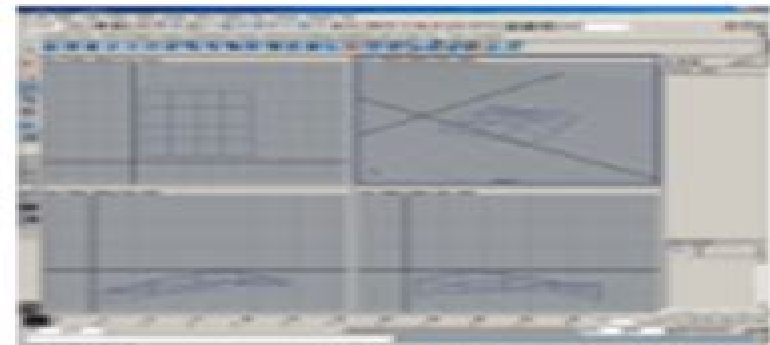


# MasterCAM Surfacing Tutorial

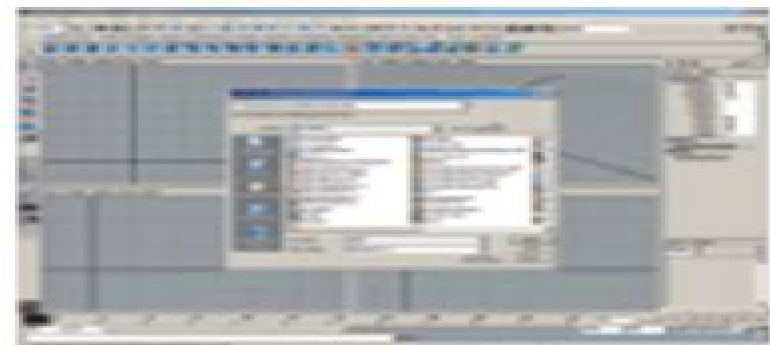
'Surfacing' is a machining operation in which a 3D-contoured surface is carved from a block of stock material through a series of cuts. Typically this is done in two operations, a 'Rough' pass and a 'Finish' pass. The purpose of the 'Rough' pass is to remove as much material in as quick of time as possible, this is typically done with a large bit and gives a rough contoured feature to the material. Often the process is stopped after the 'Rough' process, and if the roughing operation is done with a small enough bit the surface smoothness may be suitable for many applications. If a smoother finished surface is desirable a second series of cuts can be made with a smaller bit at a tighter tolerance giving a smooth polished surface. This tutorial covers the basic operations needed to do a 'Rough' tool path based on a generic 3D surface.

## Surface Creation

- 1) The creation of an appropriate surface for machining is the first step in the 'Surfacing' operation. As you prepare your surface the modeling environment should be set so the Z-axis is vertical and the working units are inches/feet. The optimal surface for machining is NURBS based, this can be created in Maya, Rhino or Solidae. The surface should be placed with the highest point on the surface is just below the XY plane. The mill will treat the XY plane as the top of the material, anything above the XY plane will not be cut. The part should also be positioned entirely in the positive XY quadrant (upper right quadrant) of the axis.
- 2) Once you have modeled a surface it must be exported as a file in IGES format. If possible it is suggested you select the individual elements to be CNC milled and export only those pieces, avoiding the exporting of lights, cameras, other objects, etc.



*Preparing the surface in X, Y and Z*



*Exporting the surface as an IGES file*

# Mastercam User Manual Surfacing 9

**Scott C. Dulebohn**



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