



FastCAM v9.0 Update

Table of Contents

FastCAM.....	2
New Features:	2
Pan	2
Inserted Blocks.....	2
Font/Text Cutting.....	2
FontGEN Integration (FontGEN v3.0).....	3
FastPATH Settings.....	4
FastNEST	6
New Features:	6
AutoNest	6
AutoNest Configuration	7
Nesting Time.....	7
Nesting Angle.....	7
Allow FREE part rotation	9
Multiple Plate View.....	9
Part Selection.....	10
FastNEST Configuration.....	10
Plate Tab location.....	10
AutoNest Default Configurations.....	11

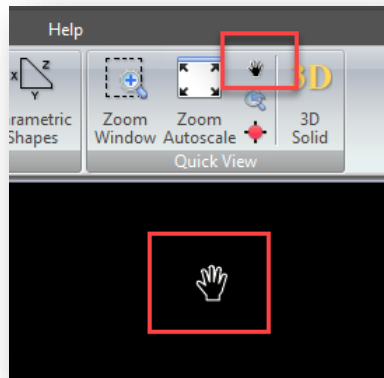
FastCAM

New Features:

Pan

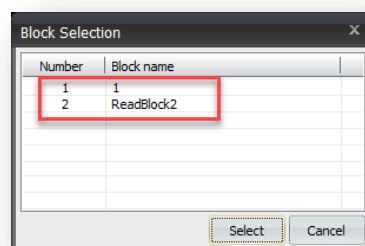
A new dedicated Pan function has been added to the Ribbon into the Quick View group.

Once selected the mouse cursor will turn into a HAND icon. To pan, simply click and hold the left mouse button and move the mouse around and the drawing will move with it.



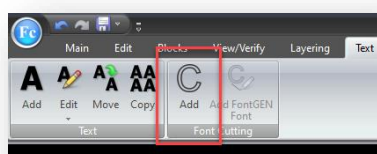
Inserted Blocks

Inserted Blocks will now be automatically blocked themselves with the Origin being at the 0,0 point of the inserted drawing. The inserted Blocks will be named using a "ReadBlock" prefix before a number which signifies the block count.

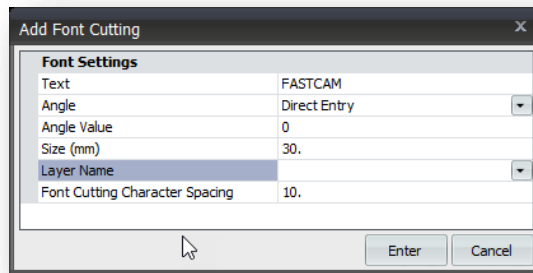


Font/Text Cutting

A quick Font cutting feature has been added.



This allows Text to be added and converted into Stencil based font outlines. Spacing between the letters/characters can also be configured as shown below.



This works from a pre-installed CAM file created by FastCAM which is based around a stencil outline font. For all other Font styles, please look at our add-on FontGEN application.



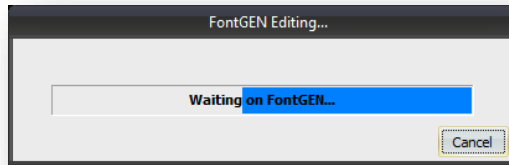
FontGEN Integration (FontGEN v3.0)

An update to FontGEN has also been released and with this new version there is now direct integration from within FastCAM.

FontGEN can be launched now from within the TEXT Tab on the Ribbon by clicking the “Add FontGEN Font” button.



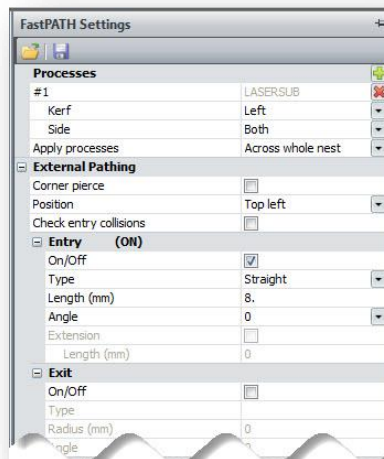
This will then launch FontGEN and show a waiting progress window.



Once you have completed your work with FontGEN, simply press SAVE in FontGEN and then the progress window will disappear, and you can then place the incoming text from FontGEN in your FastCAM drawing.

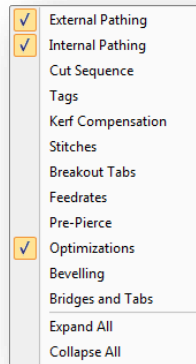
FastPATH Settings

A new dockable/pinnable window has been added for the FastPATH settings. This is a replication of what had already been added to FastNEST v8.



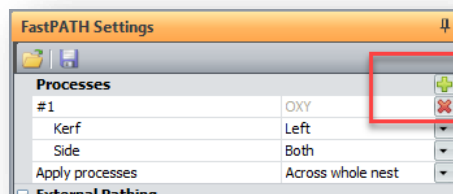
Each group can be expanded and contracted, and the state will be remembered between runs.

A Right-click context menu is also available on the window itself, which will show options to expand and contract groups from a menu.

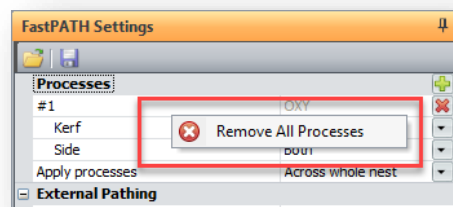


To ADD processes the Add button can be used.

To DELETE a process use its own deletion button



To DELETE all the processes, Right-Click in the Process group and select Remove all Processes from the menu.



FastNEST

New Features:

AutoNest

A new Automatic Iterative Nesting method has been added to FastNEST.
(FastCAM Professional and above)

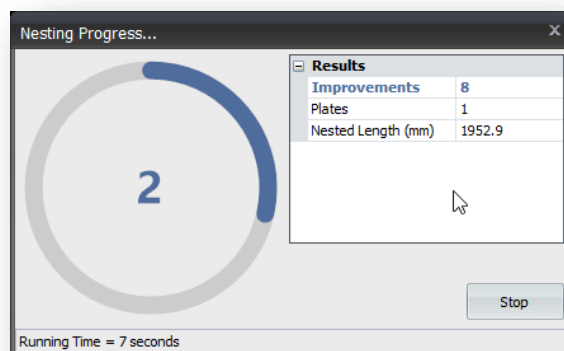


This nesting method uses new algorithms that work continuously to improve the nested result.

It works from the complete Parts List, so the method to use for this nesting is: -

- 1 Add all the desired parts into the Parts List.
- 2 Set the required Quantities.
- 3 Start the AutoNest.

Nesting will then take place and you will be presented with the progress window.

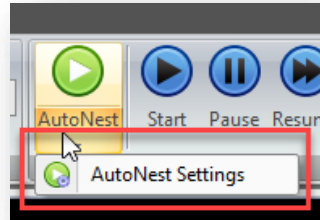


As the new nesting progresses you can see the Number of Improvements found and also the best total Nested Length value.

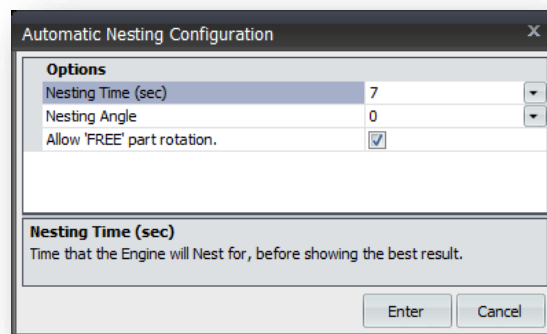
At the end of the configured time the Nesting will stop and present you with the result. If desired, you can stop the nesting yourself by pressing the Stop button and the current 'best' result will be presented.

AutoNest Configuration

Values for the AutoNest settings can be accessed by clicking the lower half of the AutoNest button.



In here you can set the following values: -



Any value altered here is only held while the program is running. To configure the defaults, see the Options section.

Nesting Time

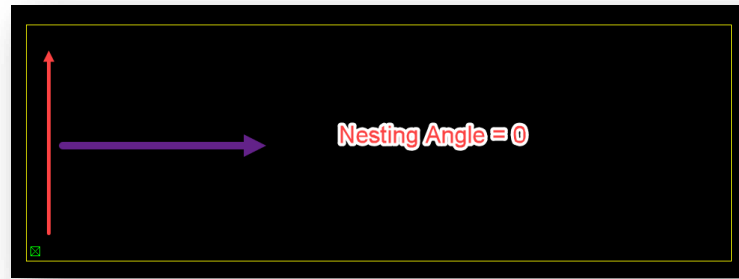
Nesting time is configured in units of Seconds. You should set it to a reasonable amount of time based on the Parts List in use. The more parts you have in the list you should allow more time for the algorithms to find the best result possible.

Nesting Angle

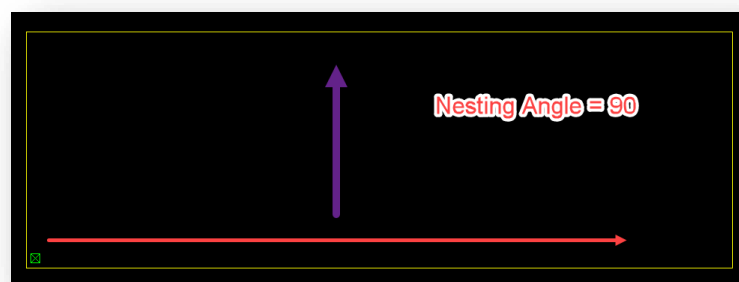
Nesting Angle will be defaulted to 0 for a fresh installation, but can be 0, 90, 180 or 270.

Changing this angle will alter the way the nesting nests/packs the parts onto the plate.

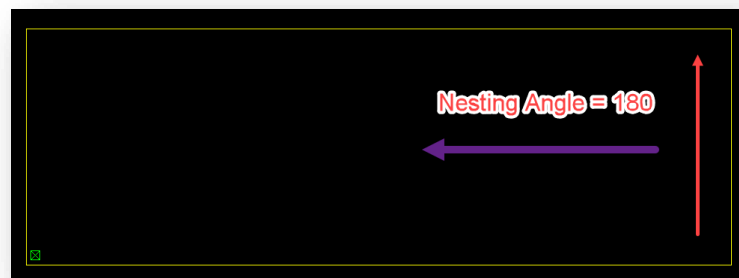
An angle of 0 will nest the parts onto the left-hand end of the plate and work its way to the right.



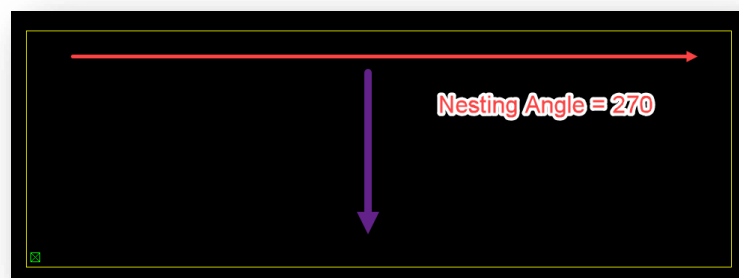
An angle of 90 will nest the parts to the bottom of the plate and work its way to the top.



An angle of 180 will nest the parts onto the right-hand end of the plate and work its way to the left.



An angle of 270 will nest the parts to the top of the plate and work its way to the down.

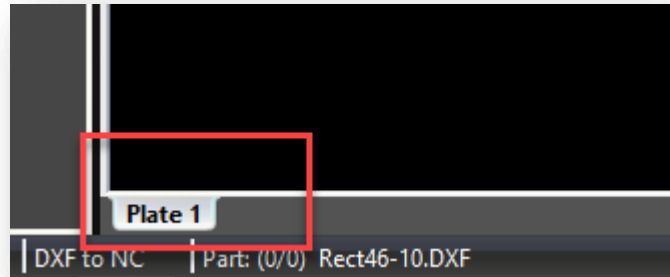


Allow FREE part rotation

This setting will allow FastNEST to change the initial rotation of the part to an angle that could produce a better nested result.

Multiple Plate View

Multiple Plate viewing has been added and can be seen by the new Plate Tabs that are by default at the bottom of the window.

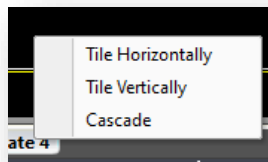


For every new Plate that is nested a new Tab will appear.

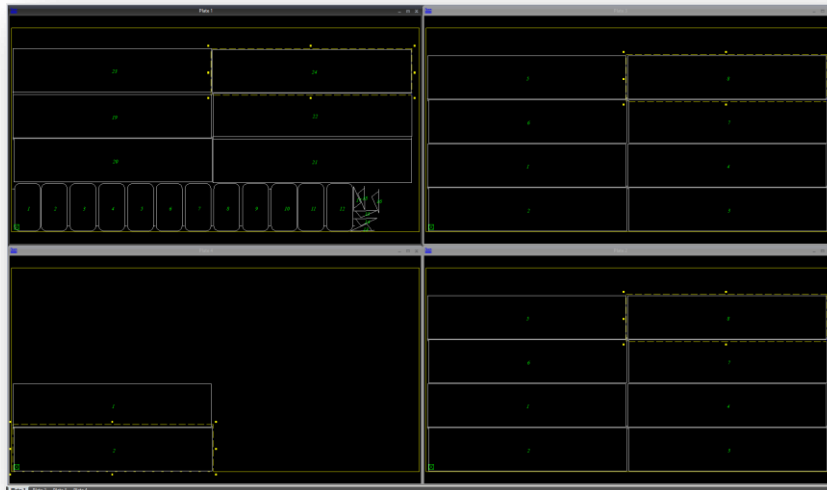


You can easily switch between plates now by selecting/clicking a different plate Tab.

If you want to see more than 1 plate at a time, just right-click on one of the Plate Tabs and select the desired viewing method from the pop-up menu.



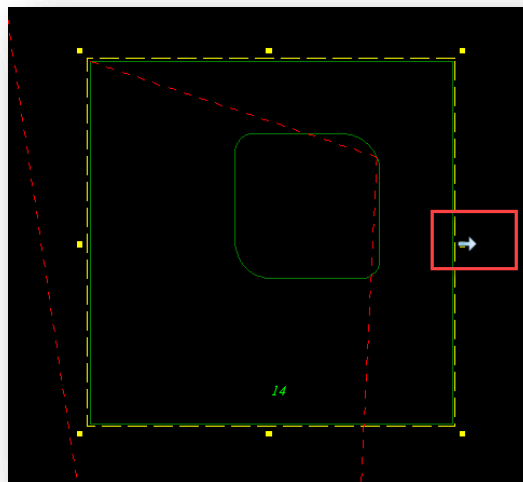
Here is an example: -



Part Selection

A new Part selection box has been created with handles. The Handles can be used to 'BUMP move' the parts in different directions.

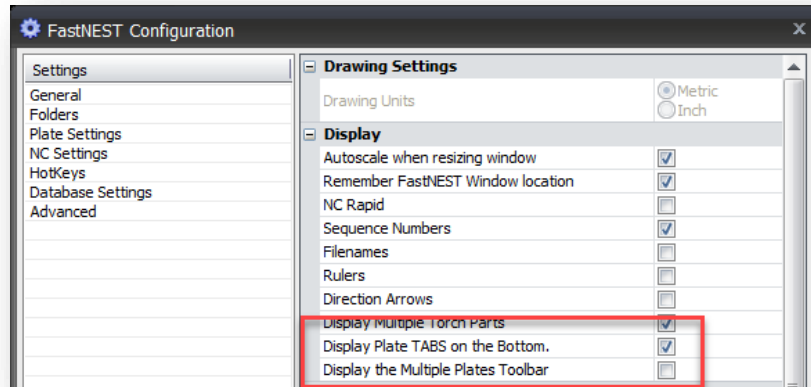
Placing your mouse over the handles will alter the mouse cursor to indicate the movement direction.



FastNEST Configuration

Plate Tab location

The default location of the Plate Tabs can be set on the top of the display area or the bottom.



AutoNest Default Configurations

The default values for the AutoNest configuration can be set in the Program Settings as shown below.

