

What's New - V9.5

Group	Feature	y	V	
Infrastructure	On-line download of licence			
	On-line download of clipart			
Job Type	Core product support for Rotary			
Drawing	Improved Text Editing			
	Vector Unwrapper (Rotary)			
	Picture Editor			
	Crop Bitmap			
Modelling	Easier Model Import (Rotary)			
	Wrapped model export			
Machining	Support for Helical Ramps			
	Support for G93 (Rotary)			
	Easier post-processing (Rotary)			



Licencing

V9 V9.5

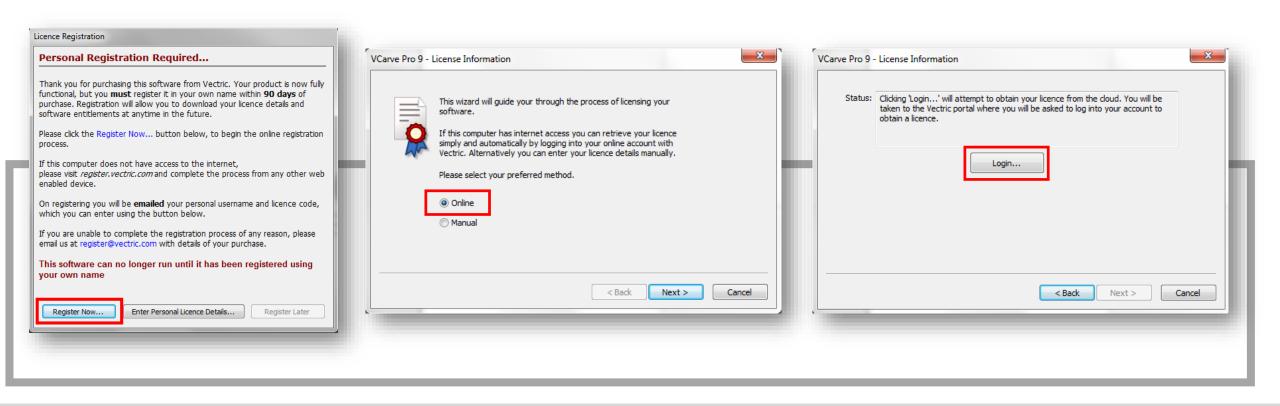
➤ Manual typed entry only

- ➤ Online extraction of license details
- ➤ No need for manual typing
 - Manual typing till an option



Auto-Licencing

➤ On-line extraction and entry — via V&Co.





Auto-Licencing



PRODUCTS FREETRIAL PURCHASE SUPPORT INSPIRATION ABOUTUS V&CO / Account / Login	
welcome to V&CO	VCarve Pro 9 - License Information Licensed to: Joe Bloggs - Vectric Modules:
customer login email address joe blogss@vectric.com Click here of you have fornatten your username password Password Click here of you have fornatten your passaord Sign In Don't have an account but own Vectric Software? Click here to sign	< Back Finish Cancel
up now!	



Clipart

- ➤ Have to install required libraries
- > Requires considerable disk space

- ➤ Download clipart when required
- Available clipart displayed as images
- Future scope to link to additional clipart purchases



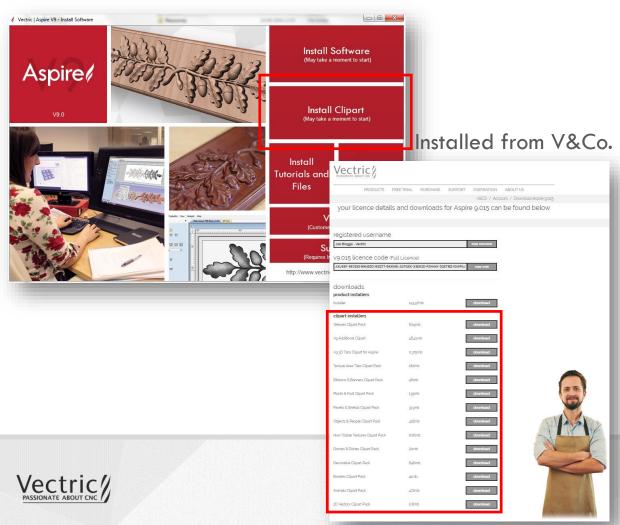
Clipart

V9

V9.5

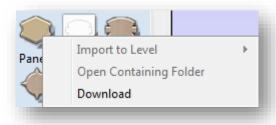








Download to clipart library



Drag directly into product



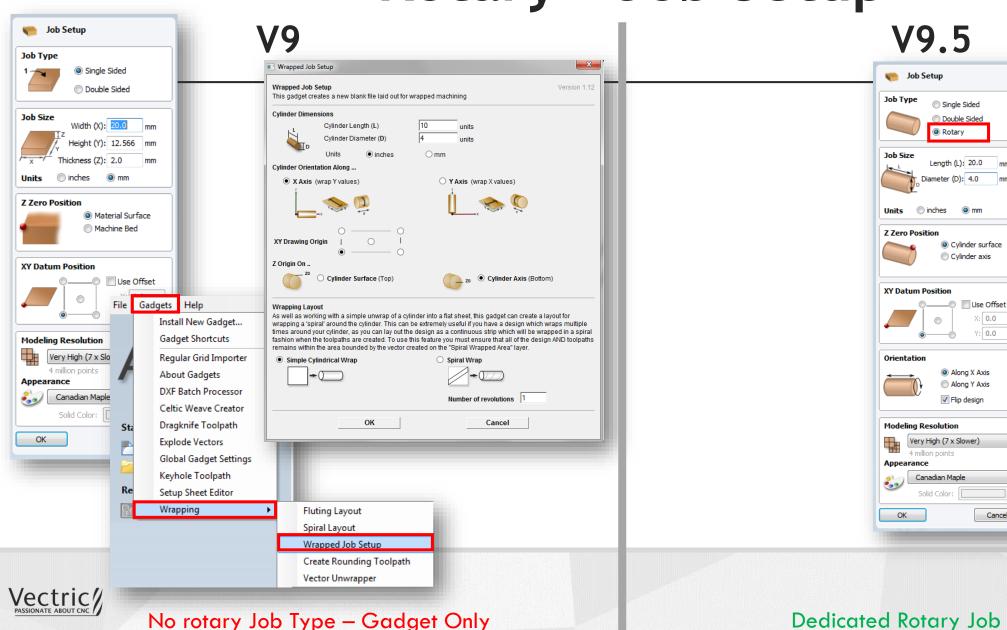
Rotary - Job Setup

- ➤ Rotary functionality NOT INCLUDED
- ➤ GADGET ONLY
- ➤ DIFFICULT to make job modifications
- CANNOT combine 'Spiral' and 'Cylindrical' wrapped layouts in one job

- ➤ Rotary functionality INCLUDED
- No longer require gadget for job setup
- ➤ NEW dedicated workflow
- >EASY editing of job parameters
- CAN combine 'Spiral' and 'Cylindrical' layouts within the same job
- Can still open jobs created with the gadget



Rotary - Job Setup



Dedicated Rotary Job Type

X: 0.0

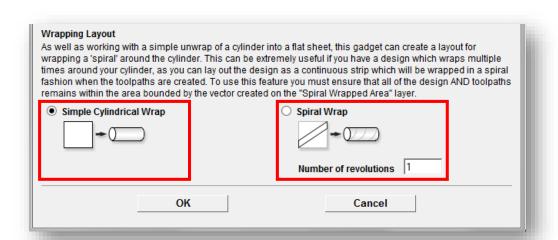
Y: 0.0

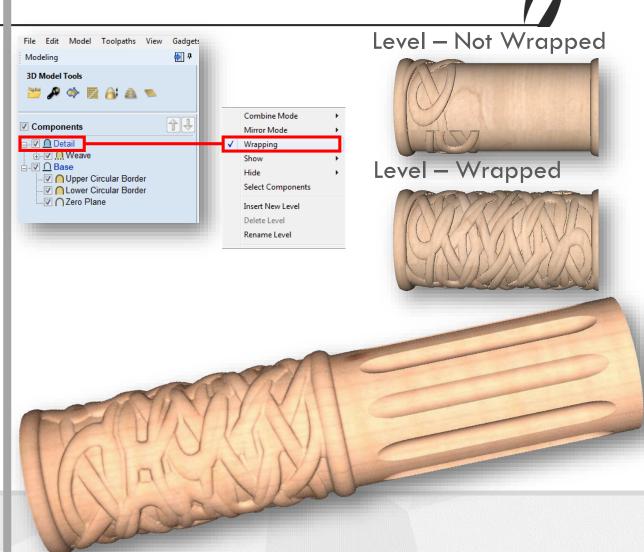
Cancel

Rotary - Job Setup

V9

V9.5





Combination of Spiral Wrapped & Cylindrical Layout

Rotary - Display

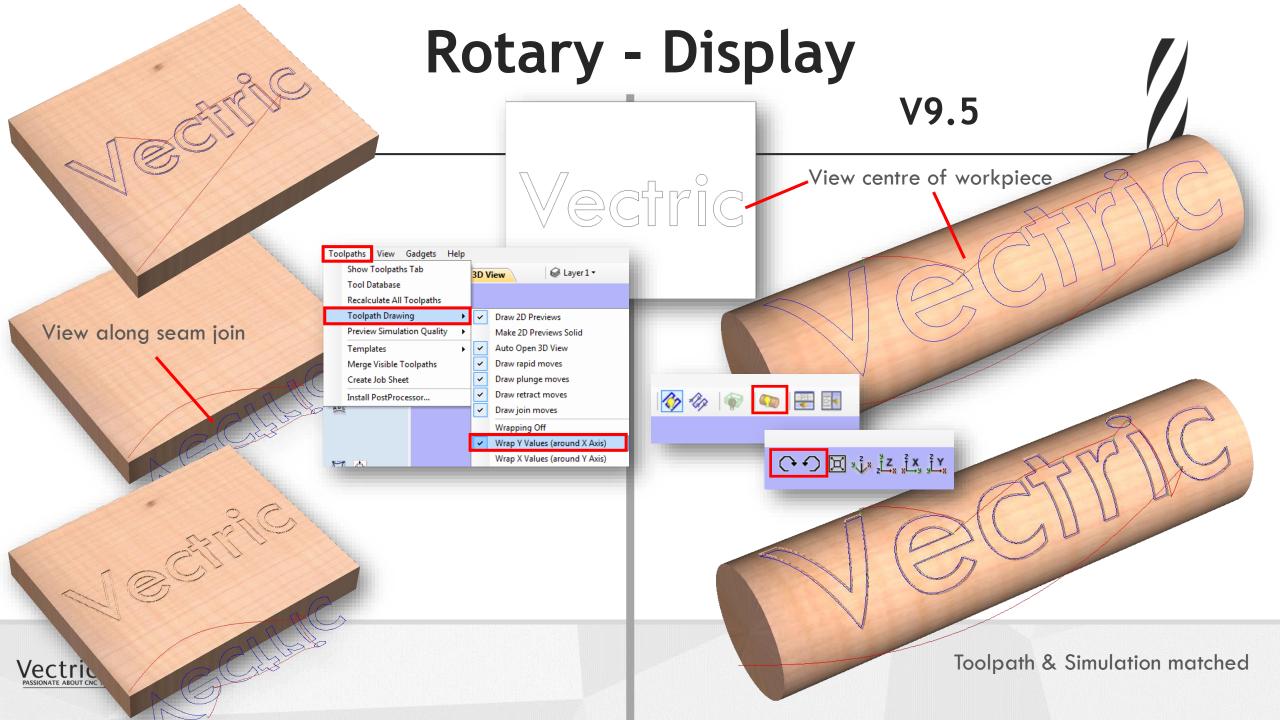
V9

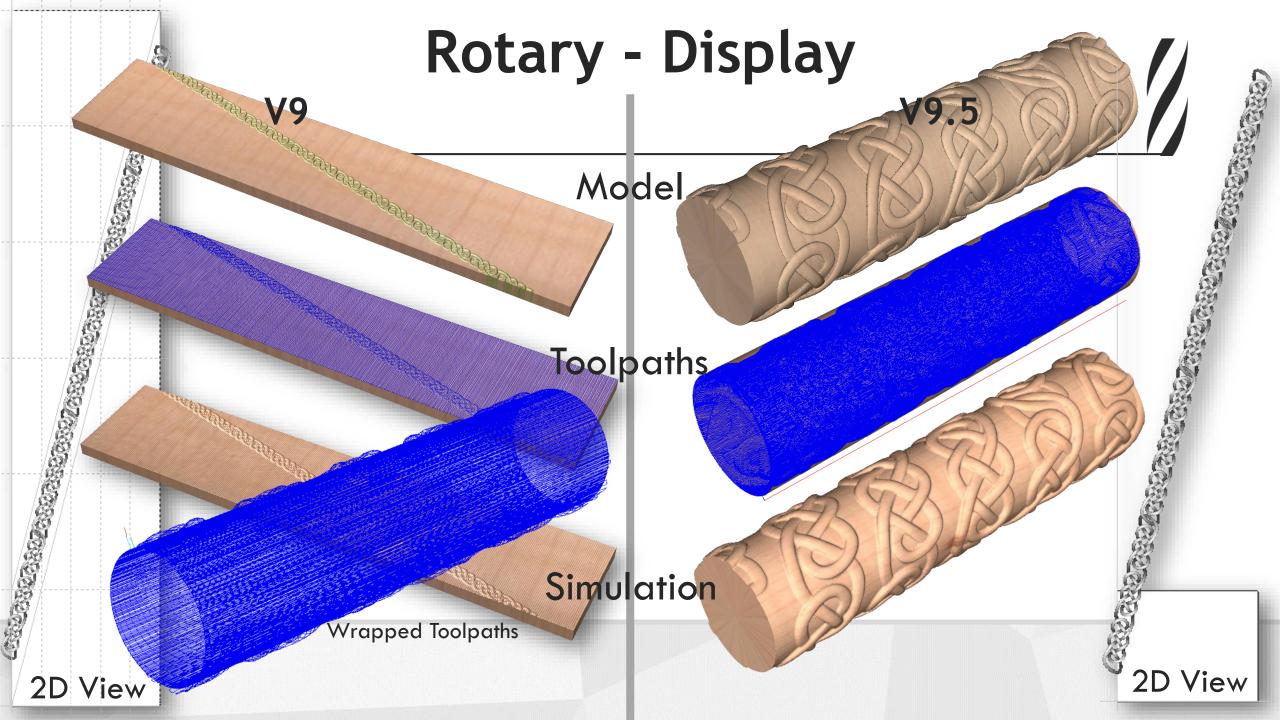
V9.5

- CANNOT VIEW wrapped relief for 2D jobs
- CANNOT VIEW wrapped toolpath simulation for 2D jobs
 - Only calculated toolpaths
- Wrapping only available as a 'Toolpath Drawing' option
- >Wrapped seam faces screen
 - Requires rotation to see full design
- Cannot visualize model in cylindrical stock

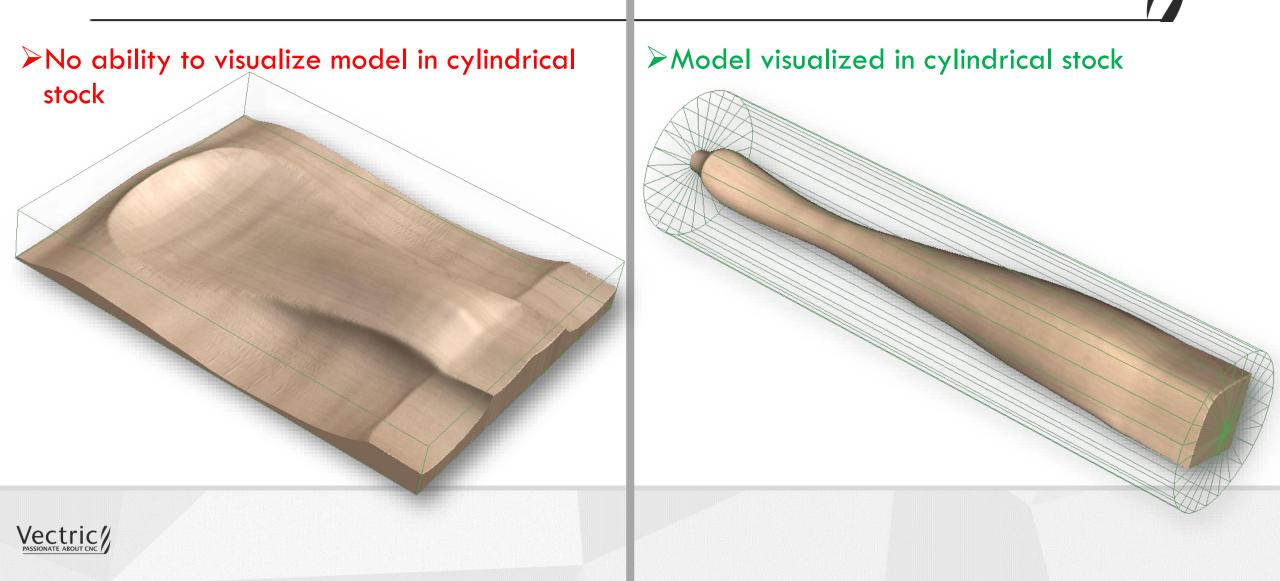
- CAN view wrapped relief for 2D jobs
- CAN view wrapped toolpath simulation for 2D jobs
- >AUTOMATIC wrapping of rotary jobs
- >NEW Icons on top toolbar
- Can open jobs created with the gadget
- Model centre faces screen rather than seam
- Easy to visualize cylindrical stock in relation to model







Rotary - Display



Text Editing

- ➤ Text placed after completion
- ➤ No dynamic modification change parameters and then 'Apply'
- Transformations to text are reset when editing text content

- Text box shows start, height and alignment
- Text displayed as soon as first letter entered
- ▶ Dynamic modification no need to 'Apply' to see change
- Transformation to text maintained when editing text content:
 - Rotation
 - Wrapping along a curve
 - Kerning
 - Non proportional scaling
 - Mirroring





Text Editing

V9

V9.5



Vectric Software V9.0

Original Text + Curve

Vectric Software V9.5

Wrapped Text + Kerning



Vectric CNC Software V9.0



Text Edited



Wrapping + Kerning LOST

Wrapping + Kerning KEPT

Image Editing

- ➤ No ability to crop an image
- No ability to edit image colour properties

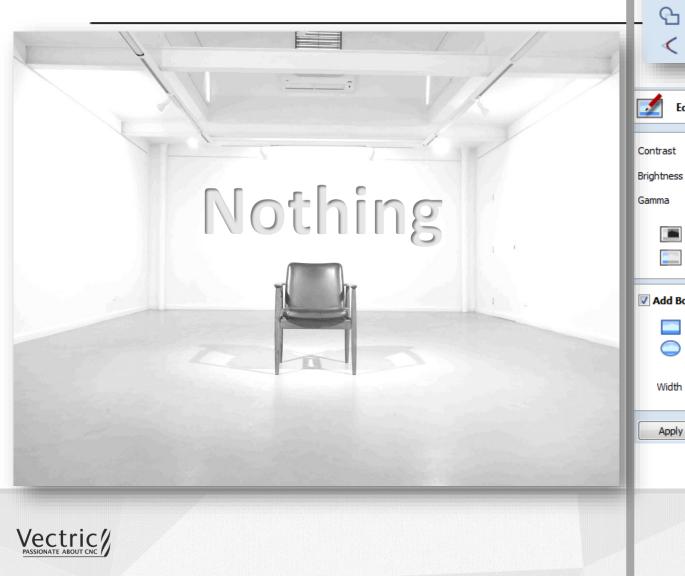
- ➤ Ability to crop an image to a vector
- ➤ Ability to change:
 - Brightness/Contrast/Gamma
 - Greyscale
- >Add border
 - Rectangular/Oval
- ► Ideal for
 - Lithiphanes
 - Laser picture





Image Editing

V9





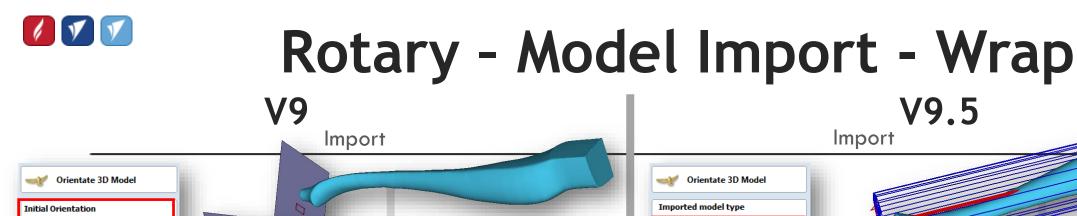
Rotary - Model Import

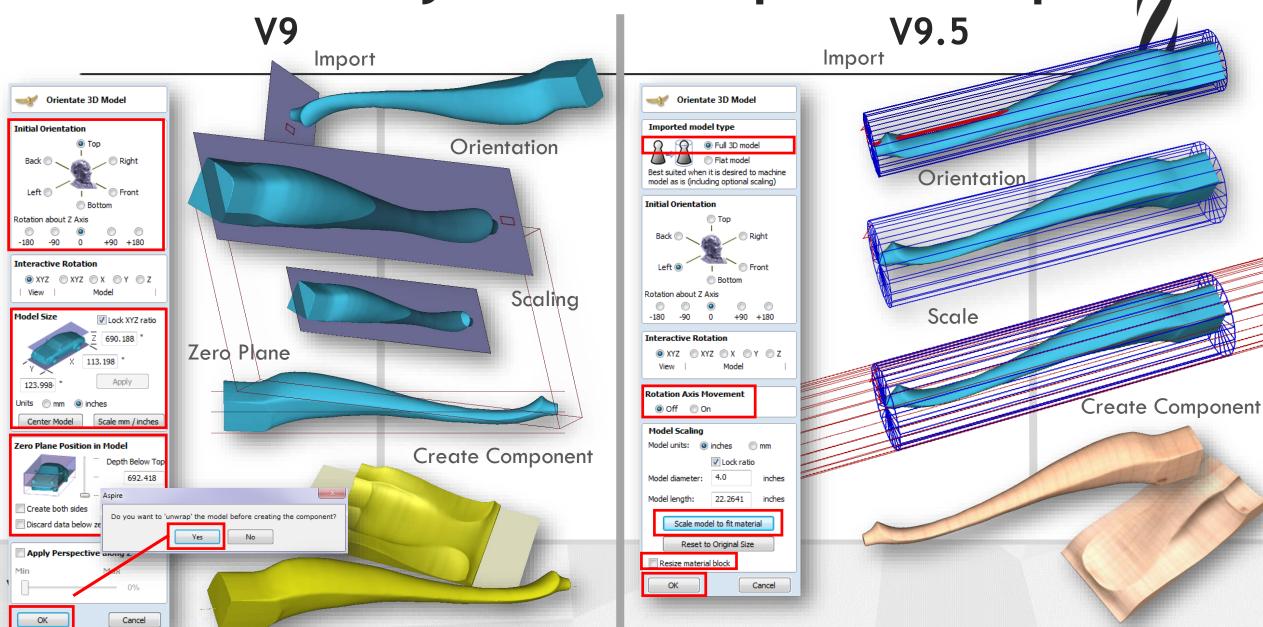
- ➤ No specific workflow for rotary
- Difficult to orientate to ensure whole model fully unwrapped
- VERY Difficult to scale to fit within block

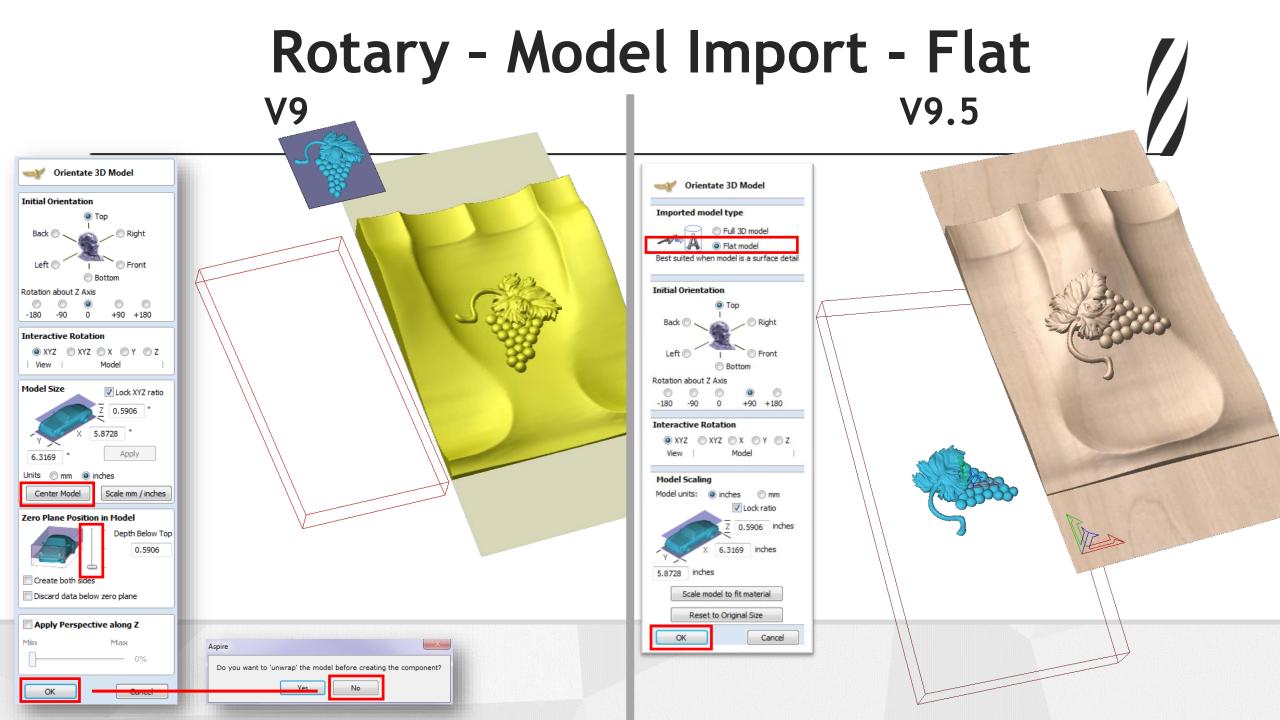
- ➤ New Model Import
- ➤Only display relevant parameters
- Full 3D and Flat model options

 Full3D unwrap, Flat no-unwrap
- >AUTOMATIC initial orientation
- ➤ Bounding cylinder to help orientation
- >AUTOMATIC scaling to fit block
- ➤ Ability to move rotation axis
- Wrapped result displayed







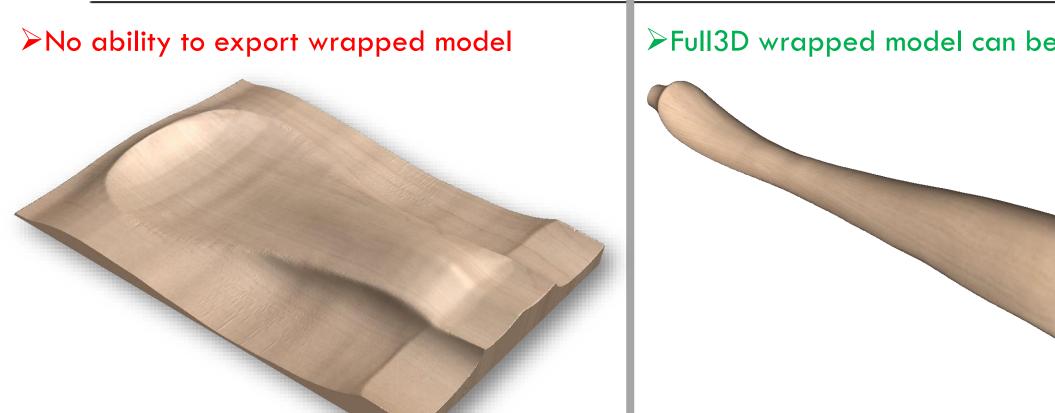




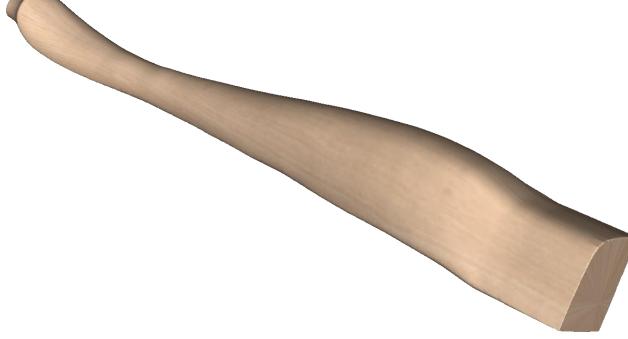


Model Export - Rotary

V9.5 V9



Full3D wrapped model can be exported





Rotary Machining -

V9 V9.5

- ➤NO support for G93
 - Indifferent finish quality

Have to specify job parameters when post

processing



- ➤ Support for G93
 - Rotation speed varies to maintain constant feedrate
- Automatic extraction of job parameters when post processing

```
( UG2018| )
( File created: Thursday July 26 2018 - 03:39 PM)
( for Mach2/3 from Vectric )
( Material Size)
( X= 26.000, Z= 2.500)
( Diameter = 5.0000 Inches)
( Y Values are wrapped around the X axis )
( Y Values are output as A )
```





Helical Ramps

V9

V9.5

- ➤ Helical ramps are output as a series of straight line moves
 - Can create a large tap file

- >Helical ramps are output as arcs
- > Requires an updated post-processor

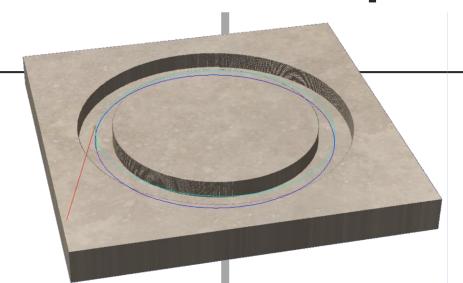
begin FIRST CCW HELICAL ARC MOVE

"G3[X][Y][Z][I][J][F]"



Helical Ramps

V9



V9.5



```
T1M6
G17
G0Z0.5000
G0X0.0000Y0.0000S12000M3
G0X0.7500Y2.5000Z0.2000
G1Z0.0000F30.0
G1X0.7501Y2.4788Z-0.0005
G1X0.7505Y2.4575Z-0.0011
G1X0.7512Y2.4361Z-0.0016
G1X0.7521Y2.4146Z-0.0021
G1X0.7533Y2.3930Z-0.0027
G1X0.7547Y2.3713Z-0.0032
G1X0.7565Y2.3496Z-0.0037
G1X0.7585Y2.3277Z-0.0043
G1X0.7608Y2.3058Z-0.0048
G1X0.7634Y2.2839Z-0.0053
G1X0.7663Y2.2618Z-0.0059
G1X0.7695Y2.2398Z-0.0064
G1X0.7729Y2.2176Z-0.0069
G1X0.7767Y2.1954Z-0.0075
G1X0.7808Y2.1732Z-0.0080
G1X0.7852Y2.1510Z-0.0085
G1X0.7898Y2.1287Z-0.0091
G1X0.7948Y2.1064Z-0.0096
G1X0.8001Y2.0841Z-0.0101
G1X0.8058Y2.0617Z-0.0107
G1X0.8117Y2.0394Z-0.0112
G1X0.8180Y2.0171Z-0.0118
G1X0.8245Y1.9948Z-0.0123
G1X0.8314Y1.9724Z-0.0128
G1X0.8386Y1.9502Z-0.0134
G1X0.8462Y1.9279Z-0.0139
G1X0.8540Y1.9057Z-0.0144
G1X0.8622Y1.8835Z-0.0150
G1X0.8707Y1.8614Z-0.0155
G1X0.8795Y1.8393Z-0.0160
G1X0.8887Y1.8173Z-0.0166
G1X0.8982Y1.7953Z-0.0171
G1X0.9080Y1.7734Z-0.0176
G1X0.9181Y1.7516Z-0.0182
G1X0.9285Y1.7299Z-0.0187
G1X0.9393Y1.7083Z-0.0192
G1X0.9504Y1.6868Z-0.0198
G1X0.9618Y1.6655Z-0.0203
```

G1X0.9735Y1.6442Z-0.0208

T1M6 G17 G0Z0.5000 G0X0.0000Y0.0000S12000M3 G0X0.7500Y2.5000Z0.2000 G1Z0.0000F30.0 G3X2.5000Y0.7500Z-0.0625I1.7500J0.0000 G3X4.2500Y2.5000Z-0.1250I0.0000J1.7500 G3X2.5000Y4.2500Z-0.1875I-1.7500J0.0000 G3X0.7500Y2.5000Z-0.2500I0.0000J-1.7500 G3X2.5000Y0.7500I1.7500J0.0000F100.0 G3X4.2500Y2.5000I0.0000J1.7500 G3X2.5000Y4.2500I-1.7500J0.0000 G3X0.7500Y2.5000I0.0000J-1.7500 G0Z0.2000 G0Z0.5000 G0X0.0000Y0.0000 M30

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	Easier post-processing (Rotary)			





Thank You