

What's New - V9.5

Group	Feature	1	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
Vectric //		

Auto-Licencing

>On-line extraction and entry – via V&Co.

Licence Registration		
Personal Registration Required	VCarve Pro 9 - License Information	VCarve Pro 9 - License Information
Thank you for purchasing this software from Vectric. Your product is now fully functional, but you must register it in your own name within 90 days of purchase. Registration will allow you to download your licence details and software entitlements at anytime in the future. Please click the Register Now button below, to begin the online registration process. If this computer does not have access to the internet, please visit <i>register.vectric.com</i> and complete the process from any other web enabled device. On registering you will be emailed your personal username and licence code, which you can enter using the button below. If you are unable to complete the registration process of any reason, please	This wizard will guide your through the process of licensing your software. If this computer has internet access you can retrieve your licence simply and automatically by logging into your online account with Vectric. Alternatively you can enter your licence details manually. Please select your preferred method.	Status: Clicking 'Login' will attempt to obtain your licence from the cloud. You will be taken to the Vectric portal where you will be asked to log into your account to obtain a licence.
email us at register@vectric.com with details of your purchase. This software can no longer run until it has been registered using your own name	<back next=""> Cancel</back>	<back next=""> Cancel</back>
Enter Personal Licence Details Register Later		



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Auto-Licencing

PRODUCTS FREETRIAL PURCHASE SUPPORT INSPIRATION ABOUT US		
welcome to V&CO	Vectric //	VCarve Pro 9 - License Information
	PRODUCTS FREE TRIAL PURCHASE SUPPORT INSPIRATION ABOUT US V&CO / Account / LinkingSuccess Congratulations. You have successfully linked Aspire with your V&Co Account	Licensed to: Joe Bloggs - Vectric Modules:
customer login email address Joe Mogge@vectric.com Click here if you have formatten your username password Password		
rassadu Cick here if vou heve fromothen vou rassoured Sign In Don't have an account but own Vectric Software? Click here to sign up now!		< Back Finish Cancel

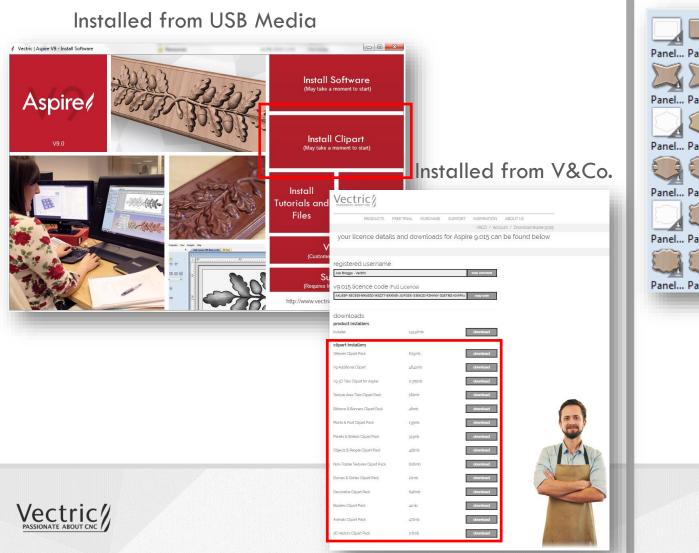


	Clipart //		
V9	V9.5		
 Have to install required libraries Requires considerable disk space 	 Download clipart when required Available clipart displayed as images Future scope to link to additional clipart purchases 		



Clipart

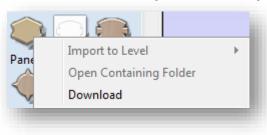
V9.5



V9



Download to clipart library



Drag directly into product



Rotary -	Job	Setup
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GADGET ONLY

DIFFICULT to make job modifications

V9

- CANNOT combine 'Spiral' and 'Cylindrical' wrapped layouts in one job
- >No longer requires gadget for job setup

V9.5

- 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

🦐 Job Setup	V9	V9.5
Job Type	Wrapped Job Setup	
1 O Single Sided	Wrapped Job Setup	🦕 Job Setup
O Double Sided	Wrapped Job Setup Version 1.12 This gadget creates a new blank file laid out for wrapped machining	Job Type Single Sided
Job Size	Cylinder Dimensions	O Double Sided
Width (X): 20.0 mm	Cylinder Length (L) 10 units Cylinder Diameter (D) 4 units	Rotary
Height (Y): 12.566 mm	Units O inches O mm	Job Size
Thickness (Z): 2.0 mm	Cylinder Orientation Along	Length (L): 20.0 mm
Units Oinches Omm	X Axis (wrap Y values) O Y Axis (wrap X values)	Diameter (D): 4.0 mm
Z Zero Position		
Material Surface		Units 🔘 inches 🔘 mm
Machine Bed	o —— o	Z Zero Position
	XY Drawing Origin O	O Cylinder surface
XY Datum Position	Z Origin On	Cylinder axis
Outrie Official Outrie Official Outrie Official	20 Cylinder Surface (Top) O Cylinder Axis (Bottom)	
		XY Datum Position
File Gadgets Help	Wrapping Layout As well as working with a simple unwrap of a cylinder into a flat sheet, this gadget can create a layout for	OO Use Offset
Install New Gadget	wapping a spiral and the cylinder. This can be extremely used util you have a design which wappen utilities around your cylinder, as you can lay out the design as a continuous strip which will be wrapped in a spiral	
Modeling Resolution Gadget Shortcuts	fashion when the toolpaths are created. To use this feature you must ensure that all of the design AND toolpaths remains within the area bounded by the vector created on the "Spiral Wrapped Area" layer.	• Y: 0.0
Very High (7 x Slo Regular Grid Importer	Simple Cylindrical Wrap Spiral Wrap	Orientation
4 million points Appearance About Gadgets		O Along X Axis
Canadian Maple DXF Batch Processor		Along Y Axis
Solid Color: Celtic Weave Creator	Number of revolutions 1	I Flip design
Sta Dragknife Toolpath	OK Cancel	Modeling Resolution
OK Explode Vectors		Very High (7 x Slower)
Global Gadget Settings		4 million points Appearance
Keyhole Toolpath		Canadian Maple
Re Setup Sheet Editor		Solid Color:
Wrapping	Fluting Layout	
	Spiral Layout	OK
	Wrapped Job Setup	
	Create Rounding Toolpath	
le etui e//	Vector Unwrapper	
/ectric//		
SSIONATE ABOUT CNC 1		

No rotary Job Type – Gadget Only

Dedicated Rotary Job Type

Rotary - Job Setup

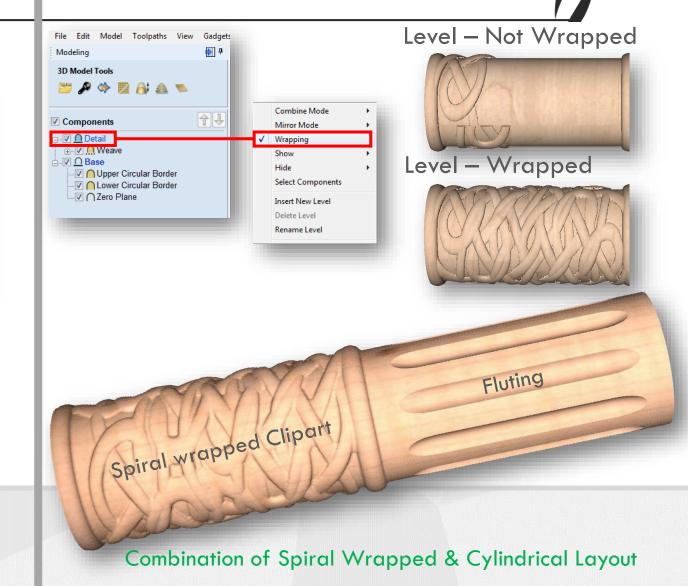
V9

V9.5

Wrapping Layout

As well as working with a simple unwrap of a cylinder into a flat sheet, this gadget can create a layout for wrapping a 'spiral' around the cylinder. This can be extremely useful if you have a design which wraps multiple times around your cylinder, as you can lay out the design as a continuous strip which will be wrapped in a spiral fashion when the toolpaths are created. To use this feature you must ensure that all of the design AND toolpaths remains within the area bounded by the vector created on the "Spiral Wrapped Area" layer.

 ● Simple Cylindrical Wrap → () 	 ○ Spiral Wrap → 0 → 0 Number of revolutions 	
ОК	Cancel	

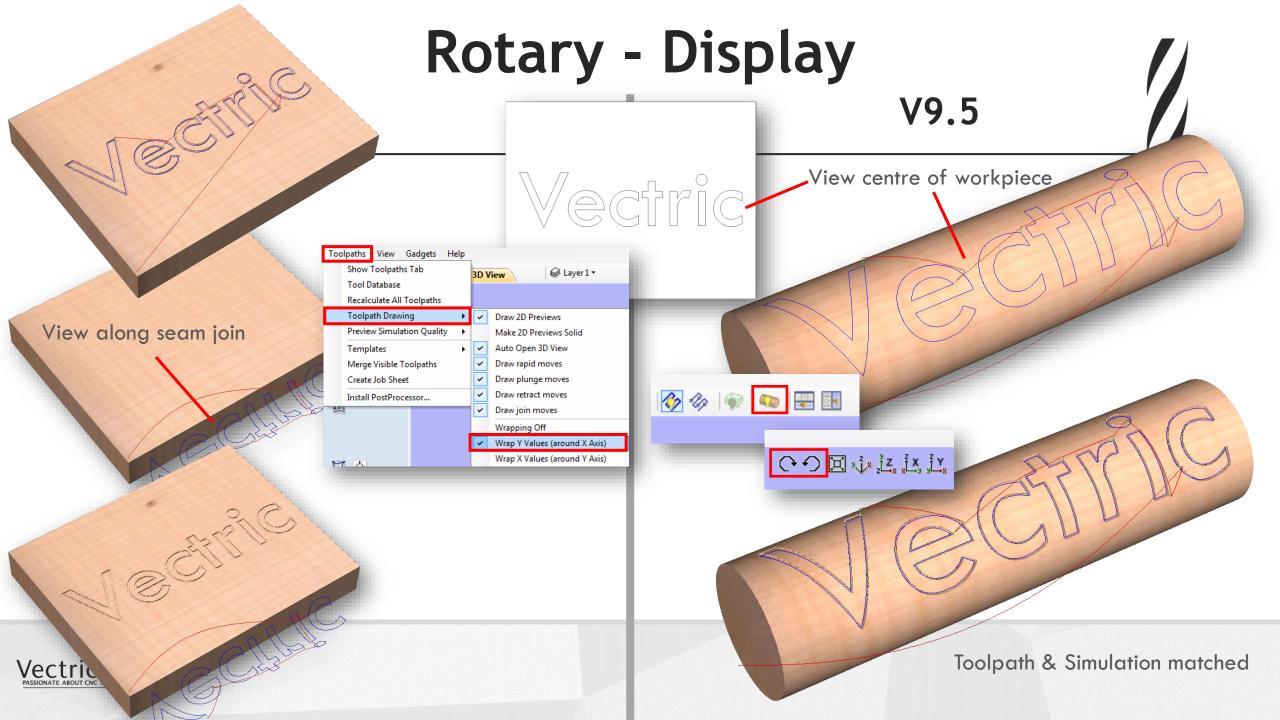


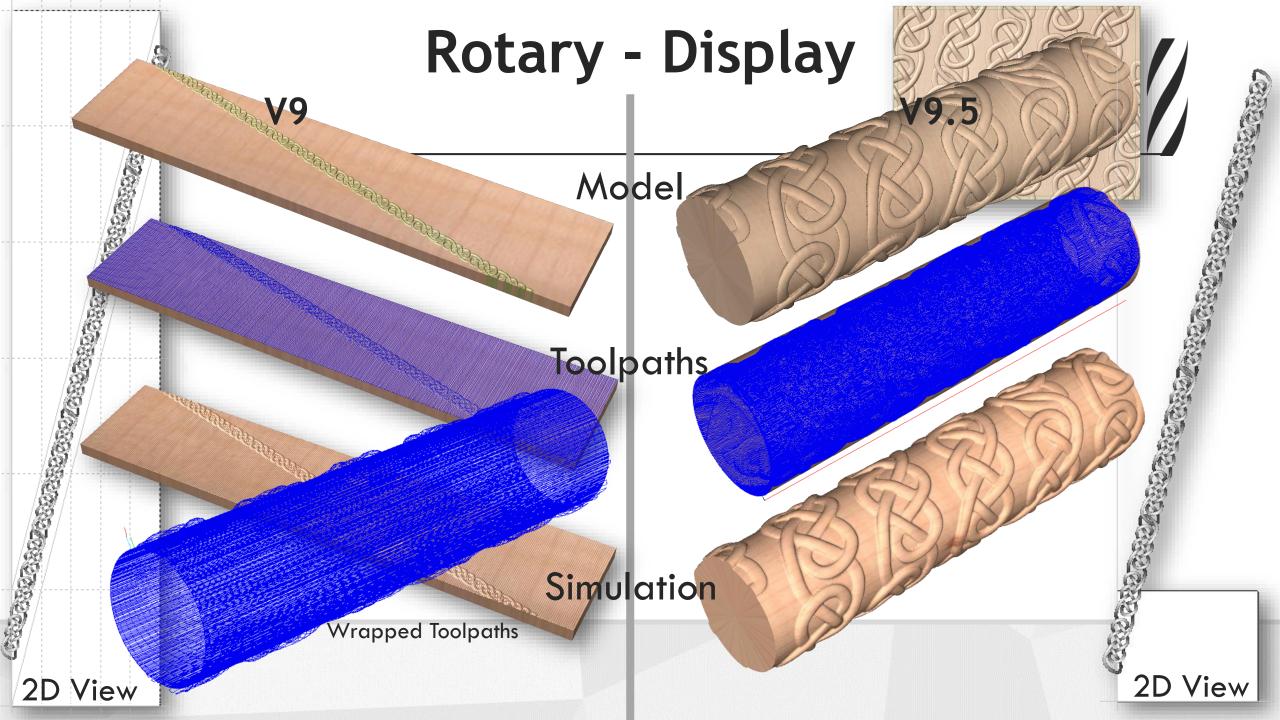
Vectric Simple Cylindrical Wrap OR Spiral Wrap Layout

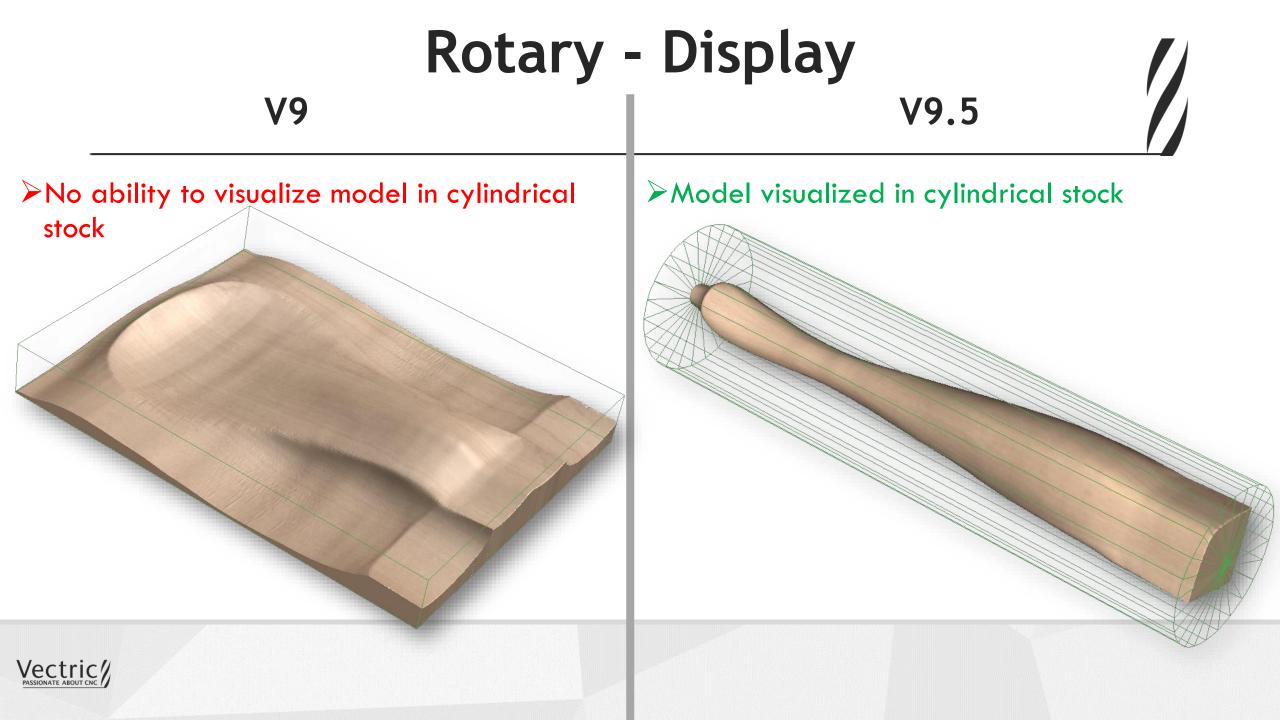
Rotary - Disnlay

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 	 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 	
 Wrapped seam faces screen Requires rotation to see full design Cannot visualize model in cylindrical stock 	 Model centre faces screen rather than seam Easy to visualize cylindrical stock in relation to model 	









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Text Editing

- **V9 V9.5** Text box shows start, height and alignment First placed after completion >Text displayed as soon as first letter ➢No dynamic modification − change entered parameters and then 'Apply' >Dynamic modification – no need to 'Apply' to see change \succ Transformations to text are reset when \succ Transformation to text maintained when editing text content editing text content: \circ **Rotation** • Wrapping along a curve ○ Kerning
 - Non proportional scaling
 - $\circ \, \text{Mirroring}$



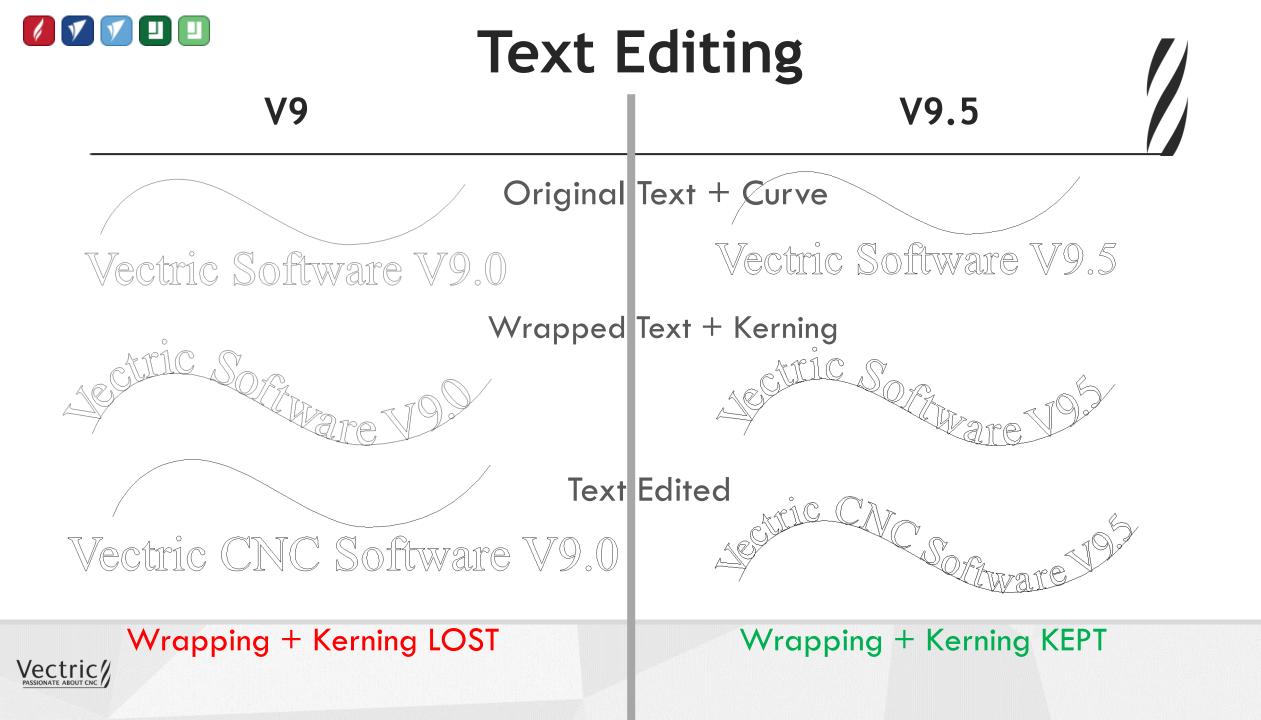


Image Editing		
V9	V9.5	
 No ability to crop an image No ability to edit image colour properties 	 Ability to crop an image to a vector Ability to change: Brightness/Contrast/Gamma Greyscale 	
	 Add border Rectangular/Oval Ideal for Lithiphanes Laser picture 	
Vectric //		

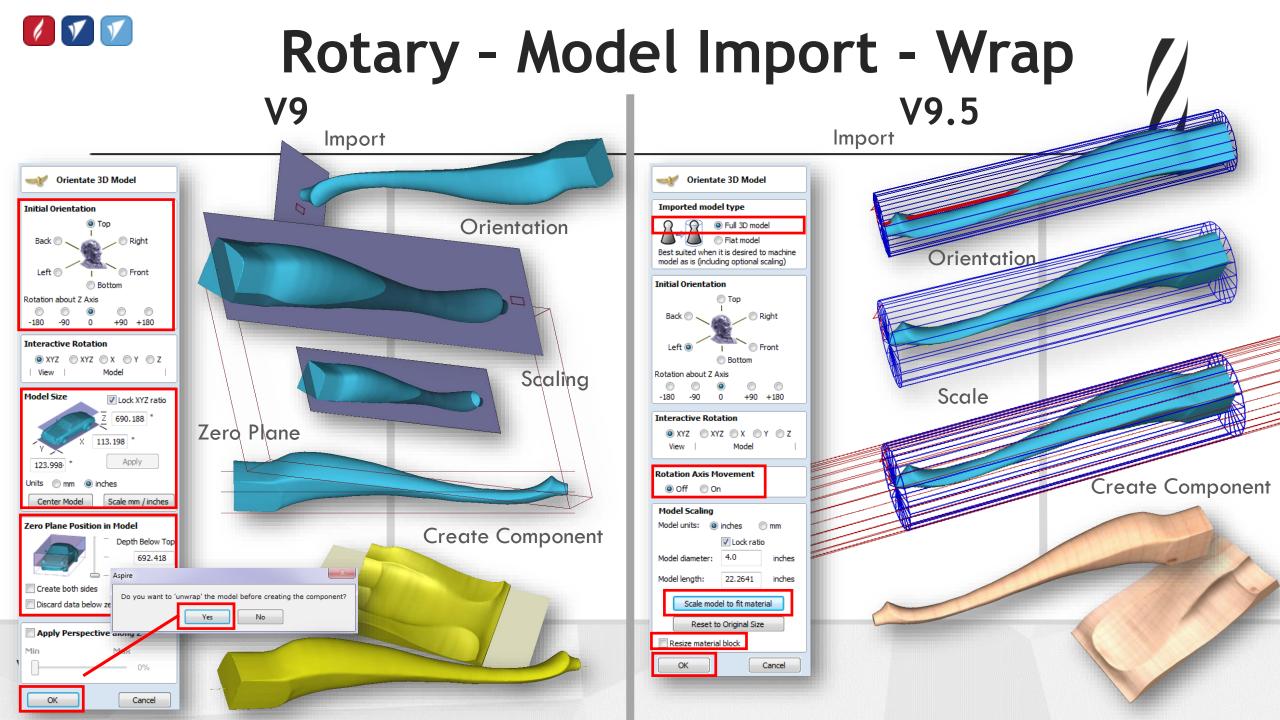
AM

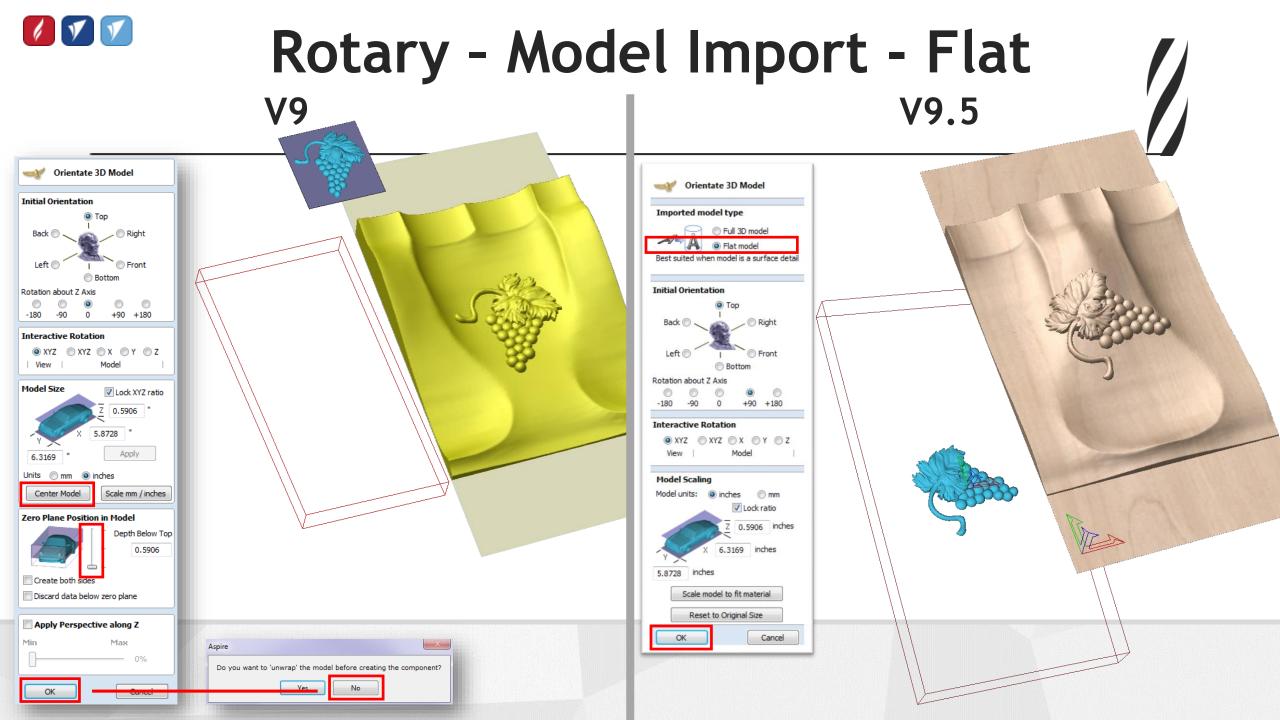


Rotary - Model Import

Rotary - Model Import		
V9	V9.5	
 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 V9 V9.5 >No ability to export wrapped model >Full3D wrapped model can be exported



Rotary Machining -

V9

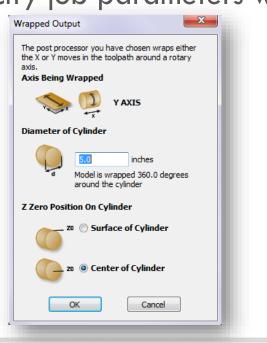
V9.5

NO support for G93

 \odot Indifferent finish quality

>Have to specify job parameters when post





➢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 Ramos

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Helical Ramps		
V9	V9.5	
Helical ramps are output as a series of straight line moves o Can create a large tap file	 Helical ramps are output as arcs Requires an updated post-processor 	
	+ Commands output for clockwise helical arc move	
	begin CW_HELICAL_ARC_MOVE "G2[X][Y][Z][I][J]"	
	++ Commands output for first clockwise helical arc move	
	begin FIRST_CW_HELICAL_ARC_MOVE "G2[X][Y][Z][I][J][F]"	
	++ Commands output for ccw helical arc move	
	begin CCW_HELICAL_ARC_MOVE	
	"G3[X][Y][Z][I][J]"	
	+ Commands output for ccw helical arc move	
	begin FIRST_CCW_HELICAL_ARC_MOVE	
	"G3[X][Y][Z][I][J][F]"	

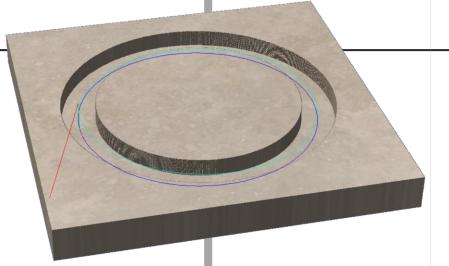
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Vectric

Helical Ramps

V9

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



V9.5

T1M6 G17 G0Z0.5000 G0X0.0000Y0.0000812000M3 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

482 Lines

18 Lines

What's New - V9.5

Group	Feature	1	V	P
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)			





Thank You