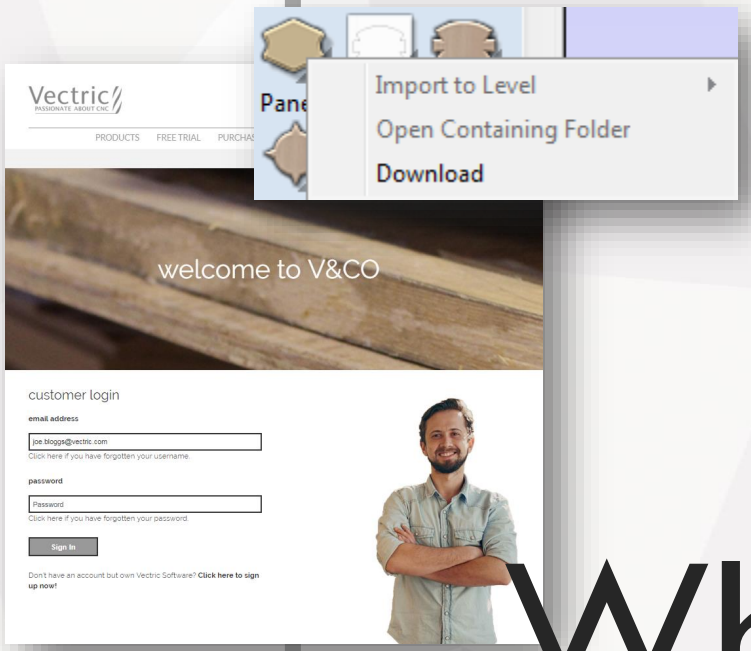

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Vectric CNC Software V9.5

What's New In Cut2D DesktopV9.5

What's New - V9.5

Group	Feature					
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

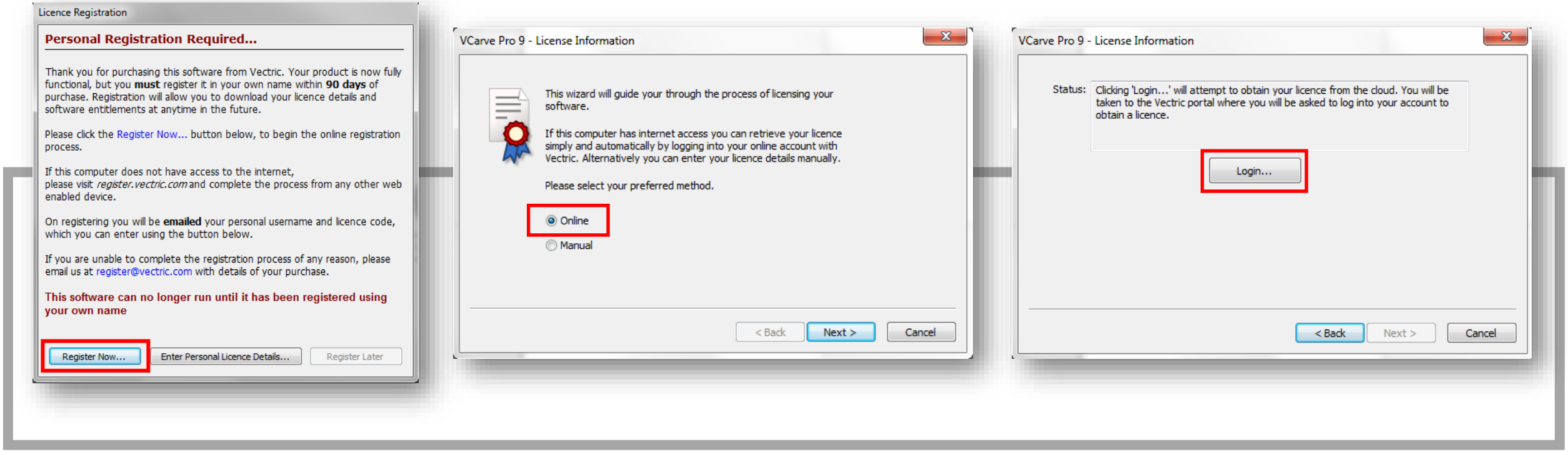
- Manual typed entry only

V9.5

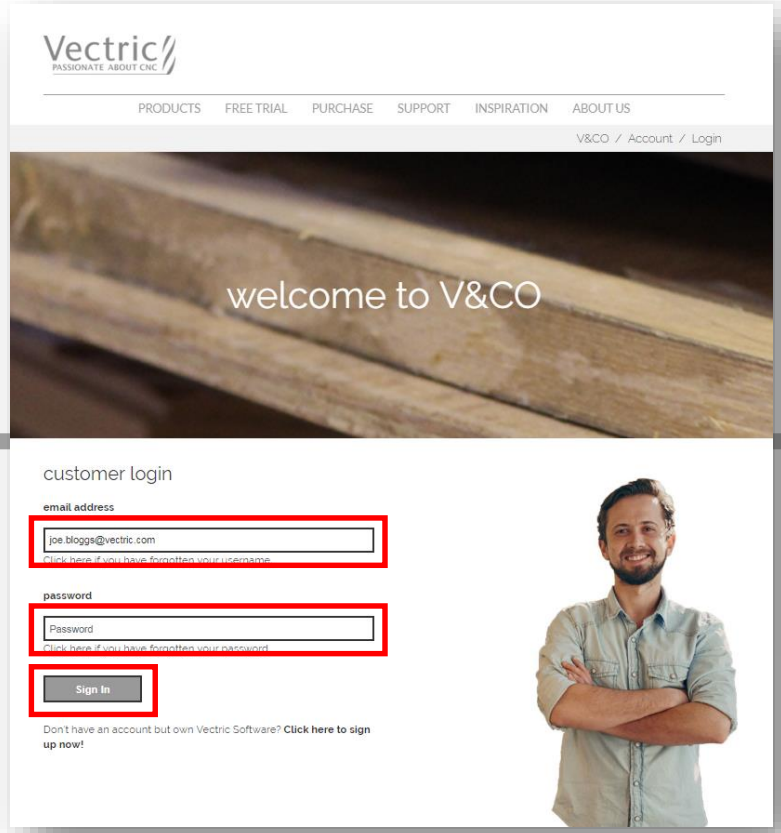
- Online extraction of license details
- No need for manual typing
  - Manual typing till an option

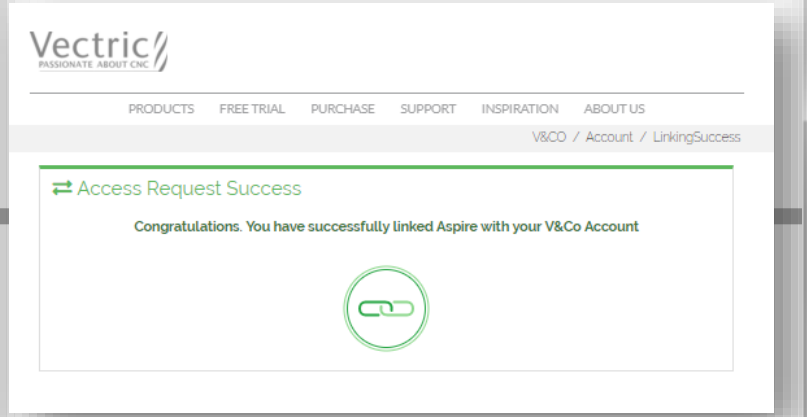
Auto-Licencing

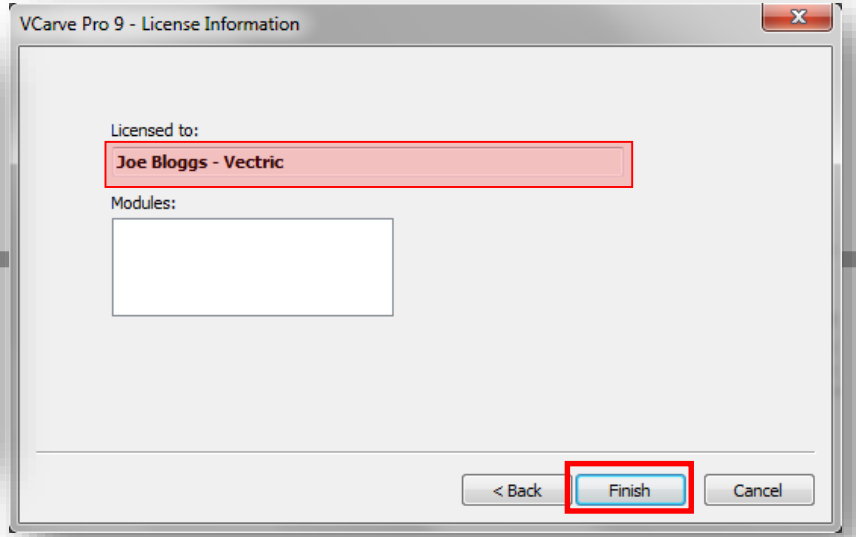
- On-line extraction and entry – via V&Co.



Auto-Licencing







Text Editing

V9

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

V9.5

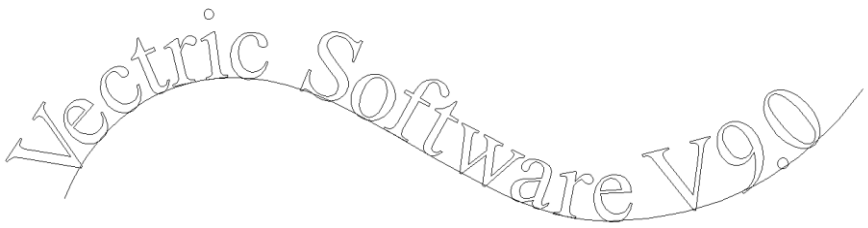
- Text box shows start, height and alignment
- Text displayed as soon as first letter entered
- Dynamic modification – no need to 'Apply' to see change
- Transformation to text maintained when editing text content:
  - Rotation
  - Wrapping along a curve
  - Kerning
  - Non proportional scaling
  - Mirroring

Text Editing

V9

Original Text + Curve

Wrapped Text + Kerning



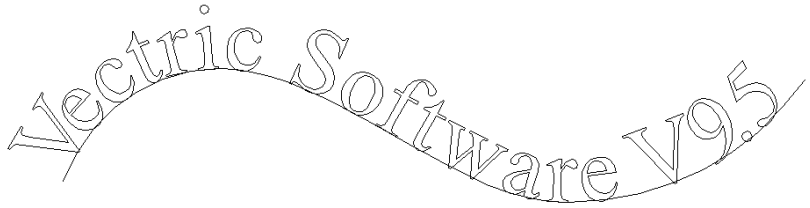
Text Edited

Wrapping + Kerning LOST

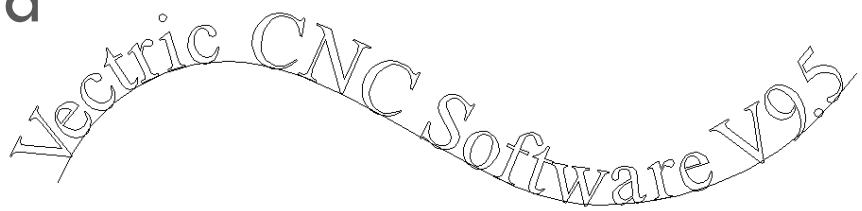
V9.5

Original Text + Curve

Wrapped Text + Kerning



Text Edited



Wrapping + Kerning KEPT

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Image Editing

V9

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

V9.5

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

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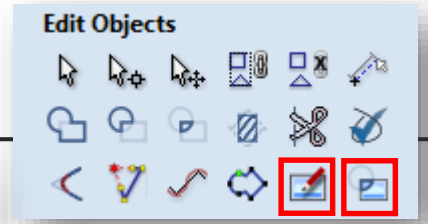
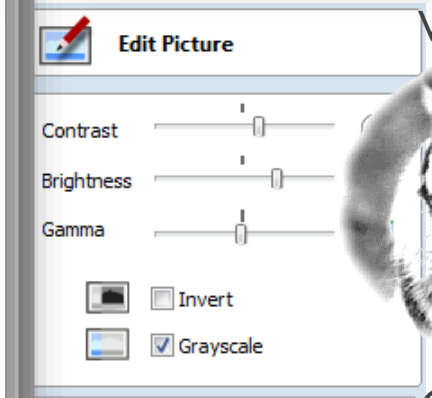
Image Editing

V9

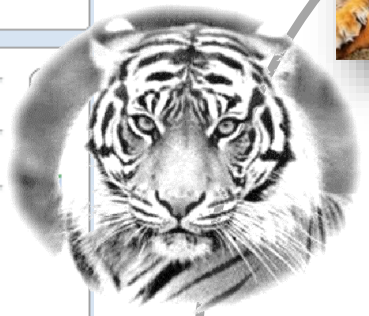
V9.5





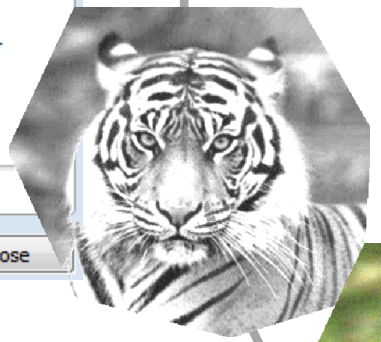
Original

With Border



Vector Border

Grey Scale



Trim

Brightness

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Helical Ramps

V9

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

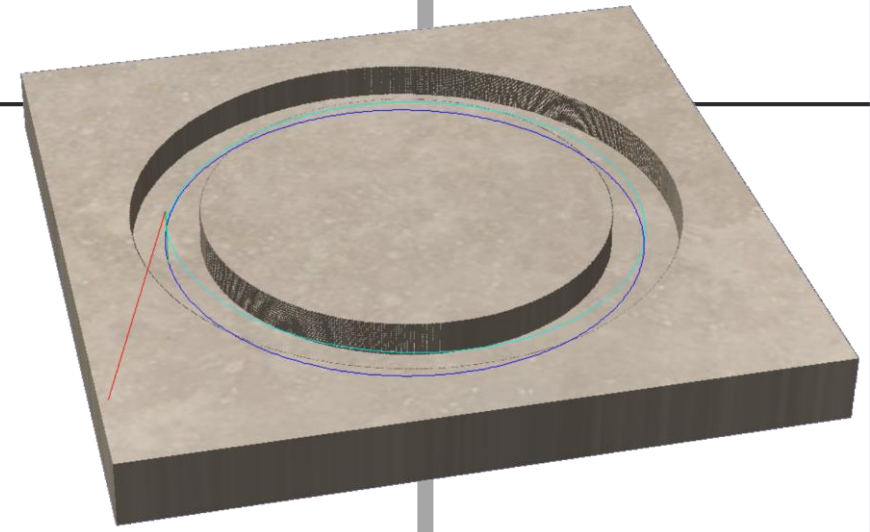
V9.5

- 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]"
```

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
```

482 Lines

V9.5

```
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
```

18 Lines

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What's New - V9.5

Group	Feature					
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)	●	●	●		

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Thank You