

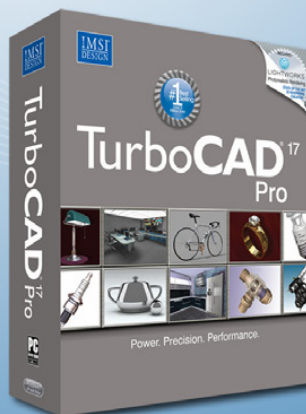
A skill that eludes many TurboCAD users is the one that allows them to place (wrap) images around cylindrical objects.

Like many things in TurboCAD it is really quite easy - when you how.

TurboCAD Pro Platinum is comprehensive, professional architectural and mechanical CAD software for drafting, detailing, and modeling. Robust, powerful tools provide greater control and flexibility. Advanced mechanical tools include parametric control over parts, 2D and 3D symbols, patterns, and constrained arrays. TurboCAD Pro Platinum also includes an integrated suite of architectural tools that are AutoCAD® Architecture compatible. These tools include compound walls, doors and windows with muntins, slabs, roofs, stairs, rails, schedules, and powerful section and elevation tools. Because of the breadth of mechanical and architectural tools, the Platinum Edition also is perfectly flexible for users whose projects cross disciplines.

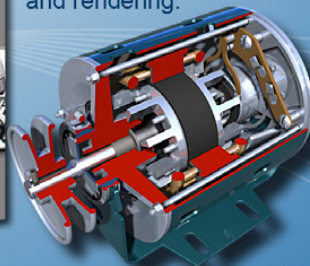


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System Requirements
In order to run TurboCAD® Pro 17, your system must have:

- Minimum:
- Pentium IV Processor
 - Microsoft® Windows XP, Microsoft® Vista, Windows 7
 - 300 MB of free hard disk space depending on access of swap space
 - Super VGA (1024 x768) display
 - High Color (16 bit) graphics card
 - DVD-ROM drive
 - Adobe Reader v6 or higher. Recommended v7 or higher

- Recommended:
- 2 GHz Processor, 2 GB RAM
 - 3D Graphics accelerator card
 - Wheel mouse
 - Internet connection
 - Microsoft® Internet Explorer™ required for Internet registration
 - Macromedia® Flash™ plug-in required for on-line tutorials

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← **Top created by revolving a 2D profile**

Although the procedure is the same for most instances of cylindrical wrapping, there are several approaches that can be used to achieve a variety of results.

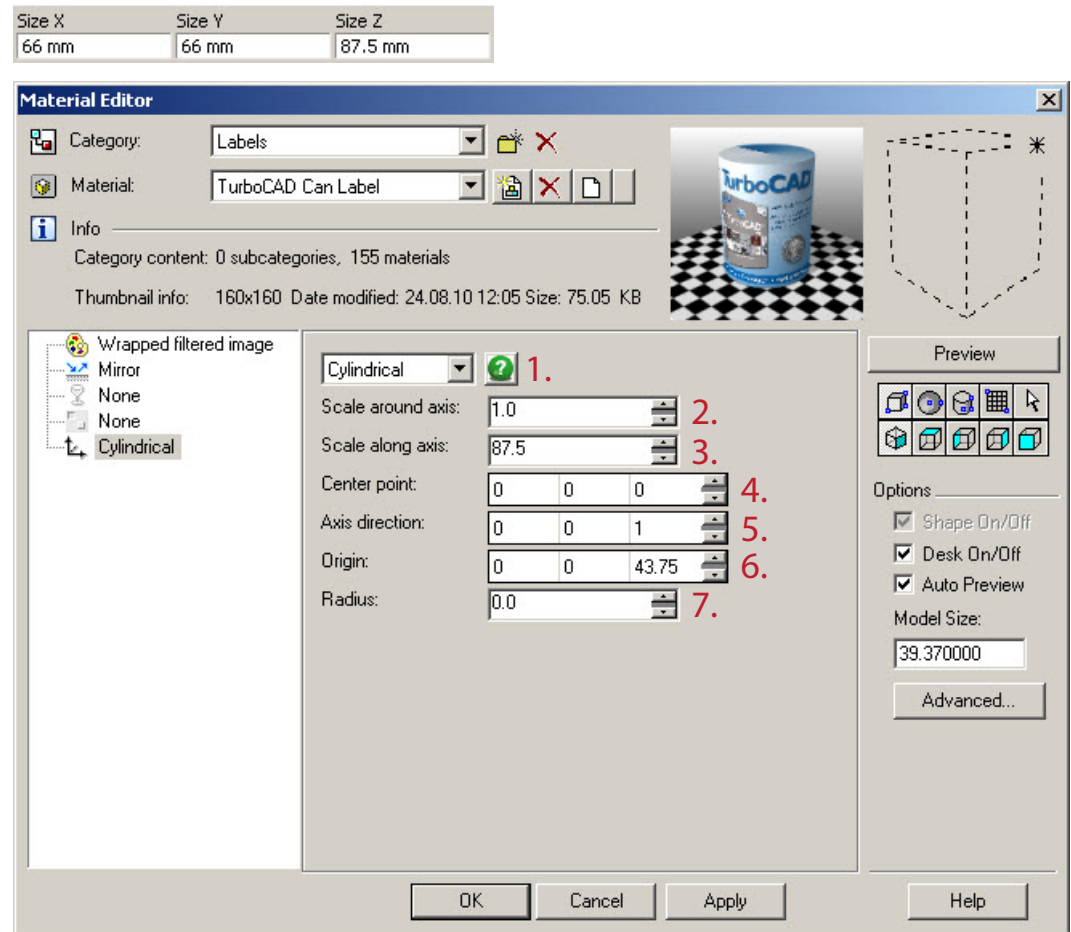
The simplest approach is to create a separate cylinder for the part that receives the wrap, as illustrated to the left.

← **Center created with the Cylinder tool**

← **Bottom created by revolving a 2D profile**

What does it all mean?

1. Cylindrical is the style of wrapping that is used in this case.
2. This number specifies how many times the image will be wrapped around the cylinder. 1 = one time, .5 = two times, .25 = four times, etc.
3. Scale along axis is the height of the object in drawing units. In this case the cylinder is 87.5 mm high, so 87.5 drawing units.
4. These numbers specify the center point which is almost always 0,0,0.
5. These numbers specify the orientation of the image (up, down, angled, etc.).
6. Origin specifies where the image sits along the axis . In this case it is along the Z axis and generally half the height is placed in the last field (Z). $87.5 \div 2 = 43.75$ (older versions required this to be a negative number.)
7. This is one of those baffling fields and it can be left at 0.0. See the LightWorks help files if you want to be confused even further.



If a user is making their own images to wrap then they can be made to measure, as the saying goes. As mentioned on page 2, the cylinder has a diameter of 66 mm and a height of 87.5 mm. All images are of course flat, so if the cylinder (tin) were flattened the user would find the size to be 87.5 mm by 207.3451151369 mm. The circumference can be easily determined by creating a circle and watching the Inspector Bar.

The image below was create in Photoshop and saved in jpg format. It was then placed in a permanent location on the computer's hard drive and located through the Material Editor Properties dialogue when establishing the wrap.

Radius	Diameter	Circumf.
33 mm	66	207.3451151369 mm

87.5 mm



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Recommended:

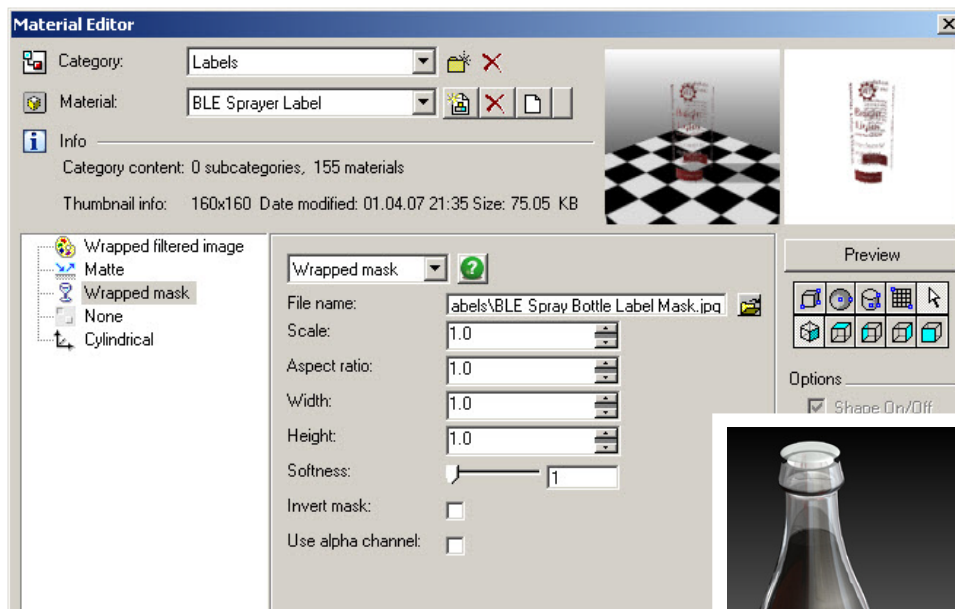
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207.35 mm

Another approach utilizes a wrapped image mask where only specific parts of the label are visible over the cylinder-like object, as with the lens cleaner solution.



Label

Mask



Another approach has the image wrapped on a completely separate hollow cylinder-like object, much like the label is wrapped around the Coke bottle illustrated above.