

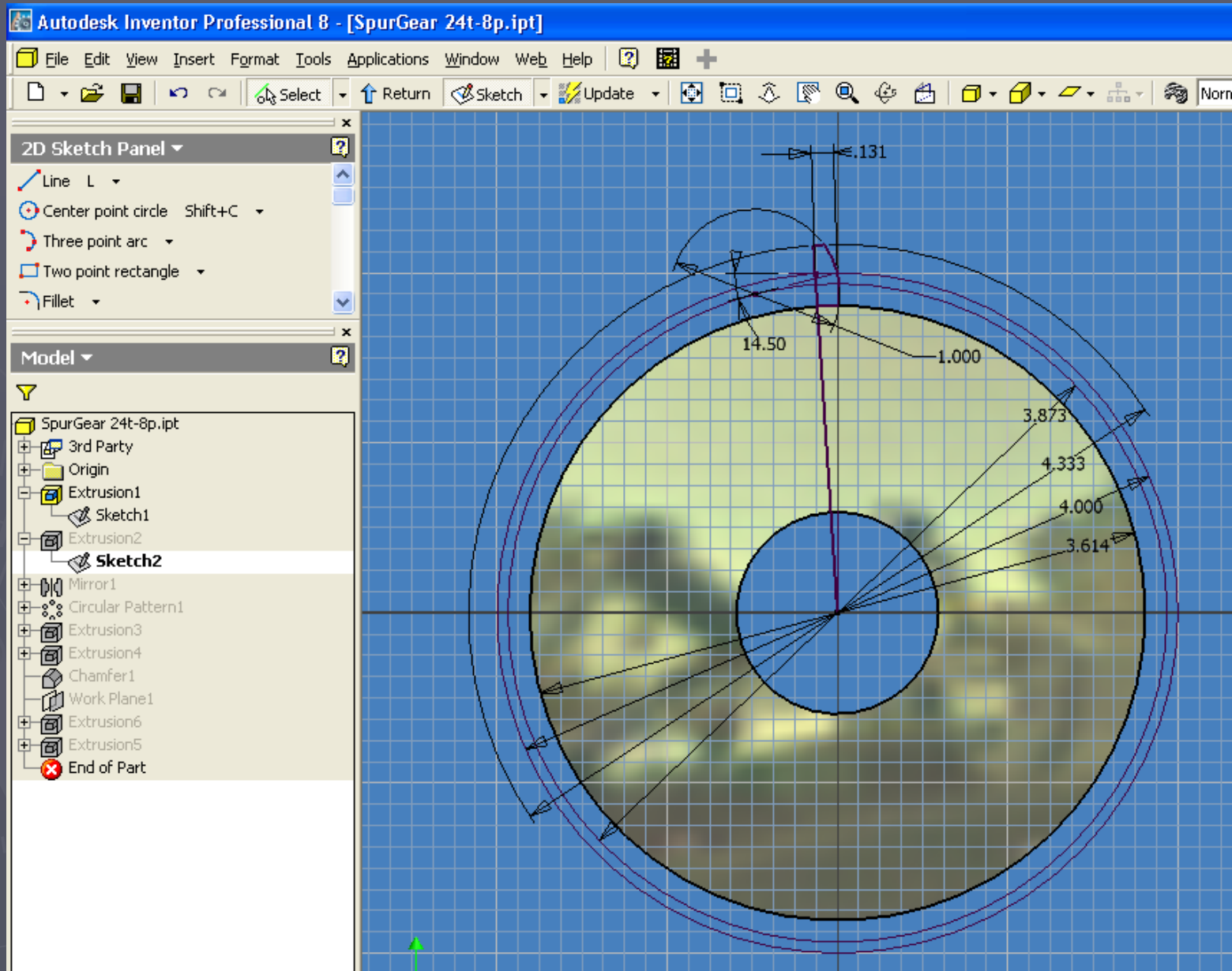
3-D Solid Modeling

SCC Engineering Technologies

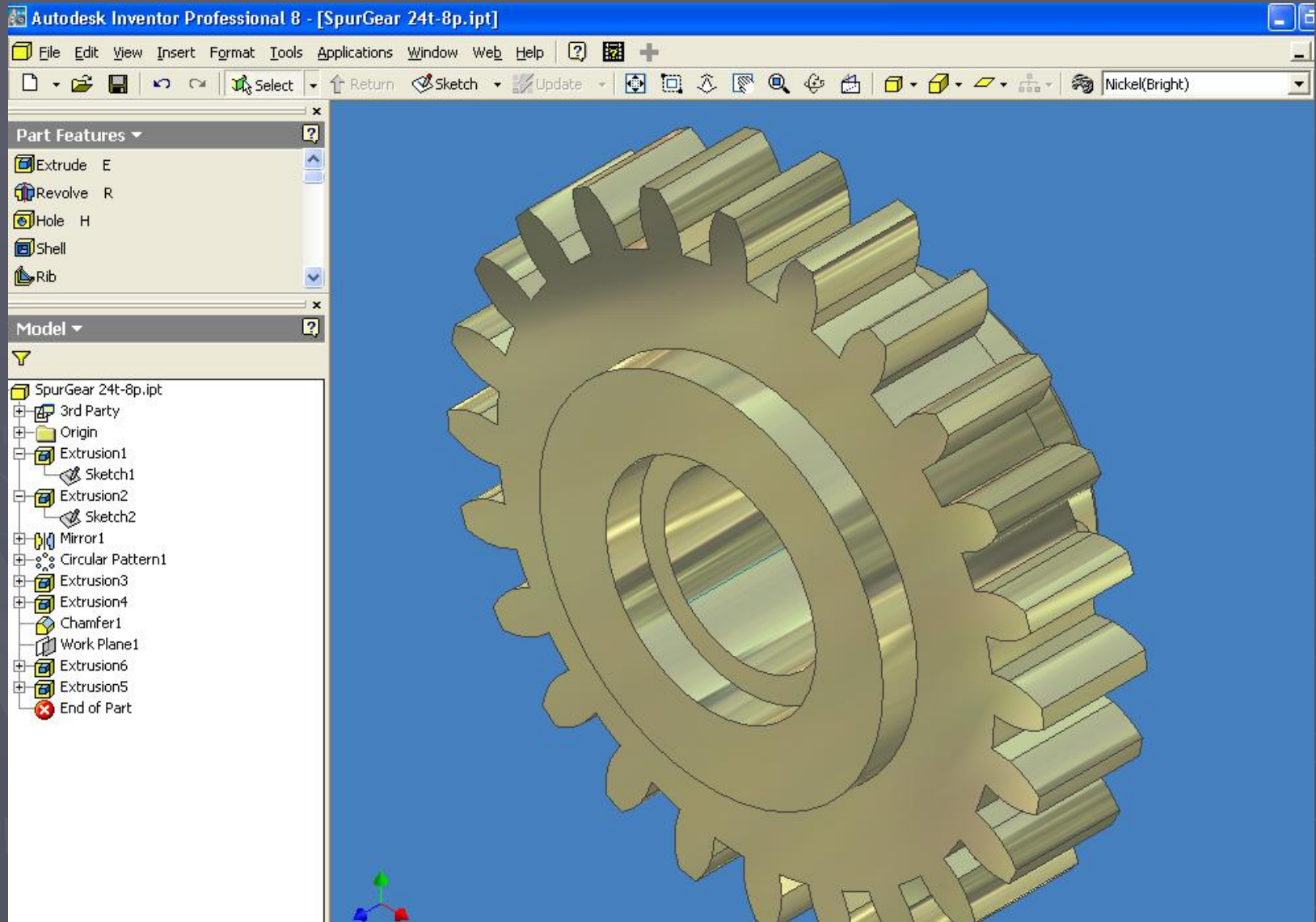
Creating a Solid Model Part

- ▶ There are five basic steps to create a solid printed part:
 - 2-Dimensional sketch in CAD
 - 3-Dimensional Part file in CAD
 - Translate the CAD file to a Solid Printer file
 - Develop Tool Path file for the 3D Printer
 - Print the final part in Solid ABS Plastic

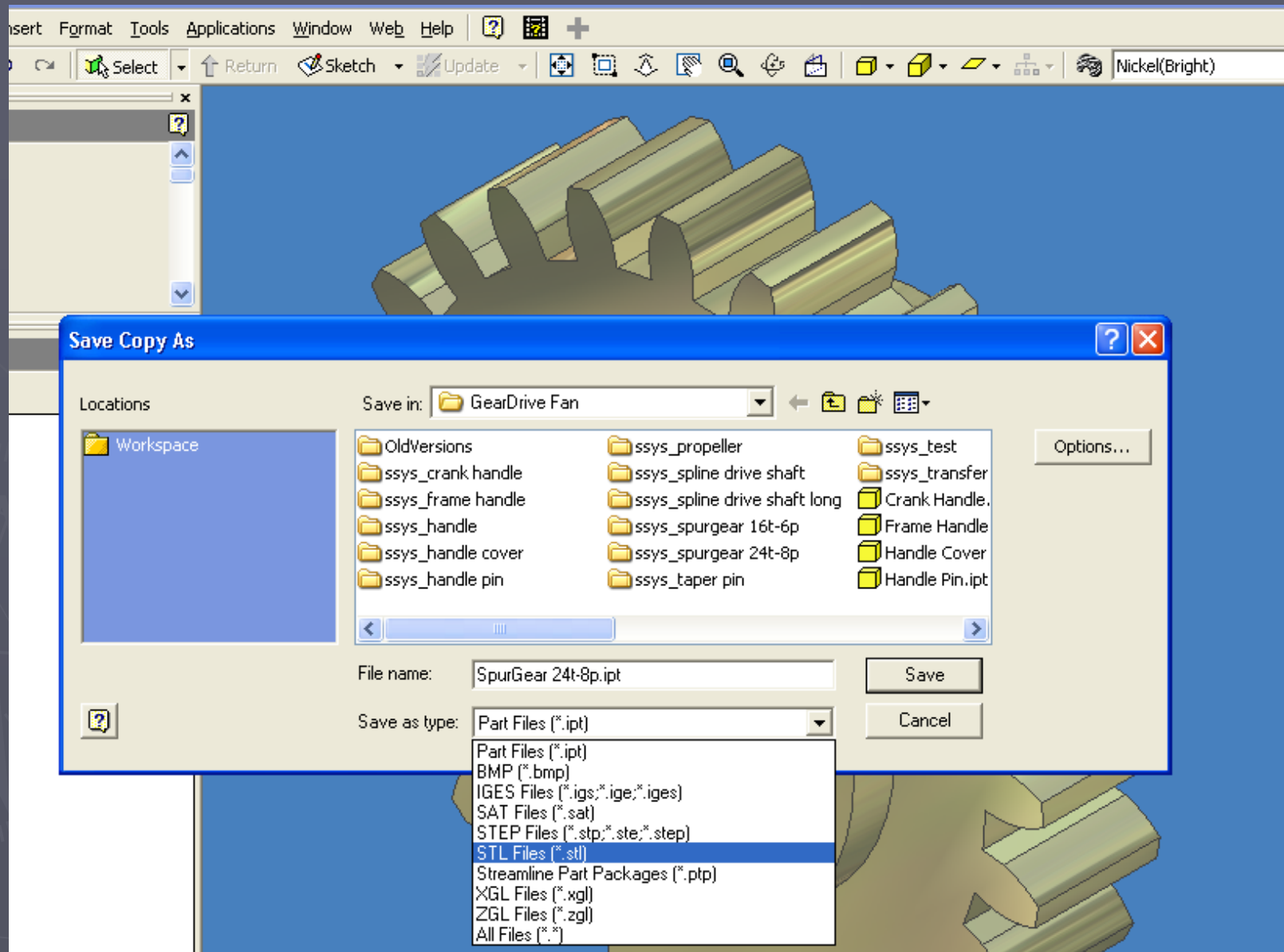
The 2D Sketch



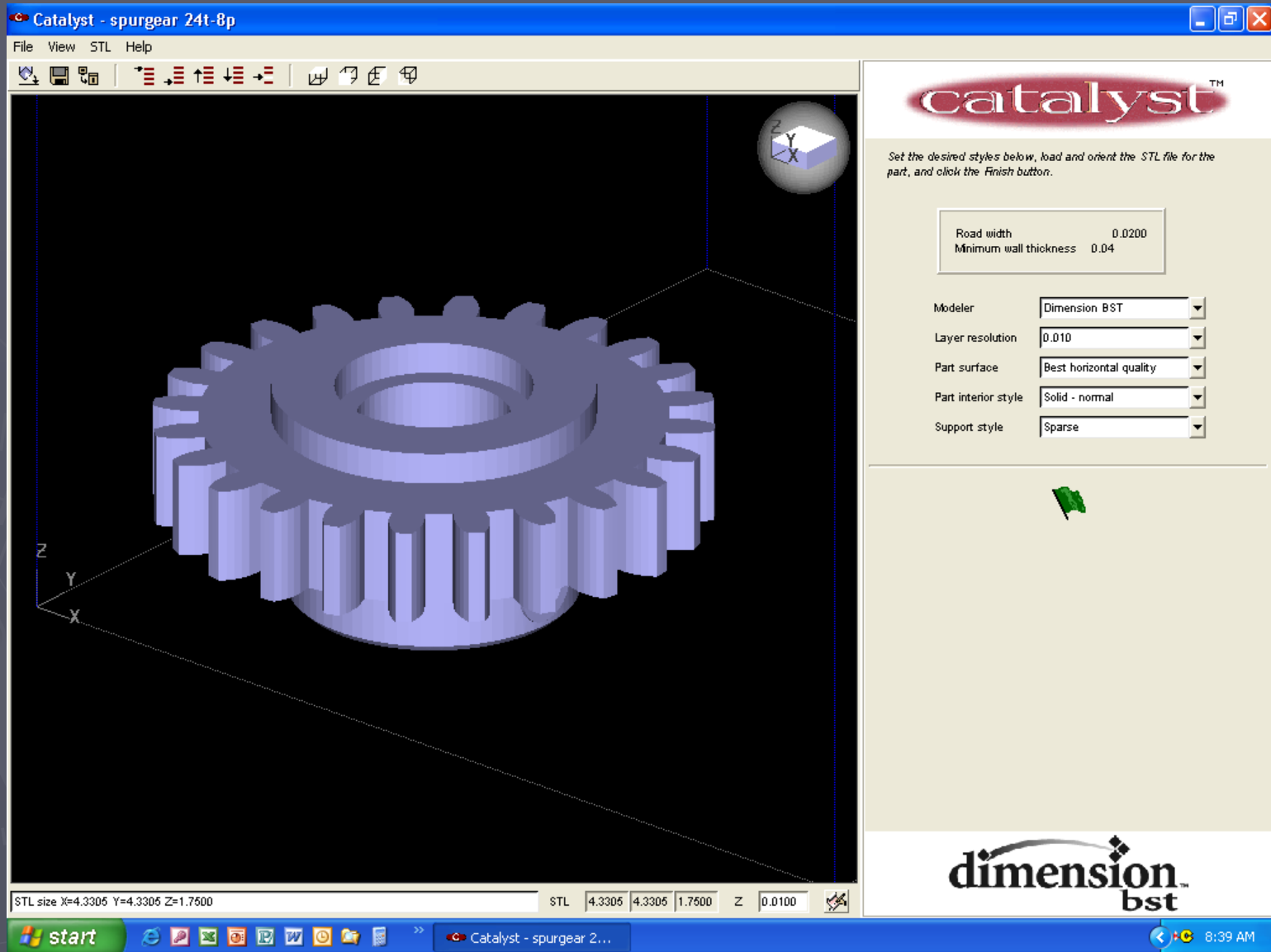
The Part Extruded into 3D



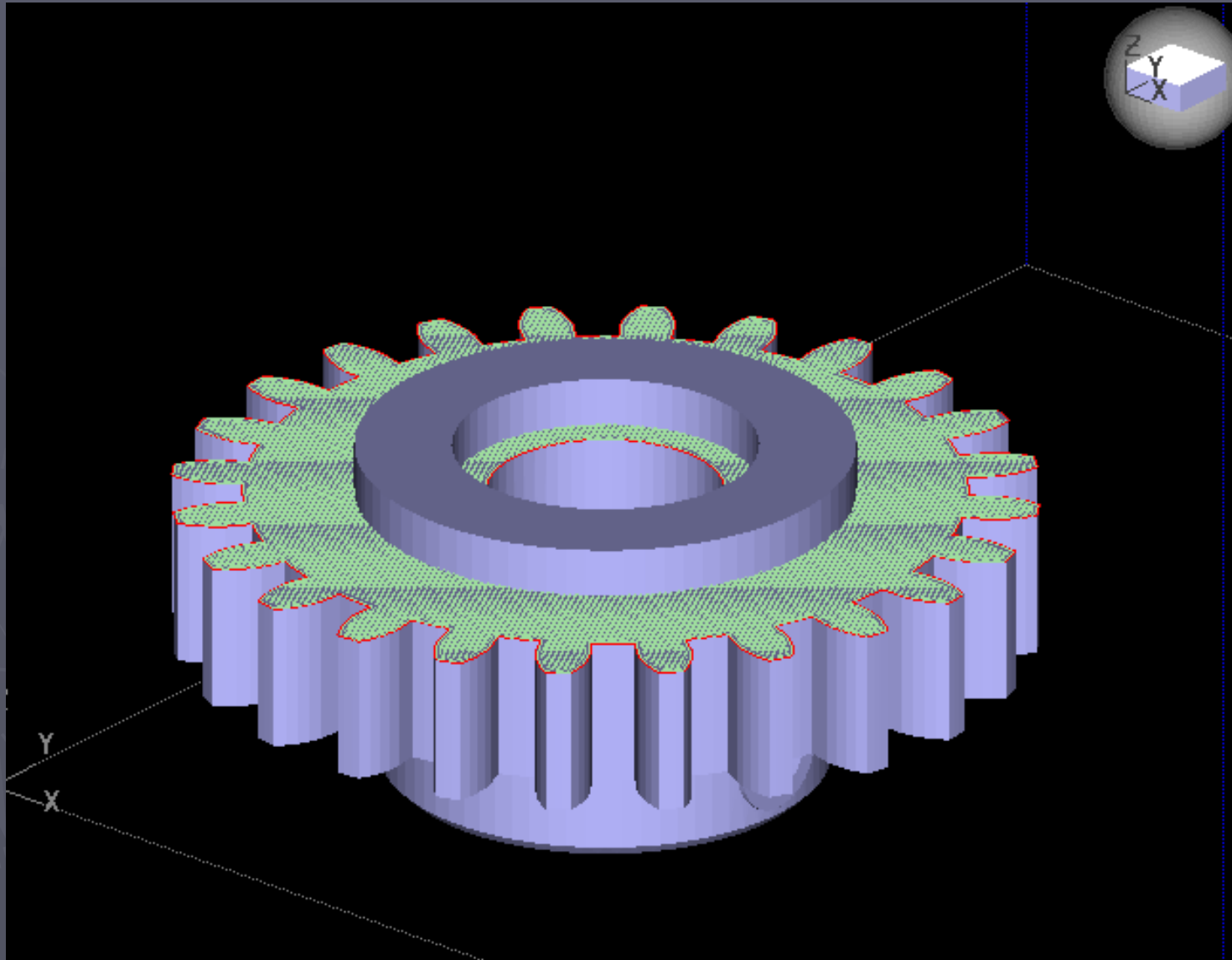
Translated into Printer format



Load into 3D Printer Software



Develop 3D Tool Paths



Print the 3D Part in ABS Plastic








modeler01 Status

Modelers Help

Building

Current modeler: modeler01
Modeler: Dimension BST
Job name: SCC_Logo_Body
Elapsed time: 27 min (6%)
Time remaining: 6 hr 2 min
Percent complete: 6%

modeler01 Status Details

Detailed status: Building

Job name: SCC_Logo_Body

Start time: 18 Mar 2005 07:26
Elapsed time: 27 min (6%)
Time remaining: 6 hr 2 min





Temperatures

	Current	Set point
Head	269.0000° C	270.0000° C
Envelope	75.0000° C	75.0000° C

Material

	Remaining on spool	Remaining for part	Total for part
Model	22.61 in*	2.72 in*	2.83 in*
Support	54.18 in*	0.98 in*	1.40 in*

☐ Low material

Final Part Printed and Assembled

