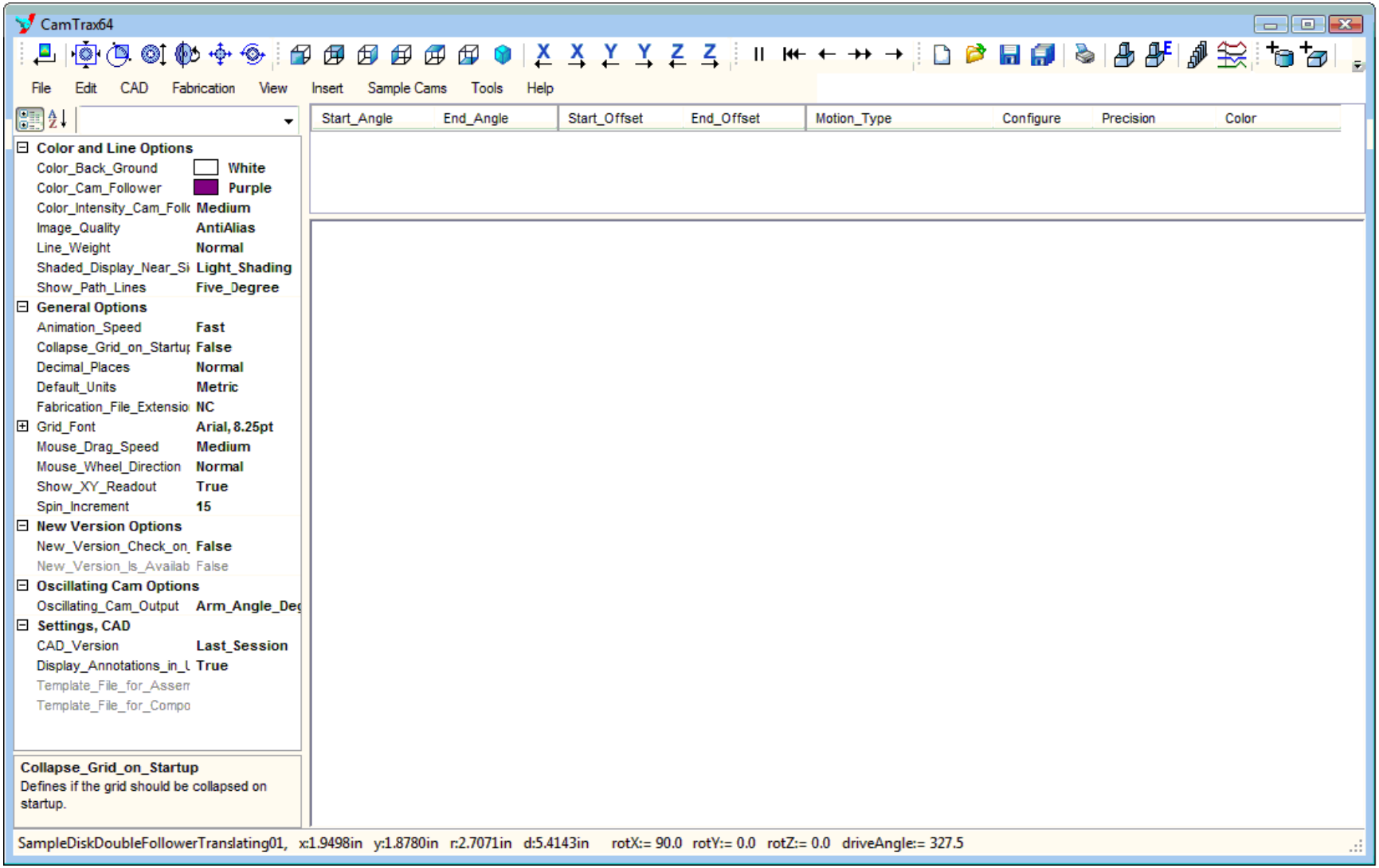
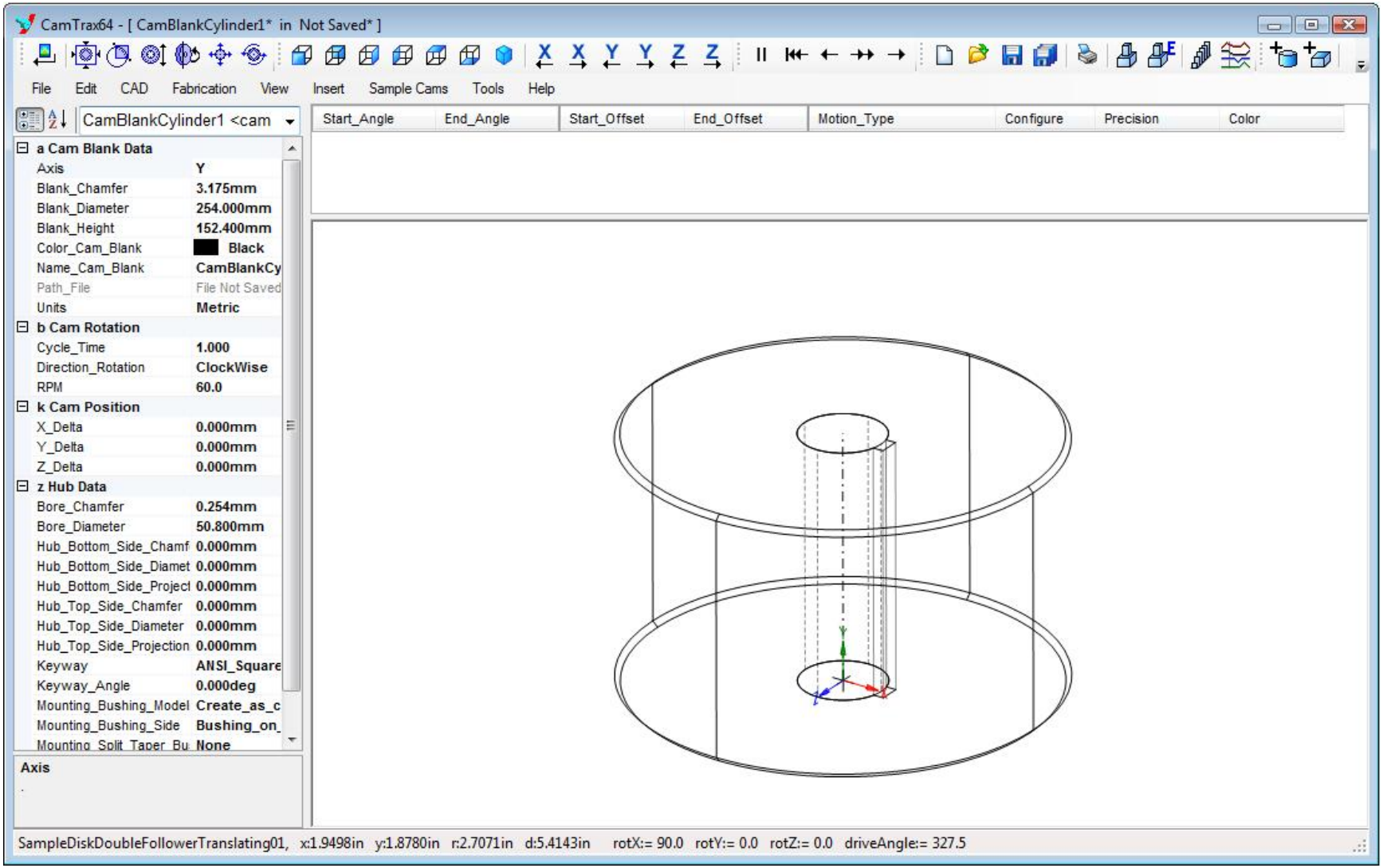
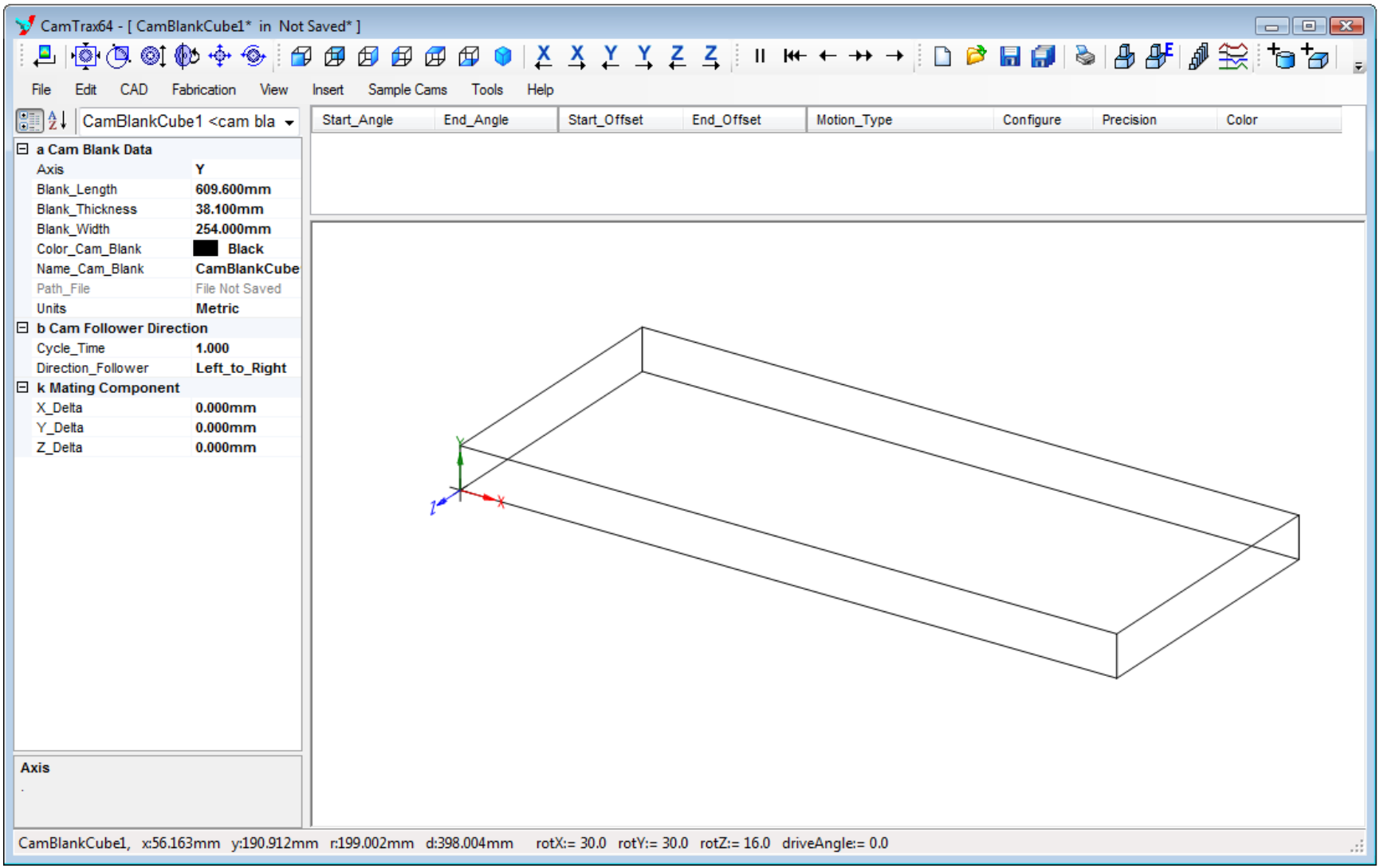

CamTrax64
File
Edit
CAD
Fabrication
View
Insert
Sample Cams
Tools
Help
Start_Angle
End_Angle
Start_Offset
End_Offset
Motion_Type
Configure
Precision
Color
Color and Line Options
Color_Back_Ground White
Color_Cam_Follower Purple
Color_Intensity_Cam_Follc Medium
Image_Quality AntiAlias
Line_Weight Normal
Shaded_Display_Near_Si Light_Shading
Show_Path_Lines Five_Degree
General Options
Animation_Speed Fast
Collapse_Grid_on_Startu False
Decimal_Places Normal
Default_Units Metric
Fabrication_File_Extensio NC
Grid_Font Arial, 8.25pt
Mouse_Drag_Speed Medium
Mouse_Wheel_Direction Normal
Show_XY_Readout True
Spin_Increment 15
New Version Options
New_Version_Check_on False
New_Version_Is_Availab False
Oscillating Cam Options
Oscillating_Cam_Output Arm_Angle_Deg
Settings, CAD
CAD_Version Last_Session
Display_Annotations_in_L True
Template_File_for_Assem
Template_File_for_Compo
Collapse_Grid_on_Startup
Defines if the grid should be collapsed on startup.
SampleDiskDoubleFollowerTranslating01, x:1.9498in y:1.8780in r:2.7071in d:5.4143in rotX:= 90.0 rotY:= 0.0 rotZ:= 0.0 driveAngle:= 327.5

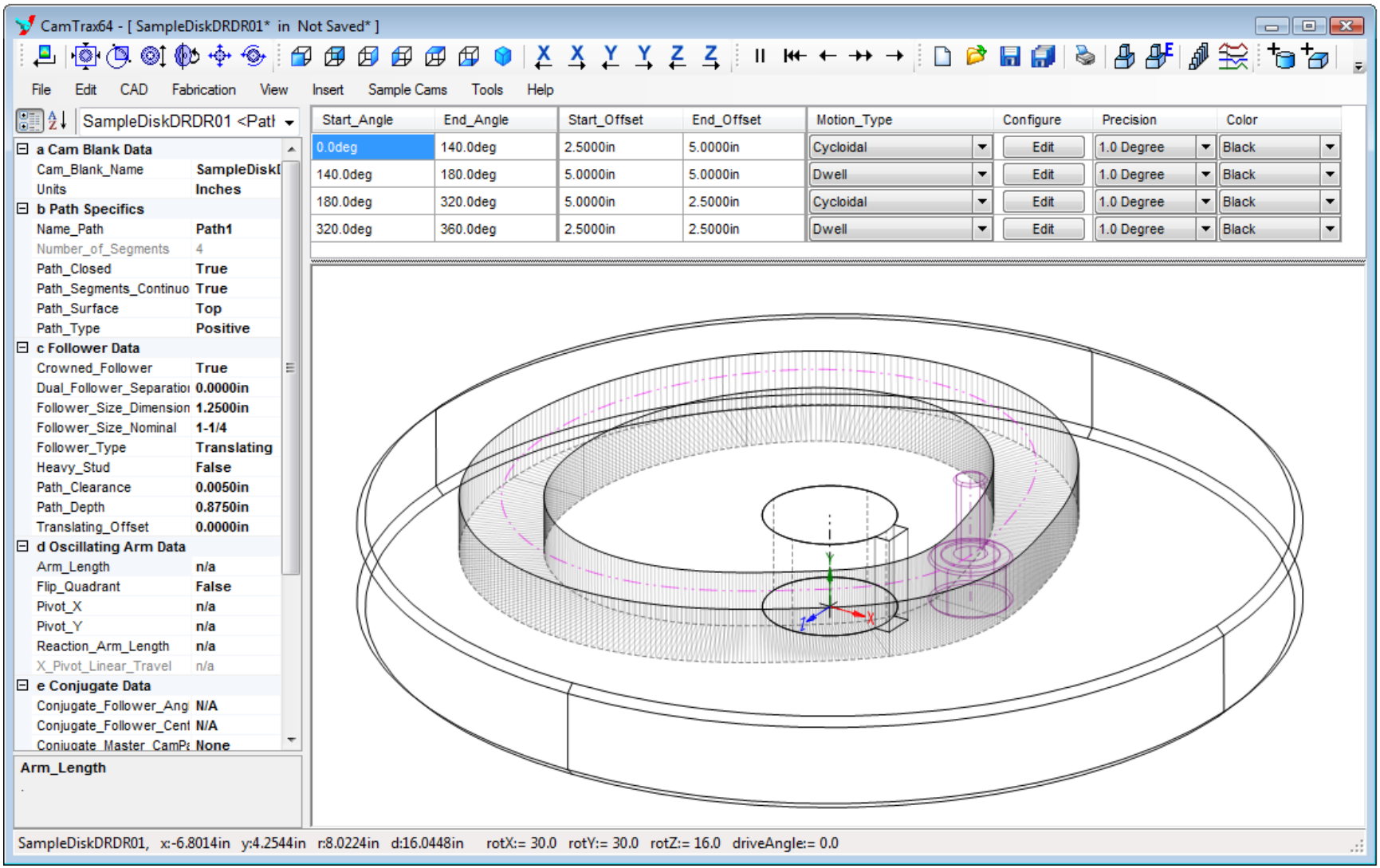
Options



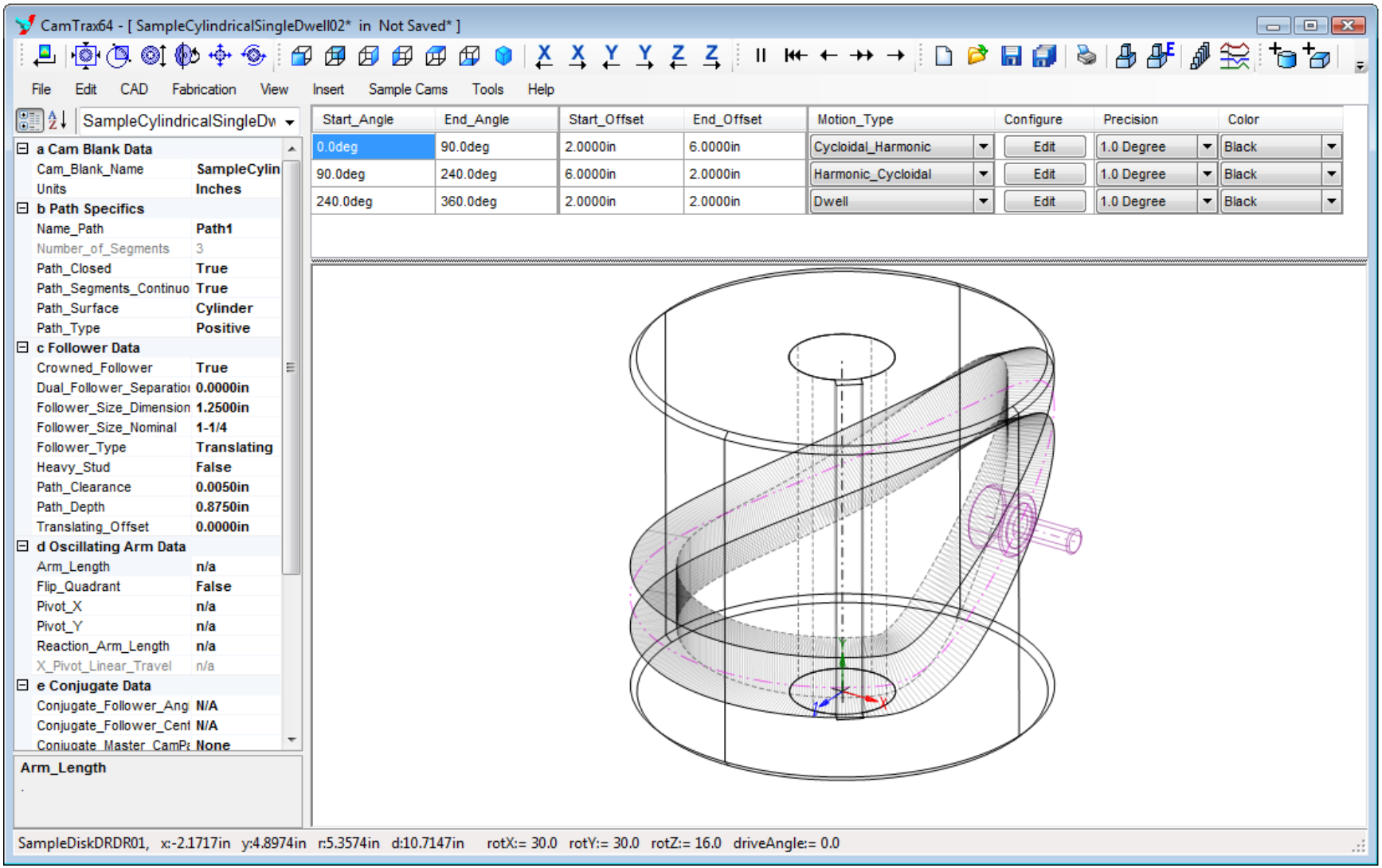
Cam Blank, Cylinder



Cam Blank, Cube



Dwell-Rise-Dwell-Return Sample Disk Cam



Single Dwell Cylindrical Cam

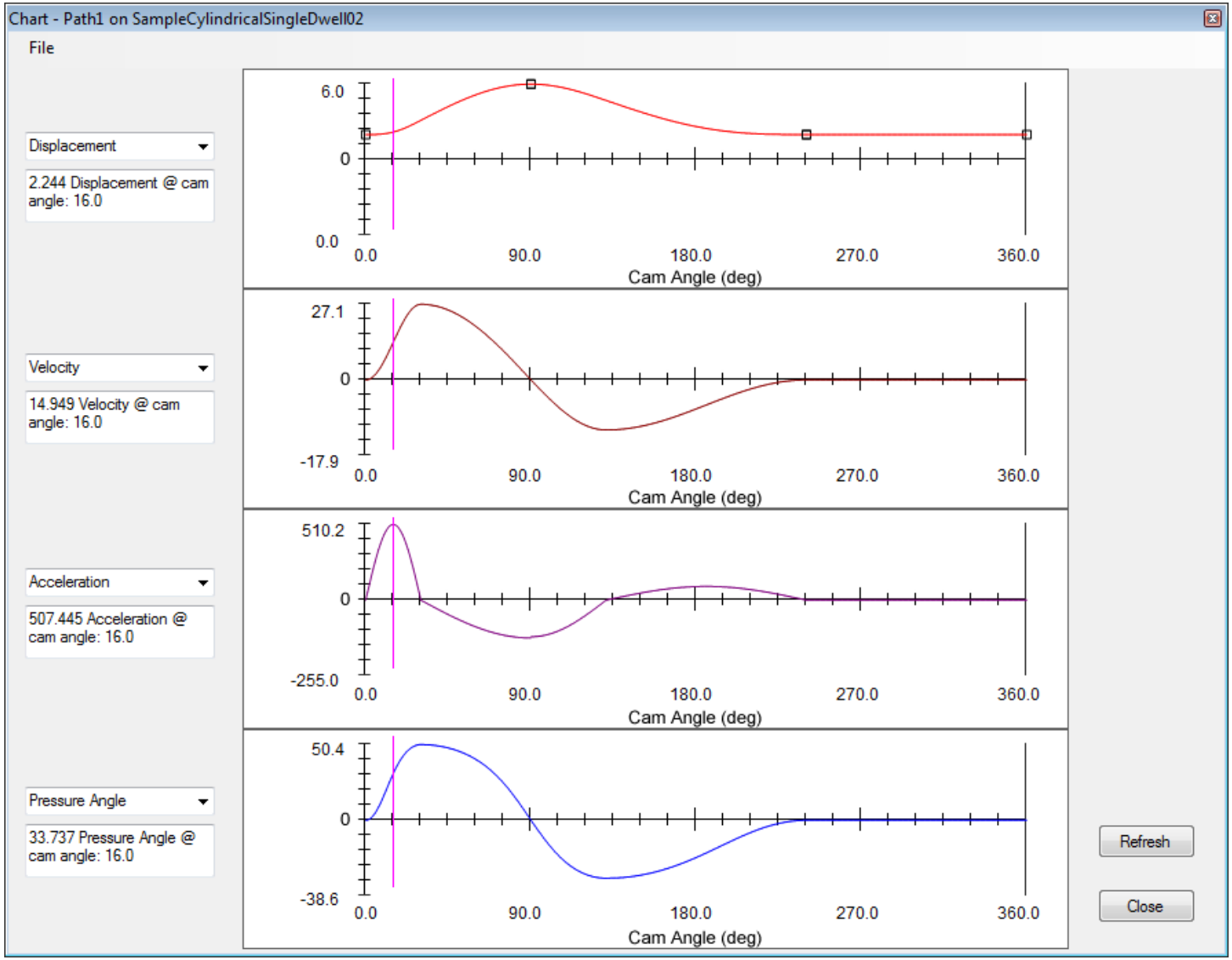
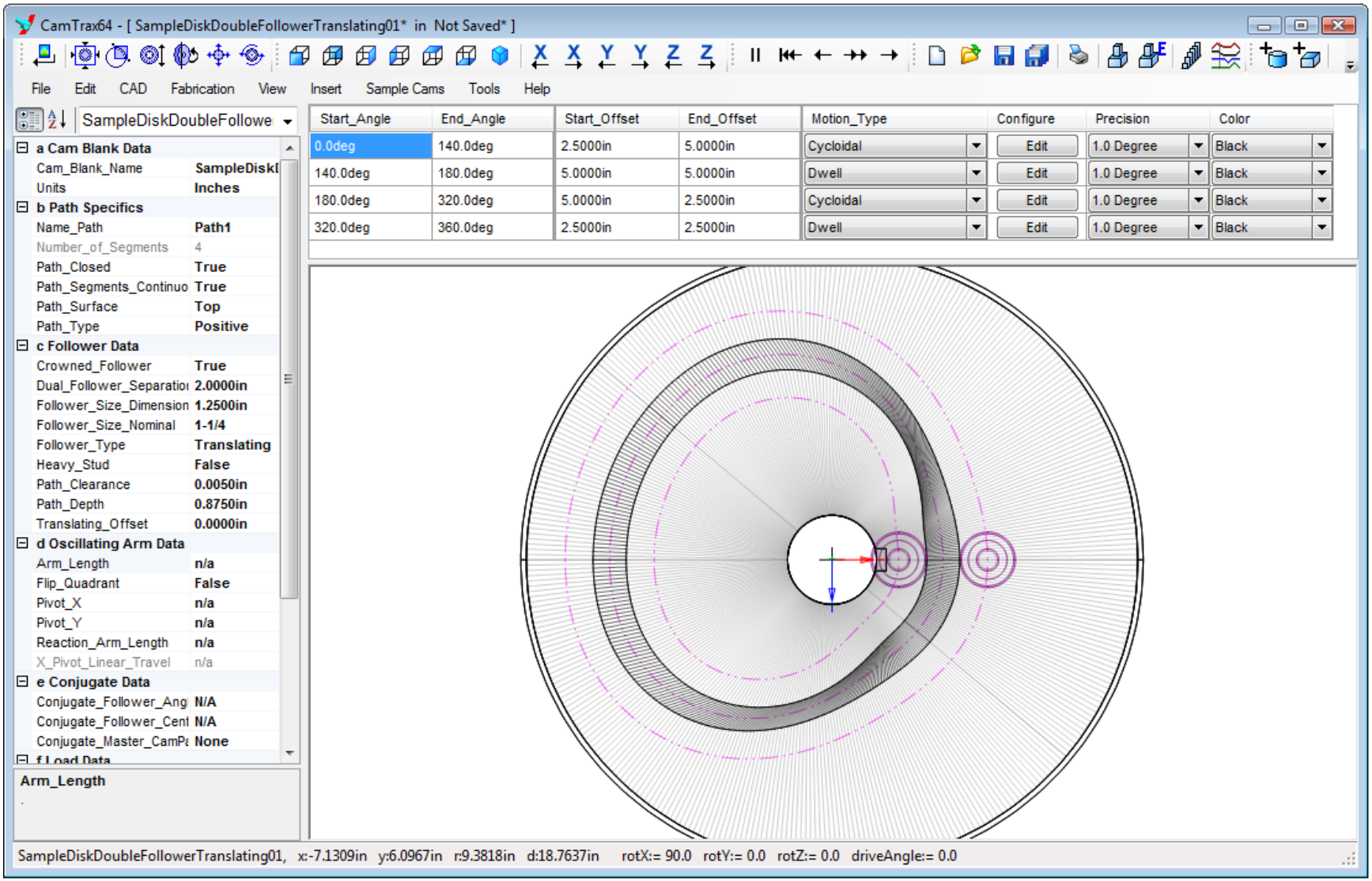
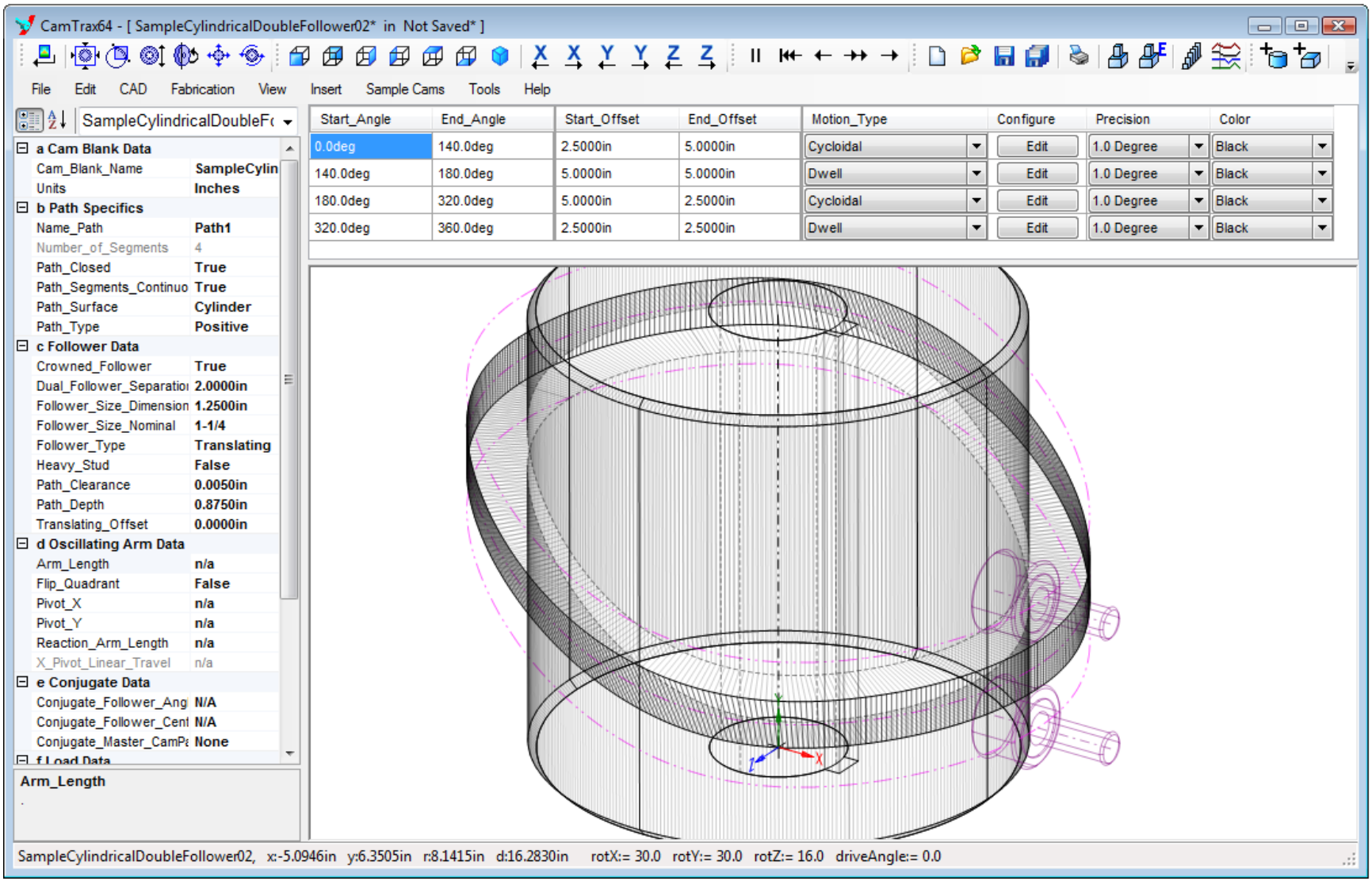


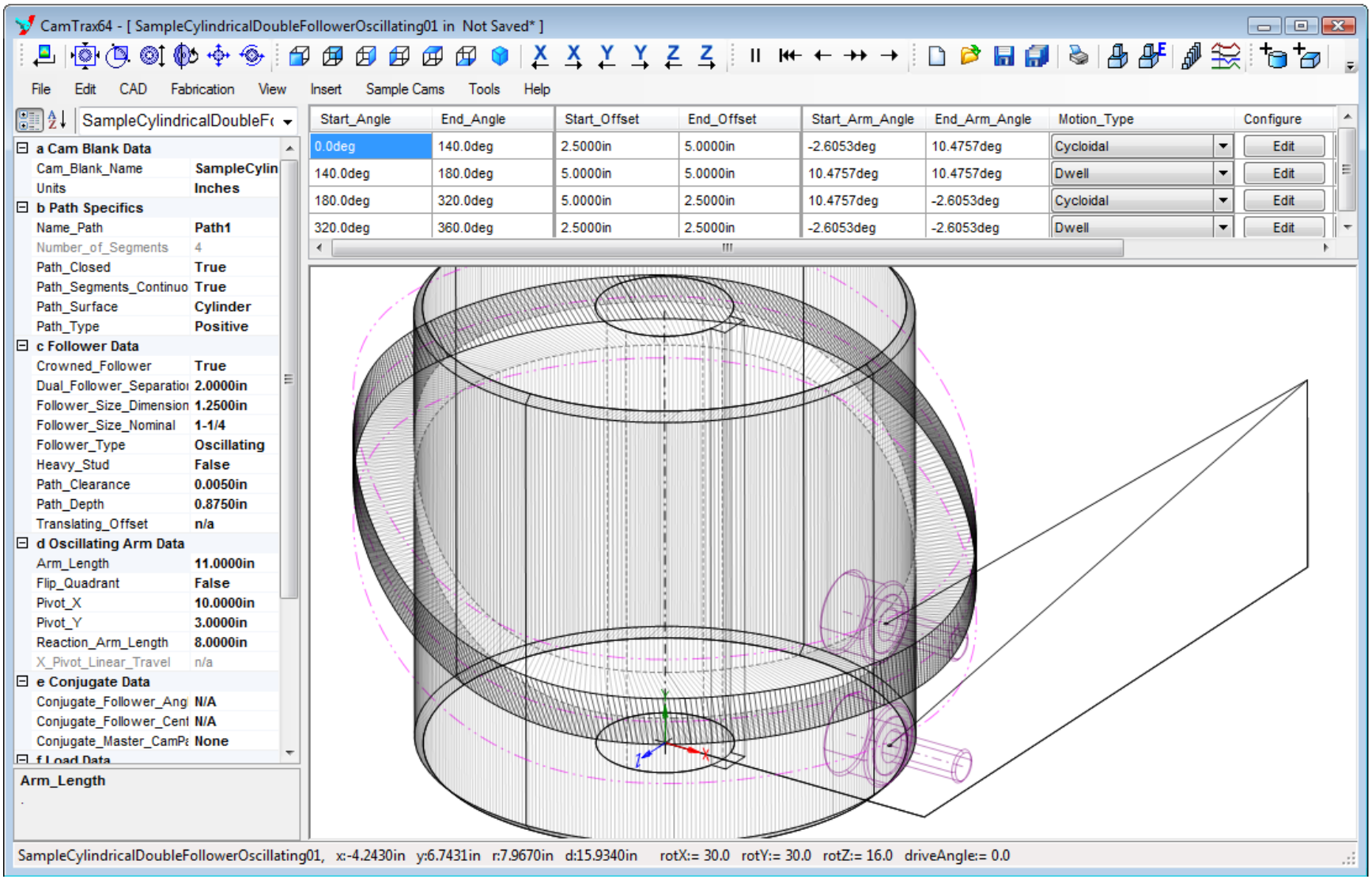
Chart of a Single Dwell Cam Path



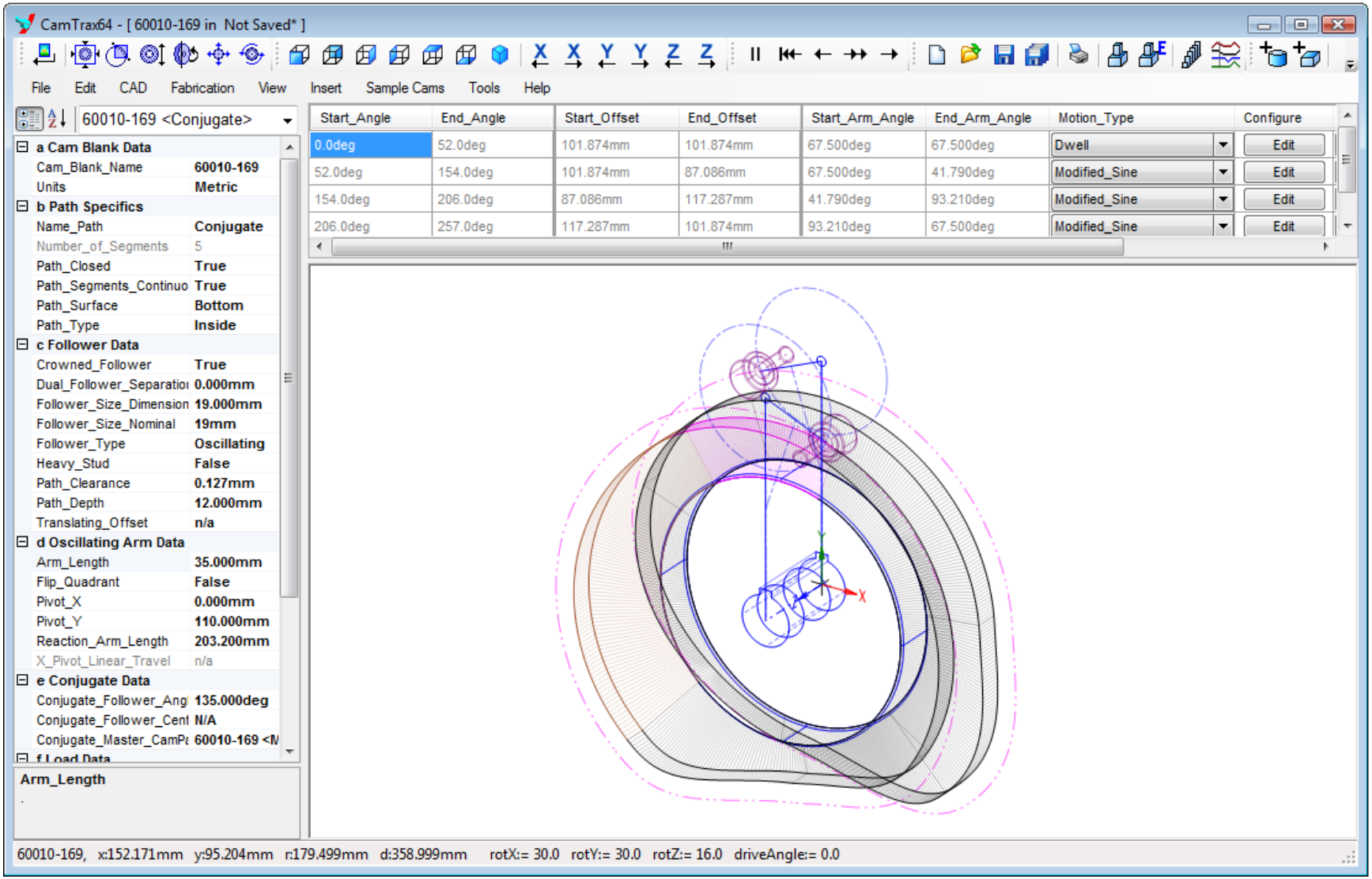
Top View of a Double Roller Disk Cam



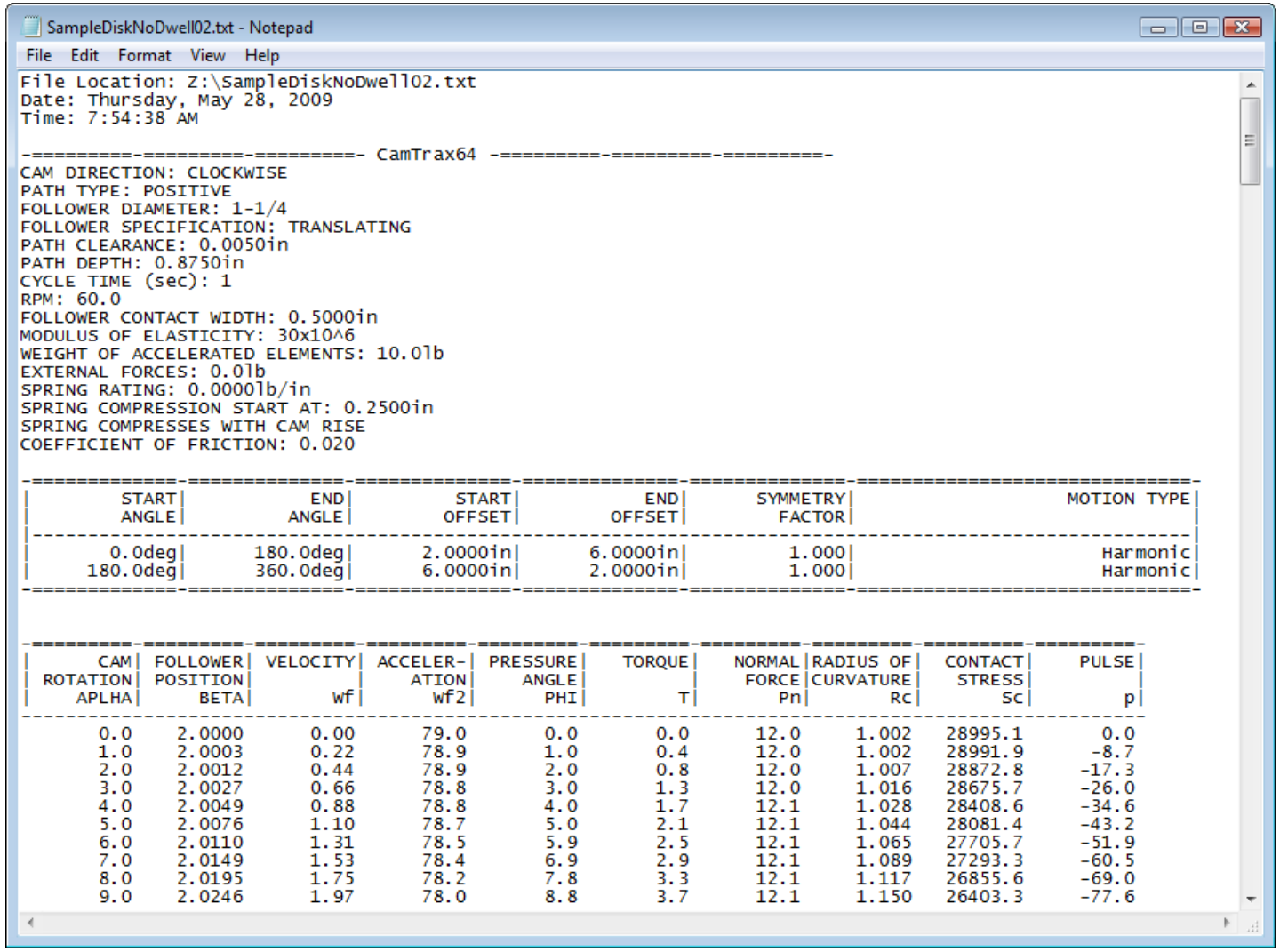
Double Roller Cylindrical Cam



Oscillating Double Roller Cylindrical Cam



Oscillating Disk Cam with Master and Conjugate Paths

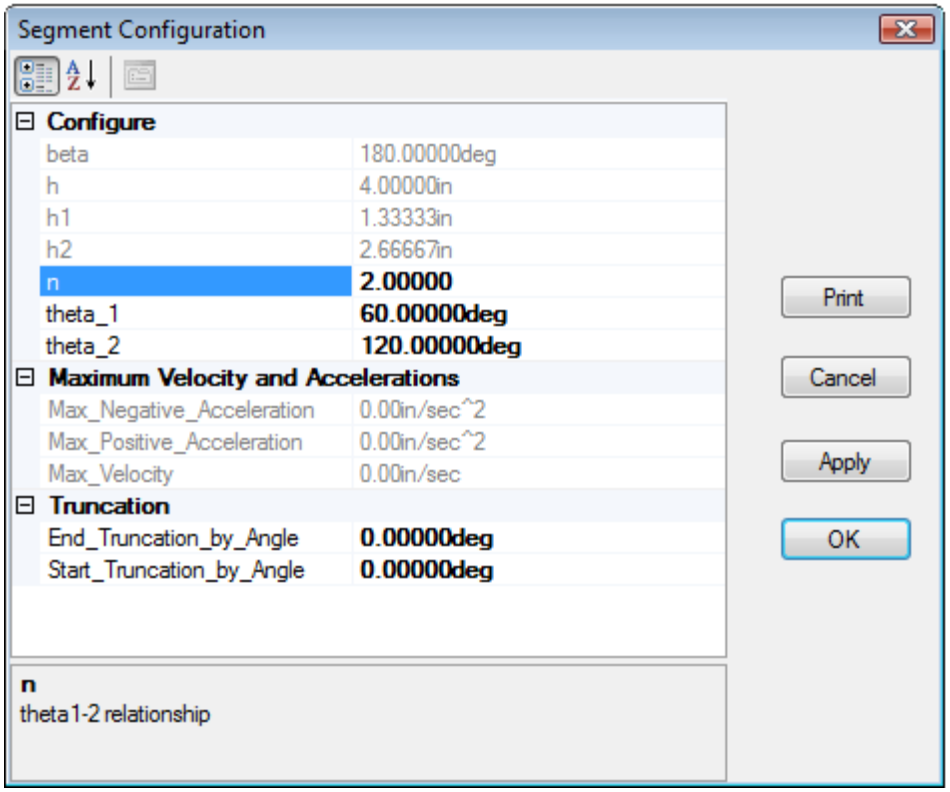


SampleDiskNoDwell02.txt - Notepad

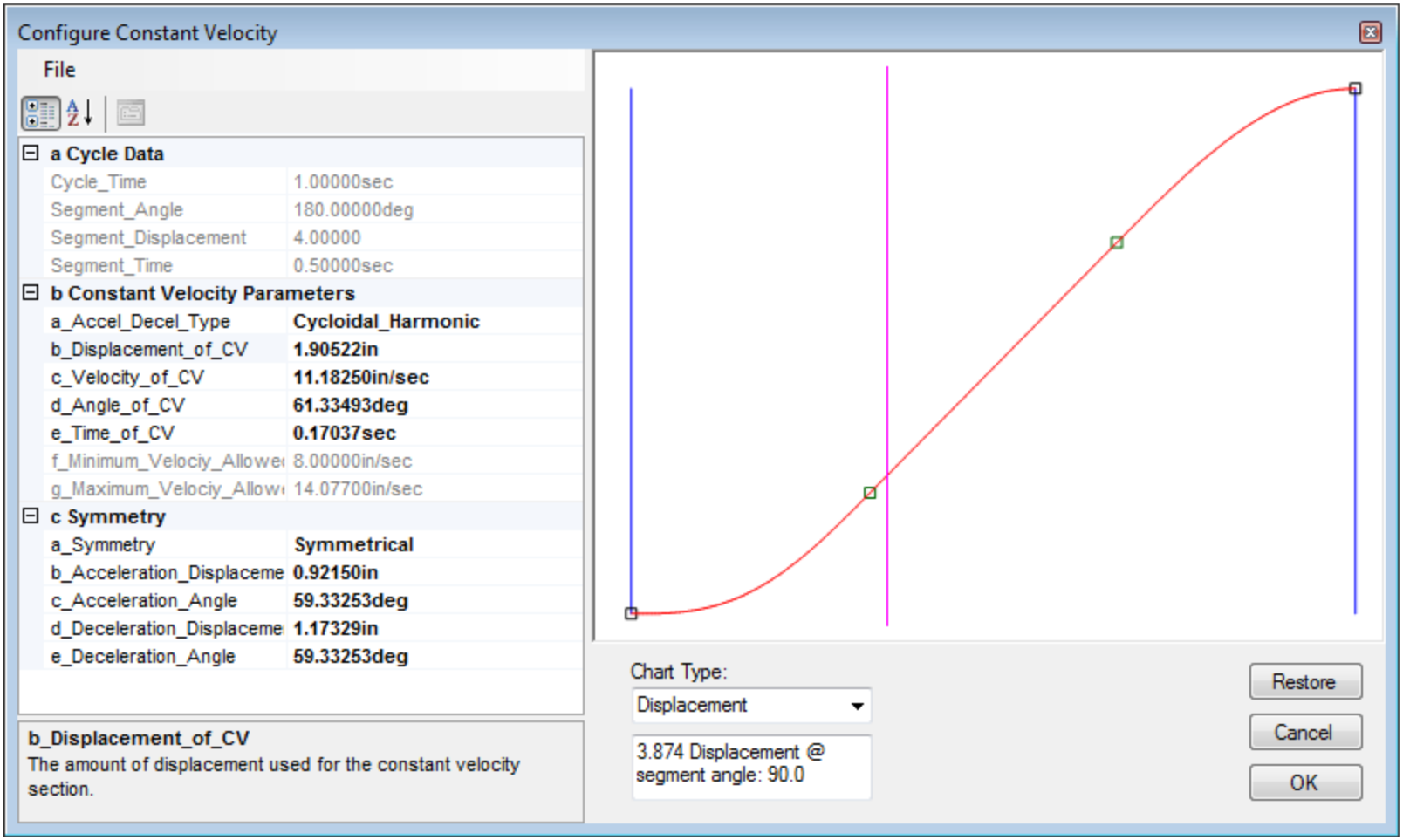
File Edit Format View Help

```
File Location: Z:\SampleDiskNoDwell02.txt
Date: Thursday, May 28, 2009
Time: 7:54:38 AM

-=========-=========-=========- CamTrax64 -=========-=========-=========-
CAM DIRECTION: CLOCKWISE
PATH TYPE: POSITIVE
FOLLOWER DIAMETER: 1-1/4
FOLLOWER SPECIFICATION: TRANSLATING
PATH CLEARANCE: 0.0050in
PATH DEPTH: 0.8750in
CYCLE TIME (sec): 1
RPM: 60.0
FOLLOWER CONTACT WIDTH: 0.5000in
MODULUS OF ELASTICITY: 30x10^6
WEIGHT OF ACCELERATED ELEMENTS: 10.0lb
EXTERNAL FORCES: 0.0lb
SPRING RATING: 0.0000lb/in
SPRING COMPRESSION START AT: 0.2500in
SPRING COMPRESSES WITH CAM RISE
COEFFICIENT OF FRICTION: 0.020

-=============-==============-==============-==============-==============-==============================-
|         START|           END|         START|           END|       SYMMETRY|                   MOTION TYPE|
|         ANGLE|         ANGLE|        OFFSET|        OFFSET|         FACTOR|                              |
|--------------------------------------------------------------------------------------------------------|
|       0.0deg|      180.0deg|     2.0000in|      6.0000in|          1.000|                     Harmonic|
|     180.0deg|      360.0deg|     6.0000in|      2.0000in|          1.000|                     Harmonic|
-=============-==============-==============-==============-==============-==============================-


-=========-=========-=========-=========-=========-=========-=========-=========-=========-
|      CAM| FOLLOWER| VELOCITY|  ACCELER-| PRESSURE|   TORQUE|   NORMAL|RADIUS OF|  CONTACT|    PULSE|
| ROTATION| POSITION|         |    ATION|    ANGLE|         |    FORCE|CURVATURE|   STRESS|         |
|    APLHA|     BETA|       Wf|      Wf2|      PHI|        T|       Pn|       Rc|       Sc|        p|
-------------------------------------------------------------------------------------------------
       0.0    2.0000      0.00       79.0       0.0       0.0      12.0    1.002   28995.1       0.0
       1.0    2.0003      0.22       78.9       1.0       0.4      12.0    1.002   28991.9      -8.7
       2.0    2.0012      0.44       78.9       2.0       0.8      12.0    1.007   28872.8     -17.3
       3.0    2.0027      0.66       78.8       3.0       1.3      12.0    1.016   28675.7     -26.0
       4.0    2.0049      0.88       78.8       4.0       1.7      12.1    1.028   28408.6     -34.6
       5.0    2.0076      1.10       78.7       5.0       2.1      12.1    1.044   28081.4     -43.2
       6.0    2.0110      1.31       78.5       5.9       2.5      12.1    1.065   27705.7     -51.9
       7.0    2.0149      1.53       78.4       6.9       2.9      12.1    1.089   27293.3     -60.5
       8.0    2.0195      1.75       78.2       7.8       3.3      12.1    1.117   26855.6     -69.0
       9.0    2.0246      1.97       78.0       8.8       3.7      12.1    1.150   26403.3     -77.6
```

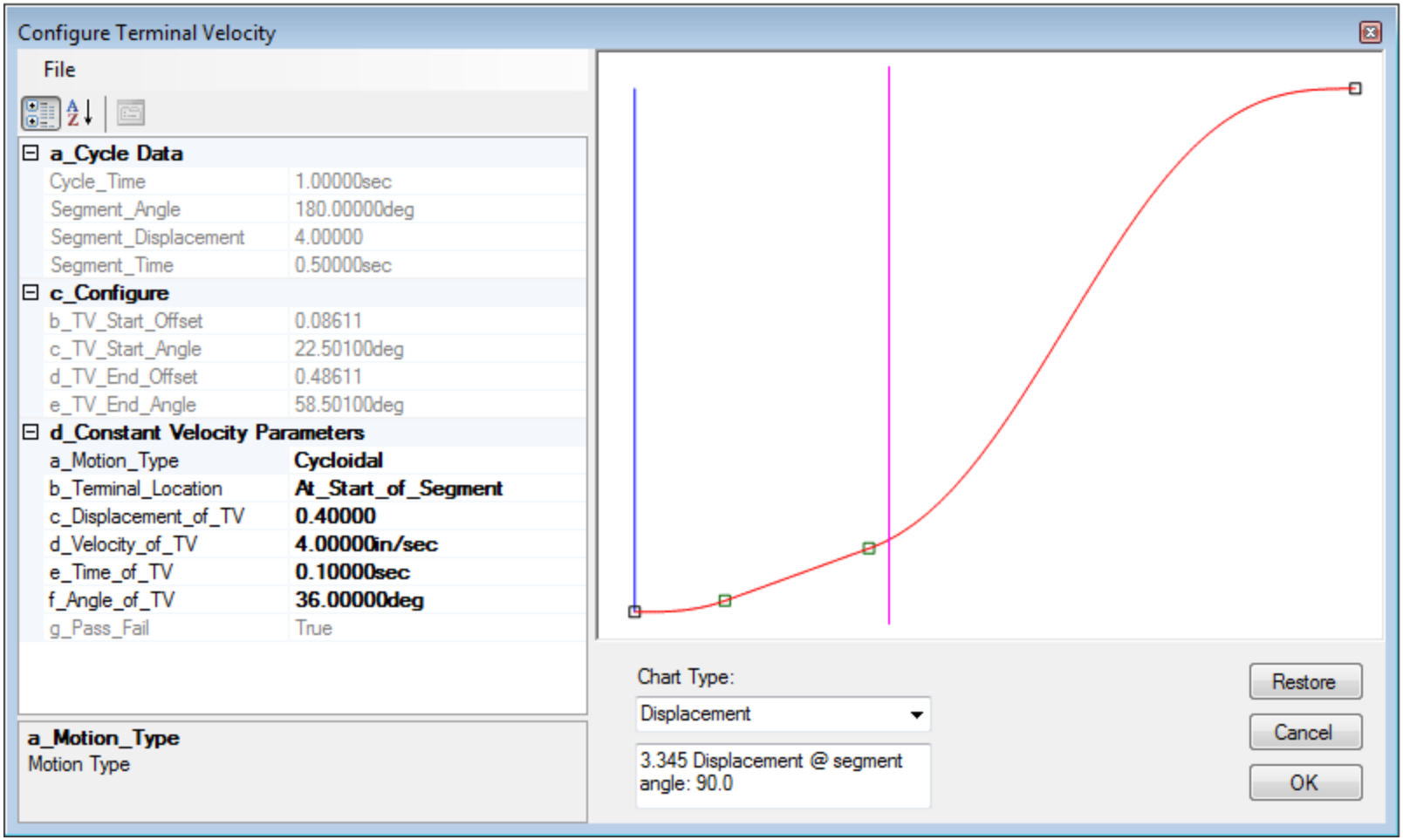
Sample of a Data Sheet (Text Format)



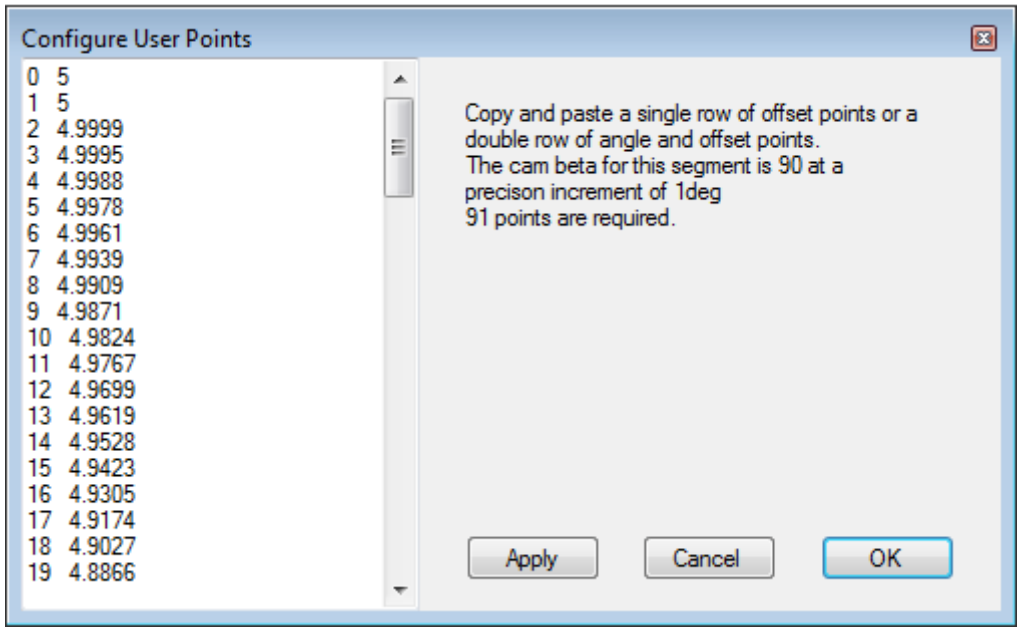
Segment Configuration



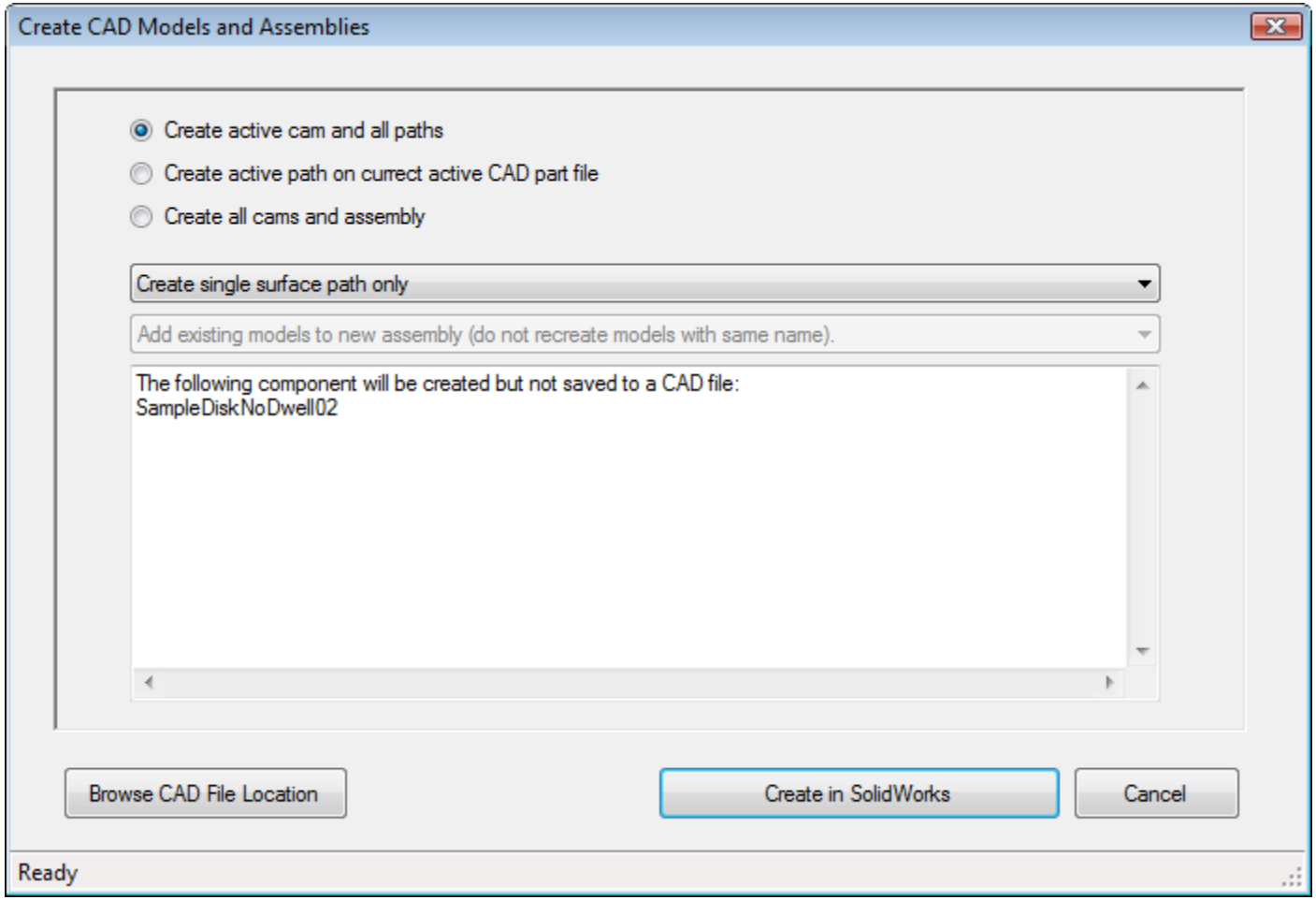
Configure Constant Velocity



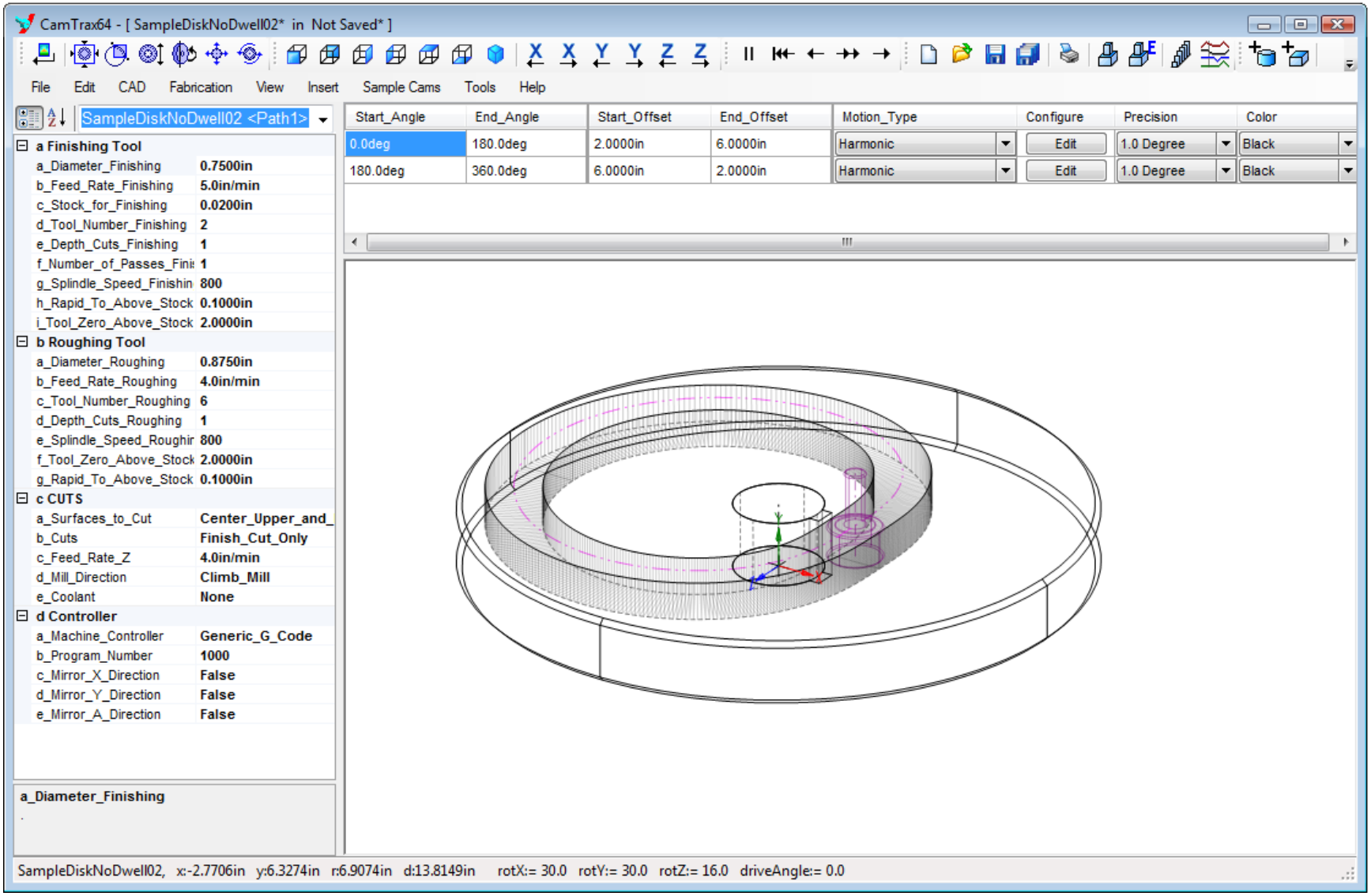
Configure Terminal Velocity



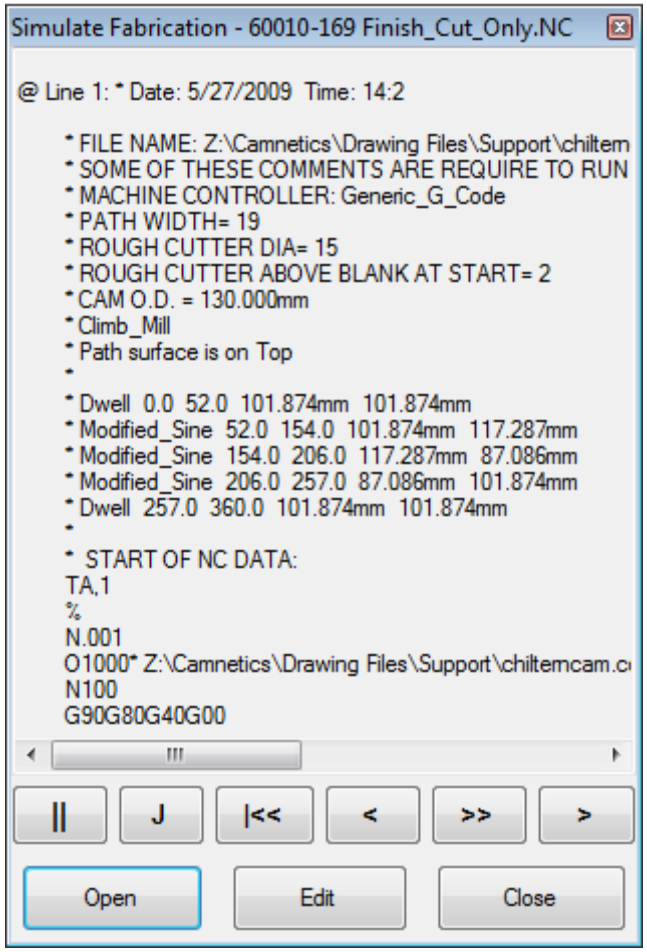
Configure User Points



Create CAD Models and Assemblies



Fabrication Properties



Simulate Fabrication