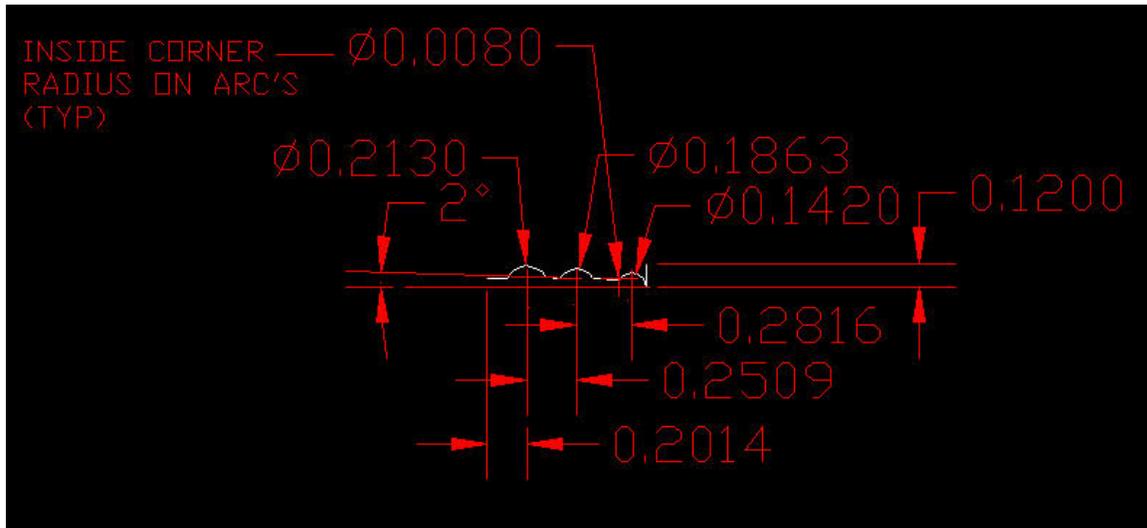
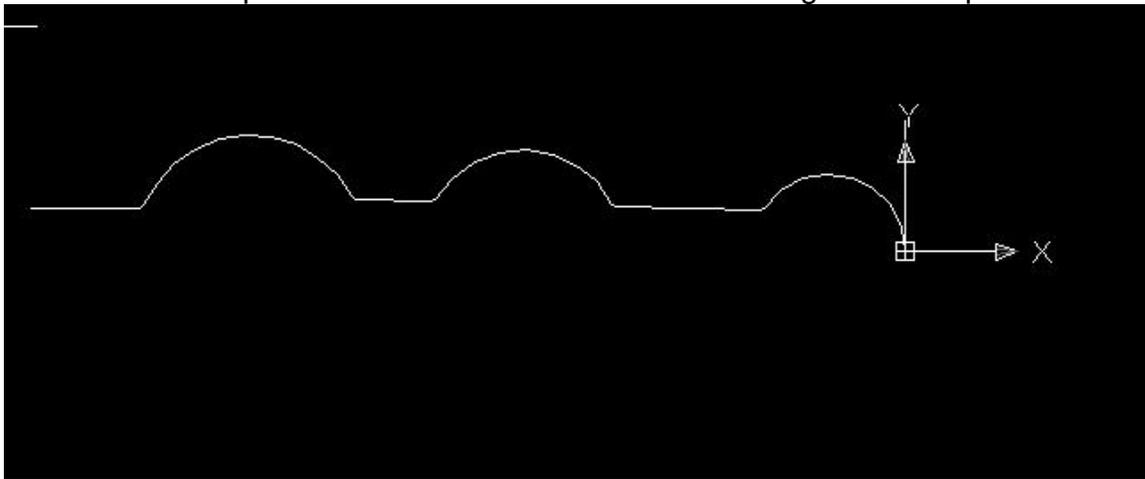


## LAZYCAM – LATHE TURNING - GENERATED GCODE

The following is the CAD drawing of three balls with a tapered section between them. A DXF file was generated and imported into LazyCam for generation of lathe code.



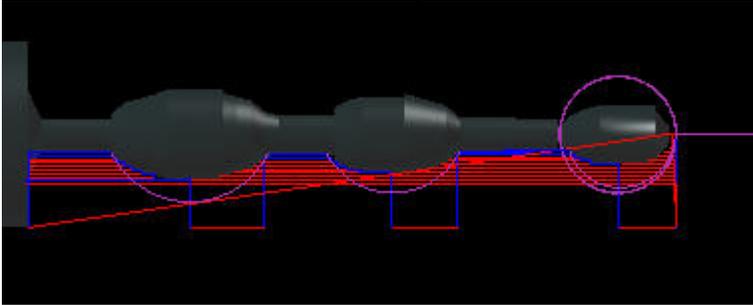
Here is what the piece looks like without the dimensioning and as exported.



The DXF file is posted for your use to try and generate code for this piece.

---

LazyCam posted the following into MACH Turn.



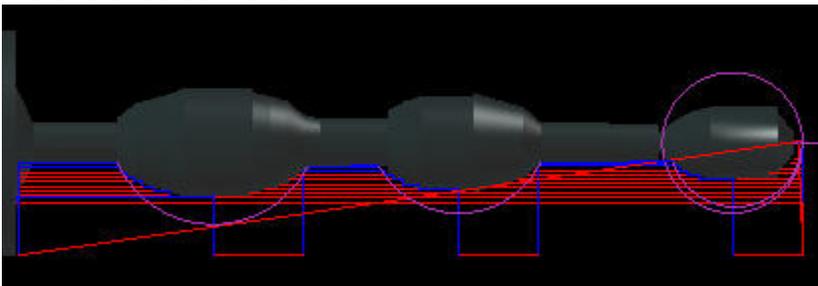
ORIGINAL LAZYCAM GENERATED FILE: 3BALLS4

As you can see, there are obvious problems with the generated code, so let's see what it takes to clean it up doing one change at a time. The code generated can be very different depending on cut and tool values you used in Lazycam. So doggy poop inputs = doggy poop code!  
Simulating the machining in MACH and making note of what code needs attention will help you identify them. Watch the tool movement.

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In file 3BALLS4A the first code change was done:  
- deleted line 50 ( N50 X0.0000 Z0.0021 I0.0000 k-0.0730)

Here is a screen shot.



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In file 3BALLS4B the second code change was done:

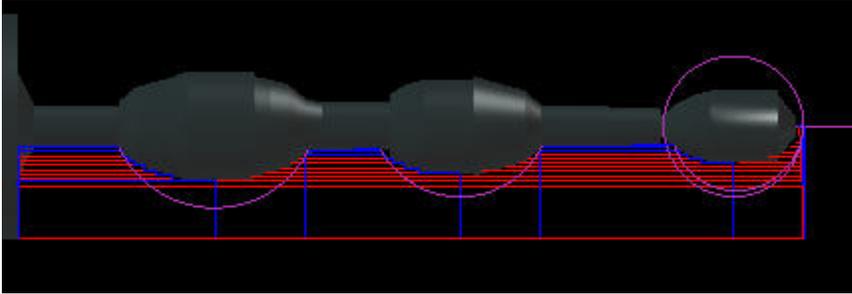
- changed line 800 so X&Z are individual moves to get rid of the rapid cut thru the piece as follows

From: N800 G0 X-0.0038 Z0.0010

To: N800 G0 Z0.0010

N801 G0 X-0.0038

Here is a screen shot.



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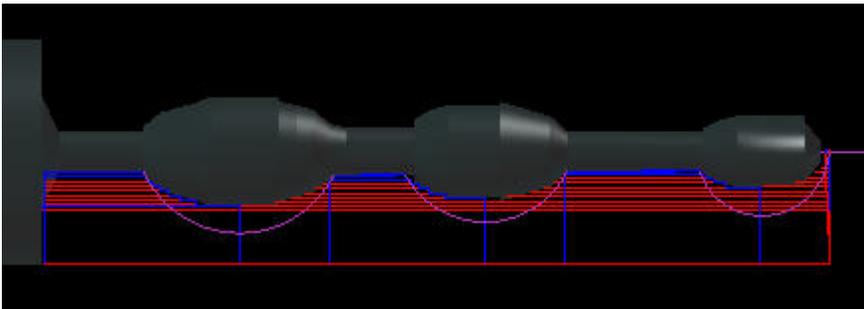
In file 3BALLS4C the third code change was done:

- deleted line 810 (N810 X0.0000 Z0.0011 I0.0000 k-0.0720)

That was the circle you see in red on the right hand side.

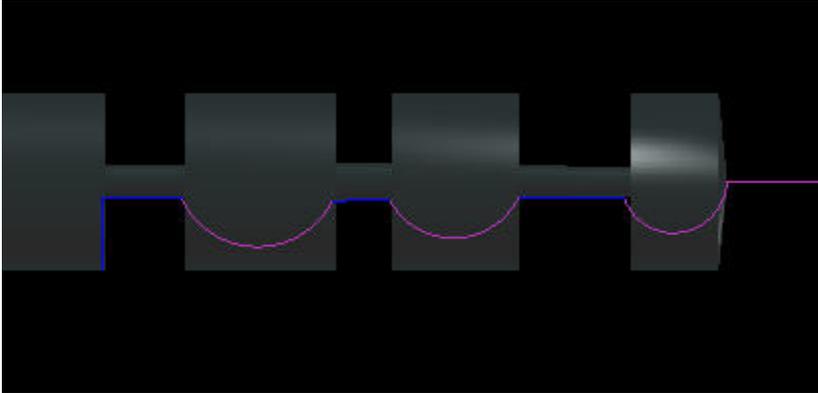
There are a few additional code lines which can be removed if you so desire.

Here is a screen shot:



In file 3BALLS4D most of the code was deleted such that a simple single cut of the profile is available should it be needed. The code should be the last bunch of lines in the file as it' a continuous finishing cut.

Here is a screen shot:



HAVE FUN TURNING,  
RICH