Using the Mirror function.

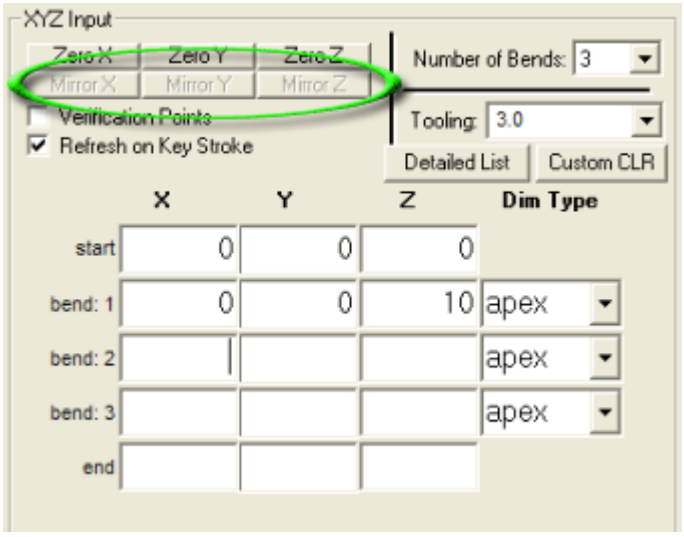
In this thread, you will see how to mirror a part in the XYZ interface.

NOTE: All XYZ locations are based upon a 0,0,0 global location. Which means that each location is referenced to an absolute location. The start point does NOT need to be 0,0,0.

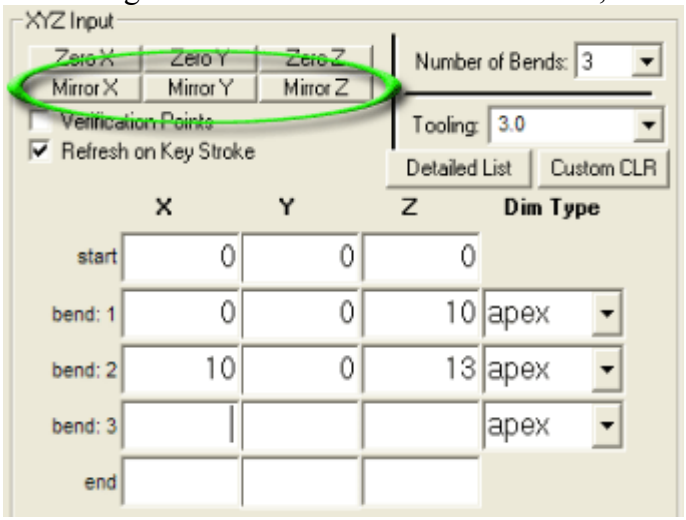
A couple other things to note:
- The XYZ interface requires at least 2 bends in order to mirror.
- It will mirror off of the mid-point of your part, not the beginning.

In order for Bend-Tech to allow you to mirror, you must enter the next full x,y,z coordinate past the halfway point.

For parts with an odd number of bends, it will be the middle bend (2 of 3, 3 of 5, etc). In the following picture, you can see that since we're not at that halfway point yet, the "Mirror" buttons are still unavailable for use.

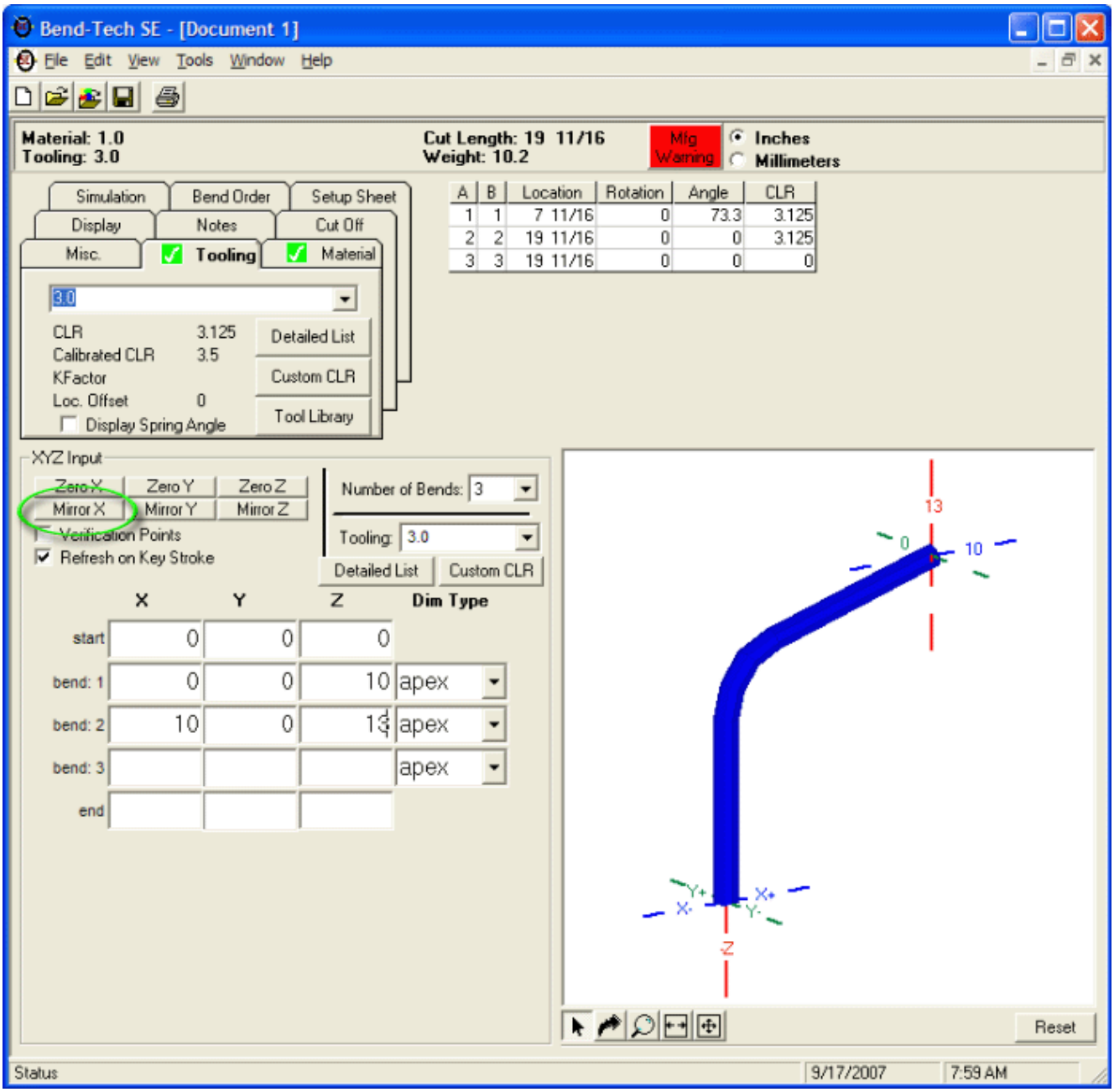


Once we get the second of three bends entered, the buttons are available.

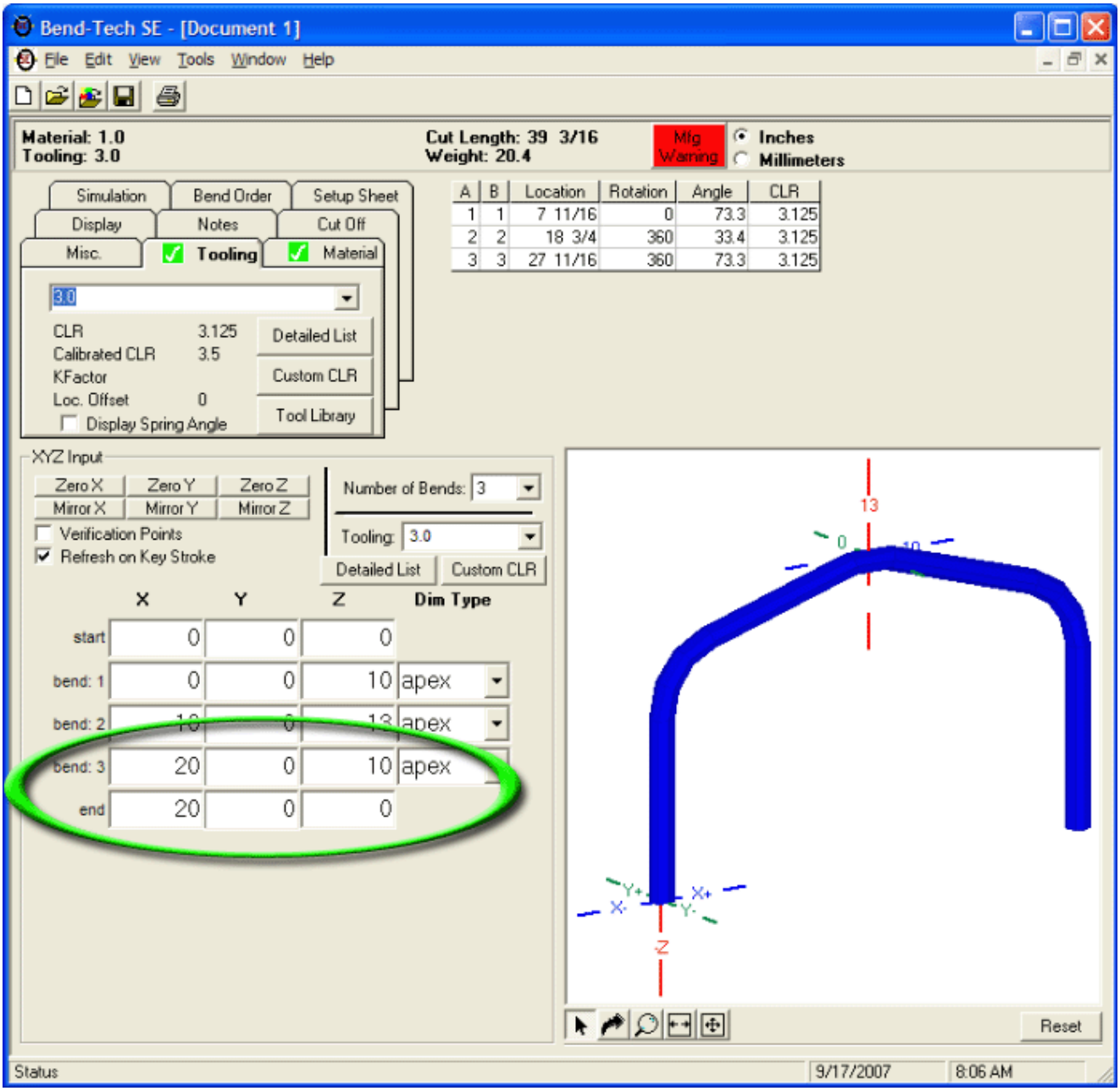


For parts with an even number of bends, it will be the bend past the mid point (3 of 4, 4 of 6, etc).

1) Using the same values as in the previous pictures, we'll mirror a part on the x axis using the "**Mirror X**" button.



2) After clicking the "**Mirror X**", Bend-Tech will fill in the remaining x,y,z values in order to symetrically finish off the part.


Bend-Tech SE - [Document 1]
File Edit View Tools Window Help
Material: 1.0
Tooling: 3.0
Cut Length: 39 3/16
Weight: 20.4
Mfg Warning
Inches
Millimeters
Simulation
Bend Order
Setup Sheet
Display
Notes
Cut Off
Misc.
Tooling
Material
3.0
CLR 3.125
Calibrated CLR 3.5
KFactor
Loc. Offset 0
Display Spring Angle
Detailed List
Custom CLR
Tool Library
A B Location Rotation Angle CLR
1 1 7 11/16 0 73.3 3.125
2 2 18 3/4 360 33.4 3.125
3 3 27 11/16 360 73.3 3.125
XYZ Input
Zero X Zero Y Zero Z
Mirror X Mirror Y Mirror Z
Verification Points
Refresh on Key Stroke
Number of Bends: 3
Tooling: 3.0
Detailed List
Custom CLR
X Y Z Dim Type
start 0 0 0
bend: 1 0 0 10 apex
bend: 2 10 0 13 apex
bend: 3 20 0 10 apex
end 20 0 0
13
0
10
Y+
X+
X-
Y-
Z
Reset
Status
9/17/2007
8:06 AM