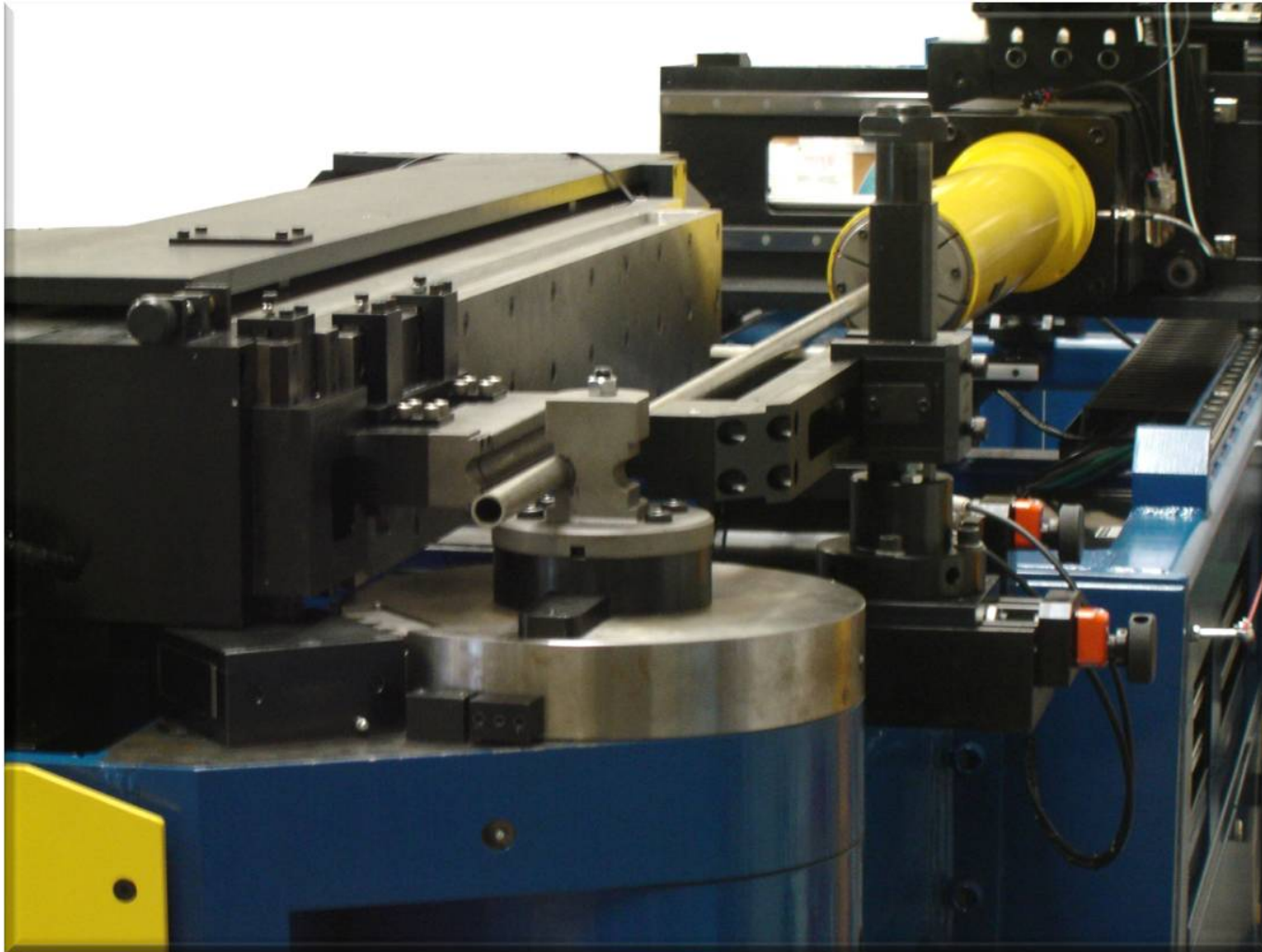
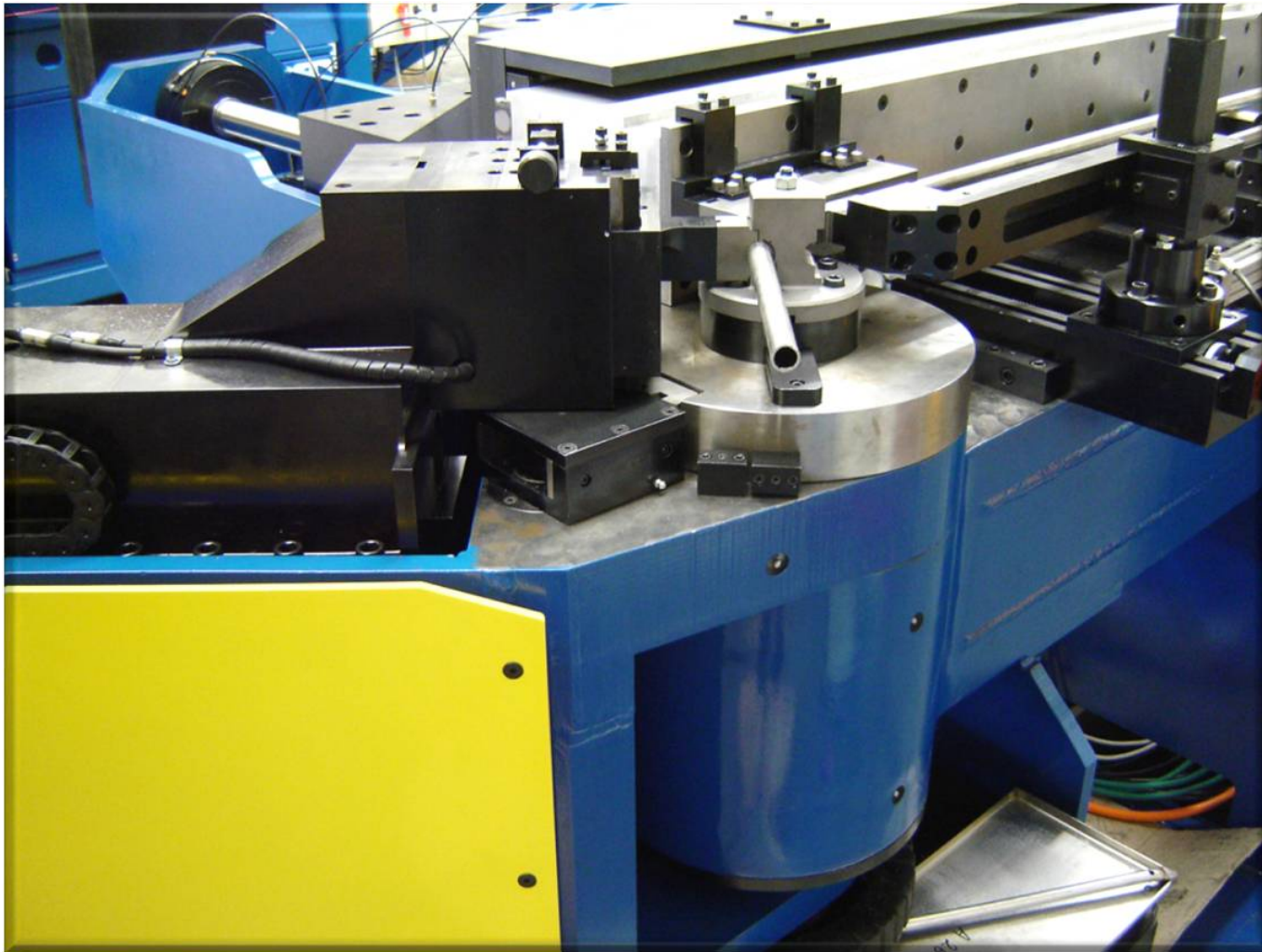


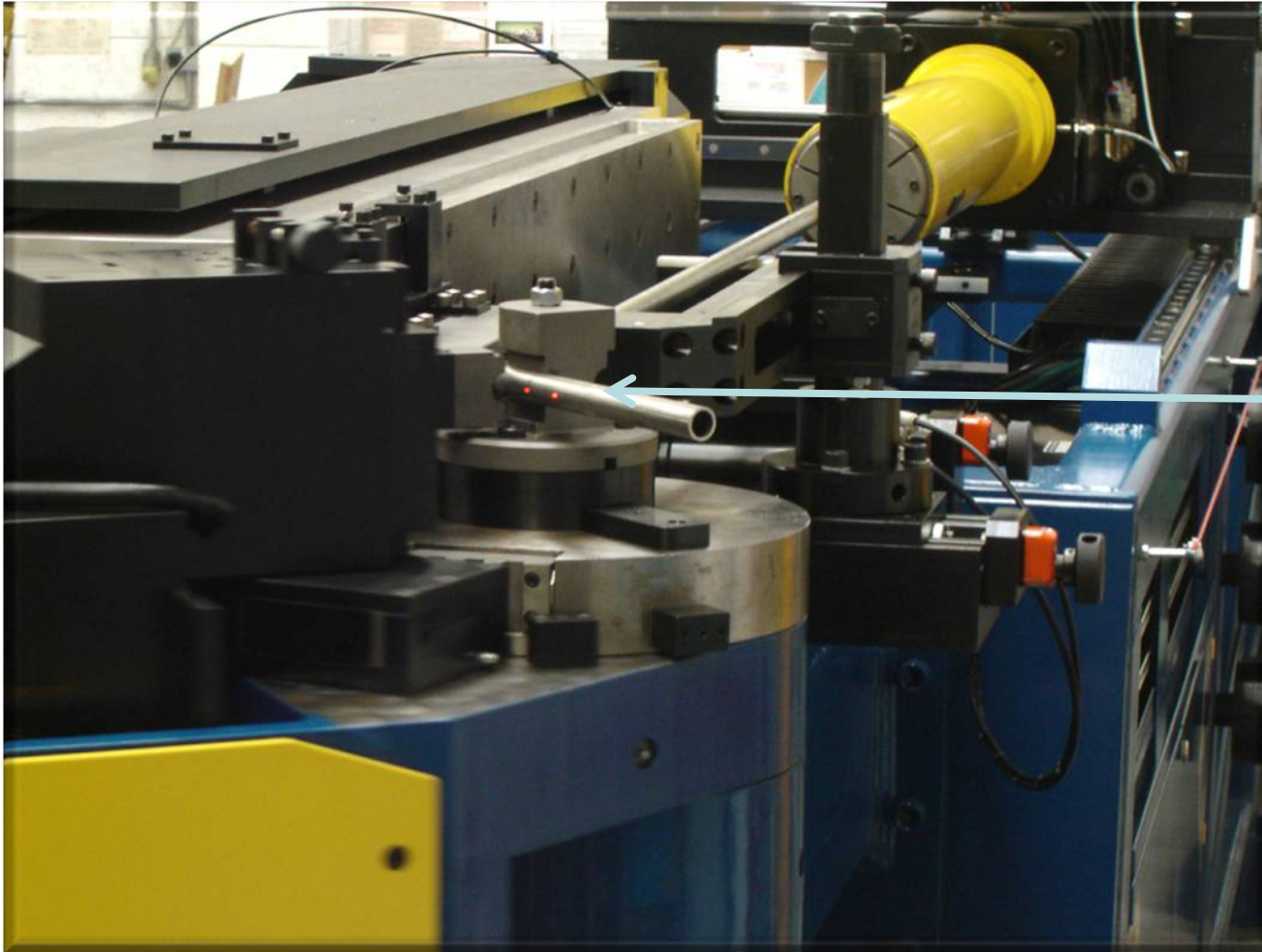
# Straight tube in bender



# Bent tube in bender



# Clamp Opens & Measures Tube



Two Lasers  
Measure the tube



# Laser scan takes reading in position one

UNISON 3 Axis Bender [ c:\unison\bend\ybc10-5 tooling.ybc ]

File Product Machine System Screens Options Help

Calc Length **502.0** Quantity **10**  
Cycle Time **0.0** Parts Finished **4**  
Speed **50(%)** Total Parts Made **155**

Single Step

Options

1 **60.0** **100** **0.0** **100** **45.0** **50**  
**0.00** **0.00**

Torques

- 0) Mandrel
- 1) DBB
- 3) Pdie
- 4) Clamp
- 5) DOB
- 6) Pwd Fol

UNIBEND

Bend Angle Of Tube Is 42.09

Angle To Correct Is 2.91 Degrees

Do You Wish To Autocorrect?

Yes No

Units = MM

Clamp Open For Laser Measurement

Timers

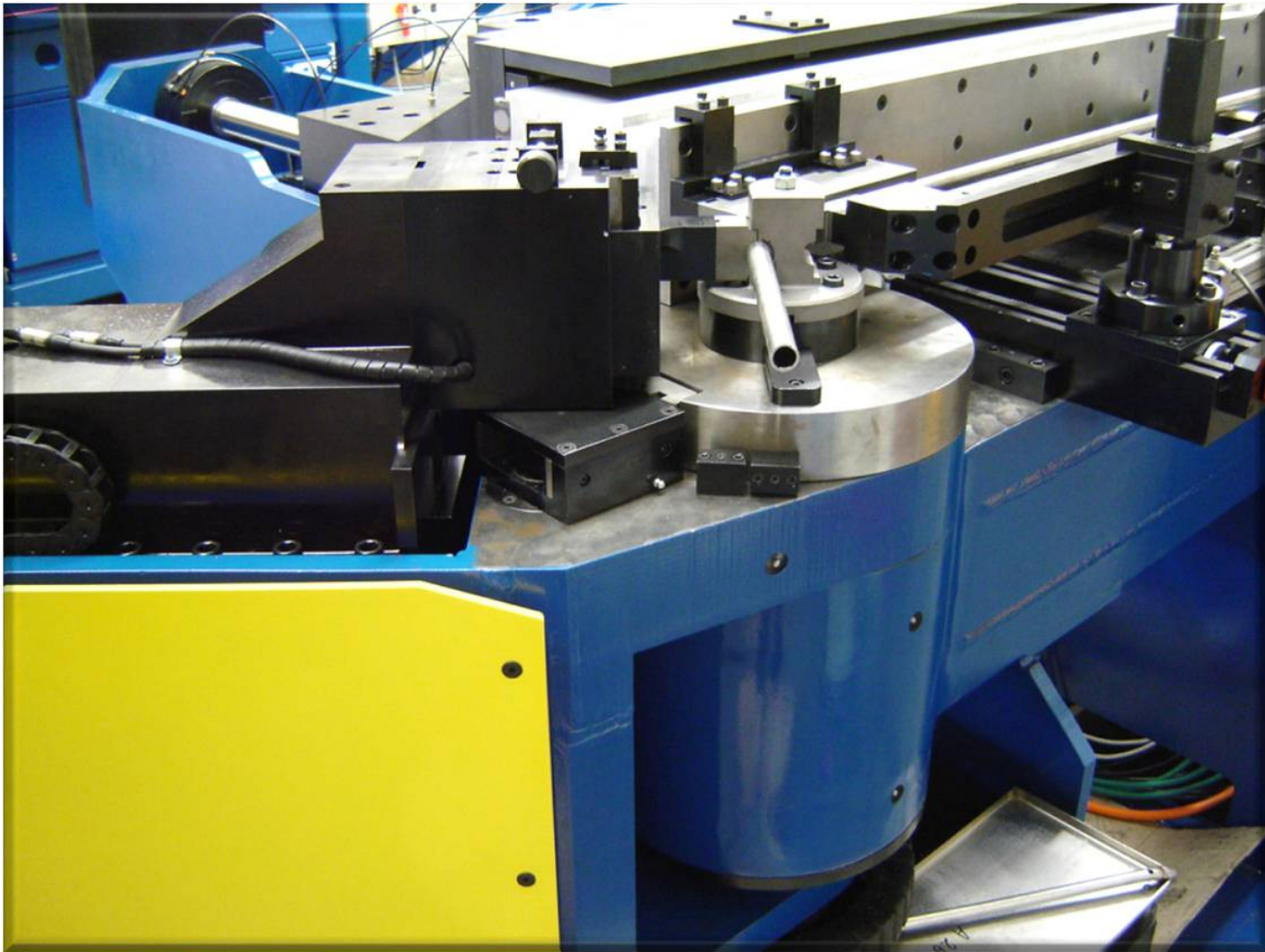
Floor To Floor **0** Time Start Pressed **9:58:27 AM**  
Avg Cycle Time **0** No. Parts An Hour **0**  
Time Per Bend **0**

Positions

Y **1718.8**  
B **0.0**  
C **45.0**



# Re-bend tube with correction



# Laser scan takes reading in position two

The screenshot displays the UNISON 3 Axis Bender software interface. At the top, the title bar reads "UNISON 3 Axis Bender [ c:\unison\bend\ybc10-5 tooling.ybc ]". The menu bar includes "File", "Product", "Machine", "System Screens", "Options", and "Help".

Key data fields include:

- Calc Length: 502.0
- Quantity: 10
- Cycle Time: 6206.7
- Parts Finished: 5
- Speed: 50(%)
- Total Parts Made: 156

A "STOP" button is visible in the top right. Below the data fields are icons for "Y", "B", and "C" positions, and an "Options" button.

A central data row shows values for "1": 60.0, 100, 0.0, 100, 15.0, 50.0. Below this is a "Torques" section with a list of items (0) Mandrel, 1) DBB, 3) Pdie, 4) Clamp, 5) DOB, 6) Pwd Fol, each with a corresponding input field.

A dialog box titled "UNIBEND" is open, displaying the following text:

Bend Angle Of Tube Is 44.96  
Angle To Correct Is 0.04 Degrees  
Do You Wish To Autocorrect?  
Yes No

At the bottom, a status bar indicates "Clamp Open For Laser Measurement".

Additional sections include "Timers" (Floor To Floor: 0, Avg Cycle Time: 0, Time Per Bend: 0, Time Start Pressed: 1:09:30 PM, No. Parts An Hour: 0) and "Positions" (Y: 1517.6, B: 0.0, C: 47.9). The units are set to "MM".



# All Bends measured & corrected



# contact

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