

Tobi Alli
Professor Ponshock
BUS 605

Steps for Pen assembly

- 1) Makes molds for all the plastic components.
- 2) Makes tubes for ink cartage's, puts company name and tip sizes on to it.
- 3) Injects .8 grams of ink into cartage, fills other end with .1 grams of paste so the ink doesn't dry out.
- 4): High precision machine shapes the pens tip out of stainless-steel blanks.
- 5) Another machine drills a 1-millimeter channel through the blank, then fastens the tip into a cone. Puts in 1-millimeter stainless steel ball in the center.
- 6) Insert finished tip into each filled tube, a scanner checks the length and the ball of each cartage.
- 7) Closes off the end of the cartage with a cap, goes into a centrifuge which forces ink to go to the tip (gets rid of air bubbles).
- 8) Every cartage goes through a writing test machine that gets rid of all bad cartage.
- 9) Components come together in the assembly apartment. Assembles the clip, assembles the inside (push button, and roder). Attaches the ink cartage, and the spring attached to the tip of the cartage.
- 10) Closes the pen by adding the end that covers the spring and the tip. Screws the two parts together to a certain tightness. Test the push button to see if it works correctly.

