

An Engineer measure the hardness of 3 materials ( X , Y , Z ) and he got the hardness values as following , ( 185HV for X ) , ( 165HV for Y ) , ( 235HV for Z ) answer the following , The ductility of the specimens as following :

- Y > X > Z
- Z > Y > X
- Z > X > Y
- X = Y = Z

In NC (Numerical Control) machine tool, the position feedback package is connected between

- Control unit and programmer
- Programmer and machine tool
- Control unit and machine tool
- Programmer and process planning

The situations in which sand casting is the preferred fabrication technique are:

- For large pieces and/or complicated shapes.
- When mechanical strength is not an important consideration.
- For alloys having low ductility.
- When it is the most economical fabrication technique.