

Experiment No.08

Objective

To study the different parts of CNC machining centre, CNC turning centre, their functions & types.

Theory

The term “machining center” describes almost any CNC milling and drilling machine that includes an automatic tool changer and a table that clamps the work piece in place. On a machining center, the tool rotates, but the work does not. The orientation of the spindle is the most fundamental defining characteristic of a machining center.

Difference between NC and CNC

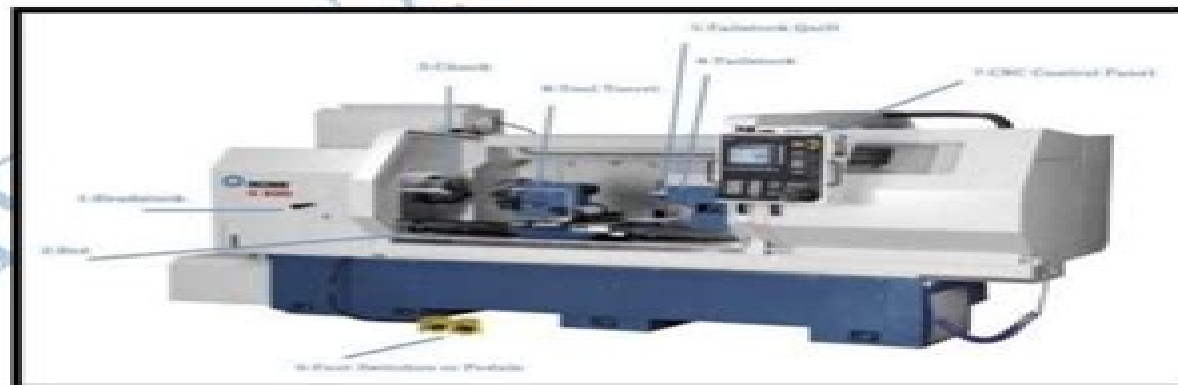
Difference between NC and CNC is clarified in this experiment where NC is old technology and program is fed to the machine through magnetic tapes. NC has no storage memory while CNC is new technology and program is fed through computer.

Codes

Generally G codes are written in and performed by the CNC processor and operate the motion control part of the control, the M codes are MACHINE codes, these operate most of the basic electrical control functions such as Coolant, Tool changers, safety circuits etc, the M, S & T codes are written in a separate PLC processor, both processors usually communicate with each other over a common bus.

The tool changer and spindle are both configured to suit a particular machine specifics.

CNC Turning



Mechanical Production Lab Manual

Earl B Smith



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