

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

G Thomas



Mechanical Production Lab Manual:

Enjoying the Song of Expression: An Mental Symphony within **Mechanical Production Lab Manual**

In a world used by screens and the ceaseless chatter of instant communication, the melodic beauty and psychological symphony created by the prepared word often disappear into the back ground, eclipsed by the persistent noise and distractions that permeate our lives. Nevertheless, nestled within the pages of **Mechanical Production Lab Manual** a wonderful literary treasure overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, that interesting masterpiece conducts readers on a mental trip, skillfully unraveling the concealed tunes and profound affect resonating within each carefully crafted phrase. Within the depths with this emotional analysis, we shall investigate the book is key harmonies, analyze its enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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