# 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 writen 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.

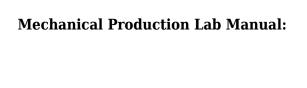
The tool changer and spindle are both configured to suit a particular machine specifics.

## **CNC Turning**



# **Mechanical Production Lab Manual**

**William Lintern** 



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#### **Table of Contents Mechanical Production Lab Manual**

- 1. Understanding the eBook Mechanical Production Lab Manual
  - The Rise of Digital Reading Mechanical Production Lab Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mechanical Production Lab Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mechanical Production Lab Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mechanical Production Lab Manual
  - Personalized Recommendations
  - Mechanical Production Lab Manual User Reviews and Ratings
  - Mechanical Production Lab Manual and Bestseller Lists
- 5. Accessing Mechanical Production Lab Manual Free and Paid eBooks
  - Mechanical Production Lab Manual Public Domain eBooks
  - Mechanical Production Lab Manual eBook Subscription Services

- Mechanical Production Lab Manual Budget-Friendly Options
- 6. Navigating Mechanical Production Lab Manual eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Mechanical Production Lab Manual Compatibility with Devices
  - Mechanical Production Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanical Production Lab Manual
  - Highlighting and Note-Taking Mechanical Production Lab Manual
  - Interactive Elements Mechanical Production Lab Manual
- 8. Staying Engaged with Mechanical Production Lab Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical Production Lab Manual
- 9. Balancing eBooks and Physical Books Mechanical Production Lab Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanical Production Lab Manual
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Production Lab Manual
  - Setting Reading Goals Mechanical Production Lab Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Production Lab Manual
  - Fact-Checking eBook Content of Mechanical Production Lab Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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