

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

Edmund O. Acevedo, Michael A. Starks

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Mechanical Production Lab Manual:

The book delves into Mechanical Production Lab Manual. Mechanical Production Lab Manual is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mechanical Production Lab Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Mechanical Production Lab Manual
 - Chapter 2: Essential Elements of Mechanical Production Lab Manual
 - Chapter 3: Mechanical Production Lab Manual in Everyday Life
 - Chapter 4: Mechanical Production Lab Manual in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Mechanical Production Lab Manual. The first chapter will explore what Mechanical Production Lab Manual is, why Mechanical Production Lab Manual is vital, and how to effectively learn about Mechanical Production Lab Manual.
3. In chapter 2, this book will delve into the foundational concepts of Mechanical Production Lab Manual. This chapter will elucidate the essential principles that must be understood to grasp Mechanical Production Lab Manual in its entirety.
4. In chapter 3, the author will examine the practical applications of Mechanical Production Lab Manual in daily life. This chapter will showcase real-world examples of how Mechanical Production Lab Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Mechanical Production Lab Manual in specific contexts. This chapter will explore how Mechanical Production Lab Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Mechanical Production Lab Manual. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Mechanical Production Lab Manual.

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