

## **Exploration of Application and Practice of Numerical Control Technology in Machine Manufacturing**

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**Key words:** Machine manufacturing, Numerical control technology, Application, Trend.

**Abstract.** With improvement of computer technology and digital technology level, the superiority of numerical control technology application in machine manufacturing gradually stands out. Numerical control technology optimizes equipment effect and quality, promotes market competitiveness of enterprises and drives leapfrog development of machine manufacturing industry. This paper briefly analyzes operation model of numerical control technology and discusses application process and development trend of numerical control technology in machine manufacturing so as to offer valuable reference for technical management personnel in machine manufacturing project.

### **Introduction**

The development of modern machine manufacturing project presents a coercive trend. Traditional technological parameters and operation technology cannot adapt the demand of new products. Thus, relevant researchers need to establish complete technology upgrade planning according to actual conditions, and apply development framework of numerical control technology to promote actual quality of machine manufacturing. Equipment operating efficiency can improve, and products manufactured can conform to quality standards. In addition, numerical control technology can smoothly promote fusion of technology project and industrial development, enhance machine manufacturing structure level and boost market competitiveness of enterprises.

### **Overview of numerical control technology**

#### **Development history of numerical control technology**

Development history of numerical control technology has presented high-speed development state in recent years. In about 1938, fast data operation and transmission project also showed a rapid development trend, which laid the operation foundation for computer numerical control technology. In 1952, the first set of numerical control machine tool was born in machinery industry.

#### **Connotation and operation principle of numerical control technology**

During studying numerical control technology, it is required to guarantee integrity of relevant operation parameter and structure, and start from technical level of numerical control technology in order to achieve entire technical parameter upgrade. Numerical control technology mainly utilizes computer technology and traditional machining process to enhance control of construction process. In technical operation process, operation mechanism of machinery project improves with the help of speed control, angle control and position control to make sure the operation framework of numerical control technology complies with actual project demand. In addition, the wide operation range of numerical control technology is based on its high efficiency and high precision advantages. Numerical control technology can effectively promote automation process and ensure important value of modern integration system.

Moreover, in order to achieve effective fusion of numerical control operation and computer technology, it is required to make sure smooth implementation of automatic control and machine manufacturing operation with the help of electric drive and precise measurement structure in the

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## **Table of Contents Numerical Control Practice And Application**

1. Understanding the eBook Numerical Control Practice And Application
  - The Rise of Digital Reading Numerical Control Practice And Application
  - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Control Practice And Application
  - 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 Numerical Control Practice And Application
  - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Control Practice And Application
  - Personalized Recommendations
  - Numerical Control Practice And Application User Reviews and Ratings
  - Numerical Control Practice And Application and Bestseller Lists
5. Accessing Numerical Control Practice And Application Free and Paid eBooks
  - Numerical Control Practice And Application Public Domain eBooks
  - Numerical Control Practice And Application eBook Subscription Services
  - Numerical Control Practice And Application Budget-Friendly Options
6. Navigating Numerical Control Practice And Application eBook Formats

- ePub, PDF, MOBI, and More
- Numerical Control Practice And Application Compatibility with Devices
- Numerical Control Practice And Application Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Numerical Control Practice And Application
  - Highlighting and Note-Taking Numerical Control Practice And Application
  - Interactive Elements Numerical Control Practice And Application
- 8. Staying Engaged with Numerical Control Practice And Application
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Numerical Control Practice And Application
- 9. Balancing eBooks and Physical Books Numerical Control Practice And Application
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Numerical Control Practice And Application
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Numerical Control Practice And Application
  - Setting Reading Goals Numerical Control Practice And Application
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Numerical Control Practice And Application
  - Fact-Checking eBook Content of Numerical Control Practice And Application
  - 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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