

# 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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