

Parameter Optimization of Turning Process (Cast Iron) Using Taguchi Method

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Abstract -This paper focuses on the optimisation of turning parameters using Taguchi technique to obtain minimum cycle time & surface finish. A number of turning experiments were conducted using the L9 orthogonal array on a CNC machine. The experiments were performed on cast iron by using coated carbide insert. Minitab is employed to determined most significant control factor affecting cycle time & surface finish. The cutting speed ,Feed ,Depth of cut were selected as control factors . After the nine experimental trials, It is found that cutting speed is the most significant factor on the Cycle time. Result of the Validation test shows that Taguchi method was notably successful

Keyword- Optimization, Turning process parameters ,Taguchi method, orthogonal array, MINITAB-17.

INTRODUCTION

There is a need for optimizing the process parameter both from technological and economic point of view, optimization of process parameter helps to finding out the correct adjustment of parameter which improve the quality and quantity of the product .This must be done in timely manner to avoid production delay and effectively

Design of experiments and procedure-

Design of experiments and procedure as follows:

Techniques of experimentation- There are different types of experimentation. The most widely used strategies for experimental analysis.

1. By guess approach-

In this approach an artificial combination of factors are selected and then tested and its effect on output response is observed. If guessing doesn't produce a desired result the research take another guess for correct combination of factor level. Thus may continue for long period of time without any proper prediction of the combination. If guess is found to be correct at correct at the initial level then it is well and good but still it may not be the best combination

2. Pilot experiment-

Pilot experiment is same as guess approach but the difference is that whatever combination is predicted is tested on the actual machine and result are observed if the result are satisfied then the combination

to avoid defect. Therefore in the situation, it is important for the engineering or technician to use past experience to select parameters which will likely yield a surface finish below that of a specified level and perhaps make some parameter adjustment as a time allows or quality control require.

Engineers and technicians establishing such and operation would ideally consider other implications of setup parameters such as production schedules, processing time and noise factors. A more methodical, or experimental approach to setting parameters should be used to ensure that the operation meets the desired level of quality with given noise condition and without sacrificing production time. As we are dealing with the cycle time and surface finish, low speed affect the cycle time and higher depth of cut damage the surface.

In order to optimize such an operation with such restrictions, a more efficient experiment method is needed. An excellent solution to this issue is an approach known as Taguchi Parameter Design.

may be valid. Mostly pilot experiment depends upon the type of machine capacity and other important factors.

Taguchi based design of experiment-

Among the various method available, Taguchi method is one of the most powerful and best method in short simple but smart method for analysis. It is widely used in many fields. In application and development of new process and product in quality control.

The salient feature of method are:

- A simple, smart and efficient method optimise process to improve the performance and productivity or reducer cost.
- It gives best parameters for the optimal condition with least number of analytical invention.
- Therefore Taguchi method has great potential in area of low cost experiments.

Optimization Of Turning Parameters Using Taguchi Method

**Rajesh Kumar,R. K.
Dohare,Harishchandra Dubey,V. P.
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and Production time of item The developing rivalry for higher profitability with great surface finish has made the need of utilizing top notch machining instrument The significant cutting parameters in confronting process chiefly cutting speed feed rate depth of cut influence the Tool life and Production time of the completed material This paper reviews the streamlining of cutting parameters in confronting process utilizing Taguchi method An exceptionally structured symmetrical exhibit of Taguchi is utilized to examine the impact of slicing parameters through the modest number of analyses Taguchi technique is an integral asset of improvement ANOVA is utilized to discover which input parameters altogether influence the execution attributes Sign to Noise S N proportion is utilized to gauge the varieties of test information

1 INTRODUCTION

Turning is a machining procedure used to get the ideal element of round metal The primary objective in present mechanical period is to create minimal effort quality item with required measurements in an optimum time Therefore the optimum cutting parameters are to be perceived first In turning the metal is in rotational movement and a cutting tool is utilized to shear away the undesired metals This procedure requires lathe machine or turning machine cutting tool work piece and fixture The work piece is fixed in the machine chuck and is pivoted at rapid The cutting tool is taken care of in corresponding to the hub of turn During this machining procedure the cutting parameters profoundly relies on the work piece cutting tool material and so on These are dictated by understanding or machine catalogue Surface roughness Tool life and machining time is a widely used attribute of product quality and in most cases a technical necessity for mechanical products Thus the optimum selection of cutting parameters such as feed rate depth of cut cutting speed etc generates optimum conditions during machining and becomes the main exigency of manufacturing industry Surface roughness Tool life and machining time is an important criterion to find the quality of a surface It is an important response parameter In machining process various parameters are

Input Parameters Cutting speed Feed rate Depth of cut Insert radius Cutting fluid etc Output Parameters surface roughness Tool life and machining time

Proceeding of 6th International Conference on Advances in Manufacturing and Materials Engineering Md Abdul Maleque,2025 Zusammenfassung This book presents the proceeding of 6th International Conference on Advances in Manufacturing and Materials Engineering ICAMME 2024 August 13 14 Kuala Lumpur Malaysia It presents articles in topics that outline the state of the art information in manufacturing and materials engineering for academia and industries The topics represent the strong synergy between manufacturing materials design and management supporting the transition from product service systems to life cycle engineering services as a contributor to high value manufacturing The scope of this book also presents a set of new additive manufacturing 3D printing and advanced materials with new technology green technology for United Nations SDGs modeling and simulation of materials and manufacturing with some classical case examples It caters to academics and industrial practitioners who have research interests in the latest advances in manufacturing and materials engineering

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Table of Contents Optimization Of Turning Parameters Using Taguchi Method

1. Understanding the eBook Optimization Of Turning Parameters Using Taguchi Method
 - The Rise of Digital Reading Optimization Of Turning Parameters Using Taguchi Method
 - Advantages of eBooks Over Traditional Books
2. Identifying Optimization Of Turning Parameters Using Taguchi Method
 - 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 Optimization Of Turning Parameters Using Taguchi Method
 - User-Friendly Interface
4. Exploring eBook Recommendations from Optimization Of Turning Parameters Using Taguchi Method
 - Personalized Recommendations

- Optimization Of Turning Parameters Using Taguchi Method User Reviews and Ratings
- Optimization Of Turning Parameters Using Taguchi Method and Bestseller Lists
- 5. Accessing Optimization Of Turning Parameters Using Taguchi Method Free and Paid eBooks
 - Optimization Of Turning Parameters Using Taguchi Method Public Domain eBooks
 - Optimization Of Turning Parameters Using Taguchi Method eBook Subscription Services
 - Optimization Of Turning Parameters Using Taguchi Method Budget-Friendly Options
- 6. Navigating Optimization Of Turning Parameters Using Taguchi Method eBook Formats
 - ePub, PDF, MOBI, and More
 - Optimization Of Turning Parameters Using Taguchi Method Compatibility with Devices
 - Optimization Of Turning Parameters Using Taguchi Method Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Optimization Of Turning Parameters Using Taguchi Method
 - Highlighting and Note-Taking Optimization Of Turning Parameters Using Taguchi Method
 - Interactive Elements Optimization Of Turning Parameters Using Taguchi Method
- 8. Staying Engaged with Optimization Of Turning Parameters Using Taguchi Method
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Optimization Of Turning Parameters Using Taguchi Method
- 9. Balancing eBooks and Physical Books Optimization Of Turning Parameters Using Taguchi Method
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Optimization Of Turning Parameters Using Taguchi Method
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Optimization Of Turning Parameters Using Taguchi Method
 - Setting Reading Goals Optimization Of Turning Parameters Using Taguchi Method
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Optimization Of Turning Parameters Using Taguchi Method
 - Fact-Checking eBook Content of Optimization Of Turning Parameters Using Taguchi Method

- 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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