

## Optimization of Turning Parameters Using Taguchi Method

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**Abstract:** Today in manufacturing and metal industries customer satisfaction is very important to make own place in competitive market and also to make mirror image with faith in the heart of customer, because customer gives preference to buy good quality product. In the metal and manufacturing industries for the product low surface roughness is very important. Lowest surface roughness assures not only good quality but also reduces manufacturing cost. In this paper the main objective is to study effect of cutting speed, feed rate and depth of cut on surface roughness of mild steel in turning operation and as a result of that the combination of optimum level of factors was obtained to get lowest surface roughness. Experiments have been conducted using Taguchi's experimental design technique. An orthogonal array, signal to noise ratio, and analysis of variance are employed to investigate cutting characteristics of mild steel using high speed steel. Experimental results show that among the cutting parameter cutting speed is the most significant machining parameter for surface roughness followed by feed rate and depth of cut.

**Keywords:** Surface roughness, Turning operation, S/N Ratio.

### I. Introduction

The machining processes generate a wide variety of surface textures. Surface texture consists of the repetitive and random deviations from the ideal smooth surface. These deviations are

- Roughness: small, finely spaced surface irregularities (micro irregularities)
- Waviness: surface irregularities of greater spacing (macro irregularities)
- Lay: predominant direction of surface texture

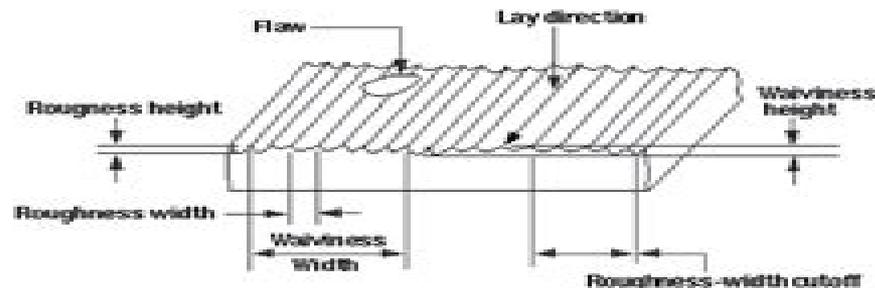


Fig 1: Surface characteristics

Three main factors make the surface roughness the most important of these parameters:

- Fatigue life: The service life of a component under cyclic stress (fatigue life) is much shorter if the surface is high.
- Bearing properties: A perfectly smooth surface is not a good because it cannot maintain a lubricating film.
- Wear: High surface roughness will result in more intensive surface wear in friction.

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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

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