

MILLING- INTRODUCTION:

Milling is the machine operation in which the removal of metal from the work piece takes place due to a rotating cutting tool (cutter) when the work is fed past it. The cutter has multiple cutting edges and rotates at a very fast rate. The rotating cutting tool known as the "Milling Cutter" is a multiple point tool having the shape of a solid revolution with cutting teeth arranged either on the periphery or on end or on both. The revolving cutter is held on a spindle or arbor and the work piece is clamped or bolted on the machine table or may be in a vise or a three jaw chuck or an index head held or a rotary table etc. The milling process is employed for producing flat contoured or helical surfaces, for making helical grooves, to cut teeth and toothed gears.

WORKING PRINCIPLE OF MILLING:

Below figure illustrates the working principle employed in metal removing operation on a milling machine. The job or work piece is rigidly clamped on the table of the machine or in a chuck or an index head and revolving multitooth cutter is mounted either on a spindle or an arbor. The job is fed slowly past the cutter. The work can be fed in a vertical, longitudinal or cross direction. With the movement of the work piece, the cutter teeth remove metal from the job in the form of chips to produce the desired shape.



Fig.: Working Principle of Milling Machine

MILLING METHODS:

There are two distinct methods of milling classified as follows:

1. **Up-milling or conventional milling:** In the up-milling or conventional milling, the metal is removed in form of small chips by a cutter rotating against the direction of travel of the work piece.
2. **Down milling or climb milling:** Down milling is also known as climb milling. In this method, the metal is removed by a cutter rotating in the same direction of feed of the work piece.

Mechanical Engineering Practices Lab Manual

Michael Hoelscher



Mechanical Engineering Practices Lab Manual:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Mechanical Engineering Practices Lab Manual**

In some sort of inundated with screens and the cacophony of immediate conversation, the profound power and emotional resonance of verbal beauty usually diminish into obscurity, eclipsed by the constant onslaught of sound and distractions. However, set within the lyrical pages of **Mechanical Engineering Practices Lab Manual**, a fascinating function of literary elegance that pulses with raw feelings, lies an unforgettable journey waiting to be embarked upon. Published by a virtuoso wordsmith, that enchanting opus instructions viewers on an emotional odyssey, gently revealing the latent potential and profound affect embedded within the complex web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book's main themes, dissect their charming publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers' souls.

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