

## 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 multitoothed 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

**G Thomas**



## **Mechanical Engineering Practices Lab Manual:**

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