

## Experiment No.01

### Objective

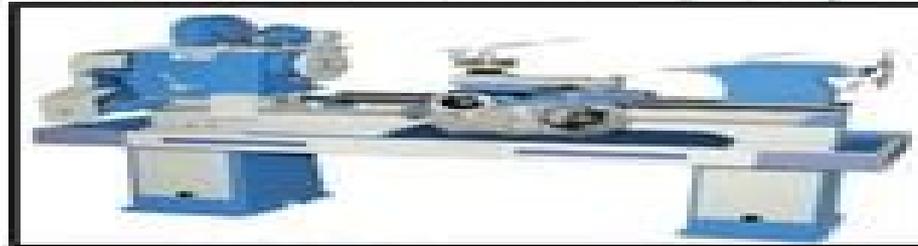
To study the different parts of Lathe machine, milling machine, grinding machine, drilling machine, their functions & types.

### Introduction

Machining is the process of converting the given work piece into the required shape and size with help of a machine tool. The most widely used machine tool is lathe. In simple words machining is the process of removing certain material from the work piece.

### Lathe machine

Lathe is the machine tool which is used to perform several operations on the work piece. Lathe is useful in making several parts which is further assembled to make new machine. Hence lathe is known as "mother of machines".



### BASIC WORKING PRINCIPLE OF LATHE

In lathe, the work piece is held in the chuck, a work holding device. The cutting tool is mounted in the tool post. The chuck is rotated by means of power. When the chuck rotates, the work piece also rotates. The tool is moved against the rotating work piece by giving small amount of depth of cut. The material is removed in the form of chips. Continuous feed and depth of cut is given until the required dimensions are obtained in the work piece.

### Parts of Lathe machine

#### 1. Bed

It is the base of the machine. On its left side, the head stock is mounted and on its right a free movable casting known as tailstock. Its legs have holes to bolt down on the ground.

#### 2. Head stock

It consists of spindles, gears and speed changing levers. It is used to transmit the motion to the job. It has two types one is the headstock driven by belt and the other one is the gear driven.

#### 3. Carriage

Carriage is used to carry a tool to bring in contact with the rotating work piece or to withdraw from such a contact. It operates on bed ways between the headstock and tail stock.

#### 4. Saddle

# Machining Lab Manual

**Rachel S Tattersall**



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