

## MACHINE SHOP

The shop where machining operations are performed. Machining is a manufacturing process in which the raw material is processed by removing unwanted material with the help of machines. Different machines used in machine shop are:

1. Lathe machine
2. Shaper
3. Milling machine
4. Planing machine
5. Drilling machine
6. Grinding machine
7. Threading machine

### **LATHE**

A lathe is a powered mechanical device in which the work is held and rotated against a suitable cutting tool for producing cylindrical forms in the metal, wood or any other machinable material.

#### **TYPE OF LATHE**

- a) Precision lathe
- b) Tool room lathe
- c) Capstan and turret lathe
- d) Automatic lathe
- e) Speed lathe
- f) Engine lathe
- g) Bench lathe
- h) Special purpose lathe

#### **THE PRINCIPLE OF LATHE**

1. **BED:** The bed is the base or foundation of lathe. It is casting made in one piece. It holds or support all other parts of lathe.
2. **HEAD STOCK:** It is a permanently fastened on the innerways at the left hand end of the bed. It supports spindle and driving arrangements. All lathe receive their power through head stock.
3. **TAILSTOCK:** It is the counter part of head stock and is situated at the right end of the bed. It is used for supporting the work when turning on centers or when a long component is to be held in a chuck.

# Mechanical Engg Basic Workshop Lab Manual

**Clifford Lane**



## **Mechanical Engg Basic Workshop Lab Manual:**

Uncover the mysteries within Crafted by is enigmatic creation, Embark on a Mystery with **Mechanical Engg Basic Workshop Lab Manual** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( PDF Size: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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