

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

R Bogdan



Mechanical Engg Basic Workshop Lab Manual:

Reviewing **Mechanical Engg Basic Workshop Lab Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Mechanical Engg Basic Workshop Lab Manual**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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