

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 the lathe. It is a casting made in one piece. It holds or supports all other parts of the lathe.
2. **HEAD STOCK:** It is permanently fastened on the innerways at the left hand end of the bed. It supports the spindle and driving arrangements. All lathes receive their power through the head stock.
3. **TAIL STOCK:** It is the counter part of the 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.

Btech Basic Mechanical Engineering Workshop Manual

N. Balasubramanyam, G. Prasanthi



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Vehicle Structures Institution of Mechanical Engineers (Great Britain). Automobile Division, 1984 Indian Books in Print

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in the Midwest , 1990 A biographical dictionary of noteworthy men and women of the Central and Midwestern States

Engineering Workshop Manual for Students, Apprentices, Fitters, Turners, and General Machinists ... Ernest Pull, 1946

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