

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

Rachel Sandford



Mechanical Engg Basic Workshop Lab Manual:

The Workman's Manual of Engineering Drawing John Maxton, 1891 *The figures, facts and formulæ of photography, and guide to their practical use* Henry Snowden Ward, 1903 **Annual Report of the Department of the Interior** United States. Department of the Interior, 1883 **The Practical Engineer's Hand-book** Walter S. Hutton, 1902

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Bombay India. Industrial Commission, 1919 **Parliamentary Papers** Great Britain. Parliament. House of Commons, 1902 **Minutes of Evidence ...** India. Indian industrial commission, 1916-18, 1918 *Whitaker's Cumulative Book List* , 1966 **Report** Commonwealth Shipping Committee, 1919 Bengal and Central Provinces India. Industrial Commission, 1919 **Minutes of Evidence, 1916-18: Bengal and Central Provinces** India. Industrial Commission, 1918

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