

## 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

**Ernest PULL**



## **Btech Basic Mechanical Engineering Workshop Manual :**

**A Text Manual of Engineering Workshop Technology** N. Balasubramanyam, G. Prasanthi, 2016-05-26 This book on Basic Engineering Workshop Technology has been written as per curriculum of JNT University to help first Year B Tech Students This subject matter is presented in simple language and in a proper sequence so that an average student can be easily grasp the subject matter At the end of each exercise a model viva voce questions is given for the benefit of the book reader and appearing for their lab External examinations and other competitive examinations *International Conference on Vehicle Structures* Institution of Mechanical Engineers (Great Britain). Automobile Division, 1984 Cover title Vehicle structures **Indian Books in Print**, 2003 Engineering Workshop Manual E. Pull, 1990 **Engineering Workshop (Group A)** B Varun, 2020-02-05 Designed for the core course on Engineering Workshop offered to all first year Engineering students This manual presents clear and concise explanation on the basic principles of manufacturing and equips students with overall knowledge on welding and sheet metal works This book describes the general principles of different workshop processes such as Metal joining process surface finishing and heat treatment The book also describes the basic machining processes such as simple turning facing and step turning processes etc **Engineering Workshop Manual for Students, Apprentices, Fitters, Turners, and General Machinists** Ernest Pull, 1946 **Engineering Workshop Manual** E. Pull, 1941 *Engineering Workshop Manual... With... Rules, and Tables* E. Pull, 1946 *Engineering Workshop Manual* Ernest Pull, 1930 **Engineering Workshop Manual ... Tenth edition, revised and ... enlarged** Ernest PULL, 1943 **Engineering Workshop Manual ... Eleventh Edition, Etc** Ernest PULL, 1946 Engineering Workshop Manual, Etc Ernest Pull, 1946 **Engineering Workshop Manual ... Sixth Edition ... of "The Engineering Workshop Handbook."** Ernest PULL, 1928 *Workshop Manual, 2/e* P. Kannaiah, 2009 Who's who in the Midwest, 1990 A biographical dictionary of noteworthy men and women of the Central and Midwestern States **Who's who in Finance and Business**, 2008 **Who's Who in the Midwest, 1990-91**, 1990-10 Government Reports Announcements, 1975 **Engineering Workshop Manual ... Eighth Edition, Revised and Considerably Enlarged** Ernest PULL, 1941 **Engineering Workshop Manual ... Seventh Edition, Revised and Considerably Enlarged** Ernest PULL, 1940

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