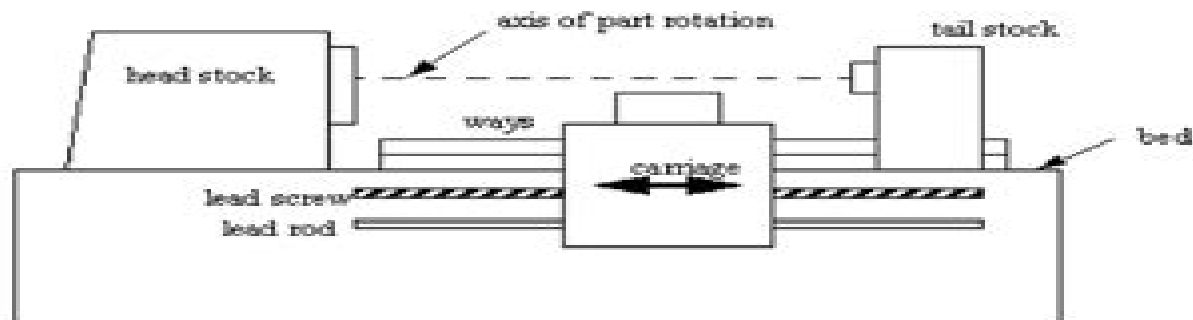


EXPERIMENT NO. 1

OBJECT :- Study the lathe machine, lathe tools cutting speed, feed and depth of cut.

INTRODUCTION

- A lathe is a large machine that rotates the work, and cutting is done with a non-rotating cutting tool. The shapes cut are generally round, or helical. The tool is typically moved parallel to the axis of rotation during cutting.
- Manual lathes have the following major components,
 - General classifications used when describing lathes are,
 1. - Swing - the largest diameter of work that can be rotated.
 2. - Distance Between Centres - the longest length of workpiece
 3. - Length of Bed - Related to the Distance Between Centres
 4. - Power - The range of speeds and feeds, and the horsepower available
- The critical parameters on the lathe are speed of rotation (speed in RPM) and how far the tool moves across the work for each rotation (feed in IPR).



head stock - this end of the lathe contains the driving motor and gears. Power to rotate the part is delivered from here. This typically has levers that let the speeds and feeds be set.

ways - these are hardened rails that the carriage rides on.

tail stock - this can be used to hold the other end of the part.

bed - this is a bottom pan on the lathe that catches chips, cutting fluids, etc.

carriage - this part of the lathe carries the cutting tool and moves based on the rotation of the lead screw or rod.

lead screw - a large screw with a few threads per inch used for cutting threads.

lead rod - a rod with a shaft down the side used for driving normal cutting feeds.

Lathe Machine Experiment Manual

Jerry H. Service, George E. Frease



Lathe Machine Experiment Manual:

A Laboratory Manual of Machine Shop Practice Jerry H. Service, George E. Frease, 1924 **Engineering Practices Lab Manual - 5Th E T Jeyapoovan Nadar**, Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil Mechanical Electrical and Electronics areas The manual details the various tools to be used and exercises to be practiced in the application of engineering practices in each field *A Laboratory Manual of Machine Shop Practice* Jerry H. Service, George E. Frease, 1924 Workshop / Manufacturing Practices | AICTE Prescribed Textbook - English Veeranna D. Kenchakkanavar, 2021-11-01 The textbook on Workshop Manufacturing Practices is designed to cater the needs of young minds of 21 century The AICTE model curriculum and National Education Policy has driven a new wave in the technical education The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective The Workshop is the place where the core of learning about different materials equipment tools and techniques takes place Basically the workshop used to prepare the small components by hand tools Sometimes they may be parts of the large machines or may may be parts for replacement repairs In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage The relevant practical examples are quoted to make the readers more comfortable with product and processes The blooms taxonomy is followed in construction of each chapters and exercises The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations Salient Features l Manufacturing Methods l CNC Machining Additive manufacturing l Fitting operations power tools l Electrical Electronic l Carpentry l Plastic moulding glass cutting l Metal casting l Welding arc welding gas welding brazing l Laboratory experiments and models l Appendices l References **Challenges for Technology Innovation: An Agenda for the Future** Fernando da Silva, Helena Maria Bártolo, Paulo Bártolo, Rita Almendra, Filipa Roseta, Henrique Amorim Almeida, Ana Cristina Lemos, 2017-04-21 The world is undergoing a profound transformation driven by radical technological changes and an accelerated globalisation process A new culture of greater resource efficiency and disruptive innovation will require new technologies processes and materials fostering new knowledge innovation education and a digital society bringing forward new business opportunities and novel solutions to major societal challenges Challenges for Technology Innovation an Agenda for the Future is the result of the 1st International Conference on Sustainable Smart Manufacturing S2M held at the Faculty of Architecture in Lisbon Portugal on October 20 22 2016 It contains innovative contributions in the field of Sustainable Smart Manufacturing and related topics making a significant contribution to further development of these fields This volume covers a wide range of topics including Design and Digital Manufacturing Design Education Eco Design and Innovation Future Cities Medicine 4 0 Smart Manufacturing Sustainable Business Models Sustainable Construction Sustainable Design and Technology and Sustainable Recycling CNC SIMPLIFIED, Lab Manual Arthur Gill Peter Smid Steve Krar, Stephen F. Krar, Arthur Gill, Peter Smid, 2000

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