

Experiment no. 6

Aim : To Design a connecting rod.

Function: The main function of the connecting rod is to transmit the push and pull from the piston pin to crank pin. In many cases its secondary function is to convey the lubricating oil from the bottom end to the top end i.e. from the crank pin to the piston pin and then for splash of jet cooling of piston crown.

Materials: The materials for connecting rods range from mild or medium carbon steels to alloy steel. For high speed engines the connecting rods may also be made of duralumin and aluminium alloys

Shape of connecting rod: I and H sections are most common sections used for connecting rod

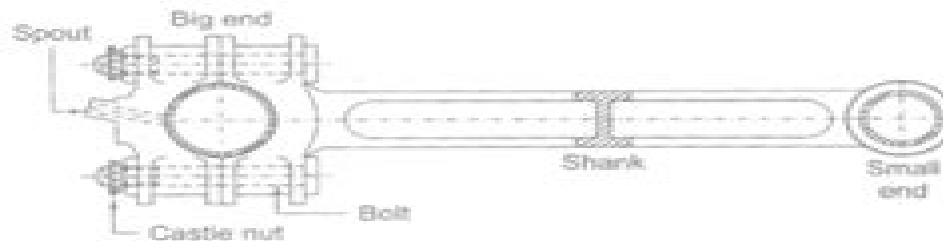


Fig. 6.1 Connecting Rod

Stresses in connecting rod

The various forces acting on the on connecting rod are

1. The combined effect of gas pressure on the piston and inertia of the reciprocating parts
2. Friction of piston rings and that of piston.
3. Inertia of connecting rod.
4. The friction of two end bearings i.e. piston pin bearing and crank pin bearing.

Mechanical Design Lab Manual

RS Peters



Mechanical Design Lab Manual:

Mechanical Design Lab Manual Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Mechanical Design Lab Manual**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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