

### 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

**L Reisser**



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fig 9 5 b with the current source replaced by an open circuit applying ohm's law  $i_{15}$  a since  $i_1$  and  $i_{11}$  have the same  
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