

EXPERIMENT NO. 5

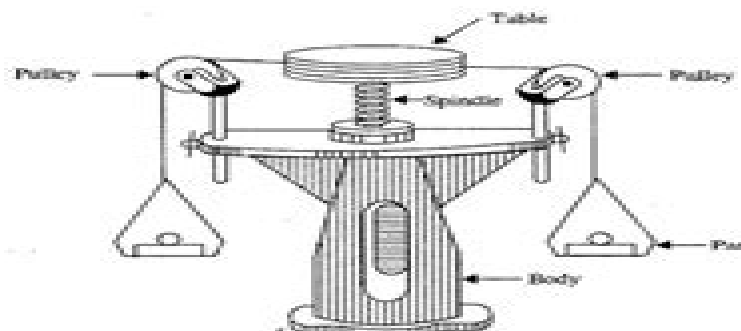
AIM: TO FIND THE MECHANICAL ADVANTAGE, VELOCITY RATIO AND EFFICIENCY OF SIMPLE SCREW JACK.

APPARATUS: Screw jack apparatus, pans, weights, string, vernier calipers, meter rod etc.

Theory: The screw jack is a simple machine by means of which heavy loads can be raised with the application of small effort. It works on the principle of screw and nut. The screw is rotated with the help of a tommy bar at the end of which an effort is applied. By doing so, the screw passing through the nut is raised and so is the load placed on its head.

The screw jack show in Figure is only experimental. It consist of a square threaded screw which is provide with double flanged circular table at its top to carry load to be lifted. The heavy body is providing with the two pulleys to hang the loads which act as an effort.

Let the pitch of the screw be p and D the diameter of the flanged table on which the load W is to be placed and lifted.



SCREW JACK APPARATUS
Fig. LW-11

Let the table turns through one revolution.

Then, the distance through which load rises in one revolution = p

Effort moved in one revolution = πD

$$\therefore V.R = \frac{\pi D}{p}$$

Weight on the table = W kg

Applied Mechanics Lab Experiments Manual

William Hubert Burr



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