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Product Name :
Gearbox Apparatus

Product Code :
LBNY-0005-14000017



Description :

Gearbox Apparatus can be slid across each other by the use of a lever with ball knob and the whole gearbox can be rotated using the rotating handle attached on the side of the input pulley. The gears are industry standard gears finished in high quality and mesh together in different ratios within the frame. A study wall mounted frame houses all the gears, shafts, bearings and levers contained within this apparatus. All gears run on shafts fitted into bearings and the changing mechanism ensures smooth transition. A 'H' style change with gear change lever and knob allows the use of the different gears within the system.

Protractors on the input and output shaft pulleys are fitted. A set of masses and hangers is supplied to allow the shafts to be driven. The input and output pulleys allow loads to be applied for lifting and lowering. This unit is hand operated. A set of clear, transparent guards are fitted so that safety is maintained and clear visibility is ensured.

Experimental Capabilities:

Measure of the angular displacement at the input and output of the gear box and comparison with the calculated values

Enables velocity and torque ratios to be determined.

Calculation of the efficiency for different ratios according to the torque at entry

Technical Specification :

Module 1 gears

Pulley diameter 87.5mm

H selection of gears

20tooth, 26tooth, 52tooth, 39tooth gears in system

Three (3) forward gears and one(1) reverse
Input and Output shaft can be reversed
Two (2) hangers of 100g each
Set of slotted weights.



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