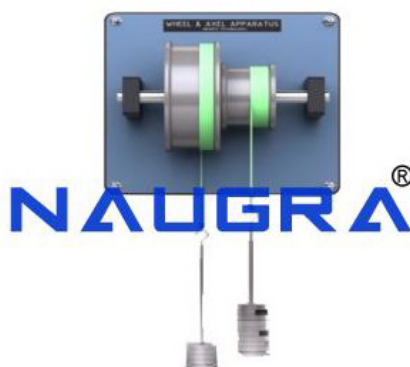


Product Name :
Wheel And Axle Apparatus

Product Code :
NLAB-MECHANICALAB240027



Description :

Wheel And Axle Apparatus

Technical Specification :

The model demonstrates the conditions of equilibrium on a differential pulley block. Three anodised aluminium pulleys of different diameter are fitted to a shaft mounted on ball bearings. The forces act, on the one hand, directly on the peripheral of the largest pulley, on the other hand, via a loose pulley on two smaller pulleys. Easy to interchange weights permit the load to be varied such that equilibrium is obtained. The model is intended for wall mounting.

Learning Objectives / Experiments

Equilibrium of forces

Equilibrium of moments

Relationship between force reduction and cord travel

Wheel And Axle Apparatus

Specification

Experiment on the equilibrium of forces and moments on a differential pulley block

3 pulleys made of anodised aluminium

2 sets of weights

Ball bearing mounted steel shaft

Anodized aluminum base plate

Technical Data

Pulley diameter

D=250mm

D=100mm

D=50mm

Loose pulley

D=75mm

Base plate

wxh: 300x250mm

hole spacing: 280x230mm, D=10mm

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