

Product Name :
Worm and Wheel Apparatus**Product Code :**
ALABS-A179-088ALTEC™**Description :****Worm and Wheel Apparatus**

The permits investigations of the torques and the efficiency of the gear unit. The transmission ratio of the gear can be determined. Students learn the basic terminology of gearing in a simple manner: numbers of teeth; modulus; reference circle and axle base. The worm gear wheel and worm are ball bearing-mounted. The forces are generated by the sets of weights and can be quickly and easily varied. The model is intended for wall mounting. The well-structured instructional material sets out the fundamentals and provides a step-by-step guide through the experiments.

Specification:

1. Demonstration and student experimental unit on the set-up and principle of a worm gear
2. Bronze worm gear wheel
3. Steel worm
4. 2 Aluminium side drums

5. 2 sets of weights

6. Worm, worm gear wheel and pulleys ball bearing-mounted

7. Anodised aluminium base plate

Technical Data:

Side drum diameter

- on worm shaft: $d=40\text{mm}$

- on worm gear wheel shaft: $d=120\text{mm}$

Worm drive

- axle base: 80mm

- transmission ratio: $30:1$

- modulus: $m=4\text{mm}$

- number of gears: 1

- power transmission: 10

Weights on worm side

- 1x 50N

- 1x 20N

- 2x 10N

- 1x 10N (suspended with balance mass)

Weights on worm gear wheel

- 1x 5N

- 4x 2N

- 1x 1N

- 1x 0,5N

- 1x 0,5N (suspended)

Base plate

- LxWxH: 250x200x12mm



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