

# EQUIPMENT FOR TESTS ON PULLEY SYSTEMS

## Mod. F-CAR/EV

### DESCRIPTION

A pulley is a simple machine used to hoist loads. Pulleys may be fixed, moving and compound.

This is a very versatile equipment and it is used for the demonstration of various concepts concerning pulleys and their configuration.

It consists of a rectangular base of Formica-coated wood, with 2 supports for metallic rods. Another horizontal rod with the same dimensions of the two other rods rests on the two hooks available at the top of the vertical rods.

The equipment also includes eight hooked rings that can be inserted in the horizontal rod for hanging various pulleys.

A capstan provided with hook is fixed at one end of the wooden base to apply another pulley to the other end of the base.

All the components and the relevant directions are packed in a box.

### TRAINING PROGRAM

- Mechanical differences between single and double pulley
- Mechanical advantage of a pulley in 4 steps
- Mechanical advantage of single, double, triple tandem, triple, quadruple pulleys

### TECHNICAL SPECIFICATIONS

- Pulleys: 7 single pulleys, 2 triple tandem pulleys, 2 quadruple pulleys
- Base of wood: 81 x 20 cm, with 2 supports, a capstan and a closed hook
- 3 rods (diameter of 12.5 mm and length of 81 cm)
- 8 hooked rings
- 3 hooks for rods
- 1 pin and wheel
- 1 roll of string
- 1 operation crosspiece for tightening the vertical rods
- Masses of brass, with slots: 2 x 10 gm, 2 x 20 gm, 2 x 50 gm, 4 x 100 gm, 4 x 200 gm, 1 x 500 gm; 15 total weights.
- Hooks for brass weights: 5 x 50 gm, 1 x 20 gm, 1 x 10 gm; 7 total hooks.



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