

# DEMONSTRATION OF PELTON TURBINE

## Mod. HB16/EV

### DESCRIPTION

The equipment consists of a miniature Pelton turbine with spear valve and mounted on bearings. The power produced by the turbine can be measured through a dynamometer.

The bottom of the turbine is open in order to let the water flow inside the hydraulics bench. The front face of the turbine is transparent allowing an easy observation of the behaviour of the water jet on the blades. The pressure at inlet of the nozzle can be read on a pressure gauge.



### TRAINING PROGRAM:

- Determining the operating characteristics of a Pelton turbine at various speeds of its rotor

### TECHNICAL CHARACTERISTICS:

- AISI 304 stainless steel Pelton turbine,  $d = 100$  mm,  $n^\circ$  of blades = 20
- Speed: 0 to 2000 r.p.m. approx.
- Power: 10 Watt
- Pressure gauge: 0 to 2.5 bar
- Two 10-N dynamometers, division 0.1 N
- Portable digital tachometer

**Dimensions:** 430 × 260 × 600 (h) mm  
**Weight:** 7 kg

### REQUIRED

**HYDRAULIC BENCH MOD. HB/EV OR HB-E/EV**  
- NOT INCLUDED -  
or water supply (@2 bar) and drain



### SUPPLIED WITH

**THEORETICAL-EXPERIMENTAL  
HANDBOOK**



### OPTIONAL

**SPREADSHEET SOFTWARE**  
For fluid mechanics equipment  
**Mod. SW-HB16/EV**

