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Product Name :
Demonstration Pelton Turbine

Product Code :
SCHOOL-FUD810010



Description :

Demonstration Pelton Turbine

Technical Specification :

FEATURES:

Model of an impulse turbine

Design and function of a Pelton turbine

Determination of torque, power and efficiency

Graphical representation of characteristic curves for torque, power and efficiency

Function of a Pelton turbine

Transparent front panel for observing the operating area

Loading the turbine by use of the band brake

Adjustable nozzle needle for setting different nozzle cross-sections

Marking on brake drum for non-contact speed measurement

Instruments: spring balances for determining the torque, manometer shows pressure at turbine inlet.

The experimental unit is positioned easily and securely on the work surface.

SPECIFICATION:

Pelton turbine :

Output: 5W at 500min⁻¹, approx. 30L/min, H=2m

Needle nozzle :

Jet diameter: 10mm

Pelton wheel :

14 blades

Blade width: 33,5mm

External Ø: 132mm

Measuring ranges :

Force: 2x 0...10N

Pressure: 0...1bar

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