Description

Pelton Turbine

Description:-

A simple mechanical brake and spring balance assembly attached to the shaft of the Pelton wheel applies a variable mechanical load (torque). Students use this with the speed to find power absorbed by the turbine. A gauge measures inlet pressure.

Students adjust the spear valve and measure inlet pressure, flow rate and torque. They plot these values to find the turbine performance. A compact experiment for use with the Hydraulic Bench to demonstrate how a Pelton turbine works and to test its performance. The unit consists of a Pelton wheel mounted in a corrosion-resistant enclosure. A transparent front panel allows students to see the turbine working. An optional Stroboscope can ‘freeze’ the image of the turbine to help students better understand how it works. An adjustable spear valve directs a jet of water through a nozzle to the buckets of the Pelton wheel to make it turn. Manual adjustment of the spear valve controls the water jet from the nozzle.

Didac Scientific Pvt. Ltd,
Martinfield Business Centre, 108 Martinfield, Welwyn Garden City ,
United Kingdom
Direct Contact Details
sales@didacscientific.co.uk
www.didacscientific.co.uk/