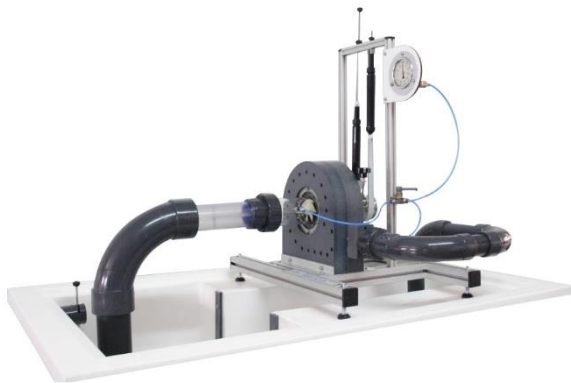




KAPLAN TURBINE - BRAKE FRICTION



DL DKH014

The system simulates a small scale Kaplan turbine, especially designed for educational purposes. It is delivered with 3 impellers with different angles of input and output, which can be exchanged in a fast and simple way.

The trainer is designed for the study and the demonstration of the behavior and the characteristics of a Kaplan turbine.

TRAINING OBJECTIVES

- Characteristic curves of the turbine:
 - Torque - speed ($M-n$)*.
 - Brake power – rotational speed (P_e-n)*.
 - Performance – rotational speed ($\eta-n$)*.
 - Torque - U ($M-U$)
 - Brake power - U (P_e-U)
 - Performance - U ($\eta-U$)
- Curves of Iso-yield.

- *For speed measure, a tachometer or stroboscope is required (not supplied)

TECHNICAL DATA

Gauge:

- Bourdon with glycerin.

Brake Type:

- Friction brake.

Turbine

- Type: Kaplan
- Number of fins: 4
- Fins angle: manually adjustable
- Fins vanes

Dynamometers

- 2 x dynamometers: 5kg x 25g

Necessary accessory:

DL DKL017 – High Flow Hydraulic Bench

This hydraulic bench is a simple, mobile, self-contained equipment that allows a supply of "hydraulic energy", i.e., an accurately controlled and measurable flow of water.

It includes two volumetric tanks, two pumps, a stopwatch, with a mobile framework on wheels.

