

**Product Name :**  
Francis Turbine Trainer**Product Code :**  
EEMECH45M0060ALTEC™**Description :**

Francis Turbine Trainer

**Technical Specification :**

- A centrifugal pump and a flow control valve for adjusting the inlet pressure.
- The transparent operating area of the turbine enables an optimal view of water flow, rotor and guide vanes during operation.
- By adjusting the guide vanes the angle of attack, the cross-section and thus the output of the turbine are changed. An asynchronous machine is used as a generator. The generator is equipped with a pendulum bearing and with a force sensor to determine the torque.
- A pump with variable speed via frequency converter provides for an energy efficient operation.
- The measured values are displayed digitally and can be processed further on a PC.
- The speed of the turbine is recorded by means of an inductive, non-contact position sensor at the generator shaft.
- The pressures at the inlet and outlet of the turbine, the temperature and the flow rate are recorded by sensors.
- Hydraulic power: 2,1kW at 1500min-1

- Mechanical power: approx. 1,4kW at 1500min-1
- Rotor, D: 165mm
- 8 blades, 8 guide vanes
- Angle of attack adjustable: 0...23°
- Centrifugal pump, multistage.
- Pump head: 42m
- Tank: 550L
- Power consumption: 5,5kW
- Max. Flow rate: 900L/min
- Asynchronous machine as generator
- Output: 2,2kW at 1440min-1
- Temperature: 0...100°C
- Pressure (inlet): ±1bar (turbine)
- Pressure (outlet): 0...6bar (turbine)
- Flow rate: 0...1000L/min
- Torque: 0...20Nm
- Speed: 0...3000min-1
- 0...2200W (generator)
- 400V, 50Hz, 3 phases
- 400V, 60Hz, 3 phases, 230V, 60Hz, 3 phases

Dimension: 2350x1050x2050mm

Weight: approx. 580kg



## Equipments Exporters

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