

**Product Name :**  
Demonstration Francis Turbine

**Product Code :**  
EEMECH45M0058

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**Description :**

Demonstration Francis Turbine

**Technical Specification :**

- The turbine torque is determined by force measurement on a band brake and is read on spring balances.
- For measuring the rotational speed, a non-contact speed sensor.
- A manometer shows the water pressure at the turbine inlet.
- Water turbines are turbo machines utilizing waterpower.
- The water is fed in the control device by means of a spiral housing.
- The Francis turbine is part of the reaction turbines, which convert the pressure energy of the water into kinetic energy in the control device and in the impeller.
- The flowing water is accelerated in the control device by the adjustable guide vanes and directed onto the vanes of the impeller.
- The redirection and further acceleration of the water in the impeller generates an impulse, which is transmitted to the Francis wheel.
- Output: 350W at 1500min-1, 270L/min, H=15m (approx.)

- Max. Speed: 3000min-1
- Rotor, 11 blades, 7 vanes
- Medium diameter: 60mm
- Angle of attack: 0...20°
- Torque: 0...9,81Nm
- Pressure: 0...4bar abs.
- Speed: 0...4000min
- Dimension: 1000-x800 x 1200 mm
- Weight: 90kg



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**Address:** 75, Lajpat Nagar-IV, New Delhi-110024 **Phone:** +91-9311469084