



THE LAB EQUIPMENT

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Product Name :

Demonstration Francis Turbine

Product Code :

SLE/MCE/44



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Description :

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- 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.

Specification:

- **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°

Measuring ranges:

- **Torque:** 0...9,81Nm
- **Pressure:** 0...4bar abs.
- **Speed:** 0...4000min
- **Dimension:** 1000-x800 x 1200 mm
- **Weight:** 90kg

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