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Product Name:
Air Operated Reaction Turbine

Product Code: LBNY-0005-10300082



Description:

This demonstration unit is part of an equipment series that facilitated investigations on pneumatically driven turbines. The flow rate in the system is measured with a variable-area flowmeter. For the operation of the unit, a mains connection and a compressed air supply are required. Inlet and outlet pressure at the turbine are indicated on easy to read dial instruments. For exact measurements the table unit is equipped with electronic sensors for recording temperature, speed and torque, the values recorded are indicated on digital displays.

Technical Specification:

Turbine loading using belt brake
Speed measurement with proximity switch
Moment measurement using force sensor
Compressed air supply 300ltr/h
Wheel diameter 50mm
Max. Turbine power output 50W at 40000rpm
Table unit for the investigation of a reaction turbine with air flow I x w x h 900x370x750mm, 35kg.

Technical Data:

Radial impulse turbine

Max. power: 25 W at 30000 rpm

Wheel diameter: 50mm

4 outlet nozzles, diameter of each 1.5mm

Measuring ranges

Flow rate measurement 25...315 ltr/min Inlet pressure measurement 0...2.5bar Outlet pressure measurement 0...0.1bar Temperature measurement "20...1100°C Torque measurement 0...10Ncm Speed measurement 0...50000rpm Dimensions and Weight Lxwxh: 900 x 370 x 750 mm

Weight: 35 kg.



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