

Product Name :
Coriolis Force Apparatus**Product Code :**
ALABS-A136-027**Description :****Coriolis Force Apparatus**

In engineering, the Coriolis force occurs when a rotational motion interferes with a further movement of the same object. This can occur for example in cranes, gearboxes or robots. The experimental unit is designed to clearly demonstrate the effect of the Coriolis force in a rotating reference system. A transparent water tank with submersible pump is placed on a rotatable arm and then rotated. Within the rotating reference system, the pump produces a water jet in a radial direction. Depending on the flow rate of the pump or the water velocity, as well as speed and direction of rotation, the water jet is visibly deflected due to the Coriolis force. The degree of deflection can be determined by means of a scale on the water tank. The speed is infinitely adjustable, electronically controlled and digitally displayed. The well-structured instructional material sets out the fundamentals and provides a step-by-step guide through the experiments.

Specification:

1. Visualisation of the Coriolis force effect

2. Rotating reference frame consisting of transparent water tank with submersible pump on a rotating arm
3. Deflection of a water jet in radial direction dependent on the speed and direction of rotation
4. Scale to read the deflection of the water jet
5. Closed water circuit
6. Speed sensor with digital display

Technical Data:

Rotating arm

- infinitely adjustable speed: $0 \dots 60 \text{ min}^{-1}$
- adjustable direction of rotation

Submersible pump

- flow rate 10L/min



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