

Product Name :
Coriolis Force

Product Code :
TN550



Description :

Coriolis Force

Technical Specification :

Coriolis Force

This deflection is caused by the Coriolis force, an apparent or inertial force. The Coriolis force plays a crucial role in meteorology and physical oceanography, since it influences the course of air and water currents due to the Earth's rotation.

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 unit is perform the following experiments and investigations:

Learning Objectives / Experiments

Inertial or apparent force

Interference of a rotational movement on a translational movement

Visualisation of the Coriolis force effect

Specification

Visualisation of the Coriolis force effect

Rotating reference frame consisting of transparent water tank with submersible pump on a rotating arm

Deflection of a water jet in radial direction dependent on the speed and direction of rotation

Scale to read the deflection of the water jet

Closed water circuit

Speed sensor with digital display

Technical Data:

Rotating arm

Continuously adjustable speed: 0...60rpm

Adjustable direction of rotation

Submersible pump

Flow rate: 10L/min

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase

Dimensions and Weight

Length x Width x Height: 420x400x320mm

Weight: 25kg

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