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 Earthâ€[™]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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