

Product Name :
Dry Friction

Product Code :
TN522



Description :

Dry Friction

Technical Specification :

Dry Friction The unit is perform the following experiments and investigations: Learning Objectives / Experiments: Difference between static and dynamic friction Friction forces as a function of Normal force Sliding velocity (relative velocities of the friction partners) Material pairing Surface properties of the friction partners Size of the contact area Slip/stick effect Determination of friction coefficients Specification: Mechanical friction between 2 solid bodies Friction body stationary, support friction surface in a moving carriage 2 friction bodies each with 2 different surfaces 3 support friction surfaces with a total of 4 different surfaces Carriage driven by cable pulley and motor 2 driving velocities via a graduated cable drum Force measuring unit: force gauge and adjustable air damper Force measuring unit height-adjustable Lines of action of friction force and tensile force always parallel Adjustable air damper - with damping: measurement of a mean friction force adjusted by disturbances, without damping: slip/stick effects measurable Storage system to house all parts. Technical Data: Support friction surface Length x Width x Height: 175x80x6mm Aluminium PVC / felt Glass Friction body Length x Width: 50x40mm Dead-weight force: 1N Smooth / rough (Al), h=20mm Brass / felt, h=5mm Drive Synchronous motor Speed: 100rpm Driving velocities: 23,5cm/min, 47cm/min Force gauge with damper Measuring range: 0...2N, graduation: 0,05N Weights: 8x 0,5N 230V, 50Hz, 1 phase 230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase Dimensions and Weight Length x Width x Height: 720x480x178mm (storage system) Weight: 10kg (storage system) Weight: 7kg (experimental unit).

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