

Product Name :
Fundamentals Of Mechanical Friction

Product Code :
TN130



Description :

Fundamentals Of Mechanical Friction

Technical Specification :

Fundamentals Of Mechanical 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, material pairing, size of contact area
Sliding velocity (relative velocities of the paired materials)
Surface properties of the paired materials
Determine coefficients of friction

Specification:

- [1] fundamentals of mechanical friction
- [2] stationary friction body and force gauge and motor-driven support friction surface
- [3] 2 friction bodies, each with two different surfaces
- [4] 2 supporting friction surfaces with a total of three different surfaces
- [5] 2 cable drum driving velocities
- [6] force gauge overload-proof with clearly legible dial
- [7] storage system for all parts

Technical Data:

Supporting surfaces

Al / felt, PVC

Friction body

Smooth / rough (Al), brass / felt

Drive with synchronous motor

Driving velocities: 23,5cm/min; 47cm/min

Force gauge

Measuring range: 0...2n

Graduation: 0,1n

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: 4kg (experimental unit)

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