

Product Name :
Belt Drive and Belt Friction

Product Code :
TN422



Description :

Belt Drive and Belt Friction

Technical Specification :

Belt Drive and Belt Friction

The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:

Effect of wrap angle, coefficient of friction and cable force.

Comparison of flat belts and V-belts.

Consequences of an un adapted V-belt groove.

Specification:

Function of a belt drive

Belt friction and comparison of different belt materials and types

Ball-bearing mounted pulley with 3 different belt grooves

2 flat belts made of different materials, 1 v-belt and 1 cable

Wrap angle of the belts 30°...180°, graduation 15°

Force measurement with 2 spring balances.

Technical Data:

Flat belts

1x leather/polyamide, 15x2,2mm

1x polyamide, 15x0,6mm

V-belt

Profile: SPZ

9,7x8,0mm, rubber/fabric
Cable
Hemp, Ø=3mm
Pulley
Ø=300mm
Material: grey iron
Dynamometer: 100N ±1N
Dimensions and Weight
Length x Width x Height: 700x350x1100mm
Weight: 47kg

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