

**Product Name :**  
Belt Friction Demonstrator**Product Code :**  
ELABHTOOLSUK430005**Description :**

Belt Friction Demonstrator

**Technical Specification :**

The belt drives are machine elements that are classed as traction mechanisms in the field of transmission or conversion elements.  
They transfer torque and speed between guiding members such as wheels or pulleys.  
The motion is transferred by traction mechanisms that can only absorb tensile forces.  
Toothed belts and chains deliver positive transmission of movements.  
Traction mechanisms such as cables, flat belts and V-belts, on the contrary, allow for non-positive transmission.  
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, Extremultus LT10 1x polyamide, 15x0,6mm, profile: SPZ

9,7x8,0mm, rubber/fabric Cable, hemp, Ø=3mm

Pulley: Ø=300mm material: grey iron

Dynamometer: 100N ±1N

Dimensions and weight LxWxH: 700x350x1100mm

Weight: 47kg.

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# **LAB ENGINEERING**

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