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Product Name :
Rolling Friction In Friction Wheels

Product Code :
LBNY-0005-1010003



Description :

Dynamic friction is differentiated into sliding, rolling and spinning friction. In dynamic friction, there is relative translation between the two bodies. Rolling friction occurs when two bodies roll on each other without sliding. In bearing and drive technology, dynamic friction occurs at the sliding and rolling points, which leads to power losses in the technical systems. Rolling friction is therefore a combination of rolling and dynamic friction. In rolling friction, the rolling motion is superposed with a smaller sliding friction, known as slip.

Features:

- Frictional forces between two rolling friction wheels
- Use of different lubricants possible
- How slip affects the frictional force

Learning Objectives And Experiments:

- Determine the frictional forces as a function of load, lubrication and operating speed
- How slip affects the frictional force
- Together with the drive unit
- Determine the coefficients of friction.

Technical Specification :

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Laboratory Instrument India