

Test

Friction testing machines by Test

Our friction testing machines, equipped with patented multi-component-sensors have entered the world market. All national and international standards, as well as every company standard specification will be respected.

The measured and calculated forces, torques and angles are basics to show the friction coefficients at screws, bolts, nuts and components. Due to these information fixation parts can be used in that way, that an optimized and safe fixation is assured.



Friction testing machine with 2 drives

- 10.000 Nm / 20 rpm (M42)
- 600 Nm / 200 rpm (M16)
- 4-component sensor with heating unit

Multi-component sensors

The patented multi-component sensors allow measuring the strain occurring by tension force and torque inside the screw individually. They transmit the decoupled measurement values to the force sensor and to the torque sensors. Additionally, the necessary angle will be measured with a high resolution inside the machine.



Detailed and high-precise parameter determination by patented **multi-component sensors**:

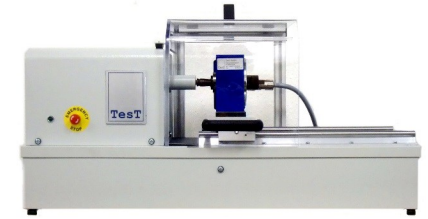
We are measuring...

- Clamping force
- Total torque
- Bearing face torque

We are calculating...

- Thread torque
- Total friction coefficient = μ_{tot}
- Friction coefficient of the bearing face = μ_b
- Friction coefficient of the thread = μ_{th}

Bolted connections from micro ... to MEGA ...



Friction testing machine

- Table top model, from size M2 to M6
- 30 Nm / 20 kN / 200 rpm

Areas of application are primarily the manufacturing of screws, bolts and nuts, as well as the automotive industry, large-scale plants, power plant construction and in particular the application in wind power stations.



Friction testing machine

- Steel frame model, from size M18 to M80
- 60.000 Nm / 5MN

Test



Testing machine for fixing elements and components

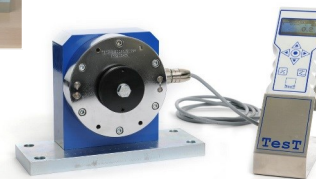
For compressive, tensile and bendings tests



Vibration testing machines acc. to „Junker“ DIN 65151



Manual friction test bench



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Test

We care for quality



Integrated Solutions for Fastener & Fixing Industry

Tensile testing machine up to 600 kN

For tensile tests on screws and bolts

