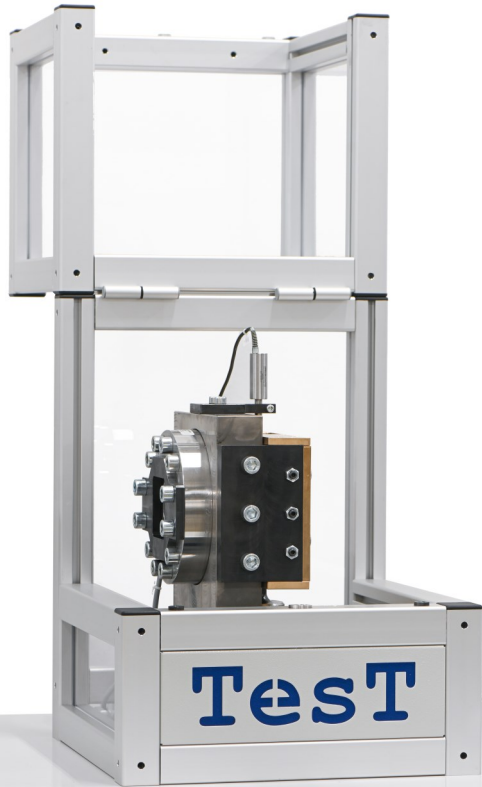


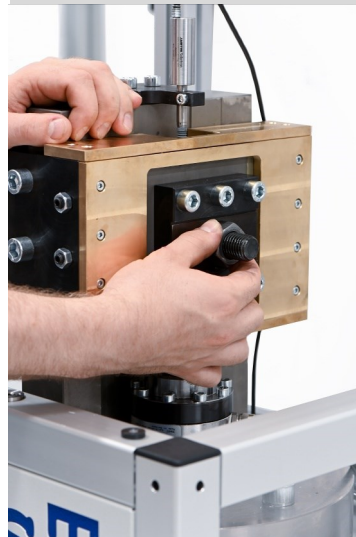
Test

Vibration Testing Machines from Test

The comprehensive quality inspection of screws, bolts and nuts includes vibration testing, which is carried out on so-called "Junker" vibration testing machines. These machines are used to test the loosening properties of fasteners under dynamic transverse load stress. The components to be tested are tightened in the machine's sensor under a defined clamp force and then subjected to a dynamic transverse load at a constant or variable frequency.



The (clamp) force-time diagram and the cycle numbers determined in the process provide the corresponding information on the loosening behavior of the bolted joint under dynamic lateral loading. In combination with our software TestWinner® our customers get an optimum of efficiency and flexibility as well as a direct statement about loosening angle, clamp force, lateral force and lateral displacement amplitude. Optionally, the tightening torque can be recorded additionally at the beginning of the test.



Vibration testing machines from **Test** allow, for example, the testing of bolted joints according to DIN 65151.

Technical Specifications

Models	208.50kN	208.200kN	208.300kN	208.600kN	208.1200kN
Max. bolt dimensions	M12	M27	M33	M48	M64
Max. clamping force	50kN	200kN	300 kN	600 kN	1200kN
Max. lateral force	15kN	63kN	100kN	200kN	400kN
Measurement of lateral force	No	Yes	Yes	Yes	Yes
Lateral displacement amplitude	± 0...1.5 mm	± 0...2 mm	± 0...2 mm	± 0...2 mm	± 0...2 mm
Control of lateral displacement	No	Yes	Yes	Yes	Yes
Frequency of lateral force	15 HZ	15 Hz	15 Hz	15 Hz	12.5 Hz
Measurement of loosening angle (option)	No	Yes	Yes	Yes	Yes
Motor-controlled tightening (option)	No	Yes	Yes	Yes	Yes

Test



Tensile Testing Machines up to 600 kN
For tensile testing of screws and bolts



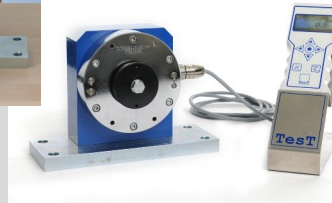
Friction Testing Machine
Friction coefficient analysis
from size M2 up to M80



**Testing Machines for fixing elements
and components**
For compression, tensile and bending testing



**Manual
Friction Tester**



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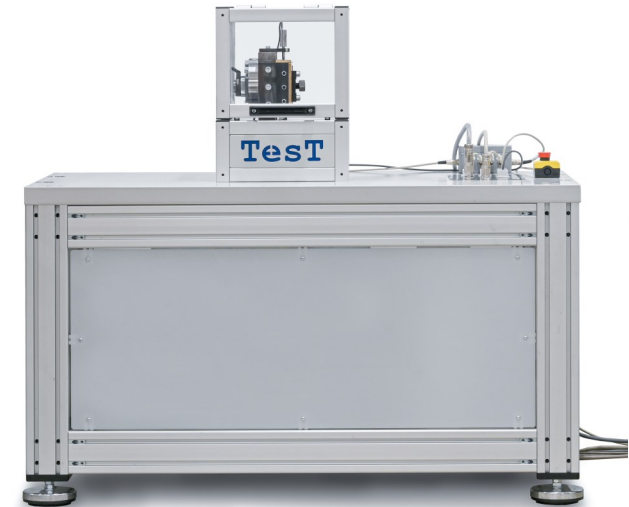


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We care for quality



**Vibration Testing Machines
for Fasteners**