

Torsion Testing Machine

Model 220 (vertical)



Basic Data

- Working space width approx. 800 mm
- Max. torque 200 Nm
- Speed 20 rpm
- Integrated angle measurement, resolution 0.01°
- Torque transmission: square drive
- Free stroke incl. torque transducer, without grips: 500 mm
- Integrated base frame with electrical control cabinet for housing the measurement, control, and power electronics

*Other torque ranges, rotational speeds, and measurement ranges can be realized at any time thanks to the modular design, modern measurement and control electronics, and flexible software.

Core Components

- Torque transducer
- Machine frame with controlled drive and angle measurement
- Data acquisition and drive control electronics
TestController 850 USB for machine control and measurement acquisition
- Application software **TestWinner® 950**

Description

Single-column C-frame test stand with vertical linear guidance for the drive unit, equipped with deflection pulleys and guided counterweights. Integrated worktable with a hole pattern for adapting clamping solutions for test specimens, such as T-slot plates.

Application

Torsion testing machines apply and measure active and passive torques at defined angles of rotation. Their range of applications extends from classic torsional material testing to highly complex component testing.

Functional Scope

Torque measurement is performed using static reaction torque transducers (models 411/415) or rotating torque transducers (models 421/422). Multi-component transducers for measuring preload forces and torque in bolted joints are also available. Depending on the application and measurement range, the transducers are equipped with support bearings to protect them from lateral loads.

The system is controlled via the integrated **TestController 850** and the freely programmable testing software **TestWinner® 950**.