

Motorised vertical test stand SAUTER TVS

PREMIUM
★ ★ ★

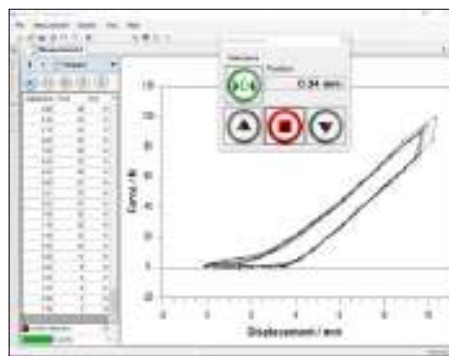


Premium test stand with step motor for precise testing up to 50 kN



Premium operating panel

- Digital speed display: shows the displacement speed
- Digital repeat function for long-term stress test

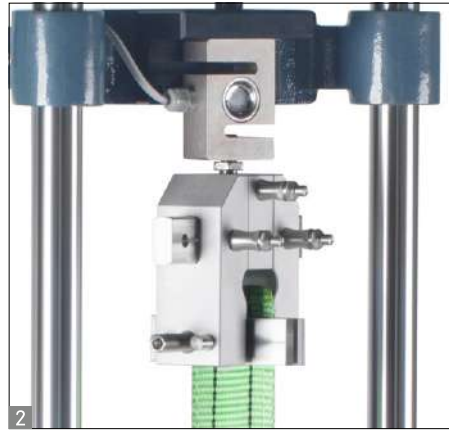


Control of the test stand using SAUTER PC software AFH



Solid and flexible possibilities of fixation for supports of test objects, as well as universal force measuring clamps, inox ball heads for compression and fracture tests, bending devices etc., see accessories page 30ff

Motorised vertical test stand SAUTER TVS



Features

- Motorised test stand for tension/compression force testing
- **New: Step motor for greatest ease of use**
 - for constant speed from the smallest to the maximum load
 - allows testing at minimum speed and full load
 - for higher positioning accuracy: Precise starting and stopping, without follow-up movement, even at high speeds
 - precise adjustment of the process speed with indication on the display
- Maximum travelling distance protected by electronic end switches
- **Large working area** by means of long guide columns as standard, which allows a wide range of fixing options
- SAUTER LA length measuring device as standard, to read the measurement range with a readout of 0.01 mm
- **Particularly flexible mounting options** for the most variable force measuring devices, such as, SAUTER FC, FH, FA, FK, FL:
 - **1** Direct mounting of measuring devices with internal load cell up to [Max] of 500 N (only at TVS 5000N240N and TVS 10KN100N)
 - **2** Direct mounting of the external measuring cell on the traverse, from 1000N measurement range and higher (only for TVS \geq 20 kN)
 - **3** Mount for force-measuring devices from the SAUTER FH range with external measuring cell

- The large figure shows the TVS test stand with: SAUTER FH force measuring device, SAUTER LD length measuring device, longer guide columns as well as mount for force measuring device and test objects, not supplied with the product
- **For force-displacement testing:** Please order the optional SAUTER LB length measuring device and software AFH FD or SAUTER LD length measuring device and software AFH LD as well as the factory fitting of the length measuring device with the product

Technical data

- Speed accuracy: 1 % of [Max]
- Positioning accuracy when shutting down: \pm 0,05 mm
- Initial height of the mounting plate from the upper edge of the motor housing: 171 mm
- Maximum stroke of the mounting plate: 385 mm
- Minimal distance between the mounting plate and the underside of the upper device mounting: 85 mm
- Dimensional drawing see on the internet
- Net weight on request

Accessories

- **Linear potentiometer for length measurement**, measuring range: 225, 300, 500 or 700 mm, readout: 0.01 mm, for details see page 39, SAUTER LD
- **Mounting the length measuring device LD** onto a SAUTER test stand at the factory, SAUTER LD-A06
- **Length measuring device SAUTER LB**, SAUTER LB 300-2.
- **Mounting the length measuring device LB** onto a SAUTER test stand at the factory, SAUTER LB-A02
- **Force-time data transfer software** for graphical representation on the PC and data transfer to Microsoft Excel®, SAUTER AFH FAST
- **Force-displacement data transfer software** with graphical representation of the measuring process, only in combination with SAUTER LD, SAUTER AFH LD
- **Force-displacement data transfer software** with graphic display of the measurement process, only in combination with SAUTER LB, SAUTER AFH FD
- **3 Mount for force measuring devices** from the SAUTER FH range with external load cell, SAUTER TVM-A01
- **Longer columns** with the same travel distance, up to 500 mm, SAUTER AFH 18

STANDARD


































OPTION



Model	Measuring range [Max] N	Speed range mm/min	Max. travelling distance mm	Length of columns mm
SAUTER				
TVS 5000N240	5000	1-240	215	1135
TVS 10KN100	10000	1-200	215	1135
TVS 20KN100	20000	1-70	215	1135
TVS 30KN80	30000	1-70	215	1135
TVS 50KN80	50000	1-70	215	1135

Pictograms

 Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight required.	 Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 Calibration block: standard for adjusting or correcting the measuring device.	 Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	 Rechargeable battery pack: rechargeable set.
 Peak hold function: capturing a peak value within a measuring process.	 Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 Scan mode: continuous capture and display of measurements.	 PC Software: to transfer the measurement data from the device to a PC.	 Power supply: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.
 Push and Pull: the measuring device can capture tension and compression forces.	 Printer: a printer can be connected to the device to print out the measurement data.	 Motorised drive: The mechanical movement is carried out by an electric motor.
 Length measurement: captures the geometric dimensions of a test object or the movement during a test process.	 GLP/ISO record keeping: of measurement data with date, time and serial number. Only with SAUTER printers	 Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper).
 Focus function: increases the measuring accuracy of a device within a defined measuring range.	 Measuring units: Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details.	 Fast-Move: the total length of travel can be covered by a single lever movement.
 Internal memory: to save measurements in the device memory.	 Measuring with tolerance range (limit-setting function): Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model	 DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram.
 Data interface RS-232: bidirectional, for connection of printer and PC.		 Factory calibration: The time required for factory calibration is specified in the pictogram.
 Data interface USB: To connect the measuring instrument to a printer, PC or other peripheral devices.		 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Data interface Infrared: To transfer data from the measuring instrument to a printer, PC or other peripheral devices.	 ZERO: Resets the display to "0".	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.

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