Motorised vertical test stand SAUTER TVS



NEW PREMIUM ★★★



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

Features

- Motorised test stand for tension/compression force testing
- 1 **Premium operating panel**
  - Digital speed display
  - Digital repeat function
  - Control of the test stand using SAUTER AFH PC software
- **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 overrun, even at high speeds
  - precise adjustment of the process speed using the information shown on the display
- Maximum travel ensured by electronic end switch
- **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
- TVS test stand (large diagram) with SAUTER LA length measuring device, readout 0.01 mm. Force measuring device and mount for force measuring device and test object not supplied with the product
- For force-displacement testing: Please order the optional SAUTER LB length measuring device as well as the AFH FD software with the product

Technical data

- Process speed: 1 % of [Max]
- Positioning accuracy when shutting down: ± 0,05 mm
- Initial height of the mounting plate from the upper edge of the motor housing: 171 mm
- Maximum lift of the mounting plate: 385 mm
- Minimal distance between the mounting plate and the underside of the upper device mounting: 85 mm
- Overall dimensions WxDxH 410x255x1550 mm
- Net weight on request
- For dimensional drawing see www.sauter.eu

Accessories

- **Digital length measuring device**, measuring range 300 mm, readout 0,01 mm, details see page 36, SAUTER LB 300-2.
- **Mounting the length measuring device** onto a SAUTER test stand at the factory, SAUTER LB-A02
- Mount for measuring device, e.g. SAUTER FH, FA, FK, FL, SAUTER TVM-A01
- **Longer columns** with the same travel distance, up to 500 mm, SAUTER AFH 18
- **Fatigue testing data transfer software,** SAUTER AFH FGT
- **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 graphic display of the measurement process, SAUTER AFH FD

STANDARD



OPTION



Model SAUTER	Measuring range [Max] N	Speed range mm/min	Max. travelling distance mm	Length of columns mm	Motor	
TVS 5000N240	5000	1 – 240	215	1135	Stepper motor	
TVS 10KN100	10000	1 – 100	215	1135	Stepper motor	
TVS 20KN100	20000	1 – 100	215	1135	Stepper motor	
TVS 30KN80	30000	1 – 80	215	1135	Stepper motor	
TVS 50KN80	50000	1 – 80	215	1135	Stepper motor	

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SAUTER Pictograms:



Adjusting program (CAL):
For quick setting of the balance's accuracy. External adjusting weight required.



Calibration block:
standard for adjusting or correcting the measuring device.



Peak hold function:
capturing a peak value within a measuring process.



Scan mode:
continuous capture and display of measurements.



Push and Pull:
the measuring device can capture tension and compression forces.



Length measurement:
captures the geometric dimensions of a test object or the movement during a test process.



Focus function:
increases the measuring accuracy of a device within a defined measuring range.



Internal memory:
to save measurements in the device memory.



Data interface RS-232:
bidirectional, for connection of printer and PC.



Data interface USB:
To connect the balance to a printer, PC or other peripheral devices.



Data interface Infrared:
To transfer data from the balance to a printer, PC or other peripheral devices.



Control outputs (optocoupler, digital I/O):
to connect relays, signal lamps, valves, etc.



Analogue interface:
to connect a suitable peripheral device for analogue processing of the measurements.



Statistics:
using the saved values, the device calculates statistical data, such as average value, standard deviation etc.



PC Software:
to transfer the measurements from the device to a PC.



Printer:
a printer can be connected to the device to print out the measurements.



GLP/ISO record keeping:
of measurements with date, time and serial number. Only with SAUTER printers.



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.



Measuring with tolerance range:
Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.



ZERO:
Resets the display to "0".



Battery operation:
Ready for battery operation. The battery type is specified for each device.



Rechargeable battery pack:
rechargeable set.



Mains adapter:
230V/50Hz in standard version for EU. On request GB, AUS or USA version available.



Power supply:
Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.



Motorised drive:
The mechanical movement is carried out by a motorised drive.



Fast-Move:
the total length of travel can be covered by a single lever movement.



ISO Calibration:
The time required for ISO calibration is shown in days in the pictogram.



Package shipment:
The time required for internal shipping preparations is shown in days in the pictogram.



Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram.



Warranty:
The warranty period is shown in the pictogram.

Your SAUTER specialist dealer: