



THM 500N500S



Motorised test stand with digital display for horizontal force measurement where the highest standards are required

Features

- **New: Step motor for greatest ease of use only at THM 500N500S**
 - 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 using the information shown on the display
- **Easy to use**
- Efficient working
- Robust design and heavy duty metal construction
- **Linear adjustable jaw vice**
The clamping vice can be locked and finely adjusted sideways and up/down using the setting wheel.
- **Repeat function** for fatigue tests
- Digital speed display to read the process speed straightaway
- **Premium operating panel:**
 - Digital speed display
 - Digital repeat function display
 - Control of the test stand using PC software SAUTER AFH

- **Figure shows the premium operating panel of SAUTER THM 500N500N**
- **Solid and versatile fixing options** of SAUTER force measuring devices, see accessory page 25 et seqq.
- Suitable for all SAUTER force measuring devices up to 500 N (not supplied with the product)

Technical data

THM-N:

- Minimum distance between left and right object fastening: 30 mm
- Maximum travel length: 220 mm (protected by electronic end switches)
- Overall dimensions W×D×H 170×345×550 mm
- Net weight approx. 35 kg

THM-S:

- Maximum travel length: 240 mm (protected by electronic end switches)
- Overall dimensions W×D×H 695×235×300 mm
- Net weight approx. 48 kg

Accessories

- **Digital length measuring device**, measuring range 200 mm, readout 0,01 mm, details see page 35, SAUTER LB 200-2.
- **Mounting the length measuring device** onto a SAUTER test stand at the factory, SAUTER LB-A02
- **Linear potentiometer for length measurement**, measuring range: 300 mm, readout: 0.01 mm, for details see page 36, SAUTER LD
- **Mounting the length measuring device** onto a SAUTER test stand at the factory, SAUTER LD-A06
- **Force-displacement data transfer software** with graphical representation of the measuring process, only in combination with SAUTER LD, SAUTER AFH LD
- **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
- **Data transfer software for repeat tests**, SAUTER AFH FGT

STANDARD	OPTION
 ELECTRO	 STEPPER
 2 DAYS	 SCALE
 THM	 SOFTWARE
THM	THM-S

Model	Measuring range	Speed range	
	[Max] N	mm/min	
SAUTER			
THM 500N500N	500	50-500	
THM 500N500S 	500	1-500	

 New model

 Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.	 Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.	 Rechargeable battery pack: rechargeable set.
 Calibration block: standard for adjusting or correcting the measuring device.	 Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 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.	 Power supply: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.
 Scan mode: continuous capture and display of measurements.	 PC Software: to transfer the measurements from the device to a PC.	 Motorised drive: The mechanical movement is carried out by a electric motor.
 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 measurements.	 Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper).
 Length measurement: captures the geometric dimensions of a test object or the movement during a test process.	 GLP/ISO record keeping: of measurements with date, time and serial number. Only with SAUTER printers.	 Fast-Move: the total length of travel can be covered by a single lever movement.
 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.	 DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram.
 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	 Factory calibration: The time required for factory calibration is specified in the pictogram.
 Data interface RS-232: bidirectional, for connection of printer and PC.	 ZERO: Resets the display to "0".	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Data interface USB: To connect the balance to a printer, PC or other peripheral devices.	 Battery operation: Ready for battery operation. The battery type is specified for each device.	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Data interface Infrared: To transfer data from the balance to a printer, PC or other peripheral devices.		

Your SAUTER specialist dealer:

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