



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

- **2** 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 THM	STEPPER THM-S
2 DAYS	SCALE
	SOFTWARE

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

New model

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

**Your SAUTER specialist dealer:**