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## Instruction manual manual test bench

### SAUTER TVL/TVL-XL

Version 2.1  
11/2021  
GB



PROFESSIONAL MEASURING

TVL\_TV-L-XL-BA-e-2121



# SAUTER TVL/TVL-XL

V. 2.1 11/2021

## Instruction manual manual test bench

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Thank you for purchasing the manual crank test stand from SAUTER. We hope that you will be very satisfied with the high quality of this measuring system with its high reproducibility. For any questions, wishes and suggestions please do not hesitate to contact us.

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## 1 Scope of delivery

- SAUTER TVL
- A hook

## 2 Technical description

### 2.1 Technical data test bench

	TVL	TVL-XL
<b>maximum force</b>	500N	
<b>Measurement direction</b>	vertical and horizontal	
<b>Spindle stroke per revolution</b>	3mm	
<b>Mounting height of upper hook from base plate</b>	Approx. 470mm	Approx. 720
<b>Thread hook</b>	M6	
<b>Spindle height from base plate</b>	230mm	
<b>Thread of the encoder mounting plate</b>	4x M3 (included in delivery)	
<b>Workspace</b>	Approx. 200mm	Approx. 450mm
<b>Weight</b>	8kg	15kg

### 2.2 Technical data length measuring unit LA (without serial interface)

	TVL	TVL-XL
<b>Scale length</b>	200mm	
<b>Readability</b>	0,01mm	
<b>Control buttons</b>		
<b>On/0</b>	<ul style="list-style-type: none"><li>• Switch on</li><li>• Zeroing the display of the LA</li></ul>	
<b>mm/in</b>	Change of units between millimeters and inches	
<b>▲</b>	Manual length preselection, upwards	
<b>▼</b>	Manual length selection, downwards	

## 3 Maintenance

To avoid rust, the test stand should be cleaned with a soft cloth after each use. Under no circumstances should aggressive cleaning agents be used.

## 4 General safety instructions

### WARNING

#### Risk of injury due to overridden functions of the protective devices!

Overloaded functions of the protective devices can lead to severe injuries lead.

- Never override the functions of the protective devices, either yourself or by third parties.
- Never test with protective devices disabled.
- Never tamper with protective devices.
- Comply with all safety instructions.

### WARNING

#### Risk of injury from falling parts!

Falling parts can cause serious injuries.

- Only use suitable and technically flawless lifting gear.
- Use lifting equipment with sufficient lifting capacity.
- Carefully fasten individual parts and larger assemblies with lifting gear.
- Secure individual parts and larger assemblies with lifting gear.
- Make sure that there is no danger from the hoist.
- Lift individual parts and larger assemblies slowly.

### WARNING

#### Risk of injury from rotating components!

The drive can start automatically. Rotating components such as spindles on the drive of the crosshead or the extensometer can catch long hair, loose clothing as well as sleeves or jewelry. This can lead to serious injuries.

- Work only in clothing with tight-fitting sleeves.
- Wearing jewelry while working on the test system is prohibited.
- Use hairnet if necessary.
- Wear suitable protective equipment

### WARNING



#### Risk of injury when handling in the test room!

When handling in the test room during the operation of the test system, there are Risk of injury. Your hands and arms can be pinched and crushed.

- Never handle in the test room while the test system is running.
- Never handle anything in the test room during a test.

## WARNING



### **Danger of tipping due to use of heavy specimens!**

In the case of heavy specimens that are inserted off-center, as well as due to improper Behavior can tip the test system.

- Ensure that the test system is securely positioned.
- Never use the test system as a climbing aid.

## CAUTION

### **Risk of injury!**

There is a risk of injury when working on/with the test system.

- Comply with the applicable and binding national regulations on the accident prevention.

Comply with the recognized technical rules for safety and professional work.

Comply with the regulations on health and safety at work.

Provision of work equipment and its use.

- Observe company regulations such as supervision and reporting requirements.
- Read the operating instructions completely.
- Read the operating instructions and data sheets of external components all the way through.
- Observe all safety instructions in the operating instructions.
- Observe all safety signs attached to the test system.
- Always wear appropriate safety equipment.

## NOTE

Work on the test system may only be carried out by specialists qualified for this work. be carried out.

## NOTE

Only one operator may work on the test system at a time.

- During operation, the operator's workplace is located in front of the