Sauter GmbH

Ziegelei 1
D-72336 Balingen
e-mail: info@kern-sohn.com

Phone : +49-[0]7433- 9933-0
Fax: +49-[0]7433-9933-149
Internet: www.sauter.eu

Instruction manual manual test bench

SAUTER TVL-XS

Version 2.1
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GB

PROFESSIONAL MEASURING

TVL_XS-BA-e-2121

GB

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V. 2.1 11/2021

Instruction manual manual test bench

Congratulations on the purchase of the SAUTER TVL-XS test stand. We hope you enjoy your quality measurement system with its wide range of functions and high reproducibility. If operated correctly, this high-quality product will give you many years of use.
For questions, wishes or suggestions we are always at your disposal.

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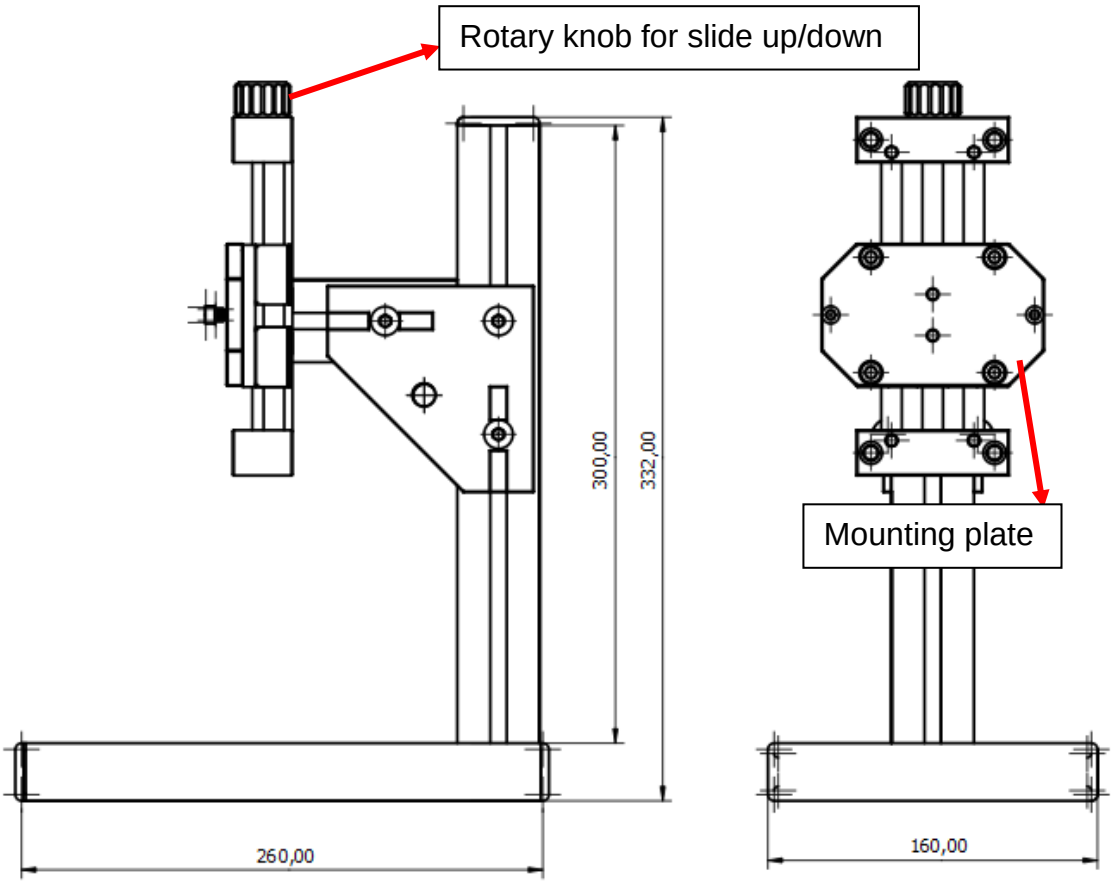
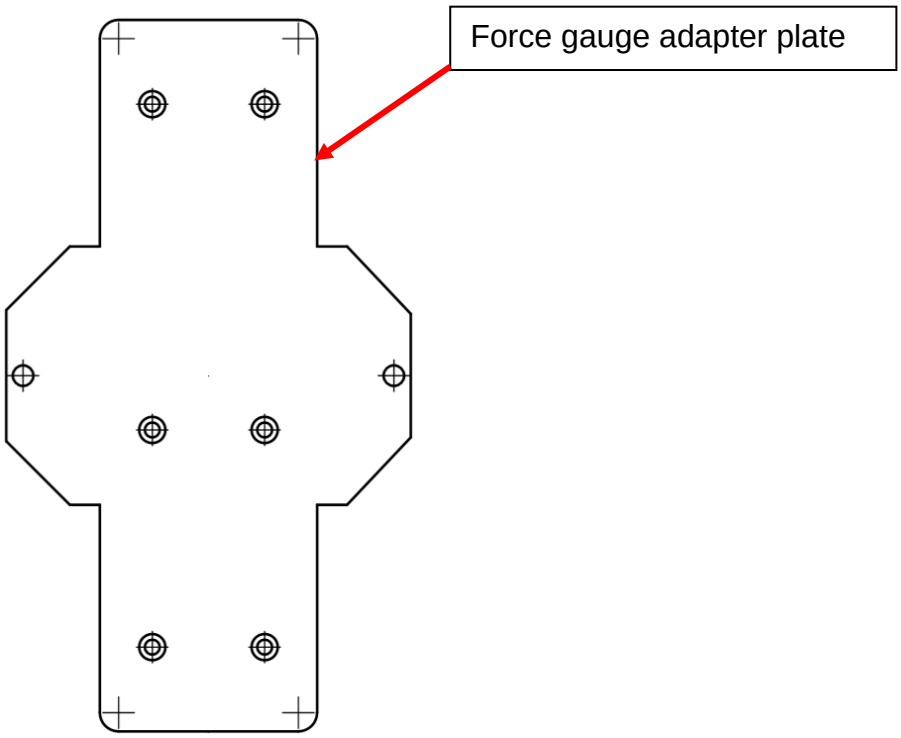
1 Technical drawing





2 Function

This TVL-XS manual vertical test stand is used for tension and compression tests. It is suitable for force gauges up to 100N. The test stand has a good stability, has a wide range of applications and is easy to operate. The test stand can be used for rubber and plastic products, light industry and textile, frame construction, complex materials, wires and cables, automotive industry, engines and scientific research.

3 Technical data

Capacity	100N
Maximum tensile and compressive force	100N
Maximum travel distance	200mm
Spindle stroke per revolution	2mm
Operating temperature	20±10°C
Storage and delivery temperature	-27°C up to 70°C
Relative air humidity	15% up to 80%

4 Mode of operation

Please check everything before commissioning!

1. The test bench should be checked for proper spindle operation by moving it up and down without a suspended load.

5 Maintenance

1. The test bench environment shall be kept clean;
2. The rail responsible for the movement should be kept free of liquids or objects.
3. The test bench should always be stored dust-free and free of moisture when not in use.

6 Scope of delivery

- Test bench
- Adapter plate for mounting the force gauge to the test stand
- Operating Instructions
- Adhesive feet

7 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