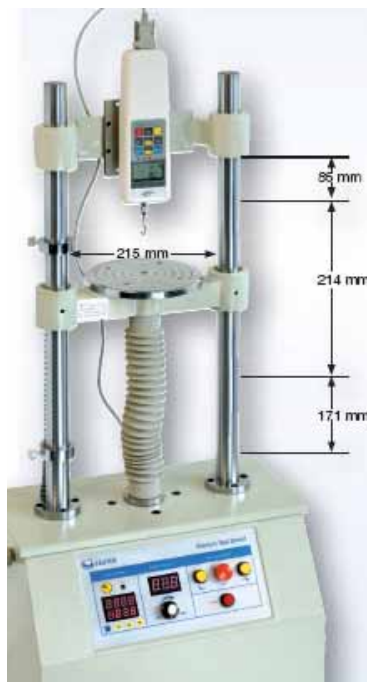


Instruction Manual TVM_N

1. Weight & Packing

Net weight: 58 kg
Packing: Wooden box

2. Illustration & Dimensions (in mm)



Thank you for buying a SAUTER Test Stand. We hope you are pleased with your measurement system of high repeatability. If you have got any questions, wishes or helpful suggestions, do not hesitate to call our service number.

This motorized Test Stand is specially provided for force gauges of type FH (digital force gauges). It is mainly used for tension & compression force measurements.

The advantages of its double- column construction are stability, easy operation and a variety of possible applications in the sector of hardware, automobile, plastics, light industry, cable, wires, rubber, engineering, in the electronical sector, at academies, research etc.

1. Scope of delivery

- SAUTER TVM-N
- Power cable
- Instruction Manual

2. Warnings

If force measurements are carried out in an incorrect way, it can lead to serious injuries of persons and objects. As a result of this, force measurements may only be effected by trained and experienced personnel.

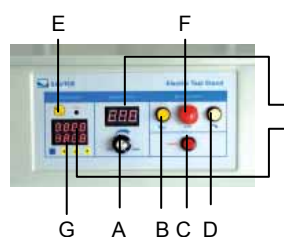
In particular it should be avoided that forces are affecting the test stand onto the measurement device, which are exceeding the maximum load (Max.) of the test stand or of the measurement device or which are not affecting axially onto the test stand upon the force gauge.

3. Specifications

Model	Maximum Force	Speed Range
TVM 5000N230 N	5.000 N	10 - 230 mm/min
TVM 10KN120 N	10.000 N	10 - 120 mm/min
TVM 20KN120 N	20.000 N	10 - 120 mm/min
TVM 30KN70 N	30.000 N	2 - 70 mm/min

Max. Travel (Y): 214 mm
Power Supply: 220 V; 50/60 Hz
Working conditions: 10 to 30 °C

4. Operation



Premium operation panel with:

- Digital speed display
- Digital display function for repeatability

Instruction Manual TVM_N

A. Speed regulation

B. Travel UP

C. ON /OFF

D. Travel DOWN

E. Switching between manual and automatic
Operation mode

F. Emergency Stop switch

G. Operator panel: Function of repeatability

- Point 4: STOP: Adjustment of the Auto-Stop value with the help of the Up- and Down arrows. Storage by pressing the SET button.
- Point 7: RS 232: Selection of „STAND“

CAUTION: Please add suitable lubricating oil in the outside of the copper tube before using the test stand!



5. Manual and automatic operation mode

In the „**Manual mode**“ the instrument only travels as long as the button UP or DOWN is pressed.

In the „**automatic mode**“ the instrument travels directly up or down if the button UP or DOWN is pressed.

The movement of the test stand is defined by the upper and lower limitation ring. These limitation rings have to be adjusted again for every test.

6. Automatic operation mode without cycle function

For simple up- and down movement until the electrical switches are touched and the stand stops:

- Turn on the stand
- Activate the AUTO-mode (E.)
- Press UP or DOWN
- Deactivate the AUTO-mode (E) during test progress

7. Function of repeatability

This function is provided for applications where multiple up and down travels are necessary. With the help of the repeatability function the test stand can be set up to a multitude of repeated cycles.

8. AUTO STOP- Function (only possible with FH force gauge U 5.1)

With the application of the function „AUTO-STOP“ the test stand stops automatically during the travel, when the applied load is exceeding a special value. This allows the user to perform limit value tests. It protects the Test Stand and as well the measuring device from overload.

1. Fixation of RS 232 (1:1) connection cable from measuring device to test stand

2. Programming of the „Auto-Stop value“

In SET Menu:

9. CE Declaration of conformity



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Konformitätserklärung

Declaration of conformity for apparatus with CE mark
Konformitätserklärung für Geräte mit CE-Zeichen
Déclaration de conformité pour appareils portant la marque CE
Declaración de conformidad para aparatos con marca CE
Dichiarazione di conformità per apparecchi contrassegnati con la marcatura CE

English: We hereby declare that the product to which this declaration refers conforms with the following standards.

Deutsch: Wir erklären hiermit, dass das Produkt, auf das sich diese Erklärung bezieht, mit den nachstehenden Normen übereinstimmt.

Français: Nous déclarons avec cette responsabilité que le produit, auquel se rapporte la présente déclaration, est conforme aux normes citées ci-après.

Español: Manifestamos en la presente que el producto al que se refiere esta declaración está en acuerdo con las normas siguientes.

Italiano: Dichiariamo con ciò che il prodotto al quale la presente dichiarazione si riferisce è conforme alle norme di seguito citate.

Electrical test stands: SAUTER THM and TVM

Mark applied	EU Directives	Standards
CE	89/336/EEC EMC 90/269/EEC 90/269/EEC 2004/108/EC	EN 61326-1:2006

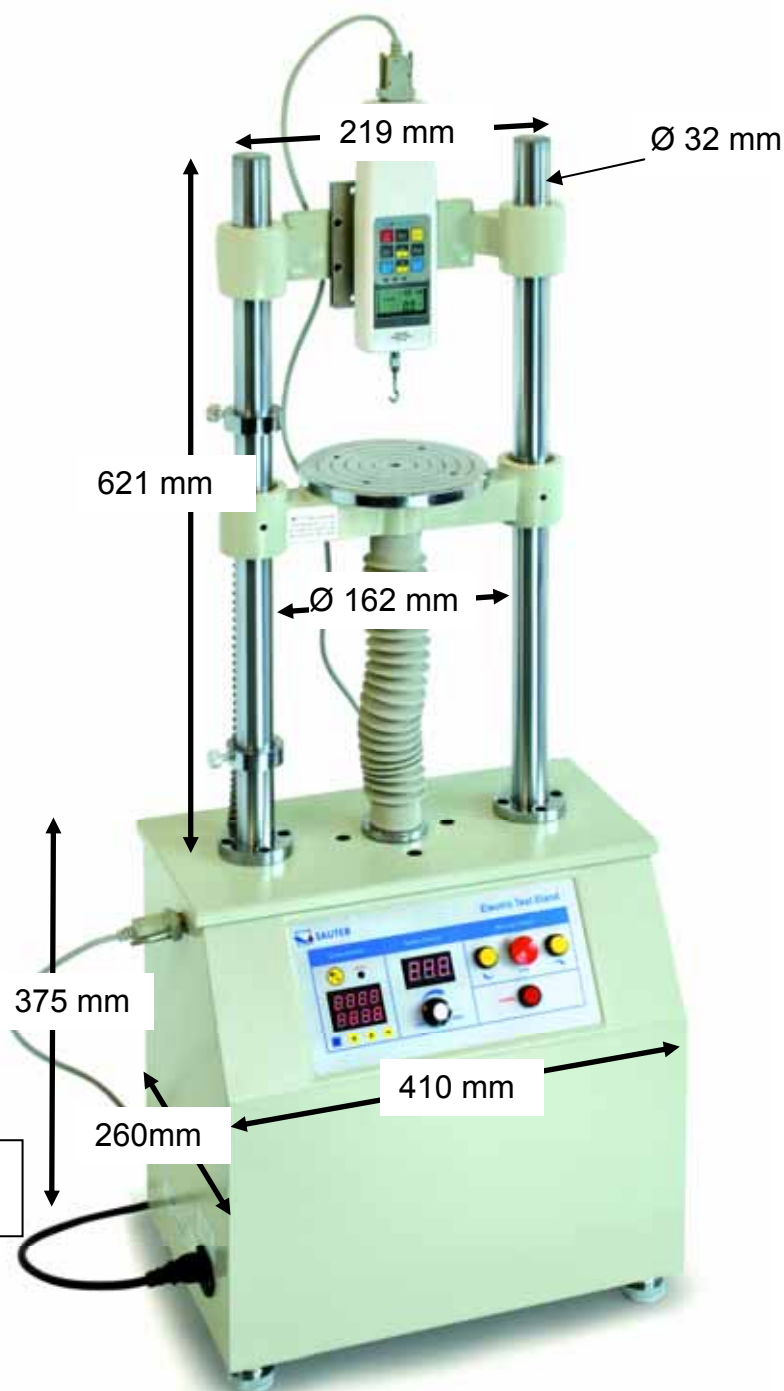
Date: 23.06.2007

Signature: 
SAUTER GmbH
Management

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Instruction Manual TVM_N

DETAILED DIMENSIONS



Dead weight: 58 kg
Packing: wooden box