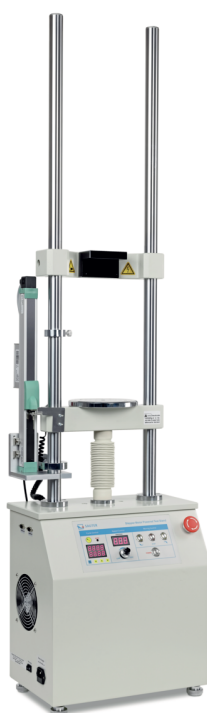


PRODUCT BROCHURE

SAUTER TVS 10KN100-LD

Date: 23.04.2025

ENGLISH



Practical set for force-displacement-measurements in laboratory and industry

CONTACT

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information

DESCRIPTION

- Five in one – premium motorised test stand, length measuring system LD, interface cable, data transfer software AFH LD, interface converter AFH 12 and mounting
- With linear potentiometer for length measurement to create force-displacement diagrams on PC, maximum measuring range 210 mm, readability 0,01 mm, measuring accuracy 0.5 % of [Max], USB-A cable 1,5 m, high data acquisition speed
- Motorised test stand for tension/compression force measurements
- Stepper motor for greatest ease of use
 - 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 overrun, even at high speeds
 - precise adjustment of the displacement speed using the information shown on the display
- Maximum displacement protected by electronic end switches
- Large working area by means of long guide columns as standard, which allows a wide range of fixing options
- Particularly flexible mounting options for variable force measuring devices, such as, for example, SAUTER FC, FH, FK, FL:
 - Direct mounting of the external load cell on the traverse, starting with 1000 N measurement range and higher
 - Holder for force measuring devices of the SAUTER FH range with external load cell (see accessories)

SPECIFICATIONS

Article codes, product groups & Status information

Model article-code	TVS 10KN100-LD
Model-Serie	TVS-LD
Assortment	Sauter
Product Type	Force measurement
Product group	Test stands (motorised)
Product usage type	Main article
EAN code (Model)	404576 1343573
Customs tariff number	90249000

Technical data - Primary

Max. Force	10 kN
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Technical data - Construction

Dimension housing (W×D×H)	250×400×1550 mm
Material housing	coated metal
Guide column(s) - distance	215 mm
Mounting threads	4x Gewindebohrung M6; Gewindebohrung M12

Technical data - Display

Display type	LED segments
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Technical data - Power supply

Power supply	Power supply unit
Input voltage power supply / max. current	230 V AC, 50 Hz
Power socket for power supply unit	Cold device cable
Protection Class	Protection class I - protective conductor

Technical data - Measuring system

Traversing speed - min.	1 mm/min
Traversing speed - max.	200 mm/min
Max. Travel distance	210 mm

Technical data - Functions

Electrical limit switches	yes
Repeat function	yes
Speed display	yes

Technical data - Environmental conditions

Maximum storage temperature	40 °C
Minimum storage temperature	-10 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H)	520×345×1610 mm
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Gross weight	105 kg
Net weight	65 kg
Shipping method	Freight
UN number	No dangerous goods
Packaging component - by weight - plastics	300 g
Packaging component - by weight - wood	14 kg
Packaging component - by weight - foam	1.8 kg
Packaging component - by weight - metal	2 kg
Delivery time	2 d

FUNCTIONS

Standard



ACCESSORIES

Model	Description
YKK-01	Power supply KERN YKK-01
TVM-A01	Bracket SAUTER TVM-A01
FC 500	Digital force gauge SAUTER FC 500
FL 5K	Digital Force Gauge SAUTER FL 5K
FS 4-20	Digital Force Gauge SAUTER FS 4-20
FS 2-50	Digital Force Gauge SAUTER FS 2-50
FS 2-100	Digital Force Gauge SAUTER FS 2-100
FS 4-100	Digital Force Gauge SAUTER FS 4-100
FS 4-500	Digital Force Gauge SAUTER FS 4-500
FH 50K	Digital Force Gauge SAUTER FH 50K
FL 2K	Digital Force Gauge SAUTER FL 2K
AFM 33	Plate SAUTER AFM 33
FC 50	Digital force gauge SAUTER FC 50
FC 100	Digital force gauge SAUTER FC 100
FL 10K	Digital Force Gauge SAUTER FL 10K
FL 20K	Digital Force Gauge SAUTER FL 20K
FS 2	Digital Force Gauge SAUTER FS 2
FS 2-200	Digital Force Gauge SAUTER FS 2-200
FH 20K	Digital Force Gauge SAUTER FH 20K
FH-A04	Interface cable FH-A04
FC 1K	Digital force gauge SAUTER FC 1K
FS 2-20	Digital Force Gauge SAUTER FS 2-20
FS 4-50	Digital Force Gauge SAUTER FS 4-50
FS 2-500	Digital Force Gauge SAUTER FS 2-500
FH 10K	Digital Force Gauge SAUTER FH 10K
FH 1K	Digital Force Gauge SAUTER FH 1K
FH 2K	Digital Force Gauge SAUTER FH 2K
822-903	Power supply KERN 822-903
FH 5K	Digital Force Gauge SAUTER FH 5K

Model	Description
FC 10	Digital force gauge SAUTER FC 10
FS 4	Digital Force Gauge SAUTER FS 4
FS 4-200	Digital Force Gauge SAUTER FS 4-200

SERVICES

Model	Description
970-120	Warranty extension KERN (+2 years) 970-120

SPARE PARTS

Model	Description
AFM 41	Mounting bracket SAUTER AFM 41
YKK-01	Power supply KERN YKK-01
LD-A01	Analogue/Digital converterLD-A01
RTVS-2001	Switch SAUTER RTVS-2001
RTVS-4001	Keyboard foil RTVS-4001
RTVS-2005	Main board RTVS-2005
RTVS-2006	Stepper motor RTVS-2006
RTVS-8001	Bellows SAUTER RTVS-8001
MLB-A07	Power supply KERN MLB-A07
822-903	Power supply KERN 822-903
FH-A03	Power Adapter KERN FH-A03
FL-A01	Interface cable FL-A01
RTVS-2002	Switch SAUTER RTVS-2002
RTVS-2003	Potentiometer SAUTER RTVS-2003

RELATED ARTICLES DATA

Model name	Max. Force
TVS 10KN100-LD	10 kN
TVS 20KN100-LD	20 kN
TVS 5000N240-LD	5 kN
TVS 50KN80-LD	50 kN