

PRODUCT BROCHURE

SAUTER TVS 20KN100-LD

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ENGLISH



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

CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

Phone : +49 7433 9933-0
Fax : +49 7433 9933-149
Email : info@kern-sohn.com
Web : www.kern-sohn.com



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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 20KN100-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 1343634
Customs tariff number	90249000

Technical data - Primary

Max. Force	20 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 M10; Gewindebohrung M12

Technical data - Display

Display type	LED segments
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Technical data - Power supply

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.	70 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)	600×410×1780 mm
Gross weight	170 kg

Net weight	150 kg
Shipping method	Freight
UN number	No dangerous goods
Packaging component - by weight - plastics	600 g
Packaging component - by weight - wood	17 kg
Packaging component - by weight - foam	2.6 kg
Packaging component - by weight - metal	3 kg
Delivery time	2 d

FUNCTIONS

Standard



ACCESSORIES

Model	Description
FC 500	Digital force gauge SAUTER FC 500
FS 2-20	Digital Force Gauge SAUTER FS 2-20
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 2-500	Digital Force Gauge SAUTER FS 2-500
822-903	Power supply KERN 822-903
YKK-01	Power supply KERN YKK-01
TVM-A01	Bracket SAUTER TVM-A01
FS 4-20	Digital Force Gauge SAUTER FS 4-20
FC 50	Digital force gauge SAUTER FC 50
FC 100	Digital force gauge SAUTER FC 100
FS 2	Digital Force Gauge SAUTER FS 2
FS 4	Digital Force Gauge SAUTER FS 4
FS 4-200	Digital Force Gauge SAUTER FS 4-200
FS 4-500	Digital Force Gauge SAUTER FS 4-500
TVM-A02	Bracket SAUTER TVM-A02
FH-A04	Interface cable FH-A04
FC 10	Digital force gauge SAUTER FC 10
FC 1K	Digital force gauge SAUTER FC 1K
FS 4-50	Digital Force Gauge SAUTER FS 4-50
FS 2-200	Digital Force Gauge SAUTER FS 2-200

SERVICES

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

SPARE PARTS

Model	Description
822-903	Power supply KERN 822-903
YKK-01	Power supply KERN YKK-01

Model	Description
FL-A01	Interface cable FL-A01
LD-A01	Analogue/Digital converterLD-A01
RTVS-2002	Switch SAUTER RTVS-2002
RTVS-2003	Potentiometer SAUTER RTVS-2003
RTVS-4001	Keyboard foil RTVS-4001
RTVS-8001	Bellows SAUTER RTVS-8001
AFM 41	Mounting bracket SAUTER AFM 41
RTVS-2001	Switch SAUTER RTVS-2001
MLB-A07	Power supply KERN MLB-A07
FH-A03	Power Adapter KERN FH-A03
RTVS-2011	Main board SAUTER RTVS-2011

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