General Information:

- Force Tester for tensile, compression, bend and break tests.
- Manually operated by hand wheel for evenly applied test load.
- Tester for accurate and dependable measurements in all fields of application.
- Usable for tensile and compression tests on all types of materials.
- Self-locking linear drive features good positioning of load slide and holds under load
- High measuring accuracy and repeatability.
- 5 types with different measuring ranges are available for selection of highest possible measuring accuracy for the respective application.
- Easy to operate and space-saving tester.
- Indication and operation of the measuring system via durable infrared sensor screen with dot matrix LCD display.

- 10000 Hz internal update rate ensures exact force readings.
- Tare compensation.
- Peak Point Mode with indication of the highest measured force value
- Tracking Mode with indication of current force values.
- Set point capability.
- Measured value memory for 1000 values.
- Serial port for data output.
- Set-up menu for internal parameter setting and adjustment of measuring system.
- Optical and acoustic overload indication.
- Overload protection of load cell: 700 to 2000% of nominal load (according to range).
- Maintenance-free and durable all metal construction.
- Quick change tool mounting adapters for tool and test fixture assembly.

Model Overview FTS:

Type	Indication Range [N]	Resolution [N]
5	0- 50	0.01
10	0- 100	0.02
25	0- 250	0.05
50	0- 500	0.1
100	0- 1000	0.2

FTS Tester with hand wheel

FTS 50 with UDT 100 and KSH-6/A

Clamping Tools and Test Fixtures:

Universal Turntable	UDT 100
Clamping Crown	SG 80
Quick Action Grippers	KSH-6, KSP-8, SHA-12, SHA-20
Cable Clamps	MK-8, DKS-20
Comb Tools	KW 1, KW 2
Miniature Grips	FSEL
Tool Set	KBP for testing cable tie pistols
Step Cone	KBS for testing cable ties
Tool Set	KLH for insertion and extraction tests

Please see our catalogue for additional standard tools and tool specifications.

Customer-specific special test fixtures and tools on request.

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FTS 50 with MK-8/A and SG 80

Optional Accessories:

- Mini Table Printer
- Data Transmission Cable for printer connection
- Data Transmission Cable for PC connection
- Keytast Interface
- Force Measuring Gauge KMS
- Please see our catalogue for additional accessories.

Detail FTS with KSH-6/A and UDT 100

Technical Specifications:

Model Designation: FTS

Indication Ranges:	0- 50/100/250/500/1000 N
Resolution:	4000/5000 increments, see model overview
Rel. accuracy error:	≤ ±0.25% ± LSD (within the measuring range)

Test Unit FTS:

Capacities:	0- 50/100/250/500/1000 N
Dimensions:	116x520x124 mm (WxDxH).
Weight:	ca. 10 kg.
Housing:	aluminum
Finish:	anodised oxide layer, titanium grey.
Linear stroke:	150 mm.
Max. capacity:	1000 N

Precise self-locking linear drive with hand wheel operation, holds rated loads without slip.
feed: 1 mm per turn of hand wheel.
Maintenance-free and durable all metal construction.
All testers are equipped with quick-change tool mounting adapters for tool and test fixture assembly.

Force Measuring System FMS:

Force Transducer:

DMS-load cell Type MWM 80108V with integrated 16 bit AD converter and RS485 bus. Overload protection 700 to 2000% (depending on type).
Internal update rate: 10000 Hz;

Control Unit:

Dimensions:	ca. 125x105x70 mm (WxDxH);
Supply voltage:	12-24 V DC by external mains adapter.

Display:

Dot matrix LCD display with LED background lighting, 128x64 pixel, 56.3x38.4 mm. LCD update rate: 5 Hz.

Operation:

Operation of all displayed keys via infrared sensor screen.

Evaluation:

Operating Modes: Tracking Mode and Peak Point Mode;
Tare compensation; Setpoint capability;
Measured value memory for 10000 measured values;
Single and listing output via serial port;
Real time clock for printout with date and time.
Language for printout selectable: D, E.
Overload indication;
Setup Menu internal parameter selection and adjustment of measuring system.

Serial Port:

RS232C	selectable parameters: 300-76800 Baud, 7/8 data bits, 1/2 stop bits, parity: none/even/odd. connector: RJ45.