

General Information:

- Compact and space saving Test Station for tension and compression tests with Large and good readable touch screen panel and automatic motor drive for tension and compression measurements.
- Versatile usable Test Station e.g. for pull-off tests of crimped, pressed, soldered and glued parts as cables with crimped terminals, connectors of cable harnesses as well as for insertion and extraction tests of connectors, cable insulation pull-off testing, testing cable ties and shearing tests.
- High internal measuring rate and high resolution provides high accuracy and consistently captures even critical peak force readings.
- Measuring system with high accuracy and repeatability.
- Motorized drive with adjustable and controlled test speed
- High overload load cell and drive unit.
- Quick change tool mounting adapters for tool assembly
- Rugged all metal construction.
- Safety-System with safety stop function
- Peak Point Mode with indication of the highest measured force value
- Tracking Mode with indication of current force values.
- Break Stop function with automatic stop and reversal after break of test specimen.
- Indication and operation of measuring system via control panel with touch screen.
- Preset of test load for non-destructive tests.
- Autoprint/autosave function can be activated
- Hold under load function, .
- Cycle tests (repeat tests) with an adjustable number of cycles: The load carriage moves between 2 adjustable positions, with an optional adjustable holding time
- Test plans can be created for fixed test parameter settings
- Users can be created and saved (with password)
- Password protection for test parameter settings can be activated
- Graphical display of the values of a measuring series

Model Overview ATM-A:

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
200	0- 2000	0.5
500	0- 5000	1
1000	0- 10000	2



ATM 50A with tools SG 80 and MK-8/A

Clamping Tools and Test Fixtures:

- | | |
|-----------------------|---|
| Turntable | UDT 100 |
| Clamping Crowns | SG 80, SG 90, SG 140 |
| Quick Action Grippers | KSH-6, KSP-8, SHA-12, SHA-20, SHA-40W |
| Cable Clamps | MK-8, DKS-20, KSS 25, KSW 25 |
| Plug-in Plate SL-BAT | for battery cable terminals |
| Comb Tool | KW 1, KW 2 |
| Miniature Grips | FSEL |
| mm-Bore Gauge | HLL for cable insulation pull-off testing |
| Tool Set KBP | for testing cable tie pistols |
| Special Fixtures | ADE for end sleeves, AST |
| Tool Set KLH | for insertion and extraction tests |
- Please see our catalogue for additional standard tools and tool specifications. Customer-specific special tools and test fixtures on request.



ATM 100A with tools SG 80 and DKS-20/A



ATM 1000A with tools SG 90 and SHA-40W/A

Technical Specifications:

Test Unit ATM:

Capacities: 0- 50/100/250/500/1000/2000 N
Dimensions: ca. 116x520x124 mm (WxDxH).
Weight: ca. 12 kg.

Capacities: 0- 5000/10000 N
Dimensions: ca. 176x636x190 mm (WxDxH).
Weight: ca. 45 kg.

Construction: durable all metal construction.
Housing: aluminium
Finish: anodised oxide layer, titanium grey/silver.
Drive: DC motor with linear drive
Linear stroke: 150 mm.
Test speed: testers 50 to 2000 N: 5-600 mm/min.
 (adjustable) testers 5 and 10 kN: 5-300 mm/min.
 controlled test speed,
 max. tolerance: $\pm 3\%$ F.S.

Break Stop: automatic stop and quick reverse after break of test specimen.

Test load preset: 10-100% of tester's rated load.

Cycle function: the load slide continuously drives between 2 end positions back and forth.

Stroke limitation: limit switches adjustable for stroke limitation

Operation: via control unit for measuring system and drive unit
 Start/Stop, Quick Reverse, Pull, Press, Break Stop, Cycle and other functions.

Power supply: 24 (36 V) DC, external mains adapter.
 All test stations are equipped with quick-change tool mounting adapters for tool and test fixture assembly.

Technical Specifications:

Model Designation: ATM-A

Indication Ranges: 0 - 50/100/250/500/1000/2000 N
 0 – 5000/10000 N.
Resolution: 4000/5000 increments, see overview
Rel. accuracy error: $\leq \pm 0.25\% \pm \text{LSD}$
 (within the measuring range)

Force Transducer:

DMS-load cells type MWM 80108V with integrated AD-converter and RS485 bus. Overload protection 200 to 2000% according to nominal load of load cell.
 Internal measuring rate: 10000 Hz;

Control Panel:

Dimensions: ca. 195x125x40 mm (WxHxD);
Weight: ca. 900 g
Touch screen display 7", capacitive;
Display update rate: minimum 5 Hz.
Ports: RS232C, USB, Ethernet
 Operation by keys displayed on touch screen panel for measuring system and drive unit
 Selectable language for operator guidance: D, E, F, ES
 Set-up menu for internal parameter selection and adjustment of measuring system

Evaluation:

- Operating modes: Tracking Mode and Peak Point Mode;
- Internal update rate: 10000 Hz
- Tare compensation
- Overload indication
- Measured value memory
- Measurement series management
- Graphical representation of the measured values
- Real Time Clock with date and time;
- Single and listing output of measured values via the serial interface
- Hold under load function, optional with following destruction of test specimen.
- Set-up menu for internal parameter selection and adjustment of measuring system;
- Adjustable parameters for RS232C

Serial Port:

RS232C selectable parameters: 1200-115200 Baud,
 7/8 data bits, 1/2 stop bits,
 parity: even/none/odd; Connector: RJ45.

Optional Accessories:

- Data Transmission Cable for printer connection
- Data Transmission Cable for PC connection
- KeyTast Interface
- Acrylic glass stand for control panel
- Calibration system CMS
- Please see our catalogue for additional accessories.
- Customer-specific test programmes and adaptations available on request