General Information:

- Electronic Test Station for tension and compression tests with digital indication and DMS load cell.
- Versatile Test Station e.g. for tensile testing of crimped, pressed, glued and soldered parts as crimped terminals and connection parts of cable harnesses as well as for cable insulation pull-off testing, insertion and extraction tests of connectors, shearing tests and cable tie testing.
- Rugged all metal construction ensures durability for production floor as well as laboratory test requirements.
- Dust protection of the engine housing.
- Space saving and easy to operate units.
- Motorized drive for constant test speed.
- Adjustable test speed.
- Test load preset e.g. for non-destructive tests.
- Break Stop function with stop and automatic reversal at break of test specimen.
- Continuous cycle operation.
- Operation of drive system by keypad control unit.
- High measuring rate and high resolution provides high accuracy and captures even critical peak force readings.
- Indication and operation of the measuring system via durable infrared touch screen with dot matrix LCD-display.
- Zero correction and tare compensation.
- Overload indication and overload protection of load cells.
- Thermal overload protection.
- Revised electromagnetic shielding of load cell and AD converter system.
- High ruggedness of the drive unit.
- 3 operating modes:
  - Peak Point Mode with indication of the highest measured force value and
  - Rolling Mode with indication of current force values.
  - Hold function with timer 60/120/180 seconds, followed by selectable destructive or non-destructive testing.
- Single and listing output of measured values via the serial port.
- Real time clock for printout with date and time.
- Measured-value memory.
- Setup menu for internal parameter setup.
- Serial port for data output.
- Universal tool mounting adapters for tool assembly (quick change tool fittings).
- PC Software interface for mavStat and mavDataEx

Model Range: ATM

<table>
<thead>
<tr>
<th>Code</th>
<th>Indication Range [N]</th>
<th>Resolution [N]</th>
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<tr>
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<td>0 - 5000</td>
<td>1</td>
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<tr>
<td>1000</td>
<td>0 - 10000</td>
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</table>

Clamping Tools and Test Fixtures:

- Clamping Crowns: SG 80, SG 90, SG 90-v
- Universal Turntable: UNI-DT-2K, UNI-DT-2K-v
- Cable Clamps: MK-8, DKS-20
- Quick Action Grippers: KSH-6, KSP-8, SHA-12, DES-10, SHA-20, SHA-40
- mm-Bore Gauge: ML1 for cable insulation pull-off testing
- Plug-in Plate: SL-BAT for battery cable connections
- Comb Tools: KW 1, KW 2
- Miniature Grips: FSEL, KSEL
- Breaking Fixture: KPH for plate material

Please see our catalogue for additional tools.
Customized test fixtures available on request.

ATM 100 with SG 80 and DKS-20/A

ATM 50 with SHA-20/M and SPA/ML1 for Cable coating pull-off testing
Motor Test Station Model ATM

Technical Specifications:

Model Designation: ATM
Indication Ranges: 0 - 50/100/250/500/1000 N
Res. accuracy error: ± 0.25% ± LSD (within the measuring range)

Drive Unit:
Dimensions: ≤ 1000 N: BxTxH ca. 116x520x124 mm;
≥ 5000 N: BxTxH ca. 176x700x190 mm.
Weight: ≤ 1000 N: ca. 13 kg;
≥ 5000 N: ca. 40 kg.
Construction: Maintenance-free all metal construction.
Drive: Step motor with precision linear drive.
Linear stroke: 150 mm.
Test speed: Adjustable, ≤ 2000 N: 5-600 mm/min.
≥ 5000 N: 5-300 mm/min.
(max. tolerance: ±2% F.S.)
Test load preset: 10-100% of tester's nominal load.
Break Stop function: Automatic stop and reversal at break of test specimen.
Cycle function: The load bar drives between two final positions back and forth continuously.
Operation: Keypad control unit with On/Off-switch and 3 keys for Start/Stop, Quick Reverse, Pull, Press, Break Stop and Cycle.
Power supply: 24 V DC, by external power adaptor.

Force Measuring System AMS:
Force Transducer:
DMS-load cells type MWM 80108V with integrated 16 bit AD-converter and RS485 bus. Overload protection min. 200%.
Control Unit:
Dimensions: BxTxH ca. 125x105x70 mm;
Display: Dot matrix LCD display with LED background lighting, 128x64 pixel, 56.3x38.4 mm. LCD update rate: 5 Hz.
Input/Operation: Operation of all displayed elements via infrared touch screen.
Evaluation:
Operating Modes: Rolling Mode and Peak Point Mode;
Internal measuring rate: 10000 Hz;
Zero point correction and tare compensation;
Overload indication;
Test load preset;
Setup Menu for adjustment and internal parameter selection;
Measured value memory for 10000 values;
Single and listing output via serial port;
Real time clock for printout with date and time.
Language for printout selectable: D, E, F.

Accessibility and Options:
- Mini Table Printer DPN 833
- Data Transmission Cable for printer connection
- Data Transmission Cable for PC connection
- Force Measuring System KMG for control
- Protective Covers
- For additional accessories please see our catalogue.
- Customized programs and adaptations available on request.
- PC Software mavStat, mavSTATLight and mavDataEx available.

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