

# VEHICLE TESTING TECHNOLOGY AXLE DAMPING TESTER

**ATT THETA**  
VP 215046



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The axle damping test bench ATT THETA is characterised by a fast and precise mechanical testing of the axle damping. Through the frequency-controlled plate activation via electric motors, the maximum vibration amplitude is calculated and then the axle damping is evaluated according to the Lehr damping principle. The fully automatic test sequence, including the calculation of axle and vehicle weight, saves time and allows a reliable assessment of the axle damping.

## PRODUCT DETAILS/ACCESSORIES

### Description:

- Quick and accurate physical axle damping testing
- Evaluation based on Lehr's damping ratio
- Automatic measurement of axle and vehicle weight with transfer of weight to brake tester (optional)
- Fully-automatic test sequence launched once plate load of is more than 60 kg on both sides
- Frequency-controlled plate excitation by electric motors to determine the maximum vibration amplitude, with subsequent evaluation of axle damping
- Noise search function for pinpointing interference noises in the vehicle directly on the test stand (optional)
- Floor unit as self-supporting framework
- Parallelogram-guided test plates and therefore no fixed wheel

### testing point necessary

- In conjunction with EUROSYSYSTEM: display on PC screen with evaluation by Lehr's damping ratio D with deviation display and graphic representation
- In conjunction with LON brake testers: representation on LON analogue displays with evaluation by Lehr's damping ratio D
- Varnished with high-quality powder coating: Anthracite Grey, RAL 7016

### Standard delivery:

- Floor Unit Axle Damping Tester
- Pre-configured for connection to EUROSYSYSTEM or LON test line
- Pre-configured for stand-alone use (requires MCD 2000 communication desk with electronics)

## TECHNICAL DATA

|                                   |                            |
|-----------------------------------|----------------------------|
| Axle load (test capacity)         | 2200 kg                    |
| Axle load (support capacity)      | 2500 kg                    |
| Min. track                        | 880 mm                     |
| Max. track                        | 2200 mm                    |
| Drive power                       | 2 × 1.1 kW                 |
| Excitation lift                   | 6.5 mm                     |
| Excitation frequency (regulated)  | 2 - 10 Hz                  |
| Maximum plate lift                | 70 mm                      |
| Measurement display               |                            |
| (damping ratio D)                 | 0.02 - 0.3 (without units) |
| gG fuse                           | 16 A                       |
| Power supply                      | 1/N/PE 230 V 50/60 Hz      |
| Floor unit dimensions (H x W x L) | 280 x 800 x 2320 mm        |

## ACCESSORIES

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|                              |   |           |  |
|------------------------------|---|-----------|--|
| VZ 975082                    | Extra Charge for Reinforced Version, vehicle weight bearing max. 13 t Axle Load | VT 998280 | Transport Werkverkehr -NORDMBT W220/RS2, MSD -ungeteilt/Compact-                     |
| VZ 930022                    | Divided Version for Pit Installation  | VT 998281 | Transport Werkverkehr -SÜDMBT W250/RS4/W280/RS5, C13.0 MSD-Plus -ungeteilt/Compact-  |
| VZ 930096                    | Version MSD 3000 Plus for Tracking width up to 2500 mm -EXTRA CHARGE-           | VT 998282 | Transport Werkverkehr -NORDMBT W250/RS4/W280/RS5, C13.0 MSD-Plus -ungeteilt/Compact- |
| VZ 975633                    | Calibration-Device MSD 3000   | VT 998283 | Transport Werkverkehr -SÜDMBT, MSD -geteilt/Split-                                   |
| VP 186051                    | Communication Desk EUROSYSYSTEM Car/Truck (with electronics) Model: MCD 2000    | VT 998284 | Transport Werkverkehr -NORDMBT, MSD -geteilt/Split-                                  |
| <b>SUPPLEMENTARY CHARGES</b> |   | VM 996142 | Montagekosten MSD inkl. Einweisung und Kalibrierung                                  |
| VT 998279                    | Transport Werkverkehr -SÜDMBT W220/RS2, MSD -ungeteilt/Compact-                 |           |  |