

# BRAKE TESTING TECHNOLOGY MBT 3000 SERIES

**BT 1550**  
VP 410195



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The test-lane-compatible roller brake tester BT 1550 is designed for the brake testing of cars, vans and light-duty trucks with axle loads of up to 8.0 t. Its standard test speed of 5 km/h complies with the country-specific legal requirements for testing cars and light-duty trucks. Its multi-analogue display, with two pointer gauges, enables the display of brake, side-slip and shock absorption test results.

## PRODUCT DETAILS/ACCESSORIES

Description of the MBT 3200 LON:

Test lane-enabled roller brake tester with Multi-analogue display particularly for cars, vans and light lorries with an axle load of up to 8.0 t

- Thanks to 8 t axle load and 2800 mm track width, particularly suitable for vans and light lorries
- As a test speed of 5 km/h is supplied as standard, both cars and light lorries can be tested in compliance with legislation.
- Multi-analogue display with two pointer indicators (Diameter: 2 x 350 mm) and an integrated switch and electrical cabinet  
Display option for:
  - Brake tester
  - Wheel arch tester
  - Shock absorption tester
- Difference display (three-digit + LED bar) for evaluating:
  - Difference in braking force
  - Difference in shock absorption
  - Deviation in wheel arch
- Program control using 32-bit microprocessor electronics

enables the finest resolution for the measurement results

Dimensions of display (H x W x D) 910 x 870 x 300 mm

- Comprehensive package of functions for professional testing, such as:
  - Delayed automatic switch-on after entering the tester
  - Automatic start-up monitoring supplied as standard to avoid tyre damage
  - Automatic slip cut-off with pointer stop and automatic restart already included as standard

- Automatic exiting aid supplied as standard to enable the driven axles to conveniently exit the tester
- Automatic cut-off after exiting the tester
- Single-wheel switching for differentiated consideration of each wheel

- Robust and long-lasting design due to:
  - Electronic, temperature-compensated strain gauge system for highly precise measurement results under all environmental conditions
  - Roller surface welded
  - Optional, free plastic coating on the test rollers
  - 32-bit microprocessor electronics for process control and monitoring of all the safety functions
  - Lockable main switch
  - RS 232 interface connection
  - Splash-proof motors work reliably, even under high-stress environmental influences
  - Weighted test rollers with groove ball bearings ensure maximum precision and complete driving comfort and guarantee a long service life for the entire tester
  - Internationally recognised TÜV certificate as per issue 9/2011 of the Verkehrsblatt (German Transport Gazette)
  - Star-delta circuit to avoid high inrush currents
  - Self-supporting closed roller set
  - Varnished with high-quality powder coating: Anthracite Grey, RAL 7016

Scope of delivery:

- Analogue display with two pointer indicators and an integrated switch cabinet
- MBT 3000 roller set with preparation for weighing equipment

## TECHNICAL DATA

|                                |            |
|--------------------------------|------------|
| Axle load (can be driven over) | 8000 kg    |
| Min. track                     | 870 mm     |
| Max. track                     | 2800 mm    |
| Drive power                    | 2 x 5.5 kW |
| Test speed                     | 5 km/h     |

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## TECHNICAL DATA

|                                      |                     |
|--------------------------------------|---------------------|
| Measuring range                      | 10 kN               |
| Roller diameter                      | 202 mm              |
| Roller axle distance                 | 400 mm              |
| gG fuse                              | 35 A                |
| Power supply                         | 3/N/PE 400 V 50 Hz  |
| Dimensions of roller set (L x W x H) | 2925 x 680 x 280 mm |

## ACCESSORIES

|           |   |
|-----------|---|
| VZ 955278 | Add-on Kit Brake Tester Directive Model: Directive 2011                 |
| VZ 930040 | Divided Roller Set for Installation in Pit                              |
| VZ 975546 | Weighing system STAT./DYN. for roller set MBT 3000                      |
| VZ 935068 | Roller Heating  |
| VZ 935174 | Roller cover for MBT 3000 series, 4 t traversable                       |
| VZ 930041 | Automatic Pneumatic Lifting Device with light barrier for MBT 2xxx/3000 |
| VP 930057 | Foundation formwork galv., for MBT 2000 RS5/ C_MBT C W280               |
| VZ 935110 | Plastic-Coated Roller Surface (Standard Production - Welded)            |

### CONTROLLING SYSTEM AND SPECIAL VOLTAGE

|           |  |
|-----------|--|
| VZ 935132 | Driving and Testing Directions manually selectable both sides or one side    |
| VZ 935133 | Driving and Testing Directions of Single Wheel selectable via Remote Control |
| VZ 935114 | DC Brake for MBT 2000/3000 Roller Sets                                       |
| VZ 990352 | Special voltage 3 x 230 V 50/60Hz  |

### ACCESSORIES ANALOG-/SIMULTAN- EOUS DISPLAYS

|           |   |
|-----------|---|
| VZ 955257 | Foot for display cabinet for free-standing installation                                   |
| VZ 955256 | Wall holder for Multi-analog display 2 or 4, 180° swivable                                |
| VZ 950055 | Simultaneous Display for MBT 2000/3000 LON/-EUROSYSTEM Model: MSA C CLASSIC               |
| VZ 950056 | Simultaneous Display for MBT 2000/3000 LON/-EUROSYSTEM MODEL: MSA C VARIODATA             |
| VZ 955252 | Differential display for Simultaneous Display MSA   |
| VZ 955253 | Display module VARIODATA  |
| VZ 955254 | LED-running letters (16 digits) with convenient operator guidance                         |
| VZ 955269 | Installation Kit to attach Simultaneous Display MSA to Wall (approx. 90° swivable)        |
| VZ 955255 | Wall holder for Simultaneous Display MSA (approx. 180° swivable)                          |
| VZ 955270 | Foot for Simultaneous Display MSA, (approx. 180° swivable) for free-standing installation |
| VZ 955271 | Support for Simultaneous Display MSA CLASSIC, for Inst. to Communication Desk MCD         |
| VZ 950064 | Display and Control Cabinet Installed Separately  |

### ACCESSORIES PRINTER AND REMOTE CONTROLS

|           |   |
|-----------|---|
| VZ 910153 | Radio remote control MODEL: RECO 1 incl. reception module |
| VZ 910047 | Infrared Remote Control IFB3                              |
| VZ 990050 | Pedal force meter   |

### ACCESSORIES SAFETY SYSTEMS

|           |                               |
|-----------|-------------------------------|
| VZ 955088 | Key Switch for Emergency Stop |
| VZ 955045 | Emergency Switch              |
| VZ 955014 | Working hour meter            |

### WEATHER PROTECTIVE ACCESSORIES

|           |  |
|-----------|--|
| VZ 955080 | Thermostat-Controlled Heater for Electro-Cabinet |
|-----------|--|

### ACCESSORIES PRESSURE EQUIPMENT AND RADIO EQUIPMENT

|           |  |
|-----------|--|
| VZ 980035 | Start set radio controlled pressure converter  |
| VZ 910154 | Radio remote control Model: FFB3 incl. reception module                                    |
| VZ 910156 | Radio remote control/Radio Hand-held terminal FFB3-FHT (-EXTRA CHARGE to FFB3-)            |
| VZ 980029 | Pneum. Radio-Controlled Pressure Converters, Meas. Range 0 - 20 bar, MODEL: RCD 40         |
| VZ 985028 | Hydr.Radio-Controlled Pressure Converters, Range: 0 - 160 bar MODEL: RCD 30 - 160 bar      |
| VZ 955071 | Flashing Light with Periodical Signal Horn for Radio Controlled Pressure Converters        |
| VZ 990090 | Warning Lamp f. Radio-Control. Pressure Converters when being removed from Re-Charging Box |

### ACCESSORIES HARD- AND SOFTWARE

|           |  |
|-----------|--|
| VZ 911264 | Software LON Basic for external PC   |
| VZ 910140 | USB/RS 232 Converter for Connection to PC/ Laptop w/o. RS 232 Interface -NET-    |
| VP 186050 | Communication Desk EUROSYSTEM Car/Truck (w/o electronics) Model: MCD 2000        |
| VZ 955273 | Printer Compartment for Communication Desk EUROSYSTEM MCD 2000                   |
| VZ 955274 | Side Shelf for Comm. Desk EUROSYSTEM MCD 2000                                    |
| VZ 910177 | Industrial PC Compact with Windows 10 -NET PRICE                                 |
| VZ 910052 | PC Keyboard and Mouse -NET PRICE   |
| VZ 910200 | PC Flat screen 24 VGA/DVI/HDMI, (TFT standard) -NET PRICE-                       |
| VZ 910192 | LCD simultaneous display unit 40 incl. pedestal; HDMI -NET PRICE-                |
| VZ 955244 | Rotatable & Folding Wall Holder f. TFT Industrial- or TV Flat Screens (up to 42) |
| VZ 910193 | HDMI Cable 5 m -NET PRICE  |
| VZ 910179 | HDMI Cable 15 m -NET PRICE   |
| VZ 910180 | HDMI Cable 30 m -NET PRICE   |
| VZ 910181 | HDMI Splitter, 4-port incl. 2 m cable -NET PRICE                                 |
| VZ 910091 | A4 Ink jet colour printer (incl. printer cable) -NET PRICE-                      |

### SUPPLEMENTARY CHARGES

|           |   |
|-----------|---|
| VT 998149 | Shipping charges brake tester MBT 3000                                    |
| VT 995655 | Transportkosten PC-Recheneinheit in Verbindung mit Pult                   |
| VT 995068 | Transportkosten Schaltschrank, Simultananzeige, PC-Pult pro Stück         |
| VM 996116 | Installation costs Brake Tester MBT 2200 LON, MBT 3200                    |
| VM 995148 | Routine Test/Calibration acc. to Verkehrsblatt 24/2020 Truck Brake Tester |



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VM 996090 Assembly Costs Radio Pressure Converters (max.  
10 pcs.) per unit/recharging box

VM 996088 Montagekosten Allradregelsatz bei  
Neuinstallation

VM 995679 Assembly Costs per Display Unit

VM 996117 Pre-installation Brake Tester MBT 2000/3000  
with 10 m cable

VM 996118 Connection and Calibration Brake tester MBT  
2000/3000 with 10 m cable