

BRAKE TESTING TECHNOLOGY MBT 7000 SERIES

BT 1640
VP 410197



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The test-lane-compatible roller brake tester BT 1640 is designed for the brake testing of trucks with axle loads of up to 18.0 t and is ideal for truck diagnostics in situations of high vehicle throughput. Its large sensor roller, with a diameter of 100 mm, guarantees measurable coverage across all tyre dimensions. Its multi-analogue display, with four pointer gauges, enables the display of brake, side-slip and shock absorption test results (0-8 kN and 0-40 kN).

PRODUCT DETAILS/ACCESSORIES

Description of the MBT 7200 LON:

- Perfectly suited to lorry diagnostics, even with a very high vehicle throughput
- With the optionally available, integrated roller set lift:
 - For load simulation
 - For redistribution on an axle to be tested
 - No foundation modifications saves a substantial amount of structural effort
- Service and installation-friendly design with maintenance flap
- Large sensing roller with a diameter of 100 mm guarantees measurable coverage across all tyre dimensions
- Multi-analogue display with four pointer indicators

(Diameter: 4 x 350 mm)

- Measured value display 0 - 8 kN / 0 - 40 kN

- Display option for:
 - Brake tester
 - Wheel arch tester
 - Shock absorption tester
- Difference display (three-digit + LED bar) for displaying:
 - Difference in braking force in %
 - Difference in shock absorption in %
 - Deviation in wheel arch in m/km
 - Results evaluation using additional coloured LED bars
 - User guidance using alphanumerical display
- Program control using 32-bit microprocessor electronics

enables the finest resolution for the measurement results

Dimensions of display (H x W x D) 1060 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
 - RS 2 roller set design with space-saving motor integration underneath the test rollers
 - Rear roller elevated by 50 mm - guarantees highly precise measurement results, particularly for trailer axles.
 - Self-supporting divided roller set
 - Varnished with high-quality powder coating: Anthracite Grey, RAL 7016

Scope of delivery:

- Analogue display with four pointer indicators and an integrated switch cabinet
- MBT 7000 RS 2 roller set with preparation for weighing equipment
- Two VARIODATA digital displays
- RECO 1 remote control

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TECHNICAL DATA

| | |
|--------------------------------|--------------------|
| Axle load (can be driven over) | 18000 kg |
| Drive power | 2 x 11 kW |
| Test speed | 3 km/h |
| Roller length | 1150 mm |
| Roller diameter | 265 mm |
| Roller axle distance | 475 mm |
| gG fuse | 63 A |
| Power supply | 3/N/PE 400 V 50 Hz |

ACCESSORIES

| | | | |
|-----------|---|--|---|
| VZ 955278 | Add-on Kit Brake Tester Directive Model: Directive 2011 | VZ 935172 | Angle Iron Frame for Lifting of Roller Set (for Balzer Pit) |
| VZ 930066 | Roller set up to 18t axle load Motor-side mounted on roller MBT 7000 RS 1 Extra charge | VZ 935238 | Roller Set Lift, Mech./Hydr. MBT 4000/7000 RS.No.2/W with Angle Iron Frame (1-Piece) |
| VZ 935201 | Re-inforced roller set 20 t Drive motors 2 x 11 kW Display range 0 - 40 kN | VP 935236 | Floor Anchors -Above-Groundfor Raisable Roller Set |
| VZ 930017 | Extended Rollers f. Low-Bed Trailers, each Side 1.6 m long (Separate Install. Drawing!) | VP 935237 | Floor Anchors -In-Groundfor Raisable Roller Set |
| VZ 955016 | Flush-Floor Roller Set (both front & rear rollers raised 50 mm) for MBT 7000 RS.No. 2/3 | VZ 990201 | Converter Board for Control of Hydraulic Load Simulator Roller Set Lifting |
| VZ 935143 | Elevat. of Rollers & Sensor Rollers MBT 7000, recommended f. Tyre Diam. from 1500 mm on | VZ 935232 | Adapter Set Continental CTC II / Workshop Tab -NET- |
| VZ 935141 | Vehicle Weight-Bearing Roller Cover Plates (4 pcs.), Galva nized Steel, | VZ 935276 | Prefitting with holder set for Continental CTC II -NET PRICE- |
| VZ 935246 | Angle Iron Frame for MBT 7000 RS.No.1 for Weighing Machine with Pit, galvanized | VZ 935110 | Plastic-Coated Roller Surface (Standard Production - Welded) |
| VZ 935263 | Angle Iron Frame for MBT 7000 RS.No.1 for Weighing Machine Surface Mounted Version, galv. | CONTROLLING SYSTEM AND SPECIAL VOLTAGE | |
| VZ 935151 | Angle Iron Frame for MBT 7000 RS.No.2 for Weighing Machine with Pit, galvanized | VZ 935072 | Driving and Testing direction manually switchable at console |
| VZ 935146 | Angle Iron Frame for MBT 7000 RS.No.2 for Weighing Machine w/o Pit, galvanized | VZ 935134 | Driving in both directions |
| VZ 935150 | Low-Loader Angle Iron Frame RS.No.2 w/o Pit (Undivided Version) galvanized | VZ 990181 | 4 wheel drive regulator set for Visco and Rigid 4 WD (MBT 4000/7000 Series) |
| VZ 935153 | Low-Loader Angle Iron Frame RS.No.2 with Pit (Divided Version) galvanized | VZ 935113 | DC-Brake for MBT 4000/7000Roller Sets |
| VZ 935011 | Center Cover between Roller Sets, for MBT 7000 | VZ 990350 | Special voltage 3 x 230 V 50Hz |
| VZ 930092 | Set of Ramps for MBT 7000 RS. No.1 (4 pcs. only in conjunct. with frame VZ 935263) | ACCESSORIES ANALOG-/SIMULTAN- EOUS DISPLAYS | |
| VZ 930093 | Drive-over ramps (2 pcs.) for MBT 7000 RS.No.1 | VZ 955257 | Foot for display cabinet for free-standing installation |
| VZ 975548 | Weighing device STATIC/ DYNAMIC for MBT 4000/6000/7000 | VZ 955256 | Wall holder for Multi-analog display 2 or 4, 180° swivable |
| VZ 935077 | Two Testing Speeds | VZ 950057 | Simultaneous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T CLASSIC |
| VZ 935006 | Roller Heating | VZ 950058 | Simultaneous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T VARIODATA |
| VZ 985052 | Hydr. Load Simulator Double HD Cylinder Model: MLS 2100 | VZ 950059 | Simultaneous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T COMPETENCE |
| VZ 935198 | Lashing Straps for Hydr. Load Simulator (2 pcs) | VZ 955252 | Differential display for Simultaneous Display MSA |
| VZ 935199 | Fastening Set for Hydr. Load Simulator | VZ 955253 | Display module VARIODATA |
| VZ 935200 | Fastening Clamps (2 pcs.) for Hydr. Load Simulator | VZ 955254 | LED-running letters (16 digits) with convenient operator guidance |
| VZ 935264 | Mechanical-Hydraulic Lifting of MBT 4000/7000 RS.No.2 | VZ 955269 | Installation Kit to attach Simultaneous Display MSA to Wall (approx. 90° swivable) |
| VZ 935169 | Mechanical-Hydraulic Roller Set Lift for MBT 4000/7000 RS.No.2/W | VZ 955255 | Wall holder for SimultaneousDisplay MSA (approx. 180° swivable) |
| VZ 935170 | Angle Iron Frame for Lifting of Roller Set,with working pit | VZ 955270 | Foot for Simultaneous Display MSA, (approx. 180° swivable) for free-standing installation |
| VZ 935256 | Angle Iron Frame for Lifting of Roller Set, w. Working Pit Flatbed Truck Version | VZ 950064 | Display and Control Cabinet Installed Separately |
| | | ACCESSORIES PRINTER AND REMOTE CONTROLS | |
| | | VZ 990050 | Pedal force meter |
| | | ACCESSORIES SAFETY SYSTEMS | |

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| VZ 955088 | Key Switch for Emergency Stop | VZ 910192 | LCD simultaneous display unit 40 incl. pedestal; HDMI -NET PRICE- |
| VZ 955045 | Emergency Switch | VZ 955244 | Rotatable & Folding Wall Holder f. TFT Industrial- or TV Flat Screens (up to 42) |
| VZ 955014 | Working hour meter | VZ 910193 | HDMI Cable 5 m -NET PRICE |
| WEATHER PROTECTIVE ACCESSORIES | | | |
| VZ 955080 | Thermostat-Controlled Heater for Electro-Cabinet | VZ 910179 | HDMI Cable 15 m -NET PRICE |
| ACCESSORIES PRESSURE EQUIPMENT AND RADIO EQUIPMENT | | | |
| VZ 980034 | Pneumatic pressure converter integrated into roller set measurement range 0 - 20 bar | VZ 910180 | HDMI Cable 30 m -NET PRICE |
| VZ 980035 | Start set radio controlled pressure converter | VZ 910181 | HDMI Splitter, 4-port incl. 2 m cable -NET PRICE |
| VZ 910154 | Radio remote control Model: FFB3 incl. reception module | VZ 910091 | A4 Ink jet colour printer (incl. printer cable) -NET PRICE- |
| VZ 910157 | Radio remote control FFB3 (-EXTRA CHARGE to RECO 1-) | SUPPLEMENTARY CHARGES | |
| VZ 910156 | Radio remote control/Radio Hand-held terminal FFB3-FHT (-EXTRA CHARGE to FFB3-) | VT 995707 | Transportkosten Bremsprüfstand MBT 4000/5000/7000-Serie |
| VZ 980029 | Pneum. Radio-Controlled Pressure Converters, Meas. Range 0 - 20 bar, MODEL: RCD 40 | VT 995655 | Transportkosten PC-Recheneinheit in Verbindung mit Pult |
| VZ 985028 | Hydr.Radio-Controlled Pressure Converters, Range: 0 - 160 bar MODEL: RCD 30 - 160 bar | VT 995068 | Transportkosten Schaltschrank, Simultananzeige, PC-Pult pro Stück |
| VZ 955071 | Flashing Light with Periodical Signal Horn for Radio Controlled Pressure Converters | VT 995004 | Transportkosten Einbaurahmen geteilt |
| VZ 990090 | Warning Lamp f. Radio-Control. Pressure Converters when being removed from Re-Charging Box | VT 998147 | Transportkosten Einbaurahmen ungeteilt |
| ACCESSORIES HARD- AND SOFTWARE | | | |
| VZ 911264 | Software LON Basic for external PC | VT 995069 | Transportkosten hydraulischer Gewichtssimulator |
| VZ 911265 | Software module LON Basic Plus with SP-Program Basic of Software BASIC-LON | VT 995711 | Transportkosten Einbaurahmen für Rollensatzanhebung |
| VZ 911273 | Software module LON Basic HR with projection program | VM 999005 | Hydraulic Oil (HLPD 32) per Litre -NET PRICE |
| VZ 910140 | USB/RS 232 Converter for Connection to PC/ Laptop w/o. RS 232 Interface -NET- | VM 996113 | Assembly costs Brake Tester MBT 4250/-7250 LON MBT 5200/-6200 |
| VP 186050 | Communication Desk EUROSYSYSTEM Car/Truck (w/o electronics) Model: MCD 2000 | VM 995148 | Routine Test/Calibration acc. to Verkehrsblatt 99/2022 Truck Brake Tester |
| VZ 955273 | Printer Compartment for Communication Desk EUROSYSYSTEM MCD 2000 | VM 996088 | Montagekosten Allradregelsatz bei Neuinstallation |
| VZ 955274 | Side Shelf for Comm. Desk EUROSYSYSTEM MCD 2000 | VM 996090 | Assembly Costs Radio Pressure Converters (max. 10 pcs.) per unit/recharging box |
| VZ 910177 | Industrial PC Compact with Windows 10 -NET PRICE | VM 995679 | Assembly Costs per Display Unit |
| VZ 910052 | PC Keyboard and Mouse -NET PRICE | VM 996136 | Montagekosten Niederzieh- und Hebevorrichtung -nach Aufwand- |
| VZ 910200 | PC Flat screen 24 VGA/DVI/HDMI, (TFT standard) -NET PRICE- | VM 996185 | Montagekosten Bodenanker für Rollensatzanhebung -nach Aufwand- |
| | | VM 996114 | Pre-assembly Brake Tester MBT 4000/5000/6000/7000 with 20m cable |
| | | VM 996115 | Connection and Calibration MBT 4000/5000/6000/7000 with 20 m cable |
| | | VV 997584 | Packing Charges Roller Set Lift |