

# BRAKE TESTING TECHNOLOGY MBT 4000 SERIES

**BT 1610**  
VP 410196



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The test-lane-compatible roller brake tester BT 1610 is designed for the brake testing of trucks with axle loads of up to 13.0 t. Its standard split design for pit installation ensures a high level of flexibility within the working area. 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 4200 LON:  
Test lane-enabled roller brake tester with multi-analogue display for lorries with an axle load of up to 13 t

- Divided design supplied as standard for installation in a working pit enables a high level of flexibility with regard to the area of use
- The dimensions offer the best testing opportunities for standard cars and lorries
- Multi-analogue display with two pointer indicators

(Diameter: 2 x 350 mm)

- Measured value display                      0 - 4 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 alphanumeric display

- 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

Dimensions of display with option\* (W x H x D)                      1060 x 870 x 300 mm

- \* With all-wheel regulation set
- 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 40 mm - guarantees highly precise measurement results, particularly for trailer axles.
  - Self-supporting divided roller set
  - Varnished with high-quality powder coating: Anthracite Grey, RAL 701

Scope of delivery:

- Analogue display with two pointer indicators and an integrated switch cabinet
- MBT 4000 RS 2 roller set with preparation for weighing equipment

## TECHNICAL DATA

Axle load (can be driven over)

13000 kg

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## TECHNICAL DATA

Drive power	2 x 9 kW
Test speed	2.3 km/h
Roller length	1000 mm
Roller diameter	202 mm
Roller axle distance	430 mm
gG fuse	50 A
Power supply	3/N/PE 400 V 50 Hz

## ACCESSORIES

VZ 955278	Add-on Kit Brake Tester Directive Model: Directive 2011	VZ 955256	Wall holder for Multi-analog display 2 or 4, 180° swivable
VZ 930047	Additional Charge for 2 Re-inforced 11kW drive motors Fused 63 Amp slow.	VZ 950057	Simultaneous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T CLASSIC
VZ 935010	Flush-Floor Roller Set (both Front & Rear Rollers raised 40 mm) for MBT 4000 RS.No.2	VZ 950058	Simultaneous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T VARIODATA
VZ 935142	Approach Ramp MBT 4000 RS.No.2 (2 pcs.), made of Steel	VZ 955252	Differential display for Simultaneous Display MSA
VZ 935275	Vehicle Weight-Bearing Roller Cover Plates (4 pcs.), Galv. Steel, for MBT 4000 RS.No. 2	VZ 955253	Display module VARIODATA
VZ 935157	Angle Iron Frame for MBT 4000 RS.No.2 for Weighing Machine with Pit, galvanized	VZ 955254	LED-running letters (16 digits) with convenient operator guidance
VZ 935155	Angle Iron Frame for MBT 4000 RS.No.2 for Weighing Machine w/o Pit, galvanized	VZ 955269	Installation Kit to attach Simultaneous Display MSA to Wall (approx. 90° swivable)
VZ 935180	Center Cover between Roller Sets, for MBT 4000	VZ 955255	Wall holder for Simultaneous Display MSA (approx. 180° swivable)
VZ 975548	Weighing device STATIC/ DYNAMIC for MBT 4000/6000/7000	VZ 955270	Foot for Simultaneous Display MSA, (approx. 180° swivable) for free-standing installation
VZ 935077	Two Testing Speeds	VZ 950064	Display and Control Cabinet Installed Separately
VZ 935006	Roller Heating	<b>ACCESSORIES PRINTER AND REMOTE CONTROLS</b>	
VZ 985052	Hydr. Load Simulator Double HD Cylinder Model: MLS 2100	VZ 910153	Radio remote control MODEL: RECO 1 incl. reception module
VZ 990201	Converter Board for Control of Hydraulic Load Simulator Roller Set Lifting	VZ 990050	Pedal force meter
VZ 935198	Lashing Straps for Hydr. Load Simulator (2 pcs)	<b>ACCESSORIES SAFETY SYSTEMS</b>	
VZ 935199	Fastening Set for Hydr. Load Simulator	VZ 955088	Key Switch for Emergency Stop
VZ 935200	Fastening Clamps (2 pcs.) for Hydr. Load Simulator	VZ 955045	Emergency Switch
VZ 935264	Mechanical-Hydraulic Lifting of MBT 4000/7000 RS.No.2	VZ 955014	Working hour meter
VZ 935112	Adapter frame to convert MBT 7000 foundation frame to MBT 4000 roller set	<b>WEATHER PROTECTIVE ACCESSORIES</b>	
VP 935236	Floor Anchors -Above-Groundfor Raisable Roller Set	VZ 955080	Thermostat-Controlled Heater for Electro-Cabinet
VP 935237	Floor Anchors -In-Groundfor Raisable Roller Set	<b>ACCESSORIES PRESSURE EQUIPMENT AND RADIO EQUIPMENT</b>	
VZ 935232	Adapter Set Continental CTC II / Workshop Tab -NET-	VZ 980035	Start set radio controlled pressure converter
VZ 935276	Prefitting with holder set for Continental CTC II -NET PRICE-	VZ 910154	Radio remote control Model: FFB3 incl. reception module
VZ 935110	Plastic-Coated Roller Surface (Standard Production - Welded)	VZ 910156	Radio remote control/Radio Hand-held terminal FFB3-FHT (-EXTRA CHARGE to FFB3-)
<b>CONTROLLING SYSTEM AND SPECIAL VOLTAGE</b>			
VZ 935072	Driving and Testing direction manually switchable at console	VZ 980029	Pneum. Radio-Controlled Pressure Converters, Meas. Range 0 - 20 bar, MODEL: RCD 40
VZ 935134	Driving in both directions	VZ 985028	Hydr.Radio-Controlled Pressure Converters, Range: 0 - 160 bar MODEL: RCD 30 - 160 bar
VZ 990181	4 wheel drive regulator set for Visco and Rigid 4 WD (MBT 4000/7000 Series)	VZ 955071	Flashing Light with Periodical Signal Horn for Radio Controlled Pressure Converters
VZ 935113	DC-Brake for MBT 4000/7000Roller Sets	VZ 990090	Warning Lamp f. Radio-Control. Pressure Converters when being removed from Re-Charging Box
VZ 990350	Special voltage 3 x 230 V 50Hz	<b>ACCESSORIES HARD- AND SOFTWARE</b>	
<b>ACCESSORIES ANALOG-/SIMULTAN- EOUS DISPLAYS</b>			
VZ 955257	Foot for display cabinet for free-standing installation	VZ 911264	Software LON Basic for external PC
		VZ 911265	Software module LON Basic Plus with SP-Program Basicof Software BASIC-LON
		VZ 911273	Software module LON Basic HR with projection program
		VZ 910140	USB/RS 232 Converter for Connection to PC/ Laptop w/o. RS 232 Interface -NET-

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VP 186050	Communication Desk EUROSYSYSTEM Car/Truck (w/o electronics) Model: MCD 2000	VT 995068	Transportkosten Schaltschrank, Simultananzeige, PC-Pult pro Stück
VZ 955273	Printer Compartment for Communication Desk EUROSYSYSTEM MCD 2000	VT 995004	Transportkosten Einbaurahmen geteilt
VZ 955274	Side Shelf for Comm. Desk EUROSYSYSTEM MCD 2000	VT 998147	Transportkosten Einbaurahmen ungeteilt
VZ 910177	Industrial PC Compact with Windows 10 -NET PRICE	VT 995069	Transportkosten hydraulischer Gewichtssimulator
VZ 910052	PC Keyboard and Mouse -NET PRICE	VT 995711	Transportkosten Einbaurahmen für Rollensatzanhebung
VZ 910200	PC Flat screen 24 VGA/DVI/HDMI, (TFT standard) -NET PRICE-	VM 999005	Hydraulic Oil (HLPD 32) per Litre -NET PRICE
VZ 910192	LCD simultaneous display unit 40 incl. pedestal; HDMI -NET PRICE-	VM 996113	Assembly costs Brake Tester MBT 4250/-7250 LON MBT 5200/-6200
VZ 955244	Rotatable & Folding Wall Holder f. TFT Industrial- or TV Flat Screens (up to 42)	VM 995148	Routine Test/Calibration acc. to Verkehrsblatt 99/2022 Truck Brake Tester
VZ 910193	HDMI Cable 5 m -NET PRICE	VM 996088	Montagekosten Allradregelsatz bei Neuinstallation
VZ 910179	HDMI Cable 15 m -NET PRICE	VM 996090	Assembly Costs Radio Pressure Converters (max. 10 pcs.) per unit/recharging box
VZ 910180	HDMI Cable 30 m -NET PRICE	VM 995679	Assembly Costs per Display Unit
VZ 910181	HDMI Splitter, 4-port incl. 2 m cable -NET PRICE	VM 996136	Montagekosten Niederzieh- und Hebevorrichtung -nach Aufwand-
VZ 910091	A4 Ink jet colour printer (incl. printer cable) -NET PRICE-	VM 996185	Montagekosten Bodenanker für Rollensatzanhebung -nach Aufwand-
<b>SUPPLEMENTARY CHARGES</b>		VM 996114	Pre-assembly Brake Tester MBT 4000/5000/6000/7000 with 20m cable
VT 995707	Transportkosten Bremsprüfstand MBT 4000/5000/7000-Serie	VM 996115	Connection and Calibration MBT 4000/5000/6000/7000 with 20 m cable
VT 995655	Transportkosten PC-Recheneinheit in Verbindung mit Pult	VV 997584	Packing Charges Roller Set Lift