

BRAKE TESTING TECHNOLOGY MBT 4000 SERIES

MBT 4200 LON W COMPETENCE
VP 410154



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The test-lane-compatible roller brake tester MBT 4200 LON W COMPETENCE 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 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 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 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 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) 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 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 7016

Scope of delivery:

- Analogue display with four pointer indicators and an integrated switch cabinet
- MBT 4000 RS 2 roller set with preparation for weighing equipment
- Two VARIODATA digital displays
- RECO 1 remote control

TECHNICAL DATA

Axle load (can be driven over)	13000 kg
Drive power	2 x 9 kW

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TECHNICAL DATA

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 930027	Additional Charge for Reinforced Roller Set max. Axle Load 15 t
VZ 930047	Additional Charge for 2 Re-inforced 11kW drive motors Fused 63 Amp slow.
VZ 935010	Flush-Floor Roller Set (both Front & Rear Rollers raised 40 mm) for MBT 4000 RS.No.2
VZ 935142	Approach Ramp MBT 4000 RS No.2 (2 pcs.), made of Steel
VZ 935275	Vehicle Weight-Bearing Roller Cover Plates (4 pcs.), Galv. Steel, for MBT 4000 RS No. 2
VZ 935073	Angle Iron Frame for MBT 4000 RS.No.2 for Weighing Machine with pit
VZ 935157	Angle Iron Frame for MBT 4000 RS.No.2 for Weighing Machine with Pit, galvanized
VZ 935074	Angle Iron Frame for MBT 4000 RS.No.2 for Weighing Machine w/o Pit
VZ 935155	Angle Iron Frame for MBT 4000 RS.No.2 for Weighing Machine w/o Pit, galvanized
VZ 935180	Center Cover between Roller Sets, for MBT 4000
VZ 975547	Weighing device STATIC for MBT 4000/6000/7000
VZ 975548	Weighing device STATIC/ DYNAMIC for MBT 4000/6000/7000
VZ 935077	Two Testing Speeds
VZ 935006	Roller Heating
VZ 985061	Hydr. Load Simulator Single HD Cylinder Model: MLS 1100
VZ 985052	Hydr. Load Simulator Double HD Cylinder Model: MLS 2100
VZ 985018	Hydr. Load Simulator Double HD Cylinder Model: MLS 2150
VZ 985053	Hydr. Load Simulator Double HD Cylinder Model: MLS 2200
VZ 985054	Hydr. Load Simulator Double HD Cylinder Model: MLS 2300
VZ 935251	MLS Weight Simulator Operation via Radio Remote Control MRC 1100 (not for MLS 2300)
VZ 990201	Converter Board for Control of Hydraulic Load Simulator Roller Set Lifting
VZ 935194	Floor Rails 4 m (2 pcs) for Hydr. Load Simulator (VZ 985053 or VZ 985054)
VZ 935195	Floor Rails 4 m (2 pcs) for Hydr. Load Simulator (VZ 985053 or VZ 985054)
VZ 935198	Lashing Straps for Hydr. Load Simulator (2 pcs)
VZ 935199	Fastening Set for Hydr. Load Simulator
VZ 935200	Fastening Clamps (2 pcs.) for Hydr. Load Simulator
VZ 935264	Mechanical-Hydraulic Lifting of MBT 4000/7000 RS.No.2
VZ 935112	Adapter frame to convert MBT 7000 foundation frame to MBT 4000 roller set

VZ 935169	Mechanical-Hydraulic Roller Set Lift for MBT 4000/7000 RS.No.2/W
VZ 935170	Angle Iron Frame for Lifting of Roller Set,with working pit
VZ 935172	Angle Iron Frame for Lifting of Roller Set (for Balzer Pit)
VZ 935238	Roller Set Lift, Mech./Hydr. MBT 4000/7000 RS.No.2/W with Angle Iron Frame (1-Piece)
VP 935236	Floor Anchors -Above-Groundfor Raisable Roller Set
VP 935237	Floor Anchors -In-Groundfor Raisable Roller Set
VZ 935232	Adapter Set Continental CTC II / Workshop Tab -NET-
VZ 935276	Prefitting with holder set for Continental CTC II -NET PRICE-
VZ 935110	Plastic-Coated Roller Surface (Standard Production - Welded)

CONTROLLING SYSTEM AND SPECIAL VOLTAGE

VZ 935072	Driving and Testing direction manually switchable at console
VZ 935134	Driving in both directions
VZ 990181	4 wheel drive regulator set for Visco and Rigid 4 WD (MBT 4000/7000 Series)
VZ 935113	DC-Brake for MBT 4000/7000Roller Sets
VZ 990350	Special voltage 3 x 230 V 50Hz

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 950057	Simultaneous Display for MBT 4000/7000 LON-/EUROSYSTEM TYP: MSA T CLASSIC
VZ 950058	Simultaneous Display for MBT 4000/7000 LON-/EUROSYSTEM TYP: MSA T VARIODATA
VZ 950059	Simultaneous Display for MBT 4000/7000 LON-/EUROSYSTEM TYP: MSA T COMPETENCE
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 SimultaneousDisplay 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 910047	Infrared Remote Control IFB3
VZ 990050	Pedal force meter

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VP 990434 Pedalforce Meter MODEL: PFM 1000

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 980034 Pneumatic pressure converter integrated into roller set measurement range 0 - 20 bar

VZ 980035 Start set radio controlled pressure converter

VZ 910154 Radio remote control Model: FFB3 incl. reception module

VZ 910157 Radio remote control FFB3 (-EXTRA CHARGE to RECO 1-)

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 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-

VP 186050 Communication Desk EUROSYSYSTEM Car/Truck (w/o electronics) Model: MCD 2000

VZ 955273 Printer Compartment for Communication Desk EUROSYSYSTEM MCD 2000

VZ 955274 Side Shelf for Comm. Desk EUROSYSYSTEM MCD 2000

VZ 955277 External PC Storage Shelf for Communication Desk EUROSYSYSTEM MCD 2000

VZ 910177 Industrial PC Compact with Windows 10 -NET PRICE

VZ 955275 Holder for Compact/Performance PC, suitable for placement inside MCD 2000 desk

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-

VZ 955295 Radio Touchscreen MODEL: FTS 2018 -NET-

VZ 955296 Docking station as charger incl. power supply unit FTS 2018 / C_Tablet-PC -NET-

VZ 955237 AP Transmitter/Receiver Unit (Indoor Access Point)

SUPPLEMENTARY CHARGES

VT 995707 Transportkosten Bremsprüfstand MBT 4000/5000/7000-Serie

VT 995655 Transportkosten PC-Recheneinheit in Verbindung mit Pult

VT 995068 Transportkosten Schaltschrank, Simultananzeige, PC-Pult pro Stück

VT 995004 Transportkosten Einbaurahmen geteilt

VT 998147 Transportkosten Einbaurahmen ungeteilt

VT 995069 Transportkosten hydraulischer Gewichtssimulator

VT 995711 Transportkosten Einbaurahmen für Rollensatzanhebung

VM 999005 Hydraulic Oil (HLPD 32) per Litre -NET PRICE

VM 996113 Assembly costs Brake Tester MBT 4250/-7250 LON MBT 5200/-6200

VM 995148 Routine Test/Calibration acc. to Verkehrsblatt 24/2020 Truck Brake Tester

VM 996088 Montagekosten Allradregelsatz bei Neuinstallation

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

VM 996177 Montagekosten Funk-Touchscreen FTS -bei Neuinstallation

VM 995679 Assembly Costs per Display Unit

VM 996136 Montagekosten Niederzieh- und Hebevorrichtung -nach Aufwand-

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