

BRAKE TESTING TECHNOLOGY MBT 7000 SERIES

MBT 7200 LON W COMPETENCE
VP 410160



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The test-lane-compatible roller brake tester MBT 7200 LON W COMPETENCE 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 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 slipcut-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 149/2021 of the Verkehrsblatt [German Transport Gazette]
 - Star-delta circuit to avoid high inrush currents
 - RS 2 rollerset 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 930066	Roller set up to 18t axle load Motor-side mounted on roller MBT 7000 RS 1 Extra charge	VZ 985018	Hydr. Load Simulator Double HD Cylinder Model: MLS 2150
VZ 935201	Re-inforced roller set 20 t Drive motors 2 x 11 kW Display range 0 - 40 kN	VZ 985053	Hydr. Load Simulator Double HD Cylinder Model: MLS 2200
VZ 930028	Re-inforced roller set 20 t Drive Motors 2 x 16 kW Display range 0 - 60 kN	VZ 985054	Hydr. Load Simulator Double HD Cylinder Model: MLS 2300
VZ 930017	Extended Rollers f. Low-Bed Trailers, each Side 1.6 m long (Separate Install. Drawing!)	VZ 935251	MLS Weight Simulator Operation via Radio Remote Control MRC 1100 (not for MLS 2300)
VZ 955016	Flush-Floor Roller Set (both front (>>) rear rollers raised 50 mm) for MBT 7000 RS.No. 2/3	VZ 935194	Floor Rails 4 m (2 pcs) for Hydr. Load Simulator (VZ 985053 or VZ 985054)
VZ 935143	Elevat. of Rollers (>>) Sensor Rollers MBT 7000, recommended f. Tyre Diam. from 1500 mm on	VZ 935195	Floor Rails 4 m (2 pcs) for Hydr. Load Simulator (VZ 985053 or VZ 985054)
VZ 935141	Vehicle Weight-Bearing Roller Cover Plates (4 pcs.), Galva nized Steel,	VZ 935198	Lashing Straps for Hydr. Load Simulator (2 pcs)
VZ 935246	Angle Iron Frame MBT 7000 RS1, C_MBT S 18.0 R115 MS with Pit	VZ 935199	Fastening Set for Hydr. Load Simulator
VZ 935263	Angle Iron Frame MBT 7000 RS1, C_MBT S 18.0 R115 MS, -NET	VZ 935200	Fastening Clamps (2 pcs.) for Hydr. Load Simulator
VZ 935015	Angle Iron Frame MBT 7000 RS2, C_MBT S 18.0/20.0 R115 MU with Pit	VZ 935264	Mechanical-Hydraulic Lifting of MBT 4000/7000 RS.No.2
VZ 935151	Angle Iron Frame MBT 7000 RS2, C_MBT S 18.0/20.0 R115 MU with Pit, galvanized	VZ 935169	Mechanical-Hydraulic Roller Set Lift, 10t for MBT 4000/7000 RS.No.2/W
VZ 935016	Angle Iron Frame MBT 7000 RS2, C_MBT S 18.0/20.0 R115 MU w/o Pit	VZ 935170	Angle Iron Frame for Lifting of Roller Set,with working pit
VZ 935146	Angle Iron Frame MBT 7000 RS2, C_MBT S 18.0/20.0 R115 MU w/o Pit, galvanized	VZ 935256	Angle Iron Frame for Lifting of Roller Set, w. Working Pit Flatbed Truck Version
VZ 935083	Low-Loader Angle Iron Frame RS2/R160, w/o Pit -UPON REQUEST	VZ 935172	Angle Iron Frame for Lifting of Roller Set (for Balzer Pit)
VZ 935150	Low-Loader Angle Iron Frame RS2/R160, w/o Pit galvanized -UPON REQUEST-	VZ 935238	Roller Set Lift, Mech./Hydr. MBT 4000/7000 RS.No.2/W with Angle Iron Frame (1-Piece)
VZ 935115	Low-Loader Angle Iron Frame RS2/R160, with Pit -UPON REQUEST-	VP 935236	Floor Anchors -Above-Groundfor Raisable Roller Set
VZ 935153	Low-Loader Angle Iron Frame RS2/R160 with Pit galvanized -UPON REQUEST-	VP 935237	Floor Anchors -In-Groundfor Raisable Roller Set
VZ 935011	Center Cover between Roller Sets, for MBT 7000	VZ 990201	Converter Board for Control of Hydraulic Load Simulator Roller Set Lifting
VZ 930092	Set of Ramps MBT 7000 RS1, C_MBT S 18.0 R115 MS	VZ 975740	Cover plate for hydraulic power unit Roller set lift
VZ 930093	Drive-over ramps MBT 7000 RS1 C_MBT S 18.0 R115 MS, (2 pcs.)	VZ 935232	Adapter Set Continental Workshop Tab II / CTC II -NET-
VZ 975547	Weighing device STATIC for MBT 4000/6000/7000	VZ 935276	Prefitting Continental Workshop Tab II / CTC II -NET PRICE-
VZ 975548	Weighing device STATIC/ DYNAMIC for MBT 4000/6000/7000	VZ 935110	Plastic-Coated Roller Surface (Standard Production - Welded)
VZ 935077	Two Testing Speeds	VZ 935072	Driving and Testing direction manually switchable at console
VZ 935006	Roller Heating	VZ 935134	Driving in both directions
VZ 985061	Hydr. Load Simulator Single HD Cylinder Model: MLS 1100	VZ 990181	4 wheel drive regulator set for Visco and Rigid 4 WD (MBT 4000/7000 Series)
VZ 985052	Hydr. Load Simulator Double HD Cylinder Model: MLS 2100	VZ 935113	DC-Brake for MBT 4000/7000Roller Sets
		VZ 990350	Special voltage 3 x 230 V 50Hz
		VZ 955257	Foot for display cabinet for free-standing installation

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VZ 955256	Wall holder for Multi-analog display 2 or 4, 180° swivable	VZ 910200	PC Flat screen 24 VGA/DVI/HDMI, (TFT standard) -NET PRICE-
VZ 950057	Simultaneous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T CLASSIC	VZ 910192	LED simultaneous display unit 43 incl. pedestal, HDMI -NET PRICE-
VZ 950058	Simultaneous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T VARIODATA	VZ 955244	Rotatable (>&)> Folding Wall Holder f. TFT Industrial- or TV Flat Screens (up to 47)
VZ 950059	Simultaneous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T COMPETENCE	VZ 910193	HDMI Cable 5 m -NET PRICE-
VZ 955252	Differential display for Simultaneous Display MSA	VZ 910179	HDMI Cable 15 m -NET PRICE-
VZ 955253	Display module VARIODATA	VZ 910180	HDMI Cable 30 m -NET PRICE-
VZ 955254	LED-running letters (16 digits) with convenient operator guidance	VZ 910181	HDMI Splitter, 4-port incl. 2 m cable -NET PRICE
VZ 955269	Installation Kit to attach Simultaneous Display MSA to Wall (approx. 90° swivable)	VZ 910091	A4 Ink jet colour printer (incl. printer cable) -NET PRICE-
VZ 955255	Wall holder for Simultaneous Display MSA (approx. 180° swivable)	VZ 955299	Tablet PC Rugged (industrial standard) MODEL: C_Tablet-PC -NET PRICE-
VZ 955270	Foot for Simultaneous Display MSA, (approx. 180° swivable) for free-standing installation	VZ 955318	Docking station as charger incl. power supply unit for C_Tablet-PC -NET-
VZ 955271	Support for Simultaneous Display MSA CLASSIC, for Inst. to Communication Desk MCD	VZ 955237	AP Transmitter/Receiver Unit (Indoor Access Point)
VZ 950064	Display and Control Cabinet Installed Separately	SUPPLEMENTARY CHARGES	
VZ 910047	Infrared Remote Control IFB3	VT 998283	Transport Werkverkehr -SÜDMBT, MSD -geteilt/ Split-
VZ 990050	Pedal force meter	VT 998284	Transport Werkverkehr -NORDMBT, MSD -geteilt/ Split-
VP 990434	Pedalforce Meter MODEL: PFM 1000	VT 998253	Transport Werkverkehr -SÜDSimultananzeige, MCD Schaltschrank (pro Stück)
VZ 955088	Key Switch for Emergency Stop	VT 998254	Transport Werkverkehr -NORDSimultananzeige, MCD Schaltschrank (pro Stück)
VZ 955045	Emergency Switch	VT 998257	Transport Werkverkehr -SÜDEinbaurahmen Bremsprüfstand geteilt
VZ 955014	Working hour meter	VT 998258	Transport Werkverkehr -NORDEinbaurahmen Bremsprüfstand geteilt
VZ 955080	Thermostat-Controlled Heater for Electro-Cabinet	VT 998259	Transport Werkverkehr -SÜDEinbaurahmen Bremsprüfstand ungeteilt
VZ 980034	Pneumatic pressure converter integrated into roller set measurement range 0 - 20 bar	VT 998260	Transport Werkverkehr -NORDEinbaurahmen Bremsprüfstand ungeteilt
VZ 980035	Start set radio controlled pressure converter	VT 998255	Transport Werkverkehr -SÜDNiederziehvorrichtung
VZ 910154	Radio remote control Model: FFB3 incl. reception module	VT 998256	Transport Werkverkehr -NORDNiederziehvorrichtung
VZ 910157	Radio remote control FFB3 (-EXTRA CHARGE to RECO 1-)	VT 998261	Transport Werkverkehr -SÜDRollensatzanhebung LKW
VZ 910156	Radio remote control/Radio Hand-held terminal FFB3-FHT (-EXTRA CHARGE to FFB3-)	VT 998262	Transport Werkverkehr -NORDRollensatzanhebung LKW
VZ 980050	Pneum. Radio-Controlled Pressure Converters, Meas. Range 0 - 20 bar, MODEL: C_RCD 50	VM 999005	Hydraulic Oil (HLPD 32) per Litre -NET PRICE
VZ 985064	Hydr. radio pressure converter, range: 0 - 160 bar MODEL: C_RAH 10-2 - 160 bar	VM 996113	Assembly costs Brake Tester MBT 4250/-7250 LON MBT 5200/-6200
VZ 955071	Flashing Light with Periodical Signal Horn for Radio Controlled Pressure Converters	VM 995148	Routine Test/Calibration acc. to Vkl. 149/2021 Truck Brake Tester
VZ 990090	Warning Lamp f. Radio-Control. Pressure Converters when being removed from Re-Charging Box	VM 996088	Montagekosten Allradregelsatz bei Neuinstallation
VZ 911264	Software LON Basic for external PC	VM 996090	Assembly Costs Radio Pressure Converters per unit/recharging box
VZ 911265	Software module LON Basic Plus with SP-Program Basic of Software BASIC-LON	VM 996177	Montagekosten C_Tablet-PC -bei Neuinstallation
VZ 911273	Software module LON Basic HR with projection program	VM 995679	Assembly Costs per Display Unit (LON/EUROSYSTEM)
VZ 910140	USB/RS 232 Converter for Connection to PC/ Laptop w/o. RS 232 Interface -NET-	VM 996136	Montagekosten Rollensatzanhebung/ Niederziehvorrichtung (zus. Berechnung Aufwand >10h)
VP 186050	Communication Desk EUROSYSTEM Car/Truck (w/o electronics) Model: MCD 2000	VM 996185	Montagekosten Bodenanker für Rollensatzanhebung (zus. Berechnung Aufwand >6h)
VZ 955273	Printer Compartment for Communication Desk EUROSYSTEM MCD 2000	VM 996114	Pre-assembly Brake Tester MBT 4000/5000/6000/7000 with 20m cable
VZ 955274	Side Shelf for Comm. Desk EUROSYSTEM MCD 2000	VM 996115	Connection and Calibration MBT 4000/5000/6000/7000 with 20 m cable
VZ 955277	External PC Storage Shelf for Communication Desk EUROSYSTEM MCD 2000	VV 997584	Packing Charges Roller Set Lift
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		