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 alphanumerical display
- Program control using 32-bit microprocessor electronics

enables thefinest 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
  - Static exit aid for safe and convenient exit, even when the test stand is switched off
  - 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 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

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TECHNICAL DATA

Axle load (can be driven over)	13000 kg
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 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 935157	Angle Iron Frame MBT 4000 RS2, C_MBT S 13.0/15.0 R100 MU with Pit, galvanized
VZ 935155	Angle Iron Frame MBT 4000 RS2, C_MBT S 13.0/15.0 R100 MU 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 935389	Mechanical-Hydraulic Roller Set, Lift 13t for MBT 4000/7000 RS.No.2/W
VZ 935390	Angle Iron Frame for Lifting of Roller Set,with working pit
VZ 935391	Angle Iron Frame for Lifting of Roller Set,with working pit galvanized
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 975740	Cover plate for hyydraulic power unit Roller set lift
VZ 935232	Adapter Set Continental Workshop Tab II / CTC II -NET-
VZ 935276	Prefitting Continental Workshop Tab II / CTC II -NET PRICE-
VZ 935110	Plastic-Coated Roller Surface (Standard Production - Welded)
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 990350	Special voltage 3 x 230 V 50Hz
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	Simultanous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T CLASSIC
VZ 950058	Simultanous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T VARIODATA
VZ 950059	Simultanous Display for MBT 4000/7000 LON/-EUROSYSTEM TYP: MSA T COMPETENCE
VZ 955252	Differential display for Simultanous Display MSA
VZ 955253	Display module VARIODATA
VZ 955254	LED-running letters (16 digits) with convenient operator guidance
VZ 955269	Installation Kit to attach Simultanous Display MSA to Wall (approx. 90° swivalable)
VZ 955255	Wall holder for SimultanousDisplay MSA (approx. 180° swivalable)
VZ 955270	Foot for Simultanous Display MSA, (approx. 180° swivalable) 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
VZ 910047	Infrared Remote Control IFB3
VZ 990050	Pedal force meter
VP 990434	Pedalforce Meter MODEL: PFM 1000
VZ 955088	Key Switch for Emergency Stop

VZ 955045	Emergency Switch
VZ 955014	Working hour meter
VZ 955080	Thermostat-Controlled Heater for Electro-Cabinet
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 980050	Pneum. Radio-Controlled Pressure Converters, Meas. Range 0 - 20 bar, MODEL: C_RCD 50
VZ 985064	Hydr. radio pressure converter, range: 0 - 160 bar MODEL: C_RAH 10-2 - 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
VZ 911264	Software LON Basic for external PC
VZ 911265	Software module LON Basic Plus with SP-Program Basic of 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 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 955277	External PC Storage Shelf for Communication Desk EUROSYSTEM MCD 2000
VZ 910208	Industrial PC Compact with Windows 11 -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	LED simultaneous display unit 43 incl. pedestal, HDMI -NET PRICE-
VZ 955244	Rotatable & Folding Wall Holder f. TFT Industrial- or TV Flat Screens (up to 47)
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 955299	Tablet PC Rugged (industrial standard) MODEL: C_Tablet-PC -NET PRICE-
VZ 955318	Docking station as charger incl. power supply unit for C_Tablet-PC -NET-
VZ 955237	AP Transmitter/Receiver Unit (Indoor Access Point)

SUPPLEMENTARY CHARGES

VT 998283	Internal transport -SOUTHMBT, MSD -Two-piece/ Split-
VT 998284	Internal transport -NORTHMBT, MSD -Two-piece/ Split-
VT 998253	Internal transport -SOUTHSimultaneous display, MCD Control cabinet (per pce)
VT 998254	Internal transport -NORTHSimultaneous display, MCD Control cabinet (per pce)
VT 998257	Internal transport -SOUTHInstallation frame Brake tester Split
VT 998258	Internal transport -NORTHInstallation frame Brake tester Split
VT 998259	Internal transport -SOUTHInstallation frame Brake tester Compact
VT 998260	Internal transport -NORTHInstallation frame Brake tester Compact
VT 998255	Internal transport -SOUTHPull-down device
VT 998256	Internal transport -NORTHPull-down device
VT 998261	Internal transport -SOUTHRoller set lift Truck
VT 998262	Internal transport -NORTHRoller set lift Truck
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 VkBl. 149/2021 Truck Brake Tester
VM 996088	Installation costs for 4WD-drive control kit for new installations
VM 996090	Assembly Costs Radio Pressure Converters per unit/recharging box
VM 996177	Installation costs C_Tablet-PC -for new installation
VM 995679	Assembly Costs per Display Unit (LON/ EUROSYSTEM)
VM 996136	Installation costs Roller set lift/Pull-down device (extra charge for work effort >10h)
VM 996185	Install. costs Floor anchors for roller set lift (extra charge for work effort >6h)
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