



# **MBT-SERIES**

ROLLER BRAKE TESTERS  
FOR CARS AND VANS

made by MAHA  
 made  
in  
Germany



# MBT 2250 EUROSISTEM

## Description

The roller brake tester MBT 2250, with its Windows-based EUROSISTEM test lane software and SQL database, provides the user with all the options. Whether “only” applied as a brake tester, used as a diagnostics reception device or as a control unit for workshop processes: The MBT 2250 EUROSISTEM is an all-rounder. In combination with other testers, it provides a complete, objective vehicle assessment within in seconds. Recommended by vehicle manufacturers and tested in endurance tests by international inspection organisations, the brake tester is highly ergonomic and cost-effective. The MBT 2250 EUROSISTEM is the ideal diagnostics brake tester and can also be upgraded with a four-wheel drive regulator set. The brake tester is particularly suitable for reception and diagnostics lanes with high vehicle through-put; it exceeds the requirements for the main inspection (HU) and is network-compatible.

## Scope of delivery

- Communication Desk or Switching cabinet for test stand control
  - Communication Desk MCD 2000 with integrated Switching and electro-cabinet
  - Lockable drawer for keyboard and mouse including storage shelf
- Single wheel switchover, delayed automatic startup
- Automatic shut-off after exiting the test stand
- Automatic cut-off at selected slip with measured value display and automatic restart
- Electronic DMS strain gauge measuring system
- Self-supporting, enclosed roller set
- Roller surface optionally welded or plastic-coated
- Corrosion protection: powder coating
- TÜV approved

## Software



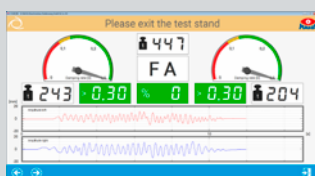
**Customer data screen**  
For recording owner and vehicle data.



**Brake test**  
Digital and graphical display of brake values.



**"Brake Test" graphic**  
Clear display of brake values using graphical or digital analyses



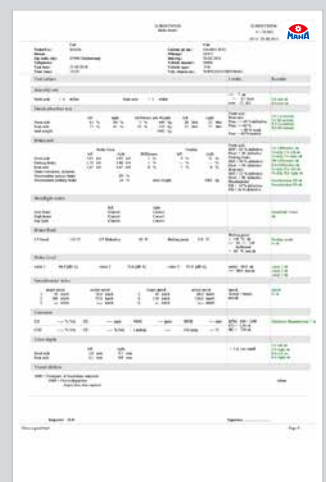
**Shock absorber test**  
Graphical and digital display of the measurement values.



**Side slip test**  
Clear display of the directional stability of the vehicle axles.



**Light test**  
Digital determination of the headlight setting by means of a CMOS camera.



Printout via "EUROSISTEM" test lanes software.



## TECHNICAL DATA

COMMUNICATION DESK MCD			
Display unit	PC monitor, optional via TV screen, simultaneous display, radio touchscreen		
Control	Fully automatic via MCD 2000 communication console		
Power supply	3 x 400 V / N / PE 50/60 Hz		
Dimensions (W x H x D)	860 x 1230 x 350 mm		
Dimensions incl. printer shelf* (W x H x D)	860 x 1500 x 420 mm		
ROLLER SET	RS 2	RS 4	RS 5
Drive power of motors	2 x 3 kW / 2 x 4 kW*	2 x 3 kW	2 x 4 kW
Test speed	5 km/h	5 km/h	5 km/h
Measured value display	0 – 8 kN	0 – 6 kN / 0 – 8 kN*	0 – 8 kN
Permitted axle load (drive-over)	3.5 t / 4.0 t*	3.5 t / 4.0 t*	5.0 t
Track, minimum	780 mm	780 mm	780 mm
Track, maximum	2200 mm	2500 mm	2800 mm
Roller diameter	202 mm	202 mm	202 mm
Roller axle distance	400 mm	400 mm	400 mm
Electrical connection / fuse protection	3 x 400 V, N, PE 50/60 Hz / 25 A time-delay	3 x 400 V, N, PE 50/60 Hz / 25 A time-delay	3 x 400 V, N, PE 50/60 Hz / 25 A time-delay
Bearing	water-tight, maintenance free	water-tight, maintenance free	water-tight, maintenance free
Corrosion protection	powder coating (opt. hot-dip galvanised)	powder coating (opt. hot-dip galvanised)	powder coating (opt. hot-dip galvanised)
Roller set dimensions (H x W x L)	280 x 680 x 2320 mm	280 x 680 x 2644 mm	280 x 680 x 2925 mm
Weight, including packaging	375 kg	410 kg	450 kg

\* optional

# MBT 2250 EUROSYSYSTEM

mit optionalem Allradregelsatz

## Description

The MBT 2250 EUROSYSYSTEM with optional 4WD regulation set brake tester with analogue display provides you with high-precision 4WD testing technology in a compact design. With the patented measuring methods, you have the security of being able to correctly test 4WD vehicles without damage. MAHA brake tester have been setting the standard for more than 30 years for testing 4WD vehicles and are keeping pace with modern vehicle technology. The modern, electronic control system also enables the checking of ASR (Anti Slip Regulator) and electronic parking brakes in the course of the brake testing. It is particularly suitable for reception and diagnostics lanes with a high proportion of 4WD; exceeds the requirements for the main inspection, has a PC interface and is thus network-compatible.

## Scope of delivery

- Communication Desk or Switching cabinet for test stand control
  - Communication Desk MCD 2000 with integrated Switching and electro-cabinet
  - Lockable drawer for keyboard and mouse including storage shelf
- Remote control IFB3
- Pedal force meter
- Lockable main switch
- Electronic start-up monitoring including automatic roller blocking
- Single wheel switchover, delayed automatic startup
- Automatic shut-off after exiting the test stand
- Automatic cut-off at selected slip with measured value display and automatic restart
- Electronic DMS strain gauge measuring system
- Four-wheel drive regulation set with electronically controlled roller set
- Self-supporting, enclosed roller set
- Roller surface optionally welded or plastic-coated
- Corrosion protection: powder coating
- TÜV approved

German Patent No. 3603508  
European Patent No. 3641339

## Software

### ALL-WHEEL AUTOMATIC "Drive Control Pro"

The automatic all-wheel detection from MAHA, supports the inspector in safe and accurate brake testing. Step by step starting for a reliable test result.



1. The brake tester detects a high starting resistance and notifies the inspector about any possible remedies.
2. The brake tester starts for a second time and checks the starting resistance. If the all-wheel drive has been deactivated, a brake test can possibly be performed in standard mode.
3. The brake tester starts in a regulated counter run mode. First, test the left side.
4. Brake test, left side. The braking force is only displayed for the wheel that is rotating in a forward direction.
5. Brake test, right side.
6. After the brake test is completed, the related measurement values of an axle are displayed clearly and automatically stored.



**livestream**

## TECHNICAL DATA

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Dimensions (W x H x D)	860 x 1230 x 350 mm		
Dimensions incl. printer shelf* (W x H x D)	860 x 1500 x 420 mm		
ROLLER SET	RS 2	RS 4	RS 5
Drive power of motors	2 x 3 kW / 2 x 4 kW*	2 x 3 kW	2 x 4 kW
Test speed	5 km/h	5 km/h	5 km/h
Measured value display	0 – 8 kN	0 – 6 kN / 0 – 8 kN*	0 – 8 kN
Permitted axle load (drive-over)	3.5 t / 4.0 t*	3.5 t / 4.0 t*	5.0 t
Track, minimum	780 mm	780 mm	780 mm
Track, maximum	2200 mm	2500 mm	2800 mm
Roller diameter	202 mm	202 mm	202 mm
Roller axle distance	400 mm	400 mm	400 mm
Electrical connection / fuse protection	3 x 400 V, N, PE 50/60 Hz / 25 A time-delay	3 x 400 V, N, PE 50/60 Hz / 25 A time-delay	3 x 400 V, N, PE 50/60 Hz / 25 A time-delay
Bearing	water-tight, maintenance free	water-tight, maintenance free	water-tight, maintenance free
Corrosion protection	powder coating (opt. hot-dip galvanised)	powder coating (opt. hot-dip galvanised)	powder coating (opt. hot-dip galvanised)
Roller set dimensions (H x W x L)	280 x 680 x 2320 mm	280 x 680 x 2644 mm	280 x 680 x 2925 mm
Weight, including packaging	375 kg	410 kg	450 kg

\* optional

# ACCESSORIES-MATRIX

(excerpt)


DESCRIPTION	ITEM NO.	EUROSYSTEM (4WD)	
		MBT 2250	MBT 2250
Add-on Kit "Brake Tester Directive", Model: Directive 2011	VZ 955278	0	0
Roller surface plastic/granulate coated RS2	VZ 935316	0	0
Roller surface Mixed RS2	VZ 935319	0	0
Roller Set RS4 up to 3.5 t Axle Load	VZ 930103	0	0
Reinforced roller set for axle load 4t, drive power 2 x 4 kW	VZ 930067	0	0
Roller Set RS5 up to 5 t Axle Load	VZ 930068	0	0
Roller set cover for RS2, 4 t traversable	VZ 935313	0	0
Roller Heating	VZ 935068	0	0
Divided Roller Set for Installation in Pit	VZ 930040	0	0
Automatic drive-over/lowering bar for RS2	VZ 930124	0	0
Mechanical roller set raiser for RS5	VZ 935323	0	0
Set of drive-on ramps for above-floor operation	VZ 975895	0	0
Set of drive-over ramps straight/modular	VZ 975896	0	0
Roller Set Covers for Motorcycle Brake Testing with Wheel guard and Switch	VZ 975073	0	0
Cable Remote Control for Motorcycle Testing, w. Tripod	VZ 910174	0	0
Aluminium Footrests for Motorcycle Testing on Car Rollers	VZ 935233	0	0
STAT./DYNAMIC Load Scales for Roller Sets (undivided)	VZ 975557	0	0
STAT./DYNAMIC Load Scales for Roller Sets (divided)	VZ 975559	0	0
Driving and Testing Directions manually selectable, both sides or one side	VZ 935132	0	-
Rot./Meas. Direction switchable via Software Module „Drive Control“	VZ 935228	0	-
Rot./Test Direction Switchable via „Drive Control Pro“	VZ 911294	0	-
Soft-Start Module, for gentle starting of drive motors	VZ 911295	0	0
4 wheel drive regulator set for Visco and Rigid 4WD with pedal force sensor and remote control IFB3	VZ 990355	0	X
Electromechanical motor brake as exit aid	VZ 935322	0	-
Special voltage 3 x 230 V, 50/60 Hz	VZ 990352	0	0
Infrared Remote Control IFB3	VZ 910047	0	X
Pedalforce Meter	VZ 990050	0	X
Pedalforce Meter, MODEL: PFM 1000	VP 990434	0	0
Communication Desk EUROSISTEM Car/Truck (w/o electronics), MODEL: MCD 2000	VP 186050	X	X
Printer Compartment for Communication Desk EUROSISTEM MCD 2000	VZ 955273	0	0
Side Shelf for Communication Desk EUROSISTEM MCD 2000	VZ 955274	0	0
External PC Storage Shelf for Communication Desk EUROSISTEM	VZ 955277	0	0
Industrial PC "Compact" with Windows 10	VZ 910177	0	0
Radio Touchscreen, MODEL: FTS 2018	VZ 955295	0	0
Autom. license pl. recognition incl. full-HD outdoor network IP camera with wall mount	VZ 955287	0	0
Distance sensor triggering the automatic license plate recognition	VZ 955291	0	0
Working hour meter	VZ 955014	0	0

\* Not in combination with lifting threshold  
For more accessories, please see our current price list!

X standard equipment  
0 optionally available  
- not available

# ACCESSORIES

(excerpt)

			
Roller surface plastic/granulate coated RS2 (VZ 935316)	Roller Set RS5 up to 5 t Axle Load (VZ 930068)	Roller Heating (VZ 935068)	Mechanical roller set raiser for RS5 (VZ 935323)
			
Set of drive-on ramps for above-floor operation (VZ 975895)	Roller Set Covers for Motorcycle Brake Testing (VZ 975073)	STAT./DYNAMIC Load Scales (VZ 975557)	Driving and Testing Directions manually selectable (VZ 935132)
			
Infrared Remote Control IFB3 (VZ 910047)	Pedalforce Meter (only in conjunction with IFB3) (VZ 990050)	Pedalforce Meter PFM 1000 (VP 990434)	Communication Desk MCD 2000 (VP 186050)
			
Printer Compartment for Communication Desk MCD 2000 (VZ 955273)	Side Shelf for Communication Desk MCD 2000 (VZ 955274)	Industrial PC "Compact" with Windows 10 (VZ 910177)	Radio Touchscreen FTS 2018 (VZ 955295)
			
Autom. license pl. recognition, network IP camera (VZ 955287)	Distance sensor triggering the automatic license plate recognition (VZ 955291)	Working hour meter (VZ 955014)	Automatic drive-over/lowering bar for RS2 (VZ 930124)

# MAHA TESTING CONCEPTS FOR THE WORKSHOP

