

Roller Brake Testers for Cars, Vans and Commercial Vehicles

The MAHA modular system – the individual tester from the series
From brake tester to test lane



Testing & Safety Technology


MADE IN GERMANY
 ISO 9001
 ISO 14001
 ISO 50001
 ISO/IEC 17025
SINCE 1969

- ▶ Fully automatic testing with user guidance
- ▶ Digital data acquisition and storage
- ▶ From Classic to 4WD: modular design
- ▶ Patented, correct 4WD testing
- ▶ Robust, service-friendly technology
- ▶ Network ready –



ASA network, GIEGNET, MCTC ...

**Premium Workshop
Equipment**

The MAHA modular system – the individual tester from the series

From brake tester to test lane

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MBT series displays and controls – individual solutions for the most demanding requirements



"MCD 2000" communication desk

Display and PC control unit with comfortable guided function and extensive databases for professional use.

"CLASSIC" and "COMPETENCE" multiple analog displays

Clear display of measured values on pointer instruments that are easy to read. The (2-way) "CLASSIC display" and the (4-way) "COMPETENCE display" with VARIODATA digital displays can also be equipped to display additional measured values such as axle load, brake pressure, deceleration, braking force and pedal force, as well as to include user guidance.

- ❶ Lockable drawer for keyboard and PC mouse
- ❷ Integrated switch cabinet for tester control
- ❸ Option: Side shelf for additional equipment

- ❹ Digital/optical differential display
- ❺ VARIODATA extension module 1 - 4
- ❻ Option: Ticker text

MBT series roller brake testers – the right tester for all requirements

MBT 3000 Series

Thanks to an authorized traversable axle load of 8 t, the MBT 3000 series roller brake testers are especially suitable for testing light trucks, vans and motorized caravans. The compact design of the roller sets ensures easy installation with no need for extensive preparations or an installation pit. The display design can be either analog or a digital version with a PC. Even the basic version provides the ability to expand to a complete test lane with shock absorber tester and side slip tester.

MBT 4000 Series

MBT 4000 series testers stand out thanks to their high flexibility in terms of potential applications. The roller set dimensions offer the best testing capabilities for standard cars and trucks. The separated roller set design is particularly suitable for assembly using an installation pit. The display design can be either analog or a digital version with a PC and can be extended to include a test lane.

MBT 5000 Series

Testers for "mobile roadside inspection" in particular have been developed in the MBT 5000 series. The low minimum height means that these testers are mobile and flexible, and can be used without installation pit preparations. The specially developed "low speed" version enables truck brake testing using low power. The display design can be either analog or a digital version with a PC.

MBT 6000 Series

Appropriate test equipment is required for testing the brakes of vehicles with large wheel dimensions and variable track widths. The MBT 6000 testers have been specially developed to meet these requirements and are characterized by their unique dimensions. They can be used for agricultural vehicles or special vehicles of any kind. MBT 6000 series testers offer (almost) limitless options. The display design can be either analog or a digital version with a PC.

MBT 7000 Series

Recommended by vehicle manufacturers and used by international testing organizations in continuous operation. MBT 7000 (formerly IW7) series testers are the world's most commonly used brake testers and are used for truck diagnostics in particular. The optimized roller set dimensions make these benches versatile for both truck and car testing. These test benches can be upgraded with many accessories and offer a wide range of diagnostics options, even when vehicle throughput is high. The display design can be either analog or a digital version with a PC and can be extended to include a test lane.

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Example illustration: MBT 3200 LON



Multiple analog display
Clear display on pointer instruments that are easy to read.

Description

- ▶ Automatic start-up monitoring
- ▶ Delayed automatic switch-on after entering the tester
- ▶ Automatic cutoff at selected slip with pointer stop and automatic restart
- ▶ Automatic switch-off after exiting the tester
- ▶ Single wheel switchover
- ▶ Electronic DMS measuring system
- ▶ Self-supporting, enclosed roller set
- ▶ Welded roller surface (plastic coated on request)
- ▶ Star-delta switching
- ▶ Lockable main switch
- ▶ TUV and GS approved
- ▶ Powder coating paint, blue RAL 5010
- ▶ **With 3200 LON and 3400 LON 4WD versions:**
Multiple analog display with two analog index clocks (diameter 2 x 350 mm) and integrated switching and electrical cabinet. Display option for brake tester, side slip tester and shock absorber tester. Differential (LED bar) display for assessing braking force imbalance, shock absorber imbalance and side slip deviation.
- ▶ **With 3250 EUROSYSYSTEM and 3450 EUROSYSYSTEM 4WD versions:**
Communication desk or switch cabinet for tester control, lockable drawer for keyboard and computer mouse, storage compartment for writing accessories, etc. The monitor support is set up pursuant to the VESA standard. Measured value, differential display and graphics on a PC monitor (optional).

Design versions and delivery scope	MBT 3200 LON	MBT 3250 EUROSISTEM	MBT 3250 EUROSISTEM	MBT 3250 EUROSISTEM	MBT 3400 LON 4WD	MBT 3450 EUROSISTEM 4WD	MBT 3450 EUROSISTEM 4WD	MBT 3450 EUROSISTEM 4WD
Part no.:	VP 410127	VP 410124	VP 410125	VP 410126	VP 410123	VP 410120	VP 410121	VP 410122
Multiple analog display	X	O	O	O	X	O	O	O
MCD 2000 communication desk	O	X	X	O	O	X	X	O
Switch cabinet MCD 1000	O	-	-	X	O	-	-	X
"All-in-one PC" Equipment	O	X	O	O	O	X	O	O
Test software LON Basic	O	-	-	-	O	-	-	-
Test software EUROSISTEM	-	X	X	X	-	X	X	X
4WD regulation set	O	O	O	O	X	X	X	X

The current price list gives details of other accessories.

X: These are included in the delivery scope
O: Optionally available
-: Not available



◀ **MCD 2000 communication desk**
Display and PC control unit with comfortable guided function and extensive databases for professional use.

MBT 3000 series roller set with ▶
preparation for weighing device
- Axle load 8 t
- Motor rating 5.5 kW



Technical data		
Display/control	LON/LON 4WD	EUROSISTEM/EUROSISTEM 4WD
Display unit	Multiple analog display Ø 2 x 350 mm	PC monitor and/or radio touch screen FTS 2010
Control	Integrated control circuit board	Fully automatic thanks to the MCD communication desk
Display area	0 – 16 kN / 0.02 – 0.3 D, 0 – 100% / -20 m/km – +20 m/km	
Display unit dimensions (H x D x W)	910 x 300 x 870 mm	1230 x 350 x 860 mm (without printer compartment)
Weight	approximately 60 – 100 kg	approximately 100 – 120 kg
Interface connector	RS 232 for printer or PC	Ethernet network
Roller set		
	Series MBT 3000	
Authorized axle load (minimum height)	8.0 t	
Drive power of motors	2 x 5.5 kW	
Test speed	5 km/h	
Minimal/maximal scan	870/2800 mm	
Roller diameter	202 mm	
Roller center distance	400 mm	
Electrical connection value	3 x 400V/N/PE 50/60 Hz	
Fuse protection	35 A inert	
Bearing	watertight, maintenance-free	
Corrosion protection	thanks to powder coating, paint: RAL 5010 or hot dip galvanized (option)	
Roller set dimensions (H x D x W)	280 x 680 x 2925 mm	
Packaging dimensions (H x D x W)	400 x 800 x 3000 mm	
Weight including packaging	approximately 500 kg	
Options		
Radio pressure transducer, pneumatic	0 - 20 bar	
Radio pressure transducer, hydraulic	0 - 160 bar	
Weighing device	0 - 8 t	

* Option

MBT 4000 Series

MBT 4000 series testers stand out thanks to their high flexibility in terms of potential applications. The roller set dimensions offer the best testing capabilities for standard cars and trucks. The separated roller set design is particularly suitable for assembly using an installation pit. The display design can be either analog or a digital version with a PC and can be extended to include a test lane.

Example illustration: MBT 4200 LON W CLASSIC



Description

- ▶ Automatic start-up monitoring
- ▶ Delayed automatic switch-on after entering the tester
- ▶ Automatic cutoff at selected slip with pointer stop and automatic restart
- ▶ Automatic switch-off after exiting the tester
- ▶ Single wheel switchover
- ▶ Electronic DMS measuring system
- ▶ Self-supporting split roller set
- ▶ Rear roller banked by 40 mm
- ▶ Welded roller surface (plastic coated on request)
- ▶ Star-delta switching
- ▶ Splash-proof motors
- ▶ TUV and GS approved
- ▶ Lockable main switch
- ▶ RS 232 interface connector
- ▶ Powder coating, blue RAL 5010

▶ With 4200 LON and 4400 LON 4WD versions:

Multiple analog display analog display with two (CLASSIC) or four (4WD, COMPETENCE) index clocks. (Diameter 2 or 4 x 350 mm) and integrated switching and electrical cabinet. Display option for brake tester, side slip tester and shock absorber tester.

(3-digit) differential display for assessing braking force imbalance, shock absorber imbalance and side slip deviation.

▶ With 4250 LON and 4450 EUROSISTEM 4WD versions:

Communication desk or switch cabinet for tester control, lockable drawer for keyboard and computer mouse, storage compartment for writing accessories, etc. The monitor support is set up pursuant to the VESA standard. Measured value, differential display and graphics on a PC monitor (optional).



Multiple analog display

Clear presentation on clearly readable dial instruments, combined with VARIODATA digital displays and (moving text) user interface.

Available models and delivery scope	MBT 4200 LON CLASSIC	MBT 4200 LON W CLASSIC	MBT 4200 LON W COMPETENCE	MBT 4250 EUROSYSYSTEM	MBT 4250 EUROSYSYSTEM	MBT 4450 EUROSYSYSTEM 4WD
Part no.:	VP 410156	VP 410155	VP 410154	VP 410153	VP 410152	VP 410151
2- way multiple analog display	X	X	-	O	O	O
4- way multiple analog display	-	-	X	O	O	O
Preparation for weighing device	-	X	X	X	X	X
MCD 2000 communication desk	O	O	O	X	X	X
MCD 1000 switch cabinet	O	O	O	-	-	-
Equipped with "All-in-one PC"	O	O	O	O	X	O
LON-Basic test software	O	O	O	-	-	-
EUROSYSYSTEM test software	-	-	-	X	X	X
4WD regulation set	O	O	O	O	O	X

The current price list gives details of other accessories.

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 O: Optionally available
 -: Not available



◀ **MCD 2000 communication desk**
 Display and PC control unit with comfortable guided function and extensive databases for professional use.

MBT 4000 series roller set with ▶
 no preparation for weighing device
 - Axle load 13 t (loads of up to 15 t)
 - Motor rating from 9 kW to 11 kW
 - Rear roller banked by 40 mm



Technical data	LON/LON 4WD	EUROSYSYSTEM/EUROSYSYSTEM 4WD
Display/control		
Display unit	Multiple analog display 2 x Ø 350 mm (CLASSIC) or 4 x Ø 350 mm (COMPETENCE)	PC monitor and/or radio touch screen FTS 2010
Control	Integrated control circuit board	Fully automatic thanks to the MCD communication desk
Display area	0 – 40 kN / 0.02 – 0.3 D, 0 – 100% / -20 m/km – +20 m/km	
Display unit dimensions (H x D x W)	910 x 870 x 300 mm (CLASSIC) or 1060 x 870 x 300 mm (COMPETENCE)	860 x 1230 x 350 mm (without printer compartment)
Weight	approximately 60 – 100 kg	approximately 100 – 120 kg
Interface connector	RS 232 for printer or PC	Ethernet network

Roller set	Series MBT 4000
Authorized axle load (minimum height)	13 t/15 t*
Drive power of motors	2 x 9 kW/11 kW*
Test speed	2.3 km/h (2.3 / 4.6 km/h)*
Roller length	1000 mm
Roller diameter	202 mm
Roller center distance	430 mm
Electrical connection value	3 x 400 V/N/PE 50/60 Hz
Fuse protection	50 - 63 A inert
Bearing	watertight, maintenance-free
Corrosion protection	thanks to powder coating, paint: RAL 5010 or hot dip galvanized*
Roller set half dimensions (H x D x W)	550 x 1050 x 1250 mm
Weight (2 parts)	approximately 1200 kg

Options	
Radio pressure transducer, pneumatic	0 - 20 bar
Radio pressure transducer, hydraulic	0 - 160 bar
Hydraulic weight simulator	0 - 10 t
Weighing device	0 - 20 t

* Option

MBT 5000 Series

Testers for "mobile roadside inspection" in particular have been developed in the MBT 5000 series. The low minimum height means that these testers are mobile and flexible, and can be used without installation pit preparations. The specially developed "low speed" version enables truck brake testing using low power. The display design can be either analog or a digital version with a PC.

Example illustration: MBT 5200 LON W CLASSIC



Description

- ▶ Automatic start-up monitoring
- ▶ Delayed automatic switch-on after entering the tester
- ▶ Automatic cutoff at selected slip with pointer stop and automatic restart
- ▶ Automatic switch-off after exiting the tester
- ▶ Single wheel switchover
- ▶ Electronic DMS measuring system
- ▶ Self-supporting split roller set
- ▶ Central covering between the roller sets for the MBT 5000 series
- ▶ Plastic-coated roller surface
- ▶ Star-delta switching
- ▶ TUV and GS approved
- ▶ Lockable main switch
- ▶ RS 232 interface connector
- ▶ Powder coating, blue RAL 5010
- ▶ **With 5200 LON version:**

Multiple analog display analog display with two (CLASSIC) or four (4WD, COMPETENCE) index clocks. (Diameter 2 or 4 x 350 mm) and integrated switching and electrical cabinet. Display option for brake tester, side slip tester and shock absorber tester.

(3-digit) differential display for assessing braking force imbalance, shock absorber imbalance and side slip deviation.

- ▶ **With 5250 EUROSISTEM version:**

Communication desk or switch cabinet for tester control, lockable drawer for keyboard and computer mouse, storage compartment for writing accessories, etc. The monitor support is set up pursuant to the VESA standard. Measured value, differential display and graphics on a PC monitor (optional).



Multiple analog display

Clear presentation on clearly readable dial instruments, combined with VARIODATA digital displays and (moving text) user interface.

Available models and delivery scope	MBT 5200 LON W CLASSIC	MBT 5200 LON W COMPETENCE	MBT 5250 EUROSYSYSTEM	MBT 5250 EUROSYSYSTEM
Part no.:	VP 410139	VP 410138	VP 410136	VP 410135
2- way multiple analog display	X	X	O	O
4- way multiple analog display	-	-	O	O
Preparation for weighing device	X	X	X	X
MCD 2000 communication desk	O	O	X	X
Equipped with "All-in-one PC"	O	O	O	X
LON-Basic test software	O	O	-	-
EUROSYSYSTEM test software	-	-	X	X
Ramp set	O	O	O	O

The current price list gives details of other accessories.

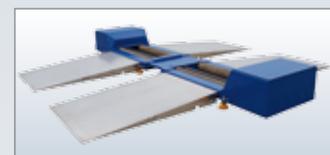
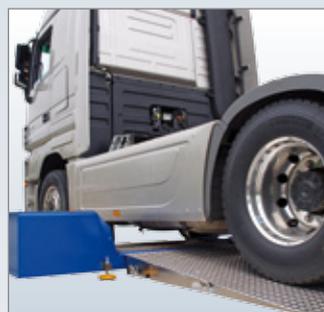
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◀ **MCD 2000 communication desk**
 Display and PC control unit with comfortable guided function and extensive databases for professional use.

Minimum height

The compact roller set design ensures trouble-free testing, even of vehicles that have limited ground clearance. ▶



Mobile use

Electrical and mechanical plug connections mean that the tester is fully prepared for mobile use.

Technical data	LON	EUROSYSYSTEM
Display/control		
Display unit	Multiple analog display 2 x Ø 350 mm (CLASSIC) or 4 x Ø 350 mm (COMPETENCE)	PC monitor and/or radio touch screen FTS 2010
Control	Integrated control circuit board	Fully automatic thanks to the MCD communication desk
Display area	0 – 40 kN / 0.02 – 0.3 D, 0 – 100% / -20 m/km – +20 m/km	
Display unit dimensions (H x D x W)	910 x 870 x 300 mm (CLASSIC) or 1060 x 870 x 300 mm (COMPETENCE)	860 x 1230 x 350 mm (without printer compartment)
Weight	approximately 60 – 80 kg	approximately 80 – 100 kg
Interface connector	RS 232 for printer or PC	Ethernet network

Roller set	MBT 5000 "low speed"	MBT 5000 "high speed"
Authorized axle load (minimum height)	18 t	18 t
Drive power of motors	2 x 4 kW	2 x 11 kW
Test speed	0.7 km/h	2.0 km/h
Electrical connection value/fuse protection	3 x 208 V 60 Hz / 40 A inert	3 x 400 V 50 Hz / 63 A inert
Minimal/maximal scan	600/3000 mm	
Roller length	1200 mm	
Roller diameter	130 mm	
Roller center distance	450 mm	
Minimum height	170 mm	
Bearing	watertight, maintenance-free	
Corrosion protection	thanks to powder coating, paint: RAL 5010 or hot dip galvanized*	
Roller set half dimensions (H x D x W)	460 x 1200 x 2050 mm	
Weight (2 parts)	approximately 1600 kg	

Options	
Radio pressure transducer, pneumatic	0 - 20 bar
Radio pressure transducer, hydraulic	0 - 160 bar
Weighing device	0 - 20 t

* Option

MBT 6000 Series

Appropriate test equipment is required for testing the brakes of vehicles with large wheel dimensions and variable track widths. The MBT 6000 testers have been specially developed to meet these requirements and are characterized by their unique dimensions. They can be used for agricultural vehicles or special vehicles of any kind. MBT 6000 series testers offer (almost) limitless options. The display design can be either analog or a digital version with a PC.

Example illustration: MBT 6200 LON W CLASSIC



Description

- ▶ Automatic start-up monitoring
- ▶ Delayed automatic switch-on after entering the tester
- ▶ Automatic cutoff at selected slip with pointer stop and automatic restart
- ▶ Automatic switch-off after exiting the tester
- ▶ Single wheel switchover
- ▶ Electronic DMS measuring system
- ▶ DC brake (electric drive-off aid)
- ▶ Self-supporting split roller set
- ▶ Rear roller banked by 50 mm
- ▶ Welded roller surface (plastic coated on request)
- ▶ Star-delta switching
- ▶ Splash-proof motors
- ▶ TUV and GS approved
- ▶ Lockable main switch
- ▶ RS 232 interface connector
- ▶ Powder coating, blue RAL 5010

▶ With 6200 LON version:

Multiple analog display with two analog index clocks (diameter 2 x 350 mm) and integrated switching and electrical cabinet. Display option for brake tester, side slip tester and shock absorber tester. (3-digit) differential display for assessing braking force imbalance, shock absorber imbalance and side slip deviation.

▶ With 6250 EUROSYSYSTEM version:

Communication desk or switch cabinet for tester control, lockable drawer for keyboard and computer mouse, storage compartment for writing accessories, etc. The monitor support is set up pursuant to the VESA standard. Measured value, differential display and graphics on a PC monitor (optional).



Multiple analog display

Clear presentation on clearly readable dial instruments, combined with VARIODATA digital displays and (moving text) user interface.

Available models and delivery scope	MBT 6200 LON W CLASSIC	MBT 6250 EUROSISTEM	MBT 6250 EUROSISTEM
Part no.:	VP 510008	VP 510007	VP 510006
2- way multiple analog display	X	O	O
Preparation for weighing device	X	X	X
MCD 2000 communication desk	O	X	X
MCD 1000 switch cabinet	O	-	-
Equipped with "All-in-one PC"	O	O	X
LON-Basic test software	O	-	-
EUROSISTEM test software	-	X	X
Ramp set	O	O	O

The current price list gives details of other accessories.

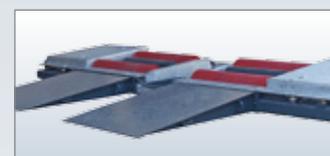
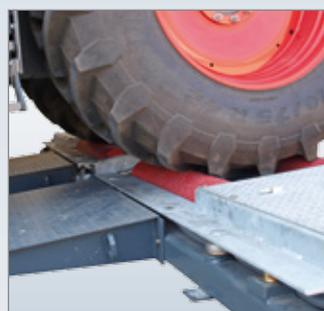
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◀ **MCD 2000 communication desk**
 Display and PC control unit with comfortable guided function and extensive databases for professional use.

Roller set design

The adapted design ensures that wheel diameters of up to 2.2 m can be tested easily.



Flexible use

Installation can be either on the ground or in an existing foundation.

Technical data	LON	EUROSISTEM
Display/control		
Display unit	Multiple analog display 2 x Ø 350 mm	PC monitor and/or radio touch screen FTS 2010
Control	Integrated control circuit board	Fully automatic thanks to the MCD communication desk
Display area	0 – 40 kN / 0.02 – 0.3 D, 0 – 100% / -20 m/km – +20 m/km	
Display unit dimensions (H x D x W)	910 x 870 x 300 mm	860 x 1230 x 350 mm (without printer compartment)
Weight	approximately 60 – 100 kg	approximately 100 – 120 kg
Interface connector	RS 232 for printer or PC	Ethernet network

Roller set	Series MBT 6000
Authorized axle load (minimum height)	18 t
Drive power of motors	2 x 11 kW
Test speed	3 km/h
Testable wheel diameter	800 – 2200 mm
Minimal/maximal scan	400/3600 mm
Roller length	1600 mm
Roller diameter	265 mm
Roller center distance	685 mm
Electrical connection value	3 x 400V/N/PE 50 Hz
Fuse protection	63 A inert
Bearing	watertight, maintenance-free
Corrosion protection	thanks to powder coating, paint: RAL 5010 or hot dip galvanized*
Roller set half dimensions (H x D x W)	400 x 1350 x 2685 mm
Weight (2 parts)	approximately 2400 kg

Options	
Radio pressure transducer, pneumatic	0 - 20 bar
Radio pressure transducer, hydraulic	0 - 160 bar
Hydraulic weight simulator	0 - 10 t
Weighing device	0 - 20 t

* Option

MBT 7000 Series

Recommended by vehicle manufacturers and used by international testing organizations in continuous operation. MBT 7000 (formerly IW7) series testers are the world's most commonly used brake testers and are used for truck diagnostics in particular. The optimized roller set dimensions make these benches versatile for both truck and car testing. These test benches can be upgraded with many accessories and offer a wide range of diagnostics options, even when vehicle throughput is high. The display design can be either analog or a digital version with a PC and can be extended to include a test lane.



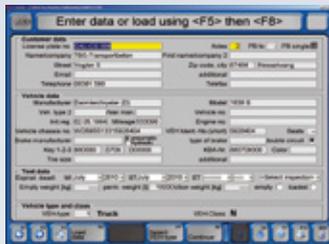
Description

- ▶ Automatic start-up monitoring
- ▶ Delayed automatic switch-on after entering the tester
- ▶ Automatic cutoff at selected slip with pointer stop and automatic restart
- ▶ Automatic switch-off after exiting the tester
- ▶ Single wheel switchover
- ▶ Electronic DMS measuring system
- ▶ Self-supporting split roller set
- ▶ Rear roller banked by 50 mm
- ▶ Welded roller surface (plastic coated on request)
- ▶ Star-delta switching
- ▶ Splash-proof motors
- ▶ TUV and GS approved
- ▶ Lockable main switch
- ▶ RS 232 interface connector
- ▶ Powder coating, blue RAL 5010
- ▶ With 7200 LON and 7400 LON 4WD versions:
 - Multiple analog display analog display with two (CLASSIC) or four (4WD, COMPETENCE) index clocks. (Diameter 2 or 4 x 350 mm) and integrated switching and electrical cabinet. Display option for brake tester, side slip tester and shock absorber tester.
 - (3-digit) differential display for assessing braking force imbalance, shock absorber imbalance and side slip deviation.
- ▶ With 7250 and 7450 EUROSISTEM versions:
 - Communication desk or switch cabinet for tester control, lockable drawer for keyboard and computer mouse, storage compartment for writing accessories, etc. The monitor support is set up pursuant to the VESA standard. Measured value, differential display and graphics on a PC monitor (optional).

Available models and delivery scope	MBT 7200 LON CLASSIC	MBT 7200 LON W CLASSIC	MBT 7200 LON W COMPETENCE	MBT 7250 EUROSYSTEM	MBT 7250 EUROSYSTEM	MBT 7450 EUROSYSTEM 4WD
Part no.:	VP 410162	VP 410161	VP 410160	VP 410159	VP 410158	VP 410157
2- way multiple analog display	X	X	-	O	O	O
4- way multiple analog display	-	-	X	O	O	O
Preparation for weighing device	-	X	X	X	X	X
MCD 2000 communication desk	O	O	O	X	X	X
MCD 1000 switch cabinet	O	O	O	-	-	-
Equipped with "All-in-one PC"	O	O	O	O	X	O
LON-Basic test software	O	O	O	-	-	-
EUROSYSTEM test software	-	-	-	X	X	X
4WD regulation set	O	O	O	O	O	X

The current price list gives details of other accessories.

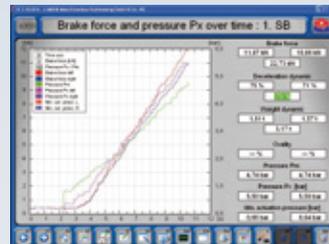
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The input screen for vehicle and owner data can directly access the SQL database.



During the braking test, all relevant data is displayed clearly.



Clear presentation of brake values with graphical and digital analysis.



Predefined test sequences reduce the effort required to operate the equipment to a minimum.

Technical data	LON/LON 4WD	EUROSYSTEM/EUROSYSTEM 4WD
Display/control		
Display unit	Multiple analog display 2 x Ø 350 mm (CLASSIC) or 4 x Ø 350 mm (COMPETENCE)	PC monitor and/or radio touch screen FTS 2010
Control	Integrated control circuit board	Fully automatic thanks to the MCD communication desk
Display area	0 – 40 kN / 0.02 – 0.3 D, 0 – 100% / -20 m/km – +20 m/km	
Display unit dimensions (H x D x W)	910 x 870 x 300 mm (CLASSIC) or 1060 x 870 x 300 mm (COMPETENCE)	860 x 1230 x 350 mm (without printer compartment)
Weight	approximately 60 – 100 kg	approximately 100 – 120 kg
Interface connector	RS 232 for printer or PC	Ethernet network

Roller set	Series MBT 7000
Authorized axle load (minimum height)	18 t/20 t*
Drive power of motors	2 x 11 kW/16 kW*
Test speed	3 km/h (3 / 6 km/h)*
Roller length	1150 mm (1600 mm)*
Roller diameter	265 mm
Roller center distance	475 mm
Electrical connection value	3 x 400V/N/PE 50/60 Hz
Fuse protection	63 - 80 A inert
Bearing	watertight, maintenance-free
Corrosion protection	thanks to powder coating, paint: RAL 5010 or hot dip galvanized*
Roller set dimensions (H x D x W)	700 x 1150 x 1450 mm
Weight (2 parts)	approximately 1700 kg

Options	
Radio pressure transducer, pneumatic	0 - 20 bar
Radio pressure transducer, hydraulic	0 - 160 bar
Hydraulic weight simulator	0 - 10 t
Weighing device	0 - 20 t

* Option

Accessories matrix

Description	Item no.	Series MBT 3000 LON	Series MBT 3000 EUROSYSYSTEM	Series MBT 4000 LON	Series MBT 4000 EUROSYSYSTEM	Series MBT 5000 LON	Series MBT 5000 EUROSYSYSTEM	Series MBT 6000 LON	Series MBT 6000 EUROSYSYSTEM	Series MBT 7000 LON	Series MBT 7000 EUROSYSYSTEM
		Additional package: "Brake tester directive 2011"	VZ 955278	O	O	O	O	-	-	O	O
Roller set is split for assembly in an installation pit	VZ 930040	O	O	X	X	X	X	X	X	X	X
Differential display with 3-digit LED bar evaluation	VZ 955252	O	O*	X	O*	X	O*	X	O*	X	O*
VARIODATA display	VZ 955253	O	O*	O	O*	O	O*	O	O*	O	O*
LED moving text with user guidance	VZ 955254	O	O*	O	O*	O	O*	O	O*	O	O*
Wall bracket	VZ 955256	O	-	O	-	O	-	O	-	O	-
Stand for display cabinet	VZ 955257	O	-	O	-	O	-	O	-	O	-
MSA CLASSIC simultaneous display	VZ 950055	O	O	O	O	O	O	O	O	O	O
THERMOPRINT data printer	VZ 910152	O	-	O	-	O	-	O	-	O	-
RECO 1 radio remote control	VZ 910153	O	-	O	-	O	-	O	-	O	-
FFB 3 radio remote control	VZ 910154	O	O	O	O	O	O	O	O	O	O
Starter set radio-controlled pressure converter	VZ 980035	O	O	O	O	O	O	O	O	O	O
Radio pressure transducer, pneumatic	VZ 980029	O	O	O	O	O	O	O	O	O	O
Radio pressure transducer, hydraulic	VZ 980028	O	O	O	O	O	O	O	O	O	O
Special voltage, 3 x 230 V/50 Hz, etc.	see price list	O	O	O	O	O	O	O	O	O	O
MCD printer tray	VZ 955273	-	O	-	O	-	O	-	O	-	O
MCD side shelf	VZ 955274	-	O	-	O	-	O	-	O	-	O
MCD external PC storage compartment	VZ 955277	-	O	-	O	-	O	-	O	-	O
GSQ pit support system	VP 155009	O	O	O	O	O	O	O	O	O	O
Flash light with horn	VZ 955071	O	O	O	O	O	O	O	O	O	O
FTS 2010 radio touchscreen	VZ 955265	-	O	-	O	-	O	-	O	-	O
Rigid 4WD regulation set	VZ 935113	O	O	O	O	O	O	O	O	O	O
DC brake (electric drive-off aid)	see price list	O	O	O	O	O	O	O	O	O	O
Weighing device	see price list	O	O	O	O	O	O	O	O	O	O
Plastic-coated roller surface	VZ 935110	O	O	O	O	O	O	O	O	O	O
Hydraulic weight simulator	see price list	O	O	O	O	-	-	O	O	O	O
Liftable roller set	see price list	-	-	O	O	-	-	O	O	O	O
Rotation and measurement direction can be (manually) switched	VZ 935132	O	O	O	O	O	O	O	O	O	O
Rotation and measurement direction can be (remotely) switched	VZ 935133	O	O	O	O	O	O	O	O	O	O
Two test speeds	VZ 935077	-	-	O	O	-	-	-	-	O	O
Detachable roll cover	see price list	O	O	O	O	-	-	O	O	O	O
Lifting or lowering threshold	VZ 930041	O	O	-	-	-	-	-	-	-	-
Pit casing	VP 930057	O	O	-	-	-	-	-	-	-	-
Angle iron frame	see price list	-	-	O	O	-	-	O	O	O	O
Roller heating	see price list	O	O	O	O	-	-	O	O	O	O
Switch cabinet heating	VZ 955080	O	O	O	O	-	-	O	O	O	O
Level roller set design	see price list	X	X	O	O	-	-	-	-	O	O
TCS TachoControl or Continental CTC II	see price list	O	O	O	O	O	O	O	O	O	O

* Only in combination with simultaneous display

The current price list gives details of other accessories.

X: These are included in the delivery scope

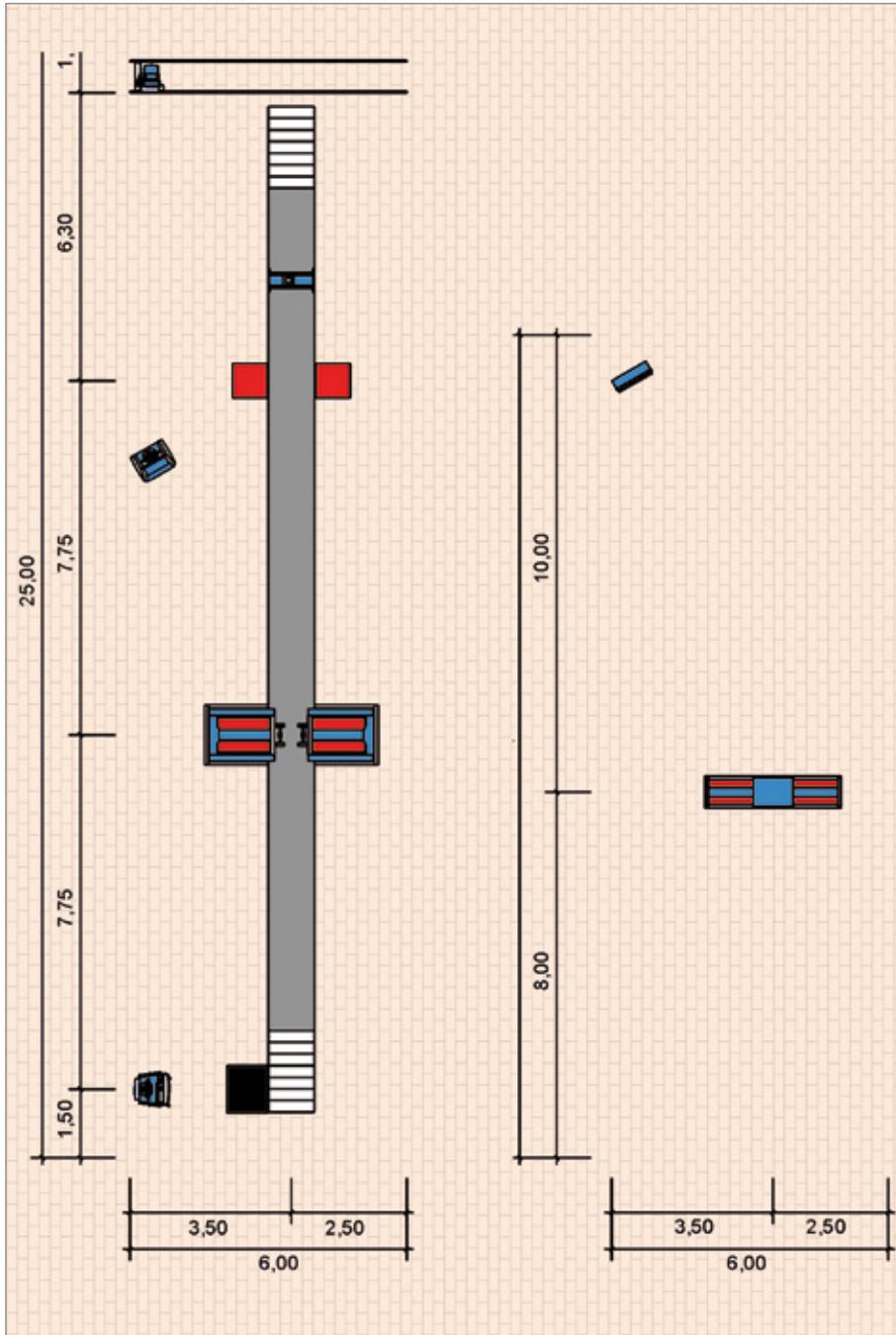
O: Optionally available

-: Not available

Accessories

Digital/optical differential display VZ 955252	VARIODATA display VZ 955253	Wall bracket VZ 955256	Stand for display cabinet VZ 955257	Thermoprint data printer VZ 910152
RECO 1 radio remote control VZ 910153	FFB 3 radio remote control VZ 910154	Pedal force meter VZ 990050	Starter set radio-controlled pressure converter VZ 980035	Radio pressure transducer, pneumatic VZ 980029
Special voltage 3 x 230 V see price list	GSQ pit support system VZ 155009	Flash light with horn VZ 955071	FTS 2010 radio touchscreen VZ 955265	Radio pressure transducer hydraulic VZ 980028
4WD regulation set VZ 935113	Weighing device static/dynamic	Plastic coated roller surface VZ 935110	Hydraulic weight simulator VZ 935033	Liftable roller set VZ 935169/VZ 935170
Strengthened drive motors see price list	Rotation and measurement direction VZ 935072	Two test speeds VZ 935077	Roller cover VZ 935140/VZ 935141	Mounting frame see price list
Operating hours counter VZ 955014	Roller heating VZ 935006	Adjusting device see price list	Tachograph test devices see price list	MDO 2 diesel exhaust gas tester VP 135023

MAHA testing concepts for the workshop



Solutions for load simulation



MLS 2100/2200 load simulator
2-way HD cylinder for fixed or moving (on rails) floor mounting.



Roller set lifting
Hydraulic roller set lifting for axle load displacement on the axle being tested.



Fastening clips
For fastening the belt to the vehicle frame.



Ground anchor
For holding the vehicle frame or the axle during lifting.

GLOBAL PLAYER

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Subsidiaries

- | | | | | |
|----------------|------------------|------------------|-------------------|------------------|
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| 03 - Canada | 08 - Ireland | 13 - Russia | 17 - South Africa | 21 - Vietnam |
| 04 - Chile | 09 - Japan | 14 - Serbia | 18 - Thailand | 22 - West Africa |
| 05 - China | 10 - New Zealand | | | |



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