

# Roller Brake Testers

**Models: IW 4/7 E**

**IW 4/7 WB**

**IW 4/7 WBV**

**combination unit for Cars, Vans, Trucks and Buses up to max. 20 t axle load**

- ▶ from reasonably priced test stand package for entry level applications
- up to individually planned test stand for professionals



## Roller Brake Tester

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This test stand series works with perfected technology which has proven itself in years of practice. The MAHA principle of module assembly of mechanical units means the standard delivery test stands can be expanded with a wide scope of options step by step to fit customer needs. MAHA's proven expertise in the construction of motor vehicle testing equipment makes them an indispensable part of every workshop.

### Performance Description

**IW 4/7 E, IW 4/7 WB, IW 4/7 WBV**

- ▶ Program control with 32-bit-micro-processor electronic
- ▶ EEPROM chip for variable system configuration
- ▶ Automatic start-up monitoring
- ▶ Delayed switch-on automatic after driving onto the test stand
- ▶ Automatic slip switch-off with pointer stop and restart automatic
- ▶ Switch-off automatic after exiting the test stand
- ▶ Single wheel switch-off
- ▶ Electronic strain gauge measuring system
- ▶ Self-supporting and divided roller set
- ▶ Welded roller surface  
(synthetic coating also available)
- ▶ Star delta
- ▶ TÜV- and GS approved
- ▶ Powder paint coating blue, RAL 5010

### Standard Delivery IW 4/7 E

- ▶ Switch/electro-cabinet
- ▶ Lockable main switch
- ▶ Interface connection RS 232 and Centronics for printer or PC

### Standard Delivery IW 4/7 WB, IW 4/7 WBV

- ▶ Display with 2 analog displays
- ▶ Switch electro-cabinet
- ▶ Lockable main switch
- ▶ Interface connection RS 232 and Centronics for printer or PC
- ▶ Roller sets IW4/E RS No.2 or IW 7/E RS No. 2 motors underneath (only IW 4/7 WB)
- ▶ Roller sets IW4/E RS No.2 or IW 7/E RS No. 2 motors underneath, prepared for weighing device (only IW 4/7 WBV)

Testing technology is constantly being presented with new challenges by vehicle technology innovations, statutory changes, and construction requirements. These challenges can be met by offering various options. Your test stand is then up-to-date for years to come.

The standard delivery of IW 4/7 WB and IW 4/7 WBV has been expanded based on practice-oriented applications and offers fully functional test stand packages.

### IW 4 WBV, IW 7 WB

Analog display  
with 2 double scales

Electro-control cabinet

Roller set IW 7/E RS. No. 2  
Motors underneath



Roller set IW 4/E  
RS. No. 2 Motors underneath  
Picture with weighing device

## when you really get down to business ...do it right:

e.g. with an **IW 4/7 E-expansion step**

The **digital multi-functional display** clearly shows the unregulated and regulated brake pressures, the wheel weight, the deceleration and the operator guidance.

The measurement values can be extensively evaluated using the **PC Communication Desk 2 Euro-Mux** and Euro-Mux software in addition to a customer and vehicle database.

### IW 4/7 E

Digital  
multi-functional display

Display  
with 4 analog displays



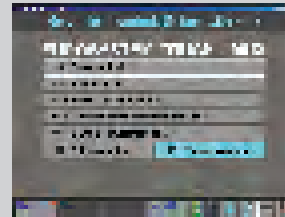
PC Communication  
Desk 2 Euro-Mux

Electro-  
control cabinet

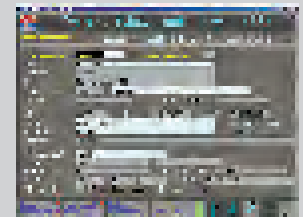
**IW 4/7 E, IW 4/7 WB and IW 4/7 WBV**  
**Sophisticated Testing Technology for Professionals**

**...even the software is modularly conceived!**

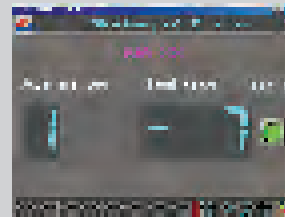
**Screen displays**



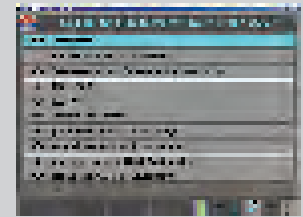
**Program menu**  
 Simple operation with user-friendly menu design



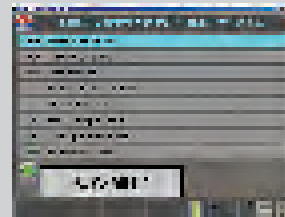
**Customer data mask**  
 Vehicle and customer data input



**Side-slip tester**  
 Clear display of vehicle axle geometric measurement with results



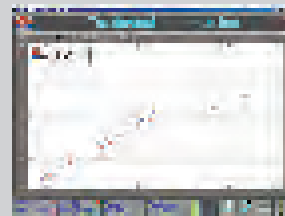
**EC-Tachograph- and Log recorder test device**  
 Connection of the TMK 1 to display the measurement values on the screen



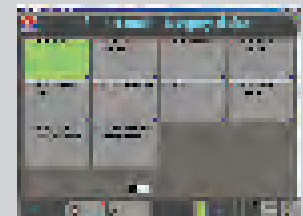
**Evaluations**  
 Clear selection menu for final evaluation



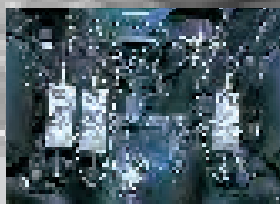
**Main Inspection § 29**  
 Effective MI-test with pre-defined test steps



**Tractor Correlation**  
 Graphic screen with display of the EG-brake corridors

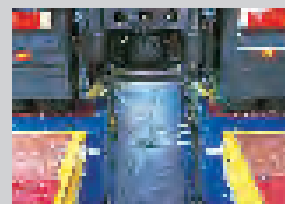


**Visual Defects**  
 Defect input by button pressing with pre-defined text module

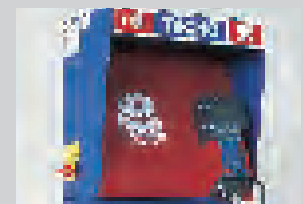


**Additional Expansion Steps for IW 4/7 E, IW 4/7 WB, IW 4/7 WBV :**

**Radio Pressure Converter**  
 No cables or air hoses needed due to radio transmission. The vehicle can be equipped with radio pressure converters outside of the vehicle.



**Weight Simulator**  
 Every loaded condition of the commercial vehicle can be simulated easily in connection with a weighing device.



**Tachograph Test Device TMK 1**  
 For easy and precise check of EC-tachographs and log recorders in connection with roller set IW 4 / IW 7 Protocol of the data on the PC Communication Desk 2 Euro-Mux.

## Technical Data

### Display Unit

Display on 2 analog displays (B x H x T)	800 x 450 x 300 mm	Scale diameter 2 x 280 mm
Display on 4 analog displays (B x H x T)	800 x 950 x 300 mm	Scale diameter 4 x 350 mm
Control cabinet (W x H x D)	800 x 950 x 300 mm	
Imbalance display	0 – 70 %	
Display range	0 – 8 kN / 0 – 40 kN	

### Roller Set

	IW 4 E, IW 4 WB, IW 4 WBV	IW 7 E, IW 7 WB, IW 7 WBV
Axle load	13 t / 15 t*	18 t / 20 t*
Drive power	2 x 7.5 kW	2 x 9 kW
Strengthened drive motors	2 x 9 kW* / 2 x 11 kW*	2 x 11 kW* / 2 x 16 kW*
Test speed	2.3 km/h (2.3 / 4.6 km/h)*	3 km/h (3 / 6 km/h*)
Roller length	1000 mm	1150 mm
Roller diameter	202 mm	265 mm
Roller axle separation	400 mm	475 mm
Power connection value	400 V / 50 Hz 3 P + N + E	400 V / 50 Hz 3 P + N + E
Fuse	35 A slow	50 A slow
Star delta	x	x
Dimensions of the roller sets	see tech. data sheet	see tech. data sheet

### Options

PC-communication desk 2 Euro-Mux (W x H x D)	600 x 1000 x 530 mm
Software Euro-Mux	Windows application
Software module	Tractor correlation, MI program, ST program
Digital multi-functional display (W x H x D)	800 x 350 x 300 mm
Simultaneous display analog	With double pointer 1 x 350 mm, Analog display with 2 scales 2 x 300 mm Analog display with 4 scales 4 x 350 mm
Transmitter controlled pressure converter	0 - 20 bar
Hydraulic adapter set for transmitter controlled pressure converter	0 - 160 bar
Hydraulic weight simulator	0 - 10 t
Weighing device (not for IW 4/7 WB)	0 - 20 t

Remote control, Pedal force meter, Printer, Side-slip tester MINC II, Tachograph test device TMK 1, 4 wheel drive regulator set, DC-Brakes

Please see the current price list for further accessories!

### Production program:

Testing Technology for Cars, Trucks, Vans, Motorcycles, Tractors, Fork-lifts and Aircraft · Roller-Brake Testers · Platform Brake Testers · Shock Absorber Testers · Side Slip Testers · Play Detectors · Roller Dynamometer for Performance and Function Testing · Air Conditioning Service Equipment · Speedometer and Tachograph Testers · Inspection and Wheel Alignment Scissor Lifts · Two- and Four-Post Lifts · Below Floor One and Two Cylinder Lifts · Computerized Vehicle Safety Testing Lane for Cars and Trucks · Headlight Testers · Diesel Engine Emissions Testers · 4/5 Motor Gas Tester for Otto Engines · Workshop Presses · Axle and Wheel Load Scales · Decelerometers · Brake Fluid Testers

**Additional Services:** Workshop design and planning · Training seminars for users and service technicians



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