



## BM17200 Roller brake tester

BM17200 is a roller brake tester for light and heavy vehicles with the capacity of testing axle weights of up to 16.000 kg axle load (optionally 20.000 kg) and is designed for use by repair workshops and vehicle inspection companies.

BM17200 features a unique load simulation system for axle loads of up to 12.000 kg. Simulation is done from the remote control by lifting the roller bed vertically via hydraulic power. The software ensures a dynamic adjustment of the applied load hence a constant axle load during the brake test. The vertical lift is a tilt movement, which causes a higher position of the rear rollers than the front rollers. Consequently, the wheels are better embedded and the design reduces the backward movement of the axle at high brake forces and wheel lock.

The display has large analogue readouts of brake forces. It has a windows design, so all other readings like imbalance, ovality, weight, efficiency and air pressure values can be shown simultaneously during test in large easy-to-read 65 mm high digital readouts.

Alternatively to the display and the infrared remote control, a handheld, radio based PDA unit can optionally be supplied. Even without PC connection the embedded microprocessor offers advanced data processing and graphical printout of test results as well as calculation of test results according the requirements of many national Authorities.

The BM17200 can be supplied with a state-of-the art Windows based software, BM FlexCheck, which allows for even further diagnostics including comparison and brake matching between two or more vehicles in combination (vehicle trains). BM FlexCheck can be expanded to perform as a complete vehicle inspection program including data integration from other test equipment like emission testers, head light testers, visual inspection etc.

### Options

The roller brake tester can be supplied with a wide range of options:

- Display mounting on column, wall or trolley.
- PDA remote control and display.
- Infrared remote control.
- Automatic measurement of the axle test weight, the vehicle's total weight and brake efficiency in %.
- Cable and radio based air pressure sensors.
- Brake matching of two or more vehicles (vehicle train).
- Test of ALB valve during brake test with chassis load system (CLS).
- Simulation of axle load by lifting the roller bed avoiding the use of chains.



### Technical data

Roller set L x B x H * 2	1260 / 1510 / 1860 x 1474 x 645 mm
Subframes L x B x H * 2	1320 / 1570 / 1920 x 1720 x 650 mm
Roller diameter and length (can be changed)	208 mm, 1000 mm
Wheel span (can be changed)	Min. 850 to Max. 2850 mm
Roller distance	460 mm
Display L x B x H	930 x 820 x 100 mm
Control cabinet L x B x H	760 x 600 x 210 mm
Brake force measurement accuracy	0 - 100 daN: $\pm 2$ daN > 100 daN: $\pm 2$ % FS
Weight measurement accuracy	0 - 100 kg: $\pm 2$ kg > 100 kg: $\pm 2$ % FS
Pedal force measurement accuracy	0 - 100 daN: $\pm 1$ daN

Gear motor size	11 kW	15 kW
Maximum axle weight	16000 kg	20000 kg
Maximum axle weight at simulation with lifting system	12000 kg	12000 kg
Maximum brake force measurement	4000 daN	6000 daN
Test speed	2.2 km/h	2.2 km/h
Power and Fuses	3 x 400 VAC + N + E Min. 50 Amp	3 x 400 VAC + N + E Min. 80 Amp

