

ROLLER BRAKE TESTERS AND TEST LINES

- BM3010, BM4010, BM9010 and BM5200



- Hot-galvanized roller brake testers.
- Designed for both in- and outdoor use.
- Prepared for test line expansion.
- Approved by several international authorities.

BM3010, BM4010 and BM9010

BM offers these 3 different models of roller brake testers for light vehicles. One is mobile/on-ground and the other two are in-ground models. They are all based on the same X010 electronics and measuring system.

They all share common features:

- Can be supplied with physical aluminium display or tablet/smartphone solution for display of test results. It is possible to install the brake testers with only tablet for display.
- Hot-galvanized and designed for both in- and outdoor use.
- Prepared for test line expansion with suspension tester, speedometer tester and side slip.
- Approved by several international authorities.



Options

The brake testers feature a long range of options which allow for a configuration that can meet most requirements such as:

- Floor column, wall mounting or trolley for physical display.
- Android/Windows smartphone or tablet remote control and display.
- Infrared remote control.
- Pedal force meter.
- A4 printer.
- PC Windows software.
- Test of 4x4 driven vehicles.
- Automatic axle weighing.
- Heating package for outdoor installation.



BM3010 Brake Tester

BM3010 is a strong above ground / mobile brake tester for light vehicles with axle loads up to 3500 kg. Standard wheel base is 850/2250 mm or 850/2850 mm. The brake tester can be supplied with enter and exit aluminium ramps.



BM4010 Brake Tester

BM4010 is a strong above / in-ground brake tester for light vehicles with axle loads up to 3500 kg and a standard wheel track of min. 880 to max. 2085 mm. The brake tester can be supplied with axle lifting system and rollers for wider wheel tracks (min. 800 to max. 2300mm / min. 800 to max. 2800 mm).



BM9010 Brake Tester

BM9010 is probably the world's strongest brake tester for light vehicle testing. It is designed for testing of vehicles with axle loads up to 5000 kg and a standard wheel span of min. 850 to max. 2350 mm, optional 2850 mm. The brake tester can be supplied as "one-bed" or "split-bed" roller set and can thus be installed across an inspection pit.



BM5200 Brake Tester

BM also offers a roller brake tester for light vehicles based on the X200 electronics and measuring system.

The BM5200 roller bed can be supplied as an in-ground and/or mobile on-ground unit.

It is designed for testing of vehicles with axle loads up to 6000 kg and a standard wheel span of min. 700 to max. 2700 mm.



- Can be supplied with physical aluminium display or tablet/smartphone solution for display of test results. It is possible to install the brake tester with only tablet for display.
- Hot-galvanized and designed for both in- and outdoor use.
- Prepared for test line expansion with suspension tester, speedometer tester and side slip.

Options

The brake tester features a long range of options which allow for a configuration that can meet most requirements such as:

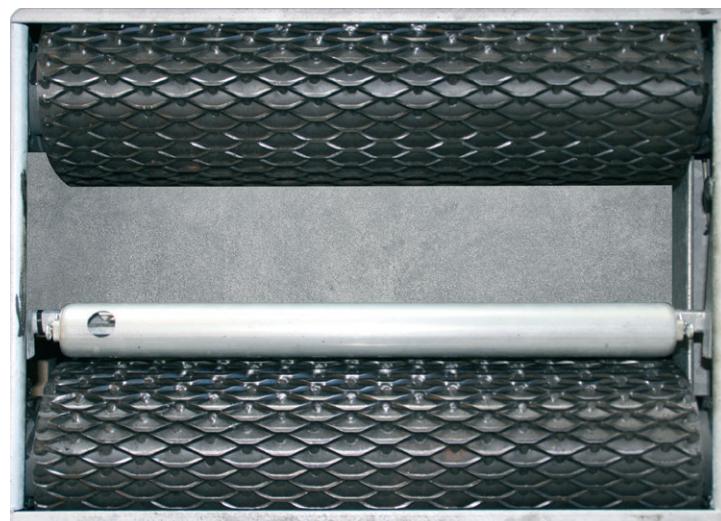
- Floor column, wall mounting or trolley for physical display.
- Android/Windows smartphone or tablet remote control and display.
- Infrared remote control.
- Pedal force meter.
- A4 printer.
- PC Windows software.
- Test of 4x4 driven vehicles.
- Automatic axle weighing.
- Heating package for outdoor installation.



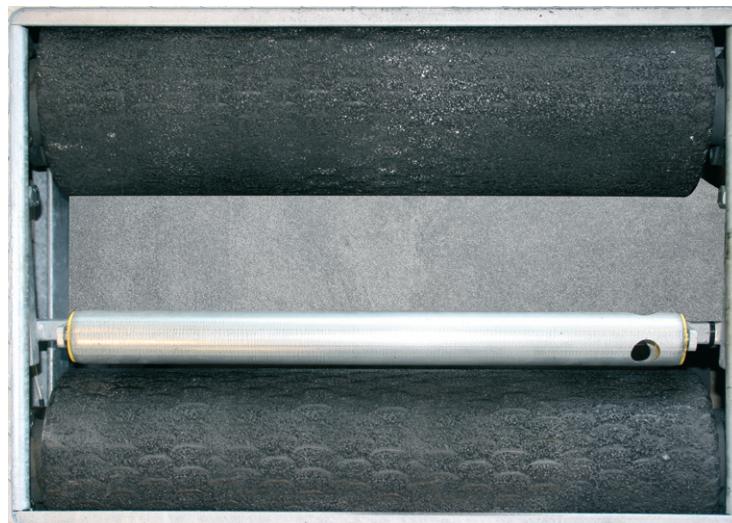
Roller Coating

The rollers can be coated with either steel mesh, which allows for test of both winter tires (spike tires) and summer tires or steel mesh plus a compound mix of nontoxic epoxy and flintstone for test of only summer tires.

Both types of coating ensures high friction with a long lifetime.



Steel mesh



Steel mesh plus epoxy-flintstone

Test Lines

All roller brake testers for light vehicles can be expanded for test line with suspension tester, speedometer tester and side slip tester.

The test lines can be configured into complete vehicle inspection lines by adding the BM FlexCheck vehicle inspection IT system.



BM3010 test line



BM4010 test line



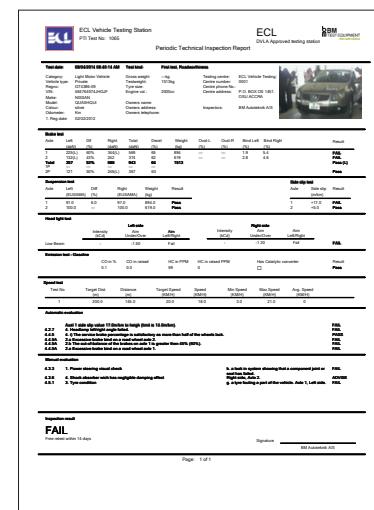
BM4010 test line

BM FlexCheck

BM roller brake testers can be delivered without a physical display using the PC program BM FlexCeck TL as remote control and display.



PC Cabinet to be placed near the roller brake tester.



Example on printout

Technical Data

DESCRIPTION		BM3010	BM4010	BM9010	BM5200
Roller bed	L x W x H	2360 x 600 x 160 mm	2300 / 2530 / 3030 x 715 x 250 mm	652 x 950 / 1200 x 455 mm	3240 x 4330 x 160 mm
Roller diameter	Ø	150 mm	182 / 204 mm	208 mm	150 mm
Roller length	L	700/1000 mm	600 / 750 / 1000 mm	750 / 1000 mm	1000 mm
Friction coefficient of roller from factory	dry/wet	Min 0.7 / 0.6			
Wheel span		850 to 2250 / 2850 mm	880 / 800 / 800 to 2080 / 2300 / 2800 mm	850 to 2430 / 2850 mm	700 to 2700 mm
Distance between roller centres		355 mm	354	400 mm	430 / 554 mm
Maximum test axle weight		3500 kg	3500 / 4000 kg	5000 kg	6000 kg
Gear motor size		1.1 kW	2.2 / 3.8 kW	5.0 / 7.5 kW	3.8 kW
Max brake force measurement		700 daN	625 / 1250 daN	700 / 1100 / 2200 daN	1450 daN
Test speed		2.0 km/h	2.5 / 5.0 km/h	2.7 / 4.5 km/h	2.0 km/h
Display	L x W x H	735 x 500 x 140 mm	735 x 500 x 140 mm	735 x 500 x 140 mm	930 x 820 x 100 mm
Display brake force scale		0 – 620 daN	0 - 620 daN	0 - 620 daN 0 - 750 daN 0 - 1500 daN	0 - 800 daN 0 - 4000 daN
Control box	L x W x H	-	-	-	600 x 600 x 210 mm
Brake force measuring accuracy		0 – 100 daN: ± 1 daN > 100 daN: ± 1 % FS	0 – 100 daN: ± 1 daN > 100 daN: ± 1 % FS	0 – 100 daN: ± 1 daN > 100 daN: ± 1 % FS	0 – 100 daN: ± 2 daN > 100 daN: ± 2 % FS
Weight measuring accuracy		0 – 100 kg: ± 2 kg > 100 kg: ± 2 % FS	0 – 100 kg: ± 2 kg > 100 kg: ± 2 % FS	0 – 100 kg: ± 2 kg > 100 kg: ± 2 % FS	0 – 100 kg: ± 2 kg > 100 kg: ± 2 % FS
Pedal force measurement accuracy		0 – 100 daN: ± 1 daN			
Power and Fuses		3 x 400 Vac + N + PE Minimum 10 Amp	3 x 400 Vac + N + PE Minimum 13 / 20 Amp	3 x 400 Vac + N + PE Minimum 25 / 35 Amp	3 x 400 Vac + N + PE Minimum 25 Amp
		3 x 230 Vac + PE Minimum 10 Amp	3 x 230 Vac + PE Minimum 20/35 Amp	3 x 230 Vac + PE Minimum 35/63 Amp	

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BM
TEST EQUIPMENT

