

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.
- 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.



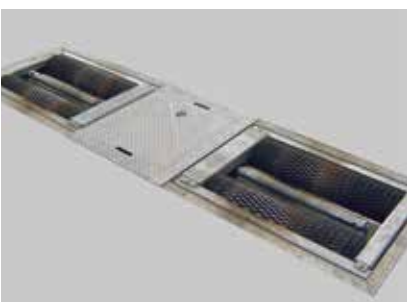
BM4010 Brake Tester

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.
- 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 FlexCheck TL as remote control and display.



PC Cabinet to be placed near the roller brake tester.

ECL Vehicle Testing Station		ECL	
VTS Licence No: 1002		Periodic Technical Inspection Report	
Test date: 08/08/2017 08:00:14 AM		Tested by: ECL Vehicle Testing Station	
Vehicle: 2017		Vehicle: 2017	
Registration: 123456789		Registration: 123456789	
Make: 123456789		Make: 123456789	
Model: 123456789		Model: 123456789	
Engine: 123456789		Engine: 123456789	
Gearbox: 123456789		Gearbox: 123456789	
Colour: 123456789		Colour: 123456789	
1. Pre-Test		1. Pre-Test	
2. Brake Test		2. Brake Test	
3. Steering Test		3. Steering Test	
4. Light Test		4. Light Test	
5. Emission Test		5. Emission Test	
6. Final Test		6. Final Test	
7. Overall Result		7. Overall Result	
8. Test Summary		8. Test Summary	
9. Test Results		9. Test Results	
10. Test Details		10. Test Details	
11. Test Notes		11. Test Notes	
12. Test Comments		12. Test Comments	
13. Test Signature		13. Test Signature	
14. Test Date		14. Test Date	
15. Test Time		15. Test Time	
16. Test Location		16. Test Location	
17. Test Station		17. Test Station	
18. Test Operator		18. Test Operator	
19. Test Result		19. Test Result	
20. Test Status		20. Test Status	
21. Test Type		21. Test Type	
22. Test Category		22. Test Category	
23. Test Sub-Category		23. Test Sub-Category	
24. Test Item		24. Test Item	
25. Test Description		25. Test Description	
26. Test Method		26. Test Method	
27. Test Equipment		27. Test Equipment	
28. Test Operator		28. Test Operator	
29. Test Result		29. Test Result	
30. Test Status		30. Test Status	
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35. Test Description		35. Test Description	
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37. Test Equipment		37. Test Equipment	
38. Test Operator		38. Test Operator	
39. Test Result		39. Test Result	
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87. Test Equipment		87. Test Equipment	
88. Test Operator		88. Test Operator	
89. Test Result		89. Test Result	
90. Test Status		90. Test Status	
91. Test Type		91. Test Type	
92. Test Category		92. Test Category	
93. Test Sub-Category		93. Test Sub-Category	
94. Test Item		94. Test Item	
95. Test Description		95. Test Description	
96. Test Method		96. Test Method	
97. Test Equipment		97. Test Equipment	
98. Test Operator		98. Test Operator	
99. Test Result		99. Test Result	
100. Test Status		100. Test Status	

Example on printout

Technical Data

DESCRIPTION		BM3010	BM4010	BM9010
Roller diameter and length	Ø x L	150 x 700/1000 mm	182 x 600/750/1000 mm	208 x 750/1000 mm
Weight		380/603 kg	337/400/- kg	818/850 kg
Friction coefficient of roller from factory dry/wet		Min 0.7 / 0.6	Min 0.7 / 0.6	Min 0.7 / 0.6
Wheel span		850 to 2250 / 2850 mm	880 to 2085 / 2300 / 2800 mm	850 to 2350 / 2850 mm
Maximum test axle weight		3500 kg	3500 / 3500 / 4000 kg	5000 kg
Gear motor size		1.1 kW	2.2 / 3.8 / 3.8 kW	5 / 5 / 7.5 kW
Max brake force measurement		700 daN	625 / 625 / 1250 daN	1500 / 1000 / 1500 daN
Test speed		2.0 km/h	2.5 / 5 / 2.5 km/h	3 / 4.5 / 4.5 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
Display brake force scale		0 – 620 daN	0 - 600 daN	0 - 750 daN 0 - 1500 daN
Brake force measuring accuracy		0 – 100 daN: ± 2 daN > 100 daN: ± 2 % FS	0 – 100 daN: ± 2 daN > 100 daN: ± 2 % 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
Pedal force measurement accuracy		0 – 99 daN: ± 1 daN	0 – 99 daN: ± 1 daN	0 – 99 daN: ± 1 daN
Power and Fuses		3 x 400 Vac + N + PE Minimum 10 Amp	3 x 400 Vac + N + PE Minimum 13 / 20 / 20 Amp	3 x 400 Vac + N + PE Minimum 25 / 25 / 35 Amp

DESCRIPTION		BM5200
Roller bed	L x W x H	3240 x 4330 mm
Roller diameter and length	Ø x L	150 x 1000 mm
Friction coefficient of roller from factory dry/wet		Min 0.7 / 0.6
Wheel span		700 to 2700 mm
Maximum test axle weight		4000/6000 kg
Gear motor size		3.8 kW
Max brake force measurement		1450 daN
Test speed		2.0 km/h
Display	L x W x H	930 x 820 x 100 mm
Display brake force scale		0 – 4000 daN
Control box	L x W x H	600 x 600 x 210 mm
Brake force measuring accuracy		0 – 100 daN: ± 2 daN > 100 daN: ± 2 % FS
Weight measuring accuracy		0 – 100 kg: ± 2 kg > 100 kg: ± 2 % FS
Pedal force measurement accuracy		0 – 99 daN: ± 1 daN
Power and Fuses		3 x 400 Vac + N + PE Minimum 25 Amp

- the safe choice

Here, There and Everywhere

BM Autoteknik A/S is a worldwide supplier of mobile vehicle inspection test equipment.



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BM
TEST EQUIPMENT



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