BM TEST EQUIPMENT
- the safe choice

BM18200 ROLLER BRAKE TESTER

- with vertical lift for light and heavy vehicles

- 255 mm lifting height of roller bed.
- 16 Ton lifting capacity.
- 16/20 Ton test axle weight.
- Retrofit without civil work into most popular subframes.
- Hot galvanized for long lifetime.
- IT system using latest app technology for smartphone and tablet.
- The most comprehensive load simulation system program.

Unique features

The BM18200 is a brake tester for light and heavy vehicles, which features hydraulic lifting beds for load simulation. Each roller bed is lifted on 4 hydraulic cylinders and is controlled by software that has built-in safety features protecting the vehicle and operator during the brake test.

The BM18200 can lift 16 Ton axle loads to a unique height of 255 mm above floor level.

Retrofit without civil work into most popular subframes

Even with these high performance charac teristics, the design of the BM18200 allows the roller bed to be retrofitted into most popular subframes without need of civil works. This includes both older brake tester models from BM as well as from other companies.

Robust design

BM Autoteknik A/S was the first company developing a lifting roller bed brake tester in 1979 (today known as model BM17200) and the design of BM18200 is therefore based on almost 40 years of experience with this kind of roller brake tester.

The BM18200 is hot galvanized for optimal protection against corrosion. The BM18200 is additionally equipped with heavy duty bearings, gear motors designed for load simulated brake tests and strong shock-absorbers for controlling the center roller. This combination ensures high reliability and low maintenance cost over the lifetime of the brake tester.

The durability of the hydraulic lifting system is enhanced by an integrated control system. This feature balances the vertical lifting movement and prevents the roller bed from being twisted during lifting when the axle is not fully centralized in the roller bed.

The design allows for further optional upgrades, which can enhance the durability to meet the toughest requirements in relation to high throughput test lanes at vehicle inspection centers and private repair workshops.

Phone and Tablet Remote Control

The BM18200 can be supplied with the PC Windows program, BM FlexCheck, which can be installed on a PC placed either integrated into a special vehicle inspection bench with touch-screen control or inside a traditional PC cabinet.

Together with BM FlexCheck, the BM18200 can be supplied with a handheld Android/Windows phone or tablet which communicates wirelessly with the brake tester. The units have a virtual display which shows all the readings of the brake test and a touch screen based remote control.

Advantages of the handheld units

In many applications, the location of the traditional physical display or traditional PC console prevents an optimal use of the brake tester by the operator.

One reason can be that the vehicle cabin passes the display or PC console when testing the last axles of the vehicle and trailer - a problem which has increased due to introduction of long modular vehicle combinations.

Another reason can be that the vehicles need to be reversed over the brake tester in non-drive through lanes, and then the operator cannot see the display or PC console.

The Smartphone or Tablet is the solution to such challenges.

BM FlexCheck

Available for both Windows and Android OS smartphones and tablets

Additional Load Simulation Options

In some applications it is not sufficient to lift the roller bed and then the BM18200 can optionally be fitted with the following additional load simulation systems.

BM CLS type A or D

The BM18200 can be supplied with a Chassis Load Simulation, CLS, system consisting of either cassettes mounted in the C-tracks on the pit edges or consisting of skates mounted on I-steel tracks in the pit floor. Each cassette or skate is fitted with a 5 ton hydraulic cylinder, which pulls down the chassis or axle to simulate the load.

Alternatively, the BM18200 can be supplied with passive cassettes or skates, where the chassis or axle is simply attached via slings and the load simulation is obtained by lifting the BM18200 roller bed.

BM74000

Alternative to "pull down" from the pit the BM18200 can be supplied with the unique BM74000 load simulator, where the load simulation is added directly from top down on the vehicle.

CLS pit wall mounting

CLS pit floor mounting

CLS applied to chassis from top-down

Technical Data

BM18200 DESCRIPTION		
Roller bed per side	L x W x H	1245 x 758 x 700 mm
Subframe for split bed installation	L x W x H	1215 x 1120 x 150 mm
Lifting frame for split bed installation	L x W x H	1262 x 1000 x 635 mm
Roller diameter		208 mm
Roller length		1000 mm
Friction coefficient of roller from factory	dry/wet	Min 0.7/0.6
Wheel span (can be customised)		850 to 2850/3350/4050 mm
Distance between roller centres		450 mm
Maximum test axle weight		16000 kg / 20000 kg
Gear motor size		11/15 kW
Max brake force measurement		4000/6000 daN
Test speed		2.3 km/h
Lifting height		255 mm
Lifting capacity		16 Ton
Display	L x W x H	930 x 820 x 100 mm
Control box	L x W x H	760 x 600 x 210 mm
Display brake force scale		0 - 800 daN 0 - 4000 daN
Brake force measuring accuracy		0 – 100 daN : ± 2 daN > 100 daN: ± 2 % FS
Pedal force measurement accuracy		0 – 100 daN : ± 1 daN
Operating temperature		-15°C to + 50°C
Power and fuses		3 x 400 Vac + N + PE Minimum 50/80 Amp 3 x 230 Vac + PE Minimum 80/125 Amp

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