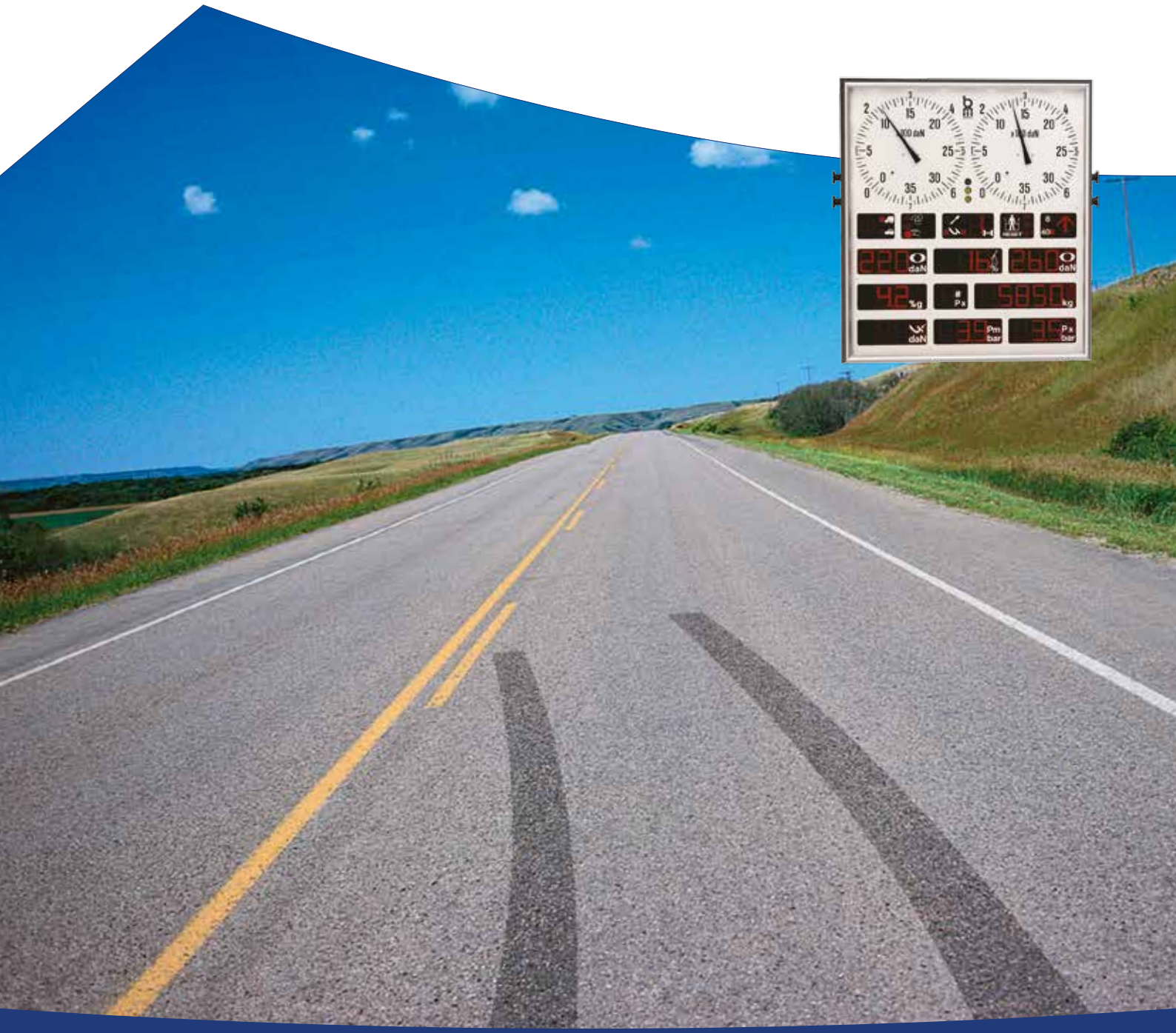
HIGH QUALITY
VEHICLE TEST EQUIPMENT

BM TEST EQUIPMENT
- the safe choice



Professional solutions for

Vehicle Inspection Centers and Roadside Enforcement

Worldwide supplier of Mobile Vehicle Inspection Test Equipment

BM Autoteknik A/S supplies efficient test equipment solutions for road side enforcement. From simple Mobile Brake Tester solutions to complete mobile vehicle inspection inside a 20' Container including Mobile brake tester, Suspension tester, Combined Emission tester, Head Light tester, Vehicle Inspection IT system based on PDA units, Generator and Tool boxes.

BM TEST EQUIPMENT
- the safe choice

- Cost effective solution for both Vehicle Inspection Companies and Repair Workshops.
- Innovative solutions developed according to the customer´s requirements.
- Test Equipment for road site inspection of all types of vehicles ie. car, bus, truck and trailers etc.

BM Autoteknik - Dealers Worldwide

Kazakhstan

US Army
Afghanistan

Kenya

Australia

VTNZ - New Zealand

LITHUANIA

BM vehicle inspection equipment and technology is chosen by the Vehicle Inspection TUVLITA

After 2 years of research and development, BM vehicle inspection equipment and technology was chosen by the Vehicle Inspection TUVLITA, in Lithuania.

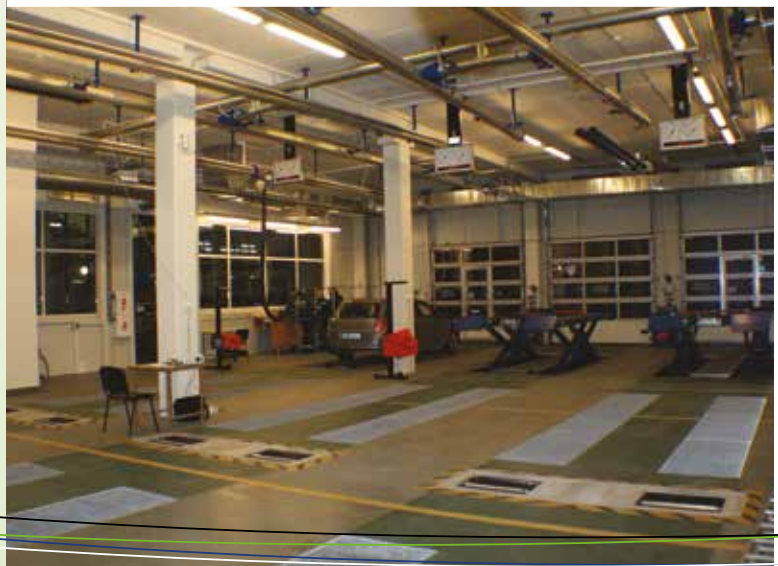
BM supplies brake testers, suspension testers, play detectors and BM FlexCheck to new inspection lanes, and for upgrading existing inspection lanes.

The BM FlexCheck is linked wirelessly, via Bluetooth technology, to the BM brake testers as well as to Emission and Head Light Test equipment made by other companies than BM.

The Visual Inspection is fully conducted by handheld BM PDA units, and all data is gathered and processed by the BM FlexCheck Windows program.

Up to 10 vehicle inspectors can log on to the system with their handheld PDA units and test vehicles simultaneously. The BM FlexCheck allows TUVLITA to test 3 vehicles at a time on each lane, fully utilizing their drive through design. With a test time of 30 minutes, and the inspector not having to return to an office, of PC to finalize the test, as the test is fully conducted from the handheld PDA, a potential turnover of 18 tests an hour is viable from only 3 lanes.

"Only one BM FlexCheck client controls the three vehicle inspection lanes with high through put rate of vehicles."



LITHUANIA

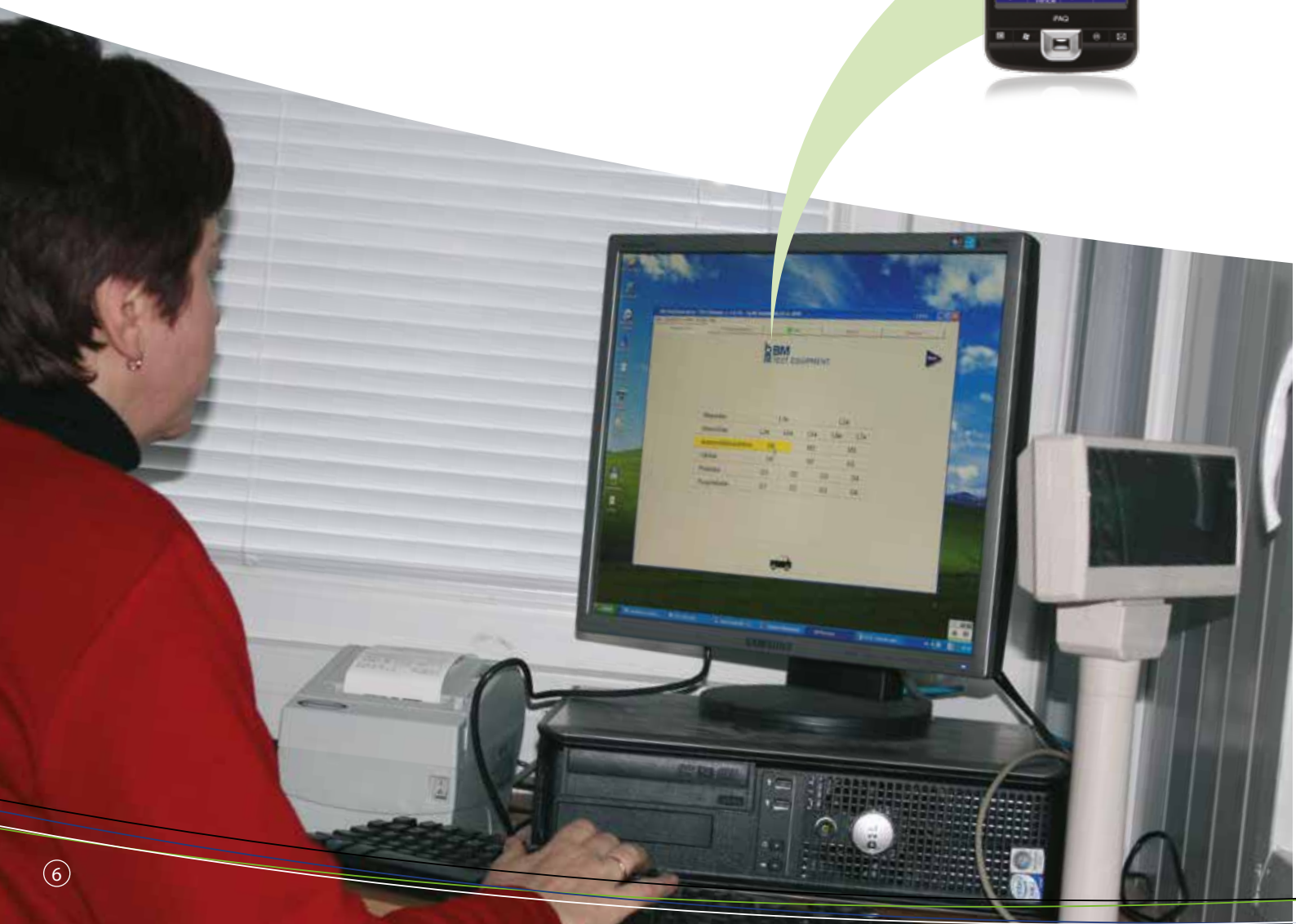
BM vehicle inspection equipment and technology is chosen by the Vehicle Inspection TUVLITA

TUVLITA is running an ERP system called TAIS; this is a client- server program holding all information of the vehicle inspection company including all vehicle registration data. Being an ERP system, TAIS provides facilities for invoicing, accounts, HRM, etc. and the general business management of the company's activities are done via TAIS.

BM FlexCheck is fully integrated with TAIS using Web services for two-way communication. The web service ensures that all vehicle data and all vehicle inspection data are exchanged live and fluently between the two programs.

The BM FlexCheck Servers are placed in reception booths, that are located in front of the vehicle inspection building. In these booths, the BM FlexCheck Server allows a receptionist to register vehicles for inspection; data is automatically sent to TAIS and the BM FlexCheck Client in the inspection building. From BM FlexCheck, the data is sent to the handheld PDA units when required by the Vehicle Inspector.

A list of the registered vehicles is automatically sent to the handheld PDA units.



Key Success objectives

The most important drivers behind the decision of introducing automated vehicle inspection lanes using BM FlexCheck were:

1. Speed of inspection

The lanes are high through-put lanes, with full capacity utilization up to 16 hours a day. The implementation of BM FlexCheck ensured that the inspection time for each vehicle was reduced.

2. Quality Assurance of inspection

BM FlexCheck met the requirement, that the quality and consistency of each vehicle inspection should be increased.

3. Easy and transparent to use

Due to a job rotation policy, many new inspectors would be working in the stations over period of time. The BM FlexCheck needed therefore to be easy and transparent to use, to avoid expensive re-training. BM FlexCheck met this requirement and has also proven itself to be efficient, when new staff are employed.

4. Make and model flexibility

The IT system should be able to work with different Makes and Models of test equipment. It was an important commercial and financial objective that BM FlexCheck interoperates with several different make and model of test equipment. This allowed TUVLITA to utilize already purchased test equipment together with BM FlexCheck, and it was also considered an important strength, when TUVLITA purchased new equipment.

ENGLAND

BM Autoteknik is VOSA's testing equipment supplier

In July 2006 the Vehicle & Operator Services Agency (VOSA) awarded BM Autoteknik A/S the contract to supply Vehicle Testing Equipment, and Vehicle Inspection Pits at all of the VOSA Goods Vehicle Testing Stations throughout the UK.

VOSA selected the BM14200 Roller Brake Tester with extra large wheel span from 800 mm to 3300 mm.

The BM14200:

- can perform brake test on Passenger Cars, Lorries, Bus, Coaches, Trucks and Trailers.
- can test each wheel up to 5500 kgf and this way designed to test axles of 20 Ton to more than 50 % brake efficiency.
- is fully computerised with the Windows based software BM FlexCheck RBT.

The VOSA operator is controlling the BM14200 from touch screen or optionally PDA units featuring both a remote control and displaying all brake test readings.

The BM FlexCheck RBT software is modular and prepared for handling and collecting all inspection data in the test lane including:

- Emission data
- Head light test data
- Visual inspection data using PDA units
- Other equipment.

BM is supplying VOSA with a unique 10 Ton Push-down load simulator, BM74000. The Load Simulator is electrical driven and the load application is controlled by an integrated computer unit. The load is applied by placing a steel "locking pin" between the BM74000 Load Simulator and tracks, which are concreted into the floor close to the brake tester.

The key advantages of using BM74000 Load Simulator is:

- All operation takes place above ground, so BM12200 brake tester does not need to be placed over an inspection pit.
- The Load Sensing Valve of the vehicle is automatically, correctly and safely activated and deactivated after the brake test.

BM is supplying VOSA with Emission test equipment.

BM is supplying VOSA with BM53000 hydraulic Wheel Play Detector.

The BM53000 is radio remote controlled.

NEW ZEALAND

New innovative load simulation solution for roller brake testers

Why use Load Simulation at Vehicle Inspection?

Today's complex commercial vehicle brake systems performance often varies greatly between un-laden to laden conditions. Government legislation often requires that the Roadworthiness assessment shall be conducted at 'worst case' situation during a brake system performance test. This is usually fully or partially laden.

Brake testing a vehicle in a laden condition introduces many difficult issues: Fleet owners find it expensive and sometimes impossible to present vehicles laden. Laden vehicles represent an increased H&S risk to the Inspectors. Laden vehicles increases significantly the load capacity of the building (floor) and other test equipment such as the inspection pit jacks.

Some countries Government Authorities have solved the issue by allowing the vehicle to be presented un-laden and then measuring both the brake forces and the brake cylinder air pressure simultaneously. Based on these two values, an extrapolation of brake forces estimates the brake performance in full laden conditions. However, this method introduces a number of issues including problems when the vehicle does not have accessible connection points for the air pressure measurement, and that extrapolation values can be inaccurate compared to the real performance when vehicle is laden.

"Fleet owners find it expensive and sometimes impossible to present vehicles laden at period vehicle inspection"

Conventional Load Simulation Solutions

Equipment suppliers have for many years offered two different types of load simulation systems. The problem with these conventional load simulation systems can be twofold: The "roller bed lifting principle" does not always allow for sufficient load and The "Axle Simulation" system does not open the vehicles Load Sensing Valve and therefore brake forces do not increase during the brake test. Additionally the Axle Load Simulation system is slow to use, as slings needs to be attached to, and then removed from each axle.

The new solution: Load via the Chassis

BM Autoteknik has developed a Chassis Load Simulation System, BM CLS, which addresses the above issues and is designed to work effectively and efficiently in a vehicle inspection environment:

The BM CLS consists of up to eight cassettes, which are fitted in pairs on rails each side of the inspection pit. Each cassette has a hydraulic cylinder fitted with a load capacity of 5000 kg. The BM CLS can be installed with a load capacity from 10.000 kg to 40.000 kg, ensuring sufficient load for all vehicles tested.

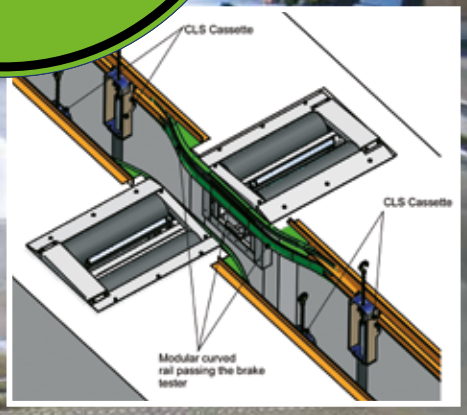
The hydraulic cylinder of the CLS system is connected to the chassis via chains and special designed "Clamps". The clamps can be fitted to most chassis frames and uses a "cam" effect to 'lock on' when load is applied. In the rare event that the clamps cannot be fitted to chassis, hooks or slings can be used.

BM TEST EQUIPMENT
- the safe choice

The Government transport Authority for New Zealand, Land Transport New Zealand, has introduced new legislation for 2009, requiring a laden brake test to be carried out on most commercial vehicles.

Due to the smart design of the BM CLS system the clamps only need to be fitted to the chassis ONCE during the entire vehicle test. When an axle is tested, the inspector releases the load simulation from his remote control unit and drives forward. A special "curved" rail is fitted in between the left and right roller brake field. The cassettes will automatically follow the vehicle along the test lane down the low resistance rail system. When next axle is in place on the roller brake tester, the Inspector uses the remote control to reactivate the hydraulic cylinders.

A normal installation will have 3 meters rail before and after the brake tester, which allow the Inspector to fit the CLS clamps to the chassis at most appropriate points. The BM CLS cassettes are installed at the top of the inspection pit and the BM CLS does not represent any H&S trip hazard to the Inspector, and does not impede his movement around the inspection pit.



BM CLS was selected by VTNZ in New Zealand

The Government transport Authority for New Zealand, Land Transport New Zealand, has introduced new legislation for 2009, requiring a laden brake test to be carried out on most commercial vehicles. New Zealand's premier testing network, Vehicle Testing New Zealand (VTNZ) has overcome the difficulties that this legislation has introduced by investing in the BM CLS System. VTNZ's Heavy Vehicle test Station network is to be upgraded during 2008.

SWITZERLAND

Vehicle Inspection in Switzerland, using the BM Chassis Loading System

Vehicle inspections in Switzerland are carried out by cantonal official test stations –known locally as "Strassenverkehrsamt" or "MFK – Motorfahrzeug Kontrolle".

The EU Council Directive 96/96/EC the ASA (federal) in 2003 prescribed 'that from 2004 commercial vehicle brake testing has to be carried out under "laden" conditions'; usually a vehicle is loaded to a minimum of 80 % of the designed maximum vehicle weight.

For simplicity and convenience, the Swiss authorities allow commercial vehicles to show up for official vehicle inspections in an unladen condition if test protocols from approved workshops are submitted for the vehicle. For quick and easy preparation of these laden/unladen condition protocols, the workshops use Load-Simulators.

For verification of these protocols, checking vehicle classes under laden conditions, and advisory brake testing, the MFK/StVA increasingly use BM brake testers combined with the BM CLS system.

The first CLS system in a Swiss official test centre was MFK Camorino TI, other VI stations using BM load simulation are: StVA Thurgau, Oberbüren, Luzern, Zug, Jura Develier; optionally the authorities use the CH-Military VI-stations, so called AMPs, as these also provide BM load simulation.

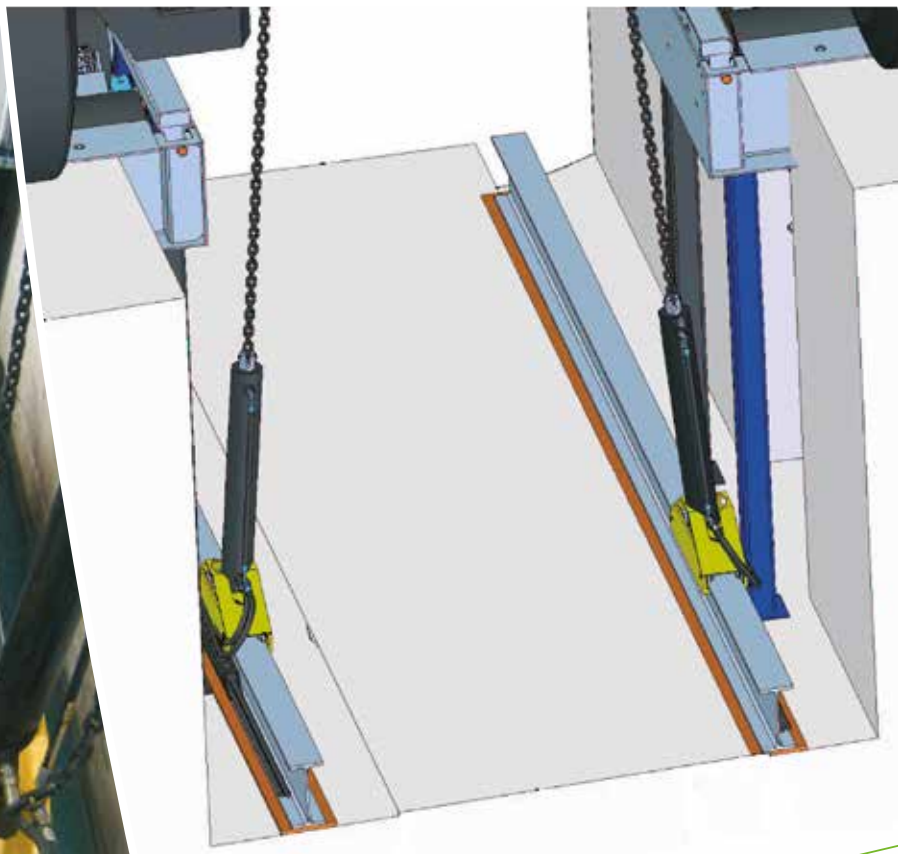
"Estimated savings of up to 10 minutes per inspection can be made using BM CLS, when compared to conventional loading"

BM TEST EQUIPMENT
- the safe choice

Convenience and safety were important factors for the Vehicle inspectorate in Switzerland choosing BM CLS. The pit wall mounted BM CLS cassettes are convenient and easy to use, allowing free passage throughout the entire inspection pit. The highest standard pit safety devices protect the vehicle inspectors.

BM CLS used in Switzerland are normally 30 ton systems, made up of six individual BM CLS Cassettes. All installations are made using a “curved rail” around the BM brake tester, so the CLS cassettes automatically follow the vehicle when it moves forward to test the next axle. The operator only enters the inspection pit twice: Once to fit the CLS and once to remove the BM CLS, after all axles have been brake tested.

The BM CLS system is modular and scalable; 50 ton upgraded systems (five pairs of cassettes) allows testing of 5-axle tippers (dump trucks).



DENMARK

BM supports project for brake testing agricultural vehicles

Together with the Danish Police, the Road Transport Authorities, and the Agricultural Association of Denmark, BM Autoteknik A/S has been supporting a project of investigating the quality of brakes on agricultural vehicles in Denmark.

BM's contribution has been to develop a special Agriculture-Vehicle version of the BM20200 mobile brake tester. This innovative design includes wider rollers to accommodate the large wheel sizes of agricultural vehicles as well as special data processing software to ensure consistent measurement values. These modifications has then been verified and validated through a large number of practical tests done together with the Danish Police, the Road Transport Authorities, and the Agricultural Association of Denmark. Finally a special test report has been developed in order to present test results in a meaningful way for both inspection purposes as well as for the agriculture vehicle owners.

The stake holders have then used this BM20200 together with our BM25 SmartTest at special seminars, where the industry voluntarily has presented some of their agricultural vehicles for brake tests. At one of these seminars, only two of the 25 vehicles that were tested on the specially built BM20200 brake tester, could meet the Danish minimum requirements!

Terrifying conditions

The fully laden conditions of many agricultural vehicles is today terrifying. During the seminars weights of up to 54 Ton were presented (maximum legal weight is 44 Ton). The best service brake performance measured was only 30 %, the worst being 7 %! This is insufficent for several reasons:

- **Brake application is dangerous.**
  Stopping distances become excessively long and the heavy towed vehicle can push the tractor out of its course - creating dangerous situations.
- **The tractor brakes will wear out prematurely.**
  As they are excessively loaded they become overheated and quickly deteriorate. Repairing tractor brakes is very expensive - it is much cheaper to maintain the trailer brakes instead.
- **The vehicle is instantly impounded when the Danish Police discovers vehicles with such brake problems.**
  The vehicle then has to be emptied and towed to a workshop which is very expensive for the owner, who additionally suffers the hardship of not having his agricultural vehicle until the faults are rectified.
- **The driver risks losing his driving license**
  if the brakes are in an excessively poor condition (under Danish law).
- **The legal penalties in Denmark are very high.**
  Often the driver and owner will have to appear in court.

Better safety and substantial repair cost savings

The agricultural industry continuously requests increases in the maximum permissible agricultural vehicle load and speed. The Danish authorities, however, will not allow for this, and has instead increased their enforcement checks for brake problems via road side inspections. Police statistic report that approx. 80 % of agricultural vehicles tested do not meet minimum legal requirements.

The Danish agricultural industry has, therefore, realized that they need to quickly become proactive in improving the brake performance, and maintenance service programs of these vehicles just in order to maintain status quo. The industry has, therefore, welcomed and acknowledged that there is now a brake tester that can actually test their vehicle's brakes and thus contributes to not only better safety on the roads but also substantial repair cost savings.

Recent European guidelines now requires that all EU countries implement testing of previously exempt acgricultural vehicles.

BM TEST EQUIPMENT
- the safe choice

Vehicle inspection software based on PDA units and wireless communication

BM FlexCheck is a proven and "off the shelf" IT system for the Vehicle Inspection business. BM FlexCheck is designed to collect all data from the vehicle inspection process and gather this data in central databases for further processing.

BM FlexCheck includes two principle features:

1. Collecting and processing of vehicle inspection data.
2. Data exchange and integration between Inspection Centers and 3rd Party Databases.

1. Collecting and processing of vehicle inspection data:

- BM FlexCheck is designed for test of all types of vehicles.
- BM FlexCheck is an IT system designed for collecting all inspection data from a periodic vehicle inspection.
- Data from Electronic Test Equipment is automatically captured and stored on the Lane PC.
- Data from the visual inspection is manually entered into handheld PDA units and then automatically sent and stored on the Lane PC.
- The Operator prints the inspection report from the Lane PC including automatic PASS/FAIL evaluation on all inspection data. PASS/FAIL criteria follows national rules and legislation.

A key feature of BM FlexCheck is that different make and model of Electronic Test Equipment can be connected to BM FlexCheck via Bluetooth. This feature opens up for a number of important advantages:

- The vehicle inspection company will always have a choice, when purchasing such Electronic Test Equipment, which effectively will ensure competitive purchase prices now and in the future.
- In case the vehicle inspection company has already purchased Electronic Test Equipment, then BM FlexCheck can most likely be connected and ensure, that additional and unnecessary capital investment is avoided.

As the BM FlexCheck is based on a wireless design between computers and Electronic Test Equipment additional cost savings are obtained:

- The installation of BM FlexCheck does not require expensive cabling between the various products to the Lane PC. This is particularly an advantage, if for instance the Emission equipment is installed outdoor due to Health and Safety regulations.
- Virtual inspection lanes can easily be implemented, where several lanes share only one Electronic Test Equipment. An example of a virtual lane is where two or three lanes share one Brake tester, one Emission tester, one Suspension tester and one Headlight tester, but each lane is equipped with separate vehicle lift.

Each station is organized with one BM FlexCheck Station Server program (usually installed on a PC in the stations' Position of Sales) and one or more BM FlexCheck Client programs (installed on PCs in the production area).

One BM FlexCheck Client can service up to three (3) inspection lanes in the production area, which minimizes the need for multiple PC units in this area of the inspection center. The BM FlexCheck Client communicates with the operators via handheld PDA units. One BM FlexCheck Client can service up to twelve (12) operators simultaneously.

2. Data exchange and integration between Inspection Centers and 3rd Party Databases:

The design of BM FlexCheck provides an all-in-one network solution. All vehicle inspection centers are linked via the BM FlexCheck Nation Database, which holds all vehicle- and inspection stations of the network.

The BM FlexCheck Nation Database ensures, that an inspection result from one station can be downloaded from another station. The feature is often used to offer customers a retest.

Equally important, the BM FlexCheck IT system is designed to work in close integration with 3rd Party Databases, such as government controlled vehicle databases and ERP systems of the vehicle inspection company.

All communication outside the actual vehicle inspection station is done via the Internet using Web services. Due to a replication of database on all BM FlexCheck versions in the architecture, BM FlexCheck ensures that vehicle inspection production can continue even if the Internet is temporarily down.

The BM FlexCheck IT system also offers Website booking, which can be integrated with the existing website of the vehicle inspection company.

Additional an advanced BM FlexCheck module can be added, which allows for in-depth Statistic and Data-mining of the databases. This tool offers profound benefits to the top management of the vehicle inspection company by converting the inspection information into important and operational knowledge.

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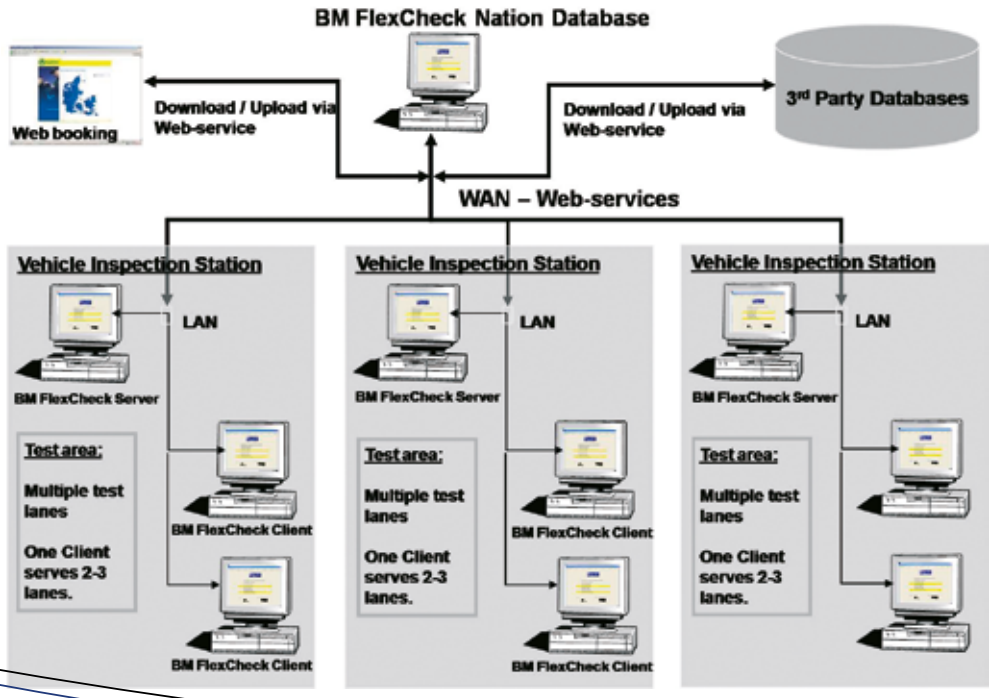
BM FlexCheck Architecture



Key Benefits

of BM FlexCheck Vehicle Inspection IT system

Nationwide network concept:
BM FlexCheck allows interconnection of multiple vehicle inspection stations to a nationwide network. All inspection data is gathered and stored by BM FlexCheck Nation Server. Communication between stations and the BM FlexCheck Nation server is performed over the Internet using web services.

Linking to government databases:
BM FlexCheck can exchange data with government databases. Vehicle data and inspection results are transmitted via web services.

Booking:
BM FlexCheck includes an advanced Internet based booking module. Internet bookings are sent directly to your selected station, and then to the inspectors handheld PDA unit. The booking module allows for customization of your products, prices and capacity for each of your vehicle inspection stations.

Drive in:
For your Drive-in customers, your vehicle inspector can register the license plate directly on his handheld PDA unit and continue with the vehicle inspection. When the inspection is complete, additional vehicle information can be added via the PC keyboard before printout and final storage of data.

Connection to equipment of different make and model:
Test equipment from different manufactures can be connected wirelessly to BM FlexCheck if a small Bluetooth unit is connected to each piece of equipment. After the test is completed, the test result is sent from the equipment to the BM FlexCheck IT system. Connected equipment includes: Diesel smoke meters, exhaust gas analyzers and headlamp testers.

Maintenance and updates:
BM FlexCheck Manager is a secure area, where you can maintain all visual inspection points (add/edit/delete). Updating can be centralized at head office with all stations automatically updated via the 'BM Live Update' feature over the internet. BM FlexCheck Windows program and BM FlexCheck PDA software also update via 'BM Live Update'. This automatic maintenance and update feature ensures consistency at all times between your vehicle testing stations.

Automatic PASS/FAIL:
BM FlexCheck Manager contains the pass/fail criteria for all inspection points and electronic data. If regulations change, these criteria can be modified from central point and the whole network updated via BM Live Update. BM FlexCheck can automatically generate a complete pass/fail assessment of the vehicle inspection that is then added to the printout.

Flexible lane design and layout:
BM FlexCheck allows for a large variation in lane design and layout. Including multiple lanes sharing test equipment, stations with equipment and testing indoors and outdoors, stations where one inspector completes the entire vehicle test, or stations where multiple staff test one vehicle. Up to 10 testers are able to input data simultaneously either to one vehicle or multiple vehicles.

Production reliability:
The database and dataflow of BM FlexCheck is based on 'replication'. If the Internet connection breaks down, then production can continue. The vehicle inspection data is buffered by BM FlexCheck and forwarded to the BM FlexCheck Nation server and government database after the Internet connection is re-established.

Quality assurance:
In BM FlexCheck Manager, references to legislation and guide lines for inspection can be added to each inspection point. If the operator is unsure while inspecting a specific item on the vehicle, he can access the legislation or guide reference via his handheld PDA.

BM80000
- A new innovative solution

A Cost effective Mobile Vehicle Inspection Lane for testing Light Vehicles.

The BM80000 mobile inspection lane is for testing Light vehicles; and can be manufactured to include one or more of following features:

- The A-frame based transportable flatbed with hardtop cover.
- Brake tester
- Vehicle Lift with Wheel Play Detector
- Headlight tester
- Emission tester (Smoke and gas)
- BM FlexCheck Vehicle Inspection IT system
- Camera for photos of the vehicle being inspected.
- Tool box for handheld vehicle inspection tools
- Operator's desk for Paper work
- Cabin roof light
- PC tough book and Operator PDA units

The BM80000 is self-contained and requires only a 16 Amp power supply

Transport of the BM80000

Transport of the BM80000 mobile lane requires a vehicle, which is designed to load what is commonly known as "A-frames". Such vehicles are often used in the waste management industry and in other transport industries, for example containers. The transport vehicle can either be purchased or hired, when the lane is to be moved to a new location.

Off loading and setting up the BM80000

The BM80000 is off loaded by the truck, as if the cargo was a container. Two people can prepare the BM80000 for use within 10 – 15 minutes:

1. The hardcover is lifted into its operational position using hydraulics.
2. The roller brake tester and drive on ramps are unfolded using hydraulics.
3. The extension platforms for the headlight tester rails are unfolded manually.
4. The 16 Amp power supply is easily connected. Power can be sourced from a generator or building supply (not included).

1

2

3

4

Type of vehicles for testing

The BM80000 is designed to test Light vehicles including small service vans.

The brake tester can be supplied for axle loads up to 4 Ton. The brake test readings are shown on the physical display placed at the end of the BM80000.

The BM80000 can be supplied with various makes and models of vehicle scissor lift.

The vehicle lift can also be supplied with pneumatic wheel play detectors.

The design of the BM80000 ensures that the vehicle can be lifted to full height, so the VI operator can conduct a professional inspection from the side and underneath the vehicle.

The vehicle lift can be supplied to different specifications; optional features include a pneumatic controlled pit jack.

BM80000
- A new innovative solution

Head Light Test

The BM80000 can be supplied with a various makes and models of Head Light Tester.

The BM80000 has extension platforms for the Head Light Tester rails, for both left and right side. The extension platforms allow the VI Operator to move the Head Light Tester aside in either direction, clearing the space around the front of the vehicle when the Head Light Tester is not in use.

Emission tester

The BM80000 can be supplied with a various makes and models of Emission Tester. For reasons of space, a Combined Emission Tester that includes both Diesel Smoke Meter and Emission Gas Analyzer is preferred.

The unit is mounted on the rear wall of the vehicle inspection lane, and hoses are either integrated into the floor for easy access close to the exhaust pipe of the vehicle, or the complete Emission tester is moved closer to the exhaust pipe.

Office environment

An office desk is placed at the end of the BM80000 inspection lane, to be used for finalizing the paperwork of the inspection.

The BM80000 can be fully equipped with BM FlexCheck IT vehicle inspection system. The Windows program, BM FlexCheck, is installed on a Tough-book that is placed on the office desk.
The office desk contains an integrated printer that prints the full vehicle inspection report.

One of many options of BM FlexCheck is an integrated camera solution, where a photo of the vehicle and license plate is automatically taken. The photo is saved with the inspection data and printed on the inspection report.

Other practical features

The BM80000 unit has integrated cabin light, and together with the integrated vehicle lift lamps, vehicle inspections can be performed at night.

The hardtop of the BM80000 has a wing design that provides shade to the VI Operator from the sun and light rain.

The design suggests use in a number of applications:

1. The BM80000 mobile inspection lane can be used to conduct vehicle inspection at the premises of large fleet customers. This includes providing more specialized services such as testing and issuing, "vehicle test certificated" for 2nd hand cars, at the car dealers premises.

2. Subject to legislation, vehicle inspection can also be moved to location with high customer through put such as super markets and large mall areas.

3. Subject to legislation, a nationwide vehicle inspection network can be established without the high cost of land and buildings. In particular if a vehicle inspection organization cooperates with a nationwide vehicle repair chain then - with a fleet of BM80000 Inspection lanes - the nation can be covered by placing the BM80000 at the locations of the vehicle repair chain. With an effective booking system, such as the BM FlexCheck internet booking system, the BM80000 even allows for a much higher utilization rate, maximizing the return on investment. For example, the BM80000 unit can be placed at a certain location for only a few days a week, and then moved to the next location when required.

4. The BM80000 can be used to trial the business potential of a new area. When a vehicle inspection company wants to penetrate a new area, traditionally it has to conduct expensive and time consuming marketing research to assess the business potential and competitive situation. Based on this work, the inspection company will build a traditional inspection station and maybe find that the marketing research was proven wrong in practice. With BM80000 the vehicle inspection company can quickly and cost effectively test if it can successfully penetrate an area – and if not, move the BM80000 to another location without loss of high capital investments.

The BM80000 is new and innovative design with following key benefits:

1. Cost effective in terms of capital investment due to simplicity in design.

2. Cost effective means of transport, as the mean of transport can be hired, instead of being purchased.

Video: www.bmtest.dk

Business profile

Since the foundation of BM Autoteknik A/S in 1977, the company has developed and manufactured roller brake testers and test line systems for workshops and vehicle inspection bodies all over the world. BM employs more than 60 people located in Denmark, Germany and England. We consider our committed and motivated staff as being the most important factor for our international success.

BM trades internationally through a network of international distributors. Key staff of our partners are trained and certified by BM Autoteknik A/S in order to provide excellent service to the end-user in their individual markets. Please see www.bmtest.dk for BM international distributors.

BM Autoteknik A/S core business is development and manufacturing of quality test equipment for vehicle inspection including a complete supporting IT system, BM FlexCheck. Our product range includes roller brake testers, play detectors, suspension testers, speedometer testers, side slip and the vehicle inspection IT system, BM FlexCheck.

BM is internationally known to have one of the widest and deepest product ranges in the industry, including advanced mobile roller brake tester systems for both light and heavy vehicles.

BM AUTOTEKNIK A/S

- **Founded in 1977 – more than 30 years of expertise**
- **Family owned company**
- **In-house R&D, Manufacturing, QA, and Support**
- **Worldwide – Quality products on five continents**

Key References

1.	VOSA	England	Vehicle & Operator Services Agency
2.	VINZ	New Zealand	Vehicle Inspection
3.	VTNZ	New Zealand	Vehicle Testing
4.	ASB	Sweden	Vehicle Inspection
5.	Applus	Denmark	Vehicle Inspection
6.	A-Inspektion	Denmark	Vehicle Inspection
7.	GOCA	Belgium	Vehicle Inspection
8.	Strassenverkehrsamt	Switzerland	Vehicle Inspection
9.	Vehicle Inspection	Sudan	Vehicle Inspection
10.	Vägverket	Sweden	Vehicle Inspection
11.	Vegvesen	Norway	Vehicle Inspection
12.	TÜV	Lithuania	Vehicle Inspection
13.	Vehicle Inspection	Iceland	Vehicle Inspection
14.	Vehicle Inspection	Faeroe Island	Vehicle Inspection
15.	Vehicle Inspection	Ireland	Vehicle Inspection
16.	Applus	Spain	Vehicle Inspection
17.	ITV	Spain	Vehicle Inspection
18.	Vehicle Inspection	Mongolia	Vehicle Inspection
19.	Vehicle Inspection	Hong Kong	Electrical and Mechanical Services Department
20.	Armed Forces	USA	
21.	Armed Forces	Germany	
22.	Armed Forces	Switzerland	
23.	Armed Forces	Belgium	
24.	Armed Forces	Denmark	Navy and Royal Air Force
25.	Armed Forces	U.K.	Army and Royal Air Force United Kingdom
26.	Armed Forces	Sweden	
27.	Armed Forces	Norway	
28.	Armed Forces	Spain	
29.	Armed Forces	Ireland	
30.	Road Police		Sweden
31.	National Highway Research Center Ohio		USA
32.	Volvo research facilities in Gothenburg		Sweden
33.	Scania research facilities in Södertälje		Sweden
34.	Freightliner truck factory		USA
35.	Mack truck factory		USA
36.	Navistar truck factory		USA
37.	Schmitz trailer factory		Germany
38.	New Holland harvest factory		Belgium
39.	Technical Schools		Denmark
40.	KMB bus company		Hong Kong
41.	Volvo Bus manufacturing plant in Gothenburg		Sweden
42.	Volvo Bus manufacturing plant Teheran		Iran
43.	Volvo Bus manufacturing plant Mexico City		Mexico

HIGH QUALITY
VEHICLE TEST EQUIPMENT

BM TEST EQUIPMENT
- the safe choice

Business Profile

Since the foundation of BM Autoteknik A/S in 1977, the company has developed and manufactured roller brake testers and test line systems for workshops and vehicle inspection bodies all over the world. BM employs more than 60 people located in Denmark, Germany and England. We consider our committed and motivated staff as being the most important factor for our international success.

BM trades internationally through a network of international distributors. Key staff of our partners are trained and certified by BM Autoteknik A/S in order to provide excellent service to the end-user in their individual markets.

BM Autoteknik A/S core business is development and manufacturing of quality test equipment for vehicle inspection including a complete supporting IT system, BM FlexCheck. Our product range includes roller brake testers, play detectors, suspension testers, speedometer testers, side slip, headlight testers, emission testers and the vehicle inspection IT system, BM FlexCheck.

BM is internationally known to have one of the widest and deepest product ranges in the industry, including advanced mobile roller brake tester systems for both light and heavy vehicles.

Selection of our product range

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Visit us at www.bmtest.dk

...to find more info about BM Autoteknik A/S

Texts and photos may present optional equipment available at additional cost. All functionality, features, specifications and other product information provided in this document including, but not limited to, the benefits, design, pricing, components, performance, availability, and capabilities of the product are subject to change without notice or obligation.

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