BM TEST EQUIPMENT
- the safe choice

MOBILE VEHICLE INSPECTION LANE
- In 20' Container

- All included mobile vehicle inspection solution.
- Market leading low cost profile.
- Flexible selection of test equipment to suit exact application.
- Robustness with long lifetime and low maintenance cost.
- NEW: BM90 Container lifting system
- NEW: Inflatable pavilion for container

MOBILE VEHICLE INSPECTION LANE

BM81 Mobile Vehicle Inspection Lane

The BM81 is a mobile concept for periodic vehicle inspection. The system consists of a 20' container, which is internally modified with walls, electricity and IT connections as well as a small air conditioned office. Subject to selection of test equipment, the total weight of the container including test equipment is between 4.000 and 8.000 kg. The container meets international standards and is suitable for sea and land transport.

Transport frames are installed inside the container, which are used for loading and fixing the customer selected inspection equipment. All test equipment is supplied with wheels, so it can be loaded and off loaded easily by rolling it on special designed ramps, which are quickly placed in length of the transport frames in front of the container door.

The equipment can be off-loaded and made operational in less than 20 minutes

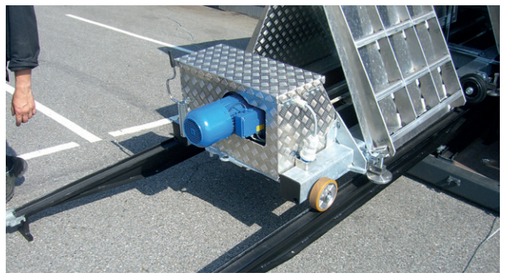
The BM81 is delivered with a purpose built office in the back of the container.

The office has a sliding door to minimise space requirement and inside you will find a small table for paperwork and where the PC and Printer can be placed.

The office has a full electrical installation with lights and power 230 VAC power plugs for the electrical equipment. The office is additionally equipped with a WiFi network, so the PC is wireless connected to all the vehicle test equipment. A LAN network is installed from the office and to the container door, so the PC can be moved to the door position, if requested.

The office is air-conditioned and has sufficient space for further custom build arrangement such as shelves, tool boxes etc.

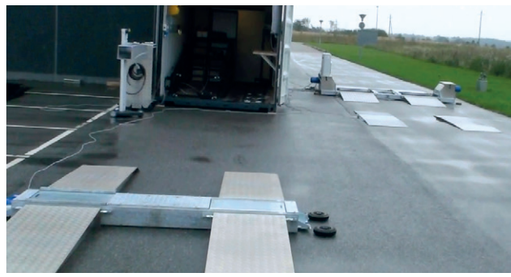
Equipment ready for off-loading.



All equipment is rolled out on rails.

Electrical winches are used for loading heavy equipment.

Equipment ready to be placed and connected.



Inspection lane ready for usage.

Equipment Included in the Container

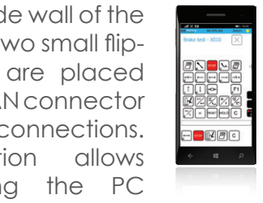
The system can be supplied with an optional generator on wheels, which is rolled out of the container and connected to the main power connector inside the container. All heavy equipment is loaded and off loaded by the use of electrical winches, which can be powered by the optional onboard battery package and are operational without startup of the generator.

You can choose from a long list of options, which allows defining a mobile inspection lane for light and/or heavy vehicles. The optional equipment list is including, but not limited to:

- BM20200 roller brake tester for light and heavy vehicles.
- BM3010 roller brake tester for light vehicles.
- BM53000 hydraulic wheel play detector for light and heavy vehicles.
- BM810 side slip meter for light vehicles.
- BM910 side slip meter for light and heavy vehicles.
- BM305 speedometer tester for light vehicles.
- BM605 speedometer tester for light and heavy vehicles.
- BM40010 suspension tester for light vehicles.
- BM3101 smoke/gas/combined emission tester.
- BM2100/BM2500/BM2600 headlight tester.
- BM FlexCheck IT system with Windows phone or tablet units.

Details

On the inside wall of the container two small flip-up tables are placed next to a LAN connector for PC connections. This solution allows for moving the PC management of vehicle inspection from the office to the opening of the container, where the operator will have a full view of the outside activities.



The BM81 can be supplied with a full version of the vehicle inspection IT system, BM FlexCheck. With BM FlexCheck all data is wirelessly collected by a handheld Windows phone or tablet, which is also used to control some of the test equipment and for entering defect visual inspection points.

Due to the design of the BM81 around a standard 20' container a number of transport solutions are available. The most common would be either a truck with swinglift or a truck with hooklift. In case of hooklift, the 20' container needs to be fitted with an A-frame.

The BM81 is supplied with a high efficient and robust 15 KVA petrol generator. The generator is less than 150 kg and it is mounted on a wheel-based trolley, so it can easily be rolled out of the container. In order to minimise noise impact on operation, the generator can be rolled far away from the testing area.

BM90 Container Lifting System

The BM90 container lifting system is a system developed for easier load and unload of a container on trucks. The system is powered by a built-in battery and a hydraulic power pack.

The system is operated by a remote control unit.

The hydraulic “legs” can be stored inside the container during sea transport and then easily mounted permanently on each corner before use. The container can be transported by truck with mounted “legs”.

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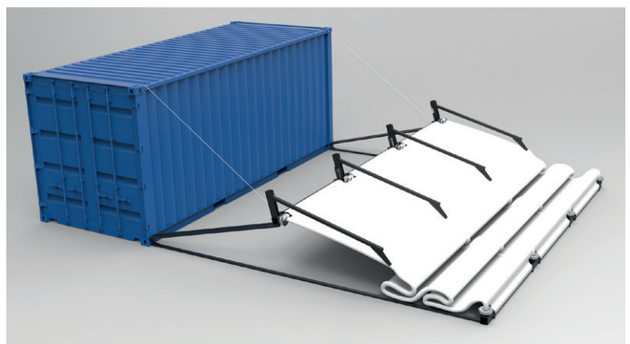
BM90 TECHNICAL DATA	
Working pressure	150 bar
Power supply	24VDC battery (incl. 220 VAC charger)
Max. lifting capacity each leg	4 T
Max. lifting capacity total	12 T
Lifting height	1300 mm
Time to lift to full height	app. 1 minute

CONTAINER LIFTING SYSTEM

Inflatable Pavilion for Container

BM has developed an inflatable pavilion solution that can be attached to a container. The solution can then be used for creating e.g.a roofed mobile test line.

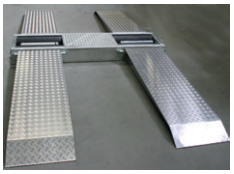


TECHNICAL DATA	
Length	6 m
Width	5.5 m
Height	5 m
Air pressure for inflating	2 - 2.5 bar

- the safe choice

Flexible Test Equipment Concept

The BM81 design and concept allows you to select the type of test equipment for the container to meet your exact requirements:



Mobile brake tester for light Vehicles

Mobile brake tester for light and heavy vehicles.

Mobile test line for light vehicles
(Brake tester, suspension tester and side slip tester)

Mobile test line for light and heavy vehicles.
(Brake tester and hydraulic wheel play detector)

Mobile speedometer tester for light and heavy vehicles

Mobile headlight tester and emission tester for light and heavy vehicles.

BM FlexCheck vehicle inspection system based on handheld Windows phone or tablet units.

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BM TEST EQUIPMENT

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