

BM65 PRE-FABRICATED STEEL PIT

- for Roller Brake Tester and Wheel Play Detector



- All-in-one galvanized steel inspection pit for Roller Brake Tester and Wheel Play detector with side stair-entrance and hydraulic aluminum cover.
- Fast, easy and cost-effective installation indoor or outdoor.



- Manufactured in hot galvanized steel and aluminum.
- Cable remote control of hydraulic aluminum cover.
- Hydraulic lift of inspection floor up to app 40 cm.
- Integrated sump-tank for easy management of waste and avoidance of connection to public sewer system.
- Installation of Brake tester and Wheel Play Detector.
- Stair side entrance.
- Installation directly on a sand-base without need for concreting.
- Optional side stair-entrance in either left or right side of pit for adaption to Left- respective Right hand drive or adaption to site space limitations.



Transport of BM65

The BM65 pit can be transported inside a 20' container from BM Autoteknik in Denmark to the customer's site. The BM65 is equipped with a transport roller mounted on the outside of the pit, which allows for rolling the steel pit in- and out of the container using for example a forklift:

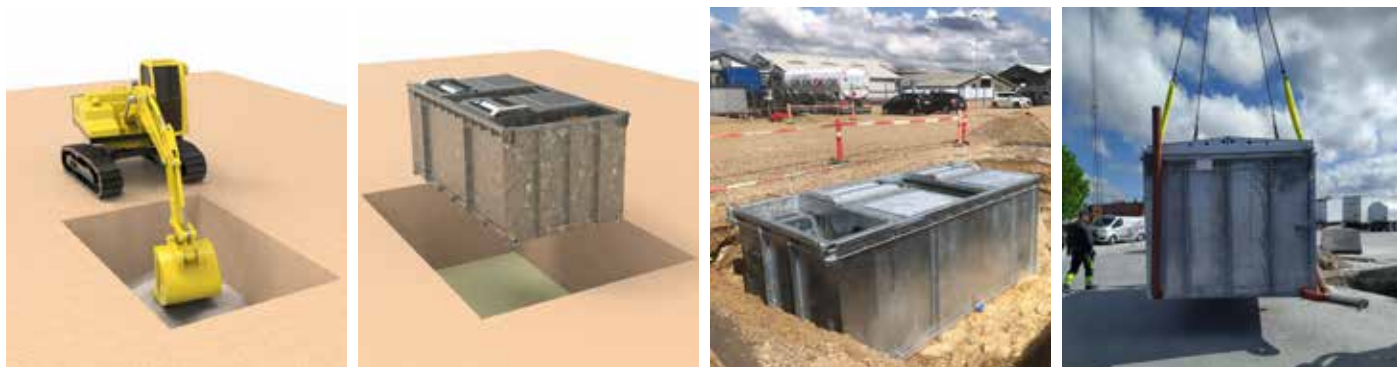


Alternatively, BM65 can be transport on a flatbed truck:

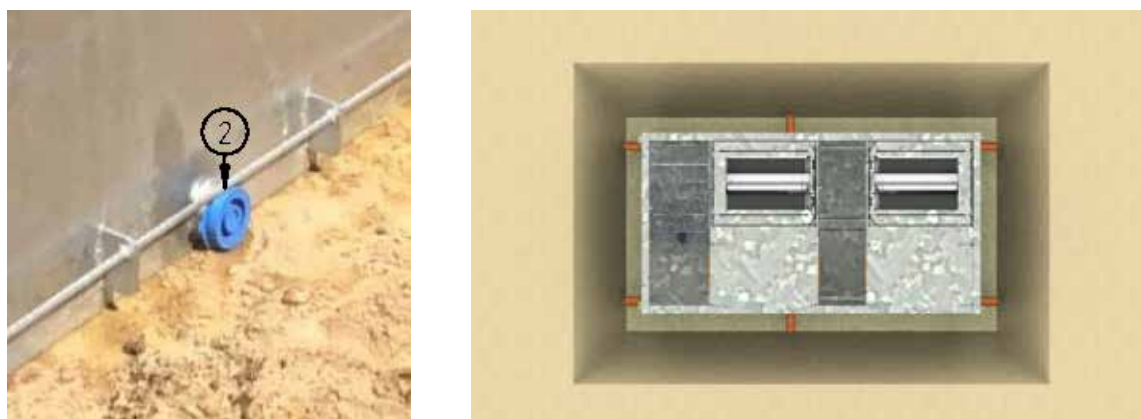


Prepare for installation

The BM65 is installed into a suitable hole and can be placed directly on a compact sand-base. Hereafter the hole is just filled up with sand without the need of concreting.



The BM65 is equipped with 6 x outlets in the bottom, which can be used for cable draw, ventilation, and/or sewer connection.



Integrated sewer solution

BM65 can be supplied with an integrated metal sewer sump with submersible pump. This option can eliminate the need for connection to the public sewer system and may remove the need for related authority approvals.

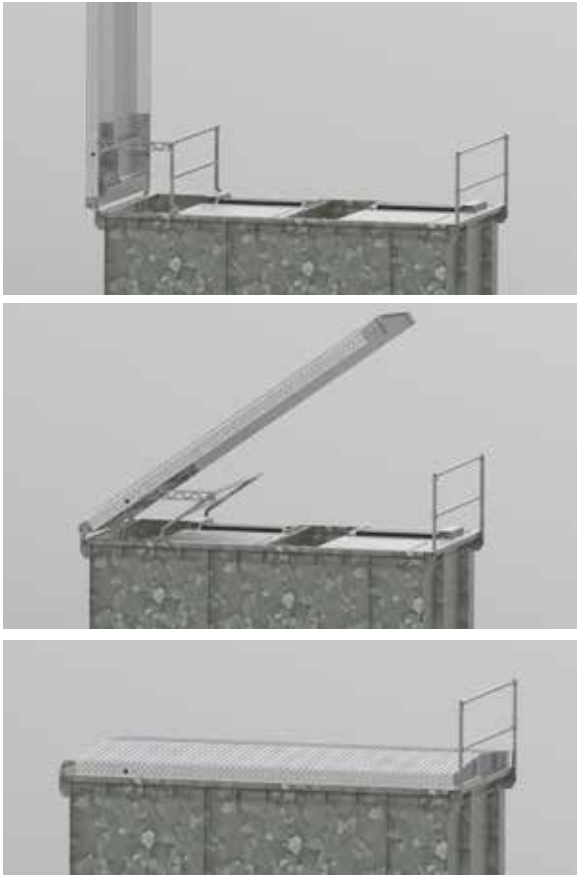


Safety rails

There are two different safety rail options for BM65:

Option 1

A safety rail supplied with the hydraulic cover, where part of the rail is folded under the cover when cover is closed:



Option 2

A safety rail installed when the BM65 steel pit is supplied without the cover where the safety rail is fixed:



Vertical movement of the inspection floor

The floor between left and right rollerbed can optionally be moved vertically up and down by using the handy remote-control unit. The floor is hydraulically controlled, and the vertical movement is up to 40 cm. The feature is often used when the Operator shall place load simulation slings around the axle but is also used to get a better visual when testing play on the axle using the play detector.



Hydraulic cover

The BM65 can be supplied with a hydraulic controlled cover built in aluminum and controlled via a robust cable remote control. The cable remote control is connected to the cover via a quick connector and can therefore easily be dis-connected and stored safely inside the building when not used.

The cover has an integrated safety mechanism, which ensures that only when the cover is fully opened and the spring-loaded safety-pin has been activated, the power to the test equipment, light etc is activated. This safety mechanism ensures for example that the brake tester cannot accidentally be started or the rollerbed lifted when the cover is not opened.



High tunnel clearance and slip safe floor

From the stairs the operator can walk through the Operator tunnel into the inspection pit area. The Operator tunnel has a floor clearance of

app 1600 mm and the floor is designed with a slip-safe rubber material:



Working light and heating system

The BM65 can optionally be supplied with strong working LED light inside the cover, which illuminate the working area and the vehicle from above.



Additionally, and optionally a strong working LED light system installed in the pit can be supplied:

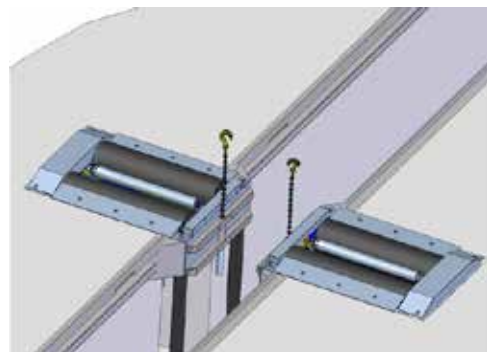


The BM65 can be supplied with a calendar/temperature-controlled heating system, which in wintertime melts snow and ice from the stairs, the rollers of the brake tester and the plates of the wheel play detector.

BM14200 and BM18200 Roller Brake Tester

Model BM14200 and BM18200 brake tester can be installed into the BM65 steel pit.

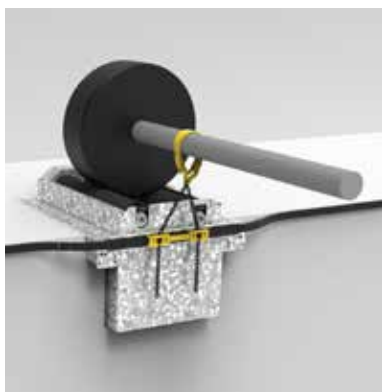
The **BM14200** is a conventional roller brake tester for test of axles up to 16 ton. The BM14200 can be supplied with a pull down axle load simulation system.



The **BM18200** is a unique roller brake tester for test of axles up to 16 ton. The BM18200 is supplied with a hydraulic controlled lift of the rollerbed for load simulation.



The lifting height is 255 mm and lifting power is 16 Ton. A unique axle tie-down system can be supplied with BM18200 brake tester:



Both BM14200 and BM18200 brake testers can be supplied with physical display, Windows software and/or Android Tablet solutions:

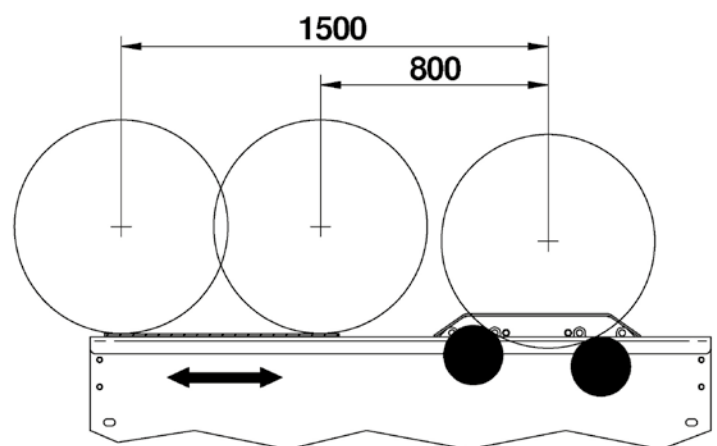


BM53000 Wheel Play Detector

Model BM53000 wheel play detector can be installed into the BM65 steel pit.

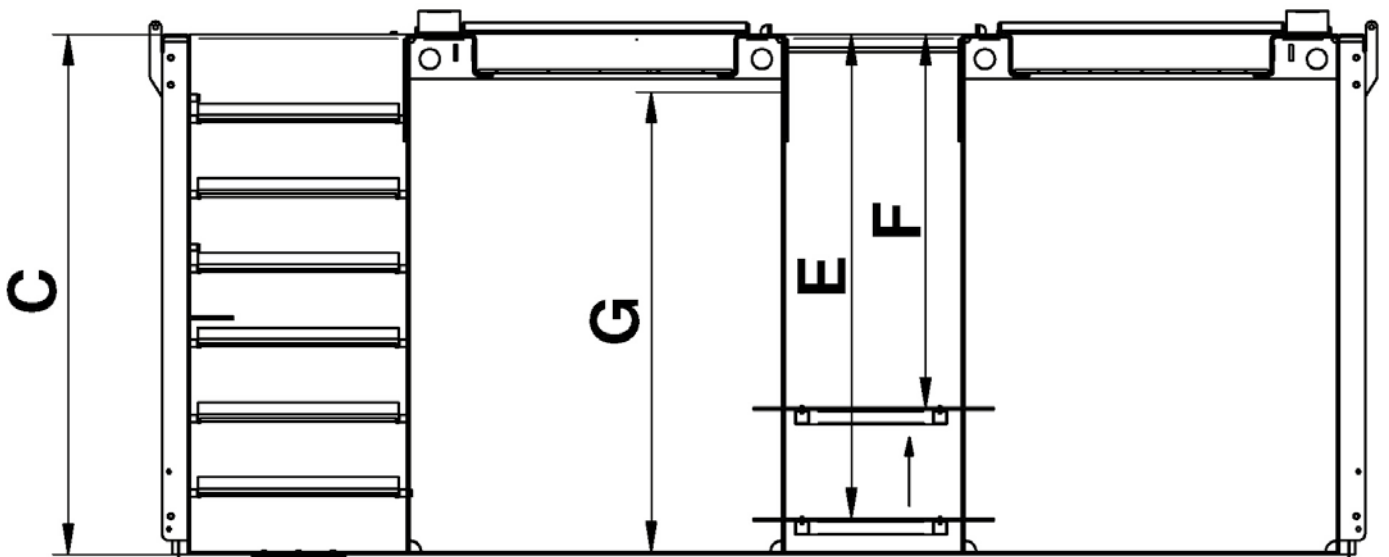
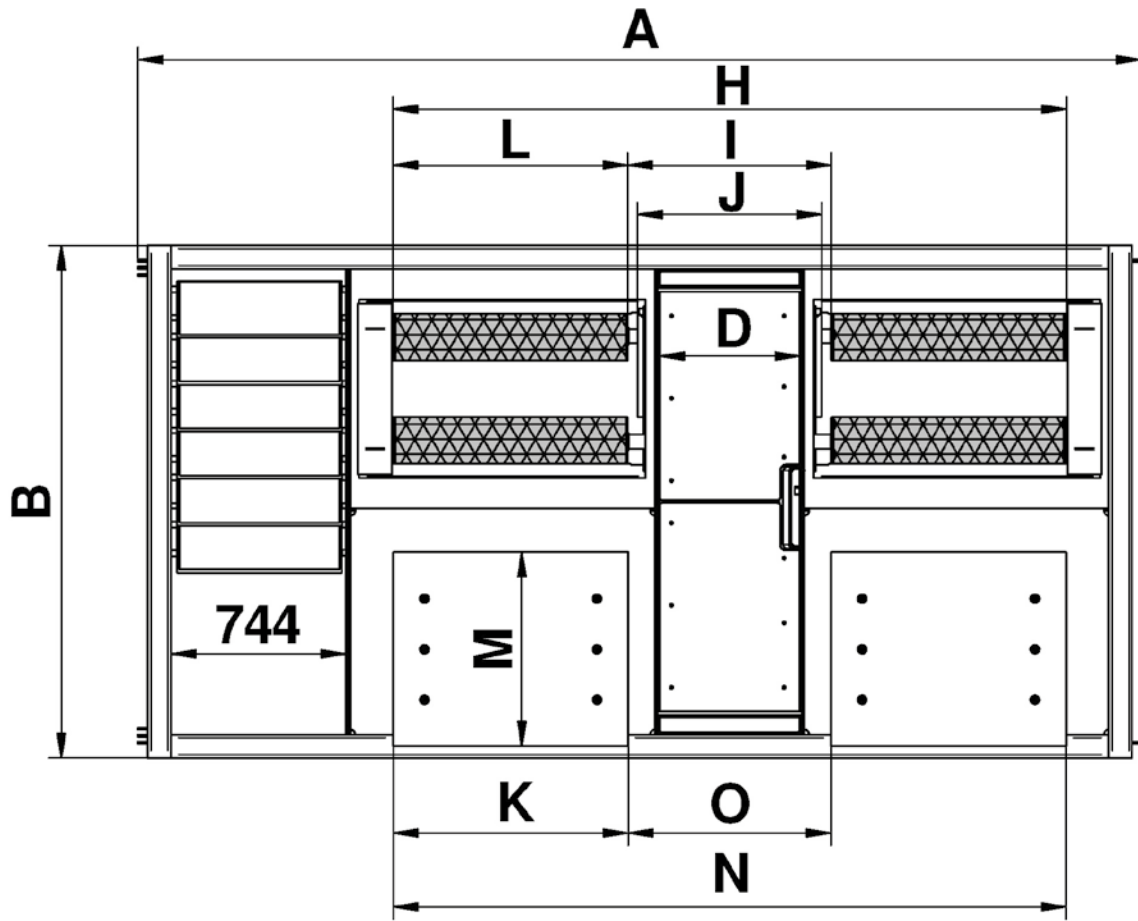
The BM53000 is a hydraulic controlled wheel play detector for wear test of axles up to 20 ton and operated via a robust remote control unit.

The large 1000 mm x 850 mm plate moves 100 mm in eight different direction and the plates auto-centralize after usage, so the wheel play detector is ready for test of the next axle.



With maximum axle distances as shown in the drawing, the operator can place axles on both the brake tester and the play detector and hereby conduct test of both before moving the vehicle forward.

Technical Data BM65 steel pit



SECTION A-A

- the safe choice

Technical Data BM65 steel pit

| TECHNICAL DATA BM65 STEEL PIT | | | DIMENSIONS FOR 1000 MM ROLLER LENGTH | DIMENSIONS FOR 1250 MM ROLLER LENGTH |
|----------------------------------|---|-----|--------------------------------------|--------------------------------------|
| Pit width | A | mm | 4270 | 4620 |
| Pit length | B | mm | 2180 | 2180 |
| Pit depth | C | mm | 1808 | 1808 |
| Approximate total weight | | Ton | 5,5 - 6 | 6 - 6,5 |
| Inspection pit width | D | mm | 600 | 450 |
| Inspection pit lift max depth | E | mm | 1700 | 1700 |
| Inspection pit lift min depth | F | mm | 1300 | 1300 |
| Operator tunnel ground clearance | G | mm | 1600 | 1600 |
| Brake tester max wheel track | H | mm | 2850 | 3200 |
| Brake tester roller distance | I | mm | 850 | 700 |
| Brake tester min wheel track | J | mm | 785 | 632 |
| BM53000 plate width | K | mm | 1000 | 1200 |
| BM53000 plate length | M | mm | 825 | 825 |
| BM53000 max wheel track | N | mm | 2850 | 3100 |
| BM53000 min wheel track | O | mm | 850 | 700 |

BM AUTOTEKNIK A/S

Erhvervsparken 7
DK-9632 Møldrup
Denmark
Tel.: +45 8669 2022
www.bmtest.dk

BM
TEST EQUIPMENT

