

BD 500-/600-Serie

**Unbeatably cost-effective.
Beissbarth brake testers for passenger
cars and light commercials.**



All the best for your automobile service.

BEISSBARTH®
BEISSBARTH
Automotive Group

Entry Line

Extremely economical: BD 500/505 for brake testing – pure and simple!

Innovative: powerful electronics integrated into the rollers.

BD 500 series brake testers were designed with economy in mind. That means innovative technology and a sharp focus on the essentials that make brake testing most efficient:

- Dual analogue dials with electronic program control sequences and a master switch box
- Automatic and manual operation (the latter with optional infra-red remote control)
- Maintenance-free, fast-response, highly accurate DSM measuring system
- Microprocessor control of test sequence, processing of measured results and read-out.

Everything you could ever want for extremely economical, precise brake testing.

Roller set for high test throughputs.

High quality hot-dip galvanised roller frame and enclosure, rollers made of expanded metal with tough high-grip plastic and corundum coating. This is extremely durable with excellent friction coefficients: 0.8 dry, 0.7 wet, so that you can be sure of achieving highly accurate measurements.



The BD 500 includes a wall-mounted test unit console as standard. The LCD display illustrated here is an optional extra.



A raised rear roller is a standard feature, for optimum traction during testing.



Optional: metal cover plates for the roller units.



Optional: 4-point axle-load weigher.



Optional: printer set.

Entry Line

Fully automatic test runs in built-in automatic mode.

Precise, continuous testing.

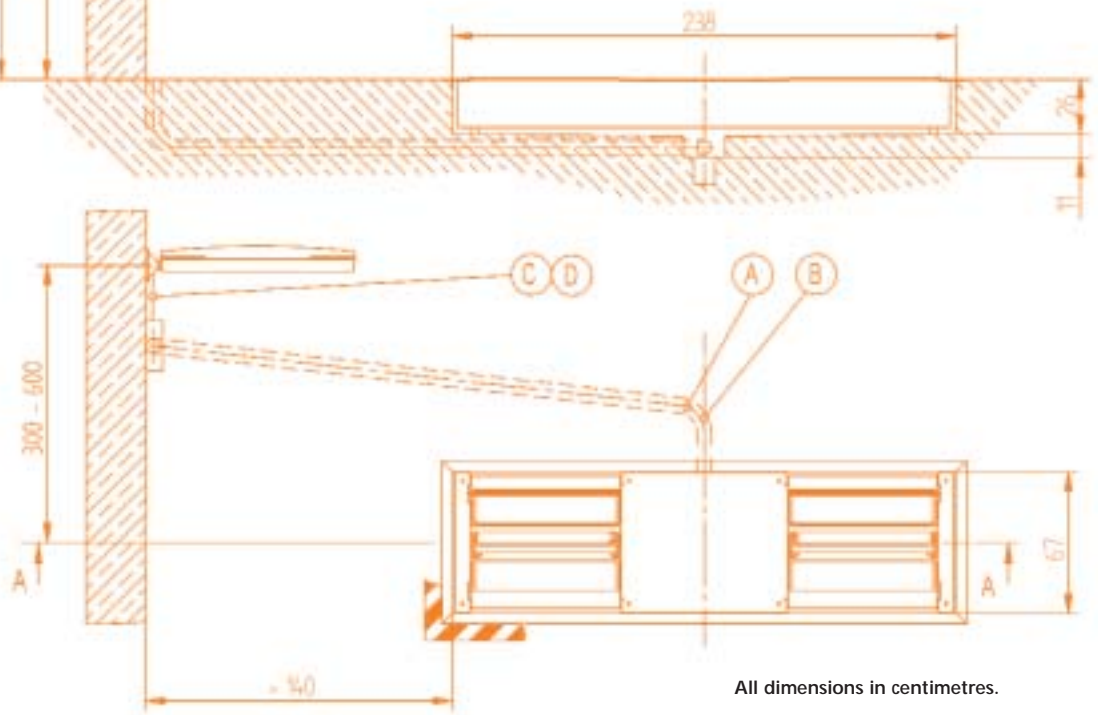
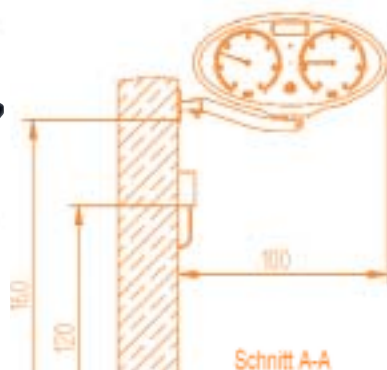
The fully automatic test process begins as soon as the vehicle is on the rollers, and includes automatic shut-off of the anti-lock system, automatic restart and stored braking force displays. The whole test rig is designed and rated for continuous operation.

Testing all-wheel-drive systems (4WD).

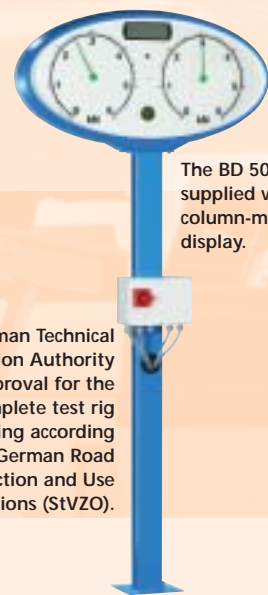
If you frequently test vehicles with permanent 4WD, choose the Evolution Line BD 640 brake test rig. This gives you the ability to test all normal and 4WD cars without adding any accessories.



Optional extra:
IR remote control for
manual operation.



Pit dimensions for the
BD 500/600 series. All
pit measurements must
be precisely checked on
site. Correct pit drainage
is also important.



The BD 505 is
supplied with a
column-mounted
display.

German Technical
Inspection Authority
(TÜV) approval for the
complete test rig
technology for testing according
to Article 29 of the German Road
Vehicle Construction and Use
regulations (StVZO).

Product facts at glance:

- Fully automatic test sequence
- Manual control via pushbuttons or optional IR remote control
- Lockable master switch
- Dual analogue display with integral control electronics and BNET equipment bus connection
- LED lights to indicate automatic /manual operating mode
- Hot-dip galvanized roller set
- Roller set with integral control and power-supply electronics, BNET equipment bus connection
- Sensing rollers for traction control and safety monitoring
- Brake rollers with plastic and corundum surface coating; rear test roller raised by 25 mm
- Optional printer set for official test reports
- Optional 4-digit LCD for digital braking-force difference and results of out-of-roundness measurement
- BNET equipment bus permits easy build-up of a complete test line
- BNET equipment bus together with customer's PC permits graphic printout of results and an ASA network connection
- 15 m power supply cable (3x400V) for connection between main switch cabinet and roller set
- 30 m BNET equipment bus cable for connecting analogue display – printer cabinet/PC station – main switch cabinet – roller set
- Outdoor installation is possible (enclosure rating IP54).

All dimensions in centimetres.

Entry Line

The BD 600 and BD 640/6
Versatile and easily extended
networked toe and suspension



Illustration shows BD 640 model.

All-values measurement display unit.

The modern cockpit style display is easy to read, and shows all measured values as standard. The outer ring of the dial indicates the brake forces, the inner ring is for the suspension test and the middle one for toe angle testing. An additional round dial indicates the braking force differentials: green = OK, yellow = within permitted limits, red = beyond permitted tolerances. The BD 640's standard LCD displays give extra information about retardation in %, axle load in kg, out-of-roundness etc. All this adds up to clear information about every test measurement.



Illustration shows BD 600 model.

BNET equipment bus for easy upgrading to complete test line.

Thanks to the standard BNET equipment bus, the basic BD 600 series electronics make connections to additional test components easy, for instance toe-angle and suspension test units (EUSAMA principle). In this way you can upgrade the brake tester cost-effectively without having to invest in additional displays.

Standard "super-automatic" operation for a totally computer controlled test sequence.

Standard equipment on the BD 600 series includes "super automatic" operation for menu-guided testing of the complete brake system (front and rear axles). After start-up, the computer automatically selects all test phases in succession, memorises the data, makes recommendations for service work and, thanks to an integrated electro-magnetic brake inside the rollers (on the BD 640 only), even provides automatic assistance when driving the vehicle off the test rig. The whole process takes 3 minutes, including automatic data archiving and printout. All this without touching a single button! (Note: the "super automatic" mode only makes sense in conjunction with the printer set).



Optional BNET PC software: 3D report printout for customer documentation.

Cost-saving: the installation frame for the BD 600/640 has an area reserved as standard for retrofitting the suspension tester.



As an alternative to the analogue display for the BD 600 series, a PC measured-value visualisation screen can be set up in parallel.

Evolution Line

BD 600 brake test rigs.

Equipped, with
suspension testing.

Easy compatibility with your networked PC.

The standard built-in BNET equipment bus permits almost unlimited connectivity with the BD 600 series. With the Beissbarth BNET task manager or the ASA network manager connected to your main reception PC, you create a network for the whole test station and workshop environment. Data from all test units (measurements and test results for brakes, suspension, toe angle, suspension measurements, exhaust, lights) are permanently available on the reception PC. Use this facility for job control, statistical analysis and printing out official test documents – and save a lot of money in your order processing.

Online software updating and remote diagnosis.

Everything gets really easy when the brake test rig is connected with a PC workstation, e.g. a Beissbarth suspension measuring system with a monitor: You can download (for a fee) new software from the Beissbarth Software Centre (www.beissbarth.com). Beissbarth can also log in directly to your system via the internet or ISDN, for a rapid solution to just about every system fault or operating error. Instant assistance – and perfect service!



Top roller set: BD 660. Bottom roller set: BD 600. Noticeably wider: The BD 660's roller sets are designed for vehicle track widths of up to 2,800 mm.



The SA 600 suspension tester provides rapid information on road grip (EUSAMA) and thus on shock absorber condition.



The optional installation of a ST 600 tester shows track deviation in mm/m on the analogue display, so that you can see immediately whether wheel alignment needs to be checked.

Product information at a glance:

- BNET equipment bus allows easy build-up of a complete test line
- BNET equipment bus with a PC enables:
 - use of BNET printer and archiving software that can be installed on your network in different locations.
 - ASA workshop networking
 - online software updates and remote maintenance diagnosis
- Fully automatic test and "super automatic" operation
- Operation with start/stop buttons or infra-red remote control (optional on the BD 600)
- Lockable master switch
- 3-way universal analogue display with integrated control electronics and BNET equipment bus connection
- Evaluation display: green/yellow/red
- Hot-dip galvanised roller set
- Sensing rollers for slip monitoring and safety supervision
- Roller set with integrated control and output electronics, BNET equipment bus connection
- Brake rollers with plastic and corundum surface coating, rear test roller raised by 25 mm
- Outdoor installation possible (enclosure rating IP54)
- 15 m power supply cable (3x400 V) for connection of roller set and master switchbox
- 30 m BNET equipment bus cable for connection of analogue display, printer box/PC station, master switch box, roller set

Additional Evolution Line BD 640 features:

- Automatic all-wheel drive detection
- Reversible motors
- 2 LCD displays, 4-digit
- 1 LCD display, 5-digit
- Electromagnetic motor brakes
- Infrared remote control with receiver

Additional Evolution Line BD 660 features:

- Track width up to 2,800 mm



Test rig extensions, options, accessories, technical data.



	Entry		Evolution	
	500/505	600	640	660
BD brake tester				
Max. test/axle load [t]	2,5	3,5	3,5	3,5
Max. test-vehicle track [mm]	2200	2200	2200	2800
Test speed [km/h]	2,7	2,7	2,7	2,7
Installed height [mm]	250	250	250	280
Options:				
Electromagnetic brake	–	–	●	●
Reverse rotation	–	○	●	●
Automatic all-wheel drive detection	–	○	●	●
IR remote control	○	○	●	●
ASA interface	○	○	○	○
LCD display	○	○	●	●
Axle-load weigher	○	○	○	○
Roller cover plates	○	○	○	○
Printer set	○	○	○	○
Wall mounted printer cabinet	○	○	○	○
PC station with BNet measuring visualisation	○	○	○	○
BNET interface and software for PC	○	○	○	○
Pedal effort sensor	○	○	○	○

Extensions:

Toe tester, suspension tester, motorcycle brake tester, PC visualisation, noise detection diagnosis, network compatibility with other equipment

An extra service: risk free motorcycle brake testing.

Motorcycle brake testing on the road is a risky business for both your staff and the bike itself. Not surprisingly, several EU countries include a brake test on a fixed installation as part of their main inspection requirements. BD 500/600 series technology makes it easy to connect the BD 300 motorcycle roller set by way of the BNET equipment bus. Motorcycle brake performance can then be seen on the analogue display.

● standard, ○ optional extra, – not available.

General operating data

- Max. drive-on weight 4 t
- Operating temperature: -10 bis +60 °C
- Enclosure rating: IP 54

Master switch box

- Dimensions (WxLxH) 240 x 160 x 90 mm
- Weight: 2 kg
- Power supply: 3 x 230/400 V (AC)
- Supply cable: 5 x 6/2,5 mm²
- Fusing: 3 x 32/20 A

Main column

- Height approx. 1500 mm,
Base plate 200 x 200 mm
- Weight: 20 kg

Analogue display BD 600/640/660

- Indicator scale, braking: 0 - 8 kN
- Indicator scale, toe: +20...0...-20 mm/m
- Indicator scale, tyre grip: 0 - 100 %
- Indicator scale, general assessment: 3 colours
- Dimensions (WxLxD) 920 x 120 x 480 mm
- Weight 20 kg
- BNET field bus cable: 2 x 2 x 0,5 mm² / 24 VDC

Rollers BD 600/640

- Braking force measuring range: 0 - 6,0 kN
or 0 - 7,5 kN
- Roller length 700 mm, dia. 205 mm
- Coefficient of friction, dry/wet: 0,8 / 0,7
- Dimensions (WxLxD) 2360 x 660 x 250 mm
- Weight: 420 kg
- BNET field bus cable: 2 x 2 x 0,5 mm² / 15 VDC
- Power supply cable: 4 x 2,5 mm², 230-400V / 50 Hz
- Motor/transmission data:
2 x 3,7 kW / 5,2 km/h
2 x 3,7 kW / 2,7 km/h
2 x 5,0 kW / 5,2 km/h

Rollers BD 660

- Braking force range: 0 - 7,5 kN
- Roller length 1000 mm, dia. 205 mm
- Dimensions (WxLxD) 2962 x 660 x 280 mm
- Weight: 540 kg
- Motor/transmission data: 2 x 3,7 kW / 2,7 km/h

Analogue display BD 500/505

- Indicator scale, braking: 0 - 6 kN
- Dimensions (WxLxD) 920 x 120 x 480 mm
- Weight: 18 kg

Rollensatz BD 500/505

- Braking force measuring range: 0 - 6,0 kN
- Roller length 700 mm, dia. 205 mm
- Coefficient of friction, dry/wet: 0,8 / 0,7
- Dimensions (WxLxD) 2360 x 660 x 250 mm
- Weight: 420 kg
- Power supply cable: 4 x 2,5 mm², 230-400V / 50 Hz
- Motor/transmission data: 2 x 2,5 kW / 2,7 km/h

Rollensatz BD 300

- Braking force measuring range: 0 - 3 kN
- Roller length 300 mm, dia. 205 mm
- Coefficient of friction, dry/wet: 0,8 / 0,7
- Dimensions (WxLxD) 800 x 660 x 250 mm
- Weight: 200 kg
- BNET field bus cable: 2 x 2 x 0,5 mm² / 24 VDC
- Power supply cable: 4 x 2,5 mm², 230/400 V
- Motor/transmission data: 1 x 2,5 kW / 5,2 km/h

We reserve the right to change technical features and equipment specifications.



Networking: cuts costs because the whole system communicates.

Networking is a money-making proposition for every workshop.

Networking makes convincing financial sense, regardless of workshop size. Enormous time-savings can be achieved simply by not having to repeatedly re-enter individual customer data for exhaust, brake or suspension system tests.

Beissbarth is the only manufacturer to offer three network engineering technologies for its intelligent BD 500/600 series tester. Smaller workshops with a direct reception facility enjoy economies of scale equal to those of an authorised testing organisation. All three network engineering technologies permit simple networking of equipment and direct integration into your commercial business software. Beissbarth's "MICROPEN" network engineering technology even offers you cableless networking with a mobile data carrier. Let's tackle the task together!



BD 500/600 series technology is recommended by many manufacturers.



BD 500-/600-Serie

BD 500/600 series: Brake system testers for passenger cars and light commercials.

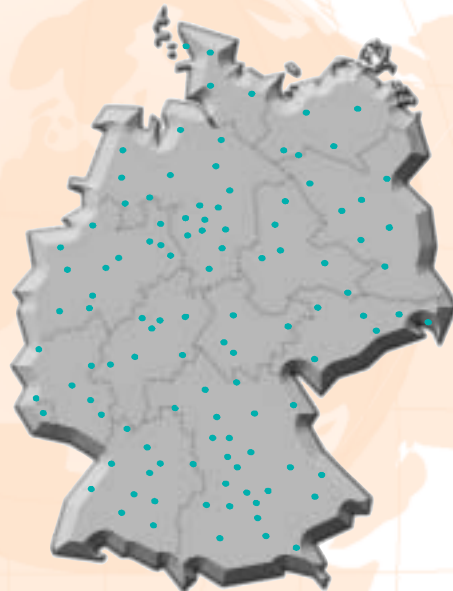


Service and spare parts supply: reliable full coverage worldwide.

Product familiarisation, installation and service is via our national service system in Germany and by certified service partners elsewhere. We offer rapid on-the-spot service and maintenance. PC-supported units can obtain software updates by diskette, CD-ROM or via the internet.

A simple mouse click takes you to www.beissbarth.com for connection to the Beissbarth Software Centre. You can then (for a fee) download the required software or print out the latest vehicle data free of charge. A perfect service. Fast, simple, 24 hours a day.

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