



microline easy

**The new microline easy.
Wheel alignment for everyone.
Economical and easy, its that simple!**

20° CCD cameras

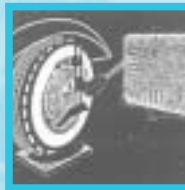
6 or 8 sensors

RF or cable



All the best for your automobile service.

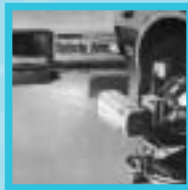
BEISSBARTH[®]
BEISSBARTH
Automotive Group



1956:
Projectus 3



1965:
Projectus 5



1972:
Projectus P800

BETTER - MORE EXTENSIVE - LARGER
Now with new database
12000 original data
from over 48 automobile manufacturers



The excellent functional efficiency of the microline easy, is concealed under modern, compact design. The PC with low-temperature CPU and the A4 ink-jet printer are protected against dust in the easy-to-move equipment trolley.



The standard measuring routine is used for a complete wheel alignment.



1979:
A world first: the E1200 is the first measuring system based on the geometric driving axis. It was awarded the Bavarian State Prize in 1980.



1985:
A world first: the E2200 is the first measuring system with screen display. It was awarded the Bavarian State Prize 1986.



1987:
The microline 3000 – many thousands were sold.



1991:
A world first:– the microline 4000 in two design variants.



1991:
The microline 4000, variant 2.



1999:
A world first: the microline 5000 with voice control was awarded the Federal German Innovation Prize in 2001.



The new microline easy.

If you appreciate easy handling combined with modern design.

Self explanatory: the all new user friendly program for easy handling.

The opposite of hard and complicated is easy. The microline easy program has been redefined with simplicity, variety and speed in mind, allowing for safe and correct handling for example the command functions are clearly shown in button style – without text! However, if text is required, in the preparatory phase, we offer it in over 18 different languages. In brief: the new graphical program with logical and consistent program design, makes the handling of the microline easy, straightforward. The complete measurement is controlled via the mouse and or keyboard.

How do you prefer to carry out the measuring process? Choose from three measuring routines.

Microline easy, was designed to give your wheel alignment service the best possible efficiency. Easy handling means for instance that you can select the most effective measuring routine for the car before starting the wheel alignment procedure. "**Standard**" is a program-guided routine with initial and final measurements. "**Rapid**" means measurement without caster steering angle. And "**Free Measurement**" is for checking individual values as required.



Rapid measurement is the preferred routine for toe/camber diagnosis.



For checking individual values, free measurement is the most effective routine.

The new microline easy.

For those who accept no compromises in measuring accuracy.



The microline easy, is available with a 6-track or 8-track toe-sensing system, and radio or cable transmission of data to the PC. All variants operate without a cable connection.

CCD infrared measuring sensors for high precision and cableless measurement.

Each measuring sensor of the microline easy, features the CCD infrared sensor system and its own processor. This has three decisive advantages for you: **First**, compared with conventional equipment you get a much higher measuring accuracy.

Second, cableless measurement significantly reduces preparation time.

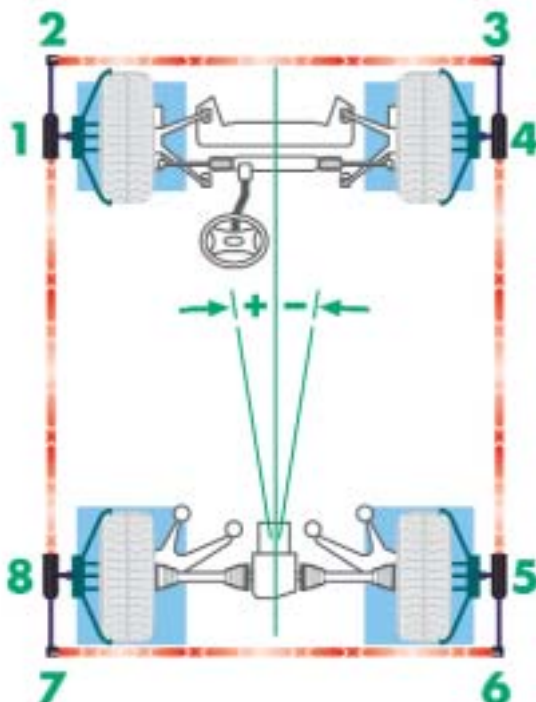
And thirdly, if the measuring sensor has to be exchanged for servicing reasons, no re-calibration of the system is needed.

New 20° CCD camera technology for easier caster measurement.

New 20° CCD camera technology has wider toe and camber measuring ranges. Your benefits are:

- The use of economical mechanical turntables
- The possibility of Step free Toe adjustment with the wheels turned to a Maximum of 20°, Toe and Camber are clearly displayed on the Screen
- Toe display in raised position for comfortable Toe adjustment

This allows for a quicker and precise measurement of caster and king pin inclination without the need for electronic turntables! Reducing your investment! The microline easy, has a 360° around the vehicle infrared measurement zone, created by its 8 track toe sensing system. This system allows for permanent monitoring of the systems measurement accuracy and allows for additional rear axle measurements. Deviations from the tolerances and the need for maintenance are automatically displayed on screen.



New 20° CCD camera technology increases the measuring-zone angle, making caster measurement much easier.

The new microline easy.

When wheel-alignment quality is an important factor.



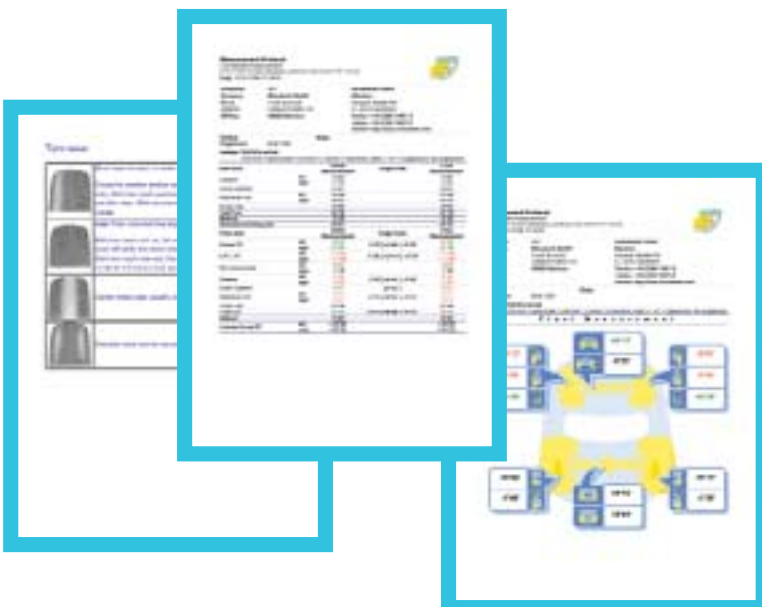
Live measured-value display with permanent comparison of target/actual data.

As soon as the microline easy, has been attached to the car, all the measured values can be called up on the monitor – within a matter of seconds. The large figures on the live measured-value display are easy to read and are highlighted additionally by a colour panel if the actual value is out of tolerance. The faded-in target data for the relevant measured value provide you with a precise parameter during the alignment process. In addition, a key symbol signalises, along with the live measured value, that you can call up adjustment help in the form of pictures, texts, or videos for a particular measured value.



Standard target database with over 12,000 different vehicle models from 48 automobile manufacturers.

The new target database from Beissbarth is surely the world's best. In quality, since it consists of original data. And in quantity, since you will hardly find a more extensive database in the wheel-alignment sector. In addition to all well-known automobile brands, it includes for instance under Korean workshop data the complete vehicle range from Asia, Kia, Hyundai and Daewoo. You have access to a truly comprehensive selection of vehicles. And more important still, the individual data are constantly updated and added to by Beissbarth.



Free to select: two measuring report variants plus a tyre report.

The wheel alignment records have been re-designed: the tabulated variant stays with the mechanic, the graphic one is handed to the customer. It documents – in an easily understood way – the work your company has performed. And the additional tyre report will help to boost your tyre sales.

The

**For those who value rapid,
compatible software management.**



Updating of microline easy, software can be carried out any time against a small fee by logging in to the Beissbarth Software Centre at www.beissbarth.com.



Standard: a combined DVD/CD burner drive for rapid data backup and data imports.



**Update program software by mouse click.
Around the clock.**

You can only do an effective job if your wheel-alignment workshop has the latest program software and the latest vehicle target data. No problem with Beissbarth equipment: one mouse click connects your networked PC directly to the Beissbarth Software Centre at www.beissbarth.com. You have the choice of downloading the relevant software against a fee or printing out the latest coloured vehicle target data, operating manuals or technical planning leaflets free of charge. A perfect service. Rapid and easy.

**Combined DVD/CD ROM burner drive for
rapid data import and data backup.**

The microline easy, is above all designed for efficiency. This is why it has a standard combined DVD/CD burner drive: for data backup on CD, program or target data updates, data imports of additional software and workshop manuals, parts catalogues or training material.

**Standard: network compatibility or
multimedia capability with Windows XP-
Home operating software.**

The PC and the microline easy's operating software make two things possible: Firstly: parallel work in several programs and secondly, networking with the Internet.

new microline e

And for those who value intelligent equipment features.



The batteries of the measuring sensors with radio data transmission are automatically recharged via the locating pins.



The long-version of the sliding table (order No. 932 401 011) for rear wheel suspension rebound has an additional rotary movement range of $\pm 2.5^\circ$ to $\pm 10^\circ$.



The Multi-Quick clamp (order No. 932 401 111) for fastening the measuring sensors rapidly the wheel. Clamping range covers rim diameters up to 23" (optional up to 26").



The free-moving aluminium turntable (order No. 932 501 210) avoids trapped stresses at the front wheels during the steering-angle measurement process.



Like the long version, the short sliding table (order No. 932 401 015) has an additional rotary movement range.



The quick clamping unit (order No. 932 301 050) is our most cost-effective version for attachment to all current wheels with rim diameters up to 20" (optional up to 26").

easy



For those who aim to make wheel alignment a profitable service.

Satisfactory profit starts with selection of the best equipment.

From top to bottom, the microline easy, has been designed for efficiency, which means for profitable operation. This calls for genuinely easy handling, an excellent technical specification, well-planned accessories and supply in four different technology variants. Choose yourself:



microline easy with 6-track toe-sensing system and data transmission to the PC by cable.



microline easy with 8-track toe-sensing system and data transmission to PC by cable.



microline easy with 6-track toe-sensing system and radio transmission of data to the PC.



microline easy with 8-track toe-sensing system and radio transmission of data to the PC.

Contact us and we will advise you on which technology variant combined with what accessories is the most viable for your workshop.

Well chosen accessories are a decisive profitability factor.

A precise configuration of the microline easy system based on your workshops and customers needs leads to a rapid profitability. What else should be considered apart from the different versions of the microline easy?

Is your wheel alignment work mainly performed on compact and midsize cars or cars of the top category? For top class cars we recommend the use of the vehicle specific wheel clamps. What size of wheels do you Customers have? The Multi quick clamping units goes up to 23" (26" with optional adapters), our standard quick clamps go up to 20". If you frequently deal with long wheel base vehicles we suggest the long sliding plates for the rear axle. Are spoiler adapters required, due to many of the vehicles that you work on have lowered suspension? Do you the need the extra flexibility of a remote control?

Spare some time for our specialist staff. It's worth your while and will maximise the profitability of your new Beissbarth microline easy wheel alignment system.

The new microline easy lives up to its name.



What you can expect from the microline easy.

Before you look at the microline easy's technical data and note the system's excellent measuring accuracy, the following list summarises the product's advantages:

- **Easy-to-move mobile system** on big rollers with 17" colour monitor
- **Network compatibility and multimedia capability** with Windows XP operating software
- New **self-explanatory graphic user surface** for very easy handling
- **Combined DVD/CD ROM burner** for data import and data backup
- **New 20° CCD camera technology** with increased measuring angle **for easier caster measurement**
- **Measuring sensors** with aluminium support members and a **robust plastic housing**
- **Automatic battery recharging** of the sensor heads (RF versions) **via locating pins**
- **Three different measuring routines** for maximum working efficiency
- Large live measured-value displays with **fade-up target data make suspension adjustments easier**
- Mouse-click access to over **12,000 vehicle target data with setting-up images**, animation, videos and workshop data from 48 automobile manufacturers
- **18 language variants** as a standard feature; can be called up by mouse click
- Integrated A4 **measured-value printer (graphic or table)** and **tyre report** for the customer
- **Software update** via PC network and printout of technical information around the clock **from the Beissbarth Service Centre** at www.beissbarth.com
- **Four different technical versions** and various accessories give you the most economically viable solution for your workshop.

Technical Data

- Dimensions of equipment cabinet incl. 17" colour monitor (width x depth x height): approx. 98 x 80 x 160 cm
- Weight: approx. 80 kg
- Colour: RAL 7011 (grey) / RAL 5015 (blue)
- Power supply: 100 – 115 V AC / 220 – 240 V AC
- Frequency: 50/60 Hz
- Output rating: 0.5 kW
- Fuse rating: 3.15 A (slow-burn); other values on request
- Vehicle memory locations: unlimited
- Screen texts shown in the programmed national language
- Clamping system: Quick-clamping units: for passenger cars with rim sizes from 10 – 20" (optional 26")
- Multi-Quick clamping units: for passenger cars with rim sizes from 10 – 23" (optional 26")
- Turntables: load capacity 1000 kg for passenger cars, turning angle $\pm 360^\circ$, (L x W x H) 450 x 450 x 50 mm, sliding range ± 50 mm, weight 18 kg
- Sliding tables: load capacity 1000 kg for passenger cars, turning angle $\pm 10^\circ$, (L x W x H) 450 x 450 x 50 mm, sliding area +65 ... -50 mm, weight 17 kg
- Radio system: frequency range 2.4 GHz (433 MHz)
Multi-channel system (ML 8R/6R easy)

Measured values	Measuring accuracy	Tolerance
Total toe (front/rear axle)	$\pm 3'$	$\pm 2^\circ$
Individual toe (front/rear axle)	$\pm 2'$	$\pm 2^\circ$
Camber	$\pm 2'$	$\pm 3^\circ$
Wheel offset (front axle)	$\pm 2'$	$\pm 2^\circ$
Driving axis angle	$\pm 2'$	$\pm 2^\circ$
Caster	$\pm 4'$	$\pm 18^\circ$
Kingpin inclination	$\pm 4'$	$\pm 18^\circ$
Toe-out on turns	$\pm 4'$	$\pm 20^\circ$
Caster correction range	$\pm 4'$	$\pm 7^\circ$
Additional measured values:		
Wheel offset (rear axle)	$\pm 2'$	bei $\pm 2^\circ$
Wheelbase difference	$\pm 3'$	bei $\pm 2^\circ$
Lateral offset left/right	$\pm 2'$	bei $\pm 2^\circ$
Track width difference	$\pm 3'$	bei $\pm 2^\circ$
Rear axle offset	$\pm 3'$	bei $\pm 2^\circ$

Equipment details and technical data subject to amendment; errors and omissions excepted.

microline easy



**The new microline easy.
Wheel alignment for everyone.
Economical and easy, its that simple!**

Your specialist dealer:

**Beissbarth Service:
reliable, nationwide, worldwide.**

In Germany initial product familiarisation, assembly and servicing are carried out by our own national service centres and certified partner workshops. This guarantees our customers rapid on-site availability for servicing and maintenance. In other countries, our customers can rely on Beissbarth's global presence, maintained by the manufacturer's own subsidiaries and more than 70 sales partners.

Beissbarth Australia
Beissbarth Belgium
Beissbarth Bulgaria
Beissbarth China
FFB France
Beissbarth Italy
Beissbarth South Africa
Beissbarth UK
Beissbarth Ukraine

Thomastown Victoria 3074
1930 Zaventem
Sofia 1582
Beijing 100101
58440 Myennes
41043 Formigine (MO)
Boksburg
Nottingham NG 11 7 EP
01054 Kiew

Tel. 0061-3-94642533
Tel. 0032-2-7208692
Tel. 00359-2-9732375
Tel. 0086-10-649264-83/-84/-31
Tel. 0033-3-86395050
Tel. 0039-059-570990
Tel. 0027-11-3978800
Tel. 0044-115-9815151
Tel. 0038-044-2512128

Beissbarth GmbH • Hanauer Straße 101 • D-80993 München
Telefon + 49 - 89 - 149 01 - 0 • Fax + 49 - 89 - 149 01 - 285 / - 240
www.beissbarth.com • Email: sales@beissbarth.com

All the best for your automobile service.

BEISSBARTH[®]
BEISSBARTH
Automotive Group