



Beissbarth LTB 100/300

LEVELED TEST BAY FOR HEADLIGHT TESTING, WHEEL ALIGNMENT AND
ADJUSTMENT OF DRIVER ASSISTANCE SYSTEMS – AT THE SAME TEST BAY

LTB 100 and 300: professional test bay without lift

LTB 100 and 300 – advantages:

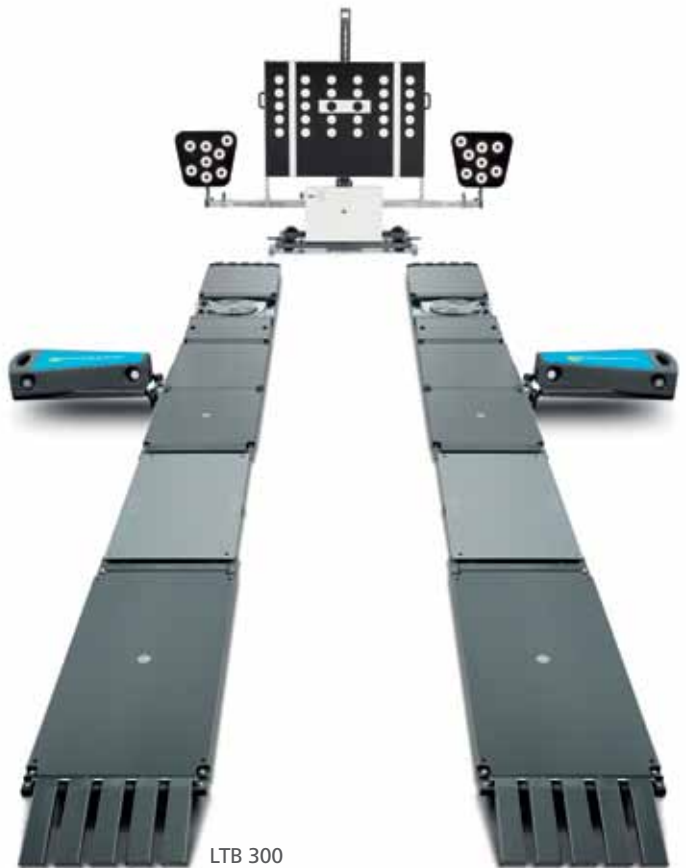
- Ground-based solution as a leveled alternative to lifts (economical, space-saving, maintenance-free)
- Practical retrofit solution for uneven workshop floors
- Particularly suitable for installation on workshop pits
- Modular design
- Drive-through solutions for vehicle check-in (option)
- Fine adjustment and high-precision wheel alignment measurements
- Robust thanks to KTL powder coating
- Maximum load per axle: 2.5 t, run-over load: 5 t
- Minimum construction size: 54 mm
- Height compensation of up to 40 mm
- Wheel alignment for wheel bases of up to 4325 mm

LTB 100:

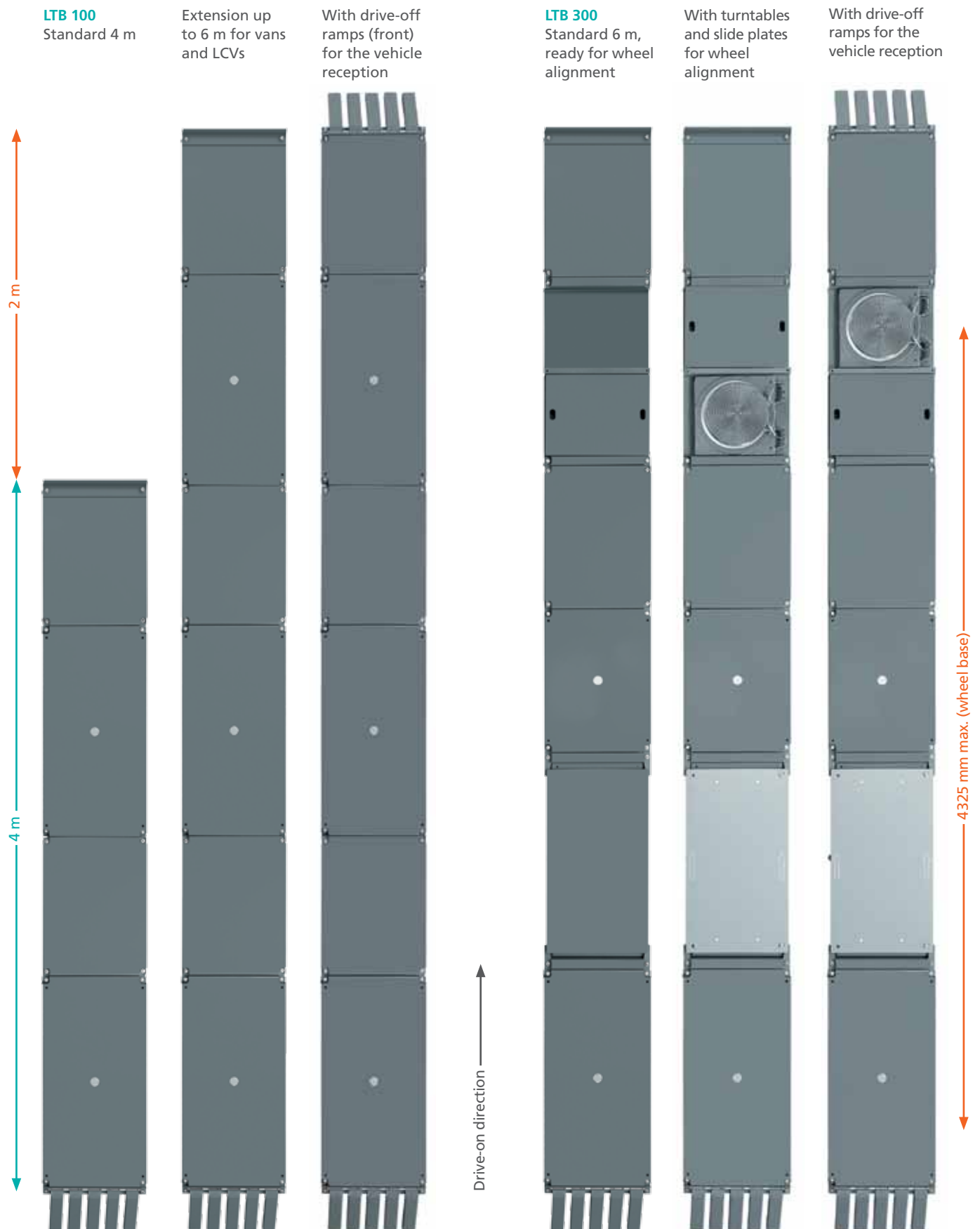
Your test bay for headlight testing

LTB 300:

- Headlight testing
- Wheel alignment
- Adjustment of driver assistance systems (DAS)



LTB 100 und 300: the right modules for your workshop



Schematic comparison of the different versions with one lane each (for sizes, please see page 15)

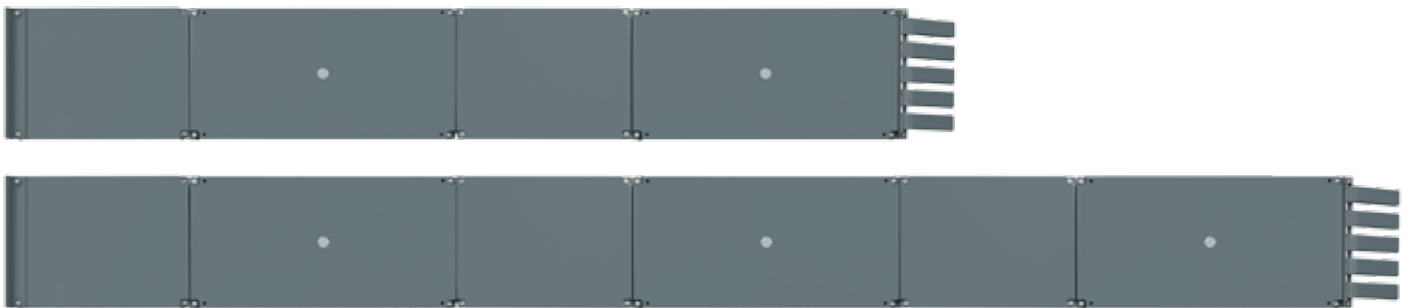
LTB 100 for headlight testing: leveled test bay in line with § 29 StVZO

Since January 2016, workshops in Germany have to comply with the new general-inspection headlight test guideline (§ 29 StVZO):

- By law, a permanently fixed and marked headlight test bay has to be designated.
- The test system described at the guideline is defined by the vehicle set-up area and the headlight tester.

- All set-up surfaces must be even.
- Every two years, the system is to be checked by an expert.
- Provisions made to safeguard existing systems apply until 2017 only.

In line with the guideline: LTB 100 – test bay for headlight testing.
(2 versions: 4 and 6 m)





LTB 100: Standard scope of delivery of the 4 m version (illustration with rail-guided digital HTD 815 headlight tester)

Combination for headlight testing: LTB 100 and HTD 815 headlight tester

- For all light sources and glare-free high-beam systems (DLA*, Matrix)
- TÜV-certified (type approval)
- Cross and alignment laser
- Integrated printer
- Accurately defined cut-off line without blue fringe

** Dynamic Light Assist

Bluetooth



Visualization on workshop PC (optional)



All surfaces must be even:
leveled rail system.



Video and more:



LTB 300: universal Beissbarth work bay

Headlight testing, wheel alignment and adjustment of driver assistance systems in a *single bay*

- Fine-adjustable working area for high-precision measurements
- Turns uneven workshop floors into fully-fledged test bays complying with the requirements of the guideline
- Combination of wheel alignment, headlight testing and DAS alignment



LTB 300: basic standard scope of delivery



LTBS 300 with shown on the left wheel-alignment equipment for the vehicle reception: with turntables rear slide plates (light gray) and drive-off ramps (leftmost).



Basic scope of delivery: positioning socket for turntables (incl. 1 filling element)



Optional: with turntables



Optional: adapter set for Easy 3D+ 3D wheel alignment



Headlight testing



Wheel alignment



Adjustment of driver assistance systems



Adapter set (detailed view)



Basic scope of delivery: positioning socket for turntables (incl. filling element)



Optional: with slide plates

LTB 300 for wheel alignment: determination of the geometric driving axle

3D wheel alignment with functional plus: Easy 3D+

- Quick test within 90 seconds (smart test)
- Quick set-up
- Fully automatic test routine
- Rolling runout compensation
- Mobile application thanks to WLAN

Video and more:
LTB 300 with Easy 3D+



LTB 300 and Easy 3D+



3D technology with 12 cameras



Continuous positioning
of sensor heads



Magnetic clamps for
quick fixing



Particularly lightweight
and robust targets

Handy for your vehicle reception: drive-through solution for quick measurement

Contact-free wheel alignment with Touchless

- Quick test within 60 seconds (smart test)
- No set-up times for clamps, etc.
- Simultaneous measurement on 4 wheels
- Steering-lock routine "on the fly"
- Smart Align software
- 16 cameras
- 16 000 laser dots
- Laser class 1M

Video and more:
Touchless wheel
alignment



4 000 laser dots
per wheel



LTB 300 and
Touchless



Stereo camera-system:
3D-measurement with 2 cameras



Beissbarth reference system with
2 cameras per sensor

LTB 300 for DAS adjustment: calibration of driver assistance systems



Calibration set VAS 6430 with Easy 3D+

Adjustment device equipped with
DAS modules and 3D calibration targets

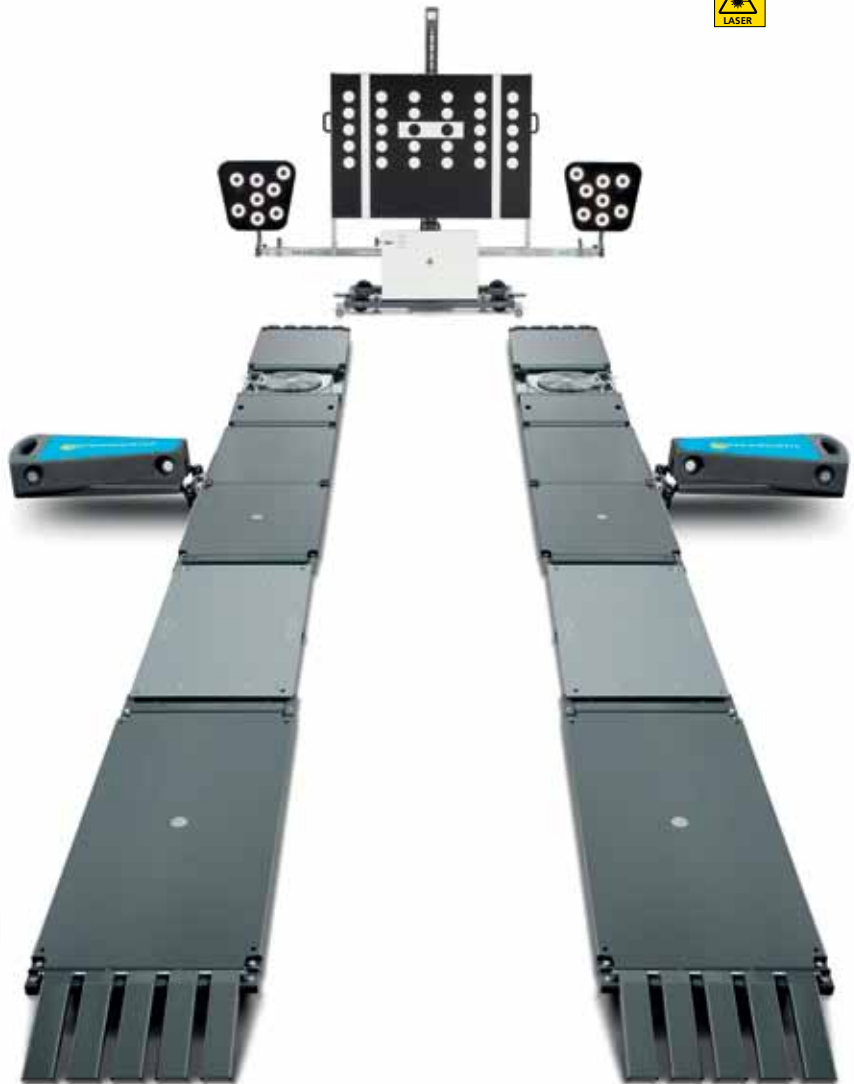
Wheel alignment using 3D measurement technology:

Repeatability and absolute accuracy
of +/- 2 minutes for toe and camber

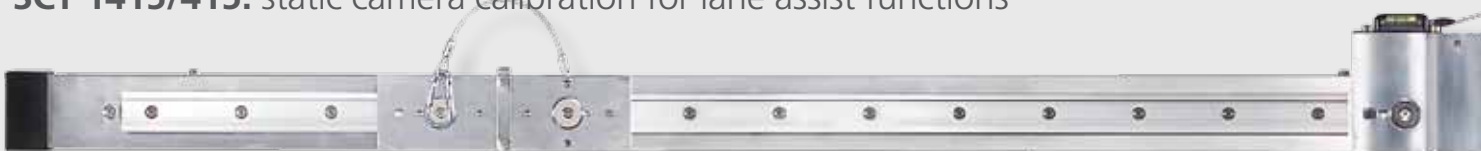


With PC trolley
(27" screen)

Mobile with portable PC



SCT 1415/415: static camera calibration for lane assist functions



High-precision measuring bar taking up the calibration targets



SCT 1410 combined with a line-laser module
(III. Mercedes-Benz calibration target)



SCT 1410 with CCD wheel aligner
(III.: Kia/Hyundai calibration target)



SCT 1410 with 3D wheel aligner
(III.: Nissan calibration target)

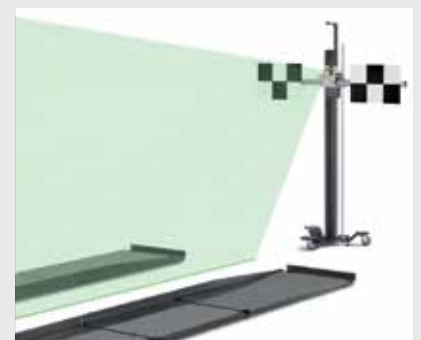
Special accessories (optional)



Universally applicable thanks to robust trolley and post with height adjustment



LTB 300, HTD 815, FWA 4630+ and SCT 410



SCT 415 DAS adjustment (illustration shows Honda-Target) with LTB 100

*Caution! Laser in operation! See description of hazard categories on page 16.

Modular design for all sizes:




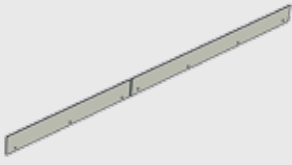
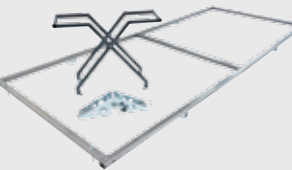
Wheel alignment on LTB 100/300



Versions with a length of 6 m for wheel bases from 1 810 up to 4 325 mm (incl. rolling distance and run-out), Head light testing also for larger wheel bases.

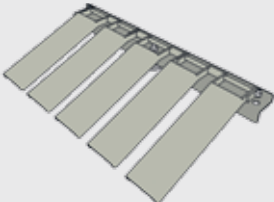


Positioning base for two turntable positions: for easy adjustment to different wheel bases

LTB 100/300: accessories

LTB 100	Description	Part number
	LTB 100* (4 m)	1 692 100 030
	LTB 100 extension (2 m)*	1 692 100 031
	Pit drive-in protection (4 m)	1 692 100 033
	Extension of the pit drive-in protection (2 m)	1 692 100 037
	Installation kit: drilling patterns with carrying pliers, incl. transport box	1 692 102 204

LTB 300	Description	Part number
	LTB 300 basic scope of delivery, (incl. 2 filling elements each for turntable and slide-plate sockets)*	1 692 100 043
	Installation kit for LTB 300: extension of the LTB 100 installation kit (for the installation, both kits are needed)	1 692 102 203

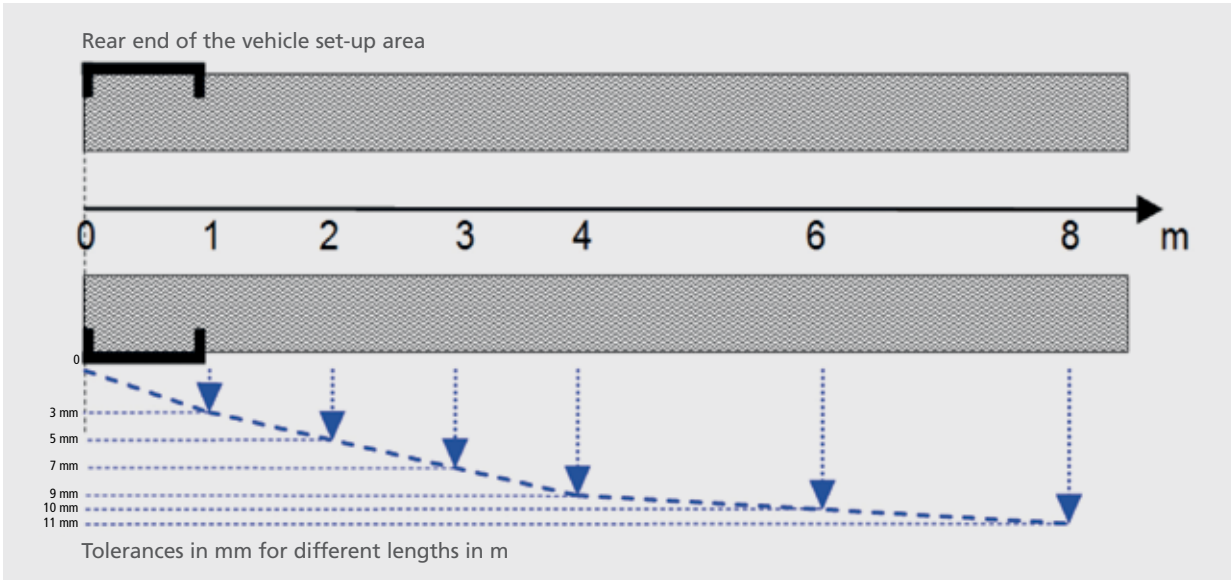
LTB 100/300	Description	Part number
	Drive-off ramps (2 pcs., incl. installation materials, no assembly plugs needed; technically equal to drive-on ramps)	1 692 100 032

Wheel alignment	Description	Part number
	Adapter set for Easy 3D+: 2 rails per rail, 2 swivel bases (4 pcs.)	1 690 701 506
	Adapter set for Touchless: for 4 sensor heads, incl. installation material	1 690 900 014
	Turntable (mechanical, 1 piece)	1 690 501 001
	Filling elements made from plastic (1 set of 2 pcs. for 1 turntable)	1 690 702 082
	Filling elements made from aluminum for VAS 6767 (1 set of 2 pcs. for 1 turntable)	1 690 702 310

*Leveling screws included in scope of delivery. Assembly plugs are not included

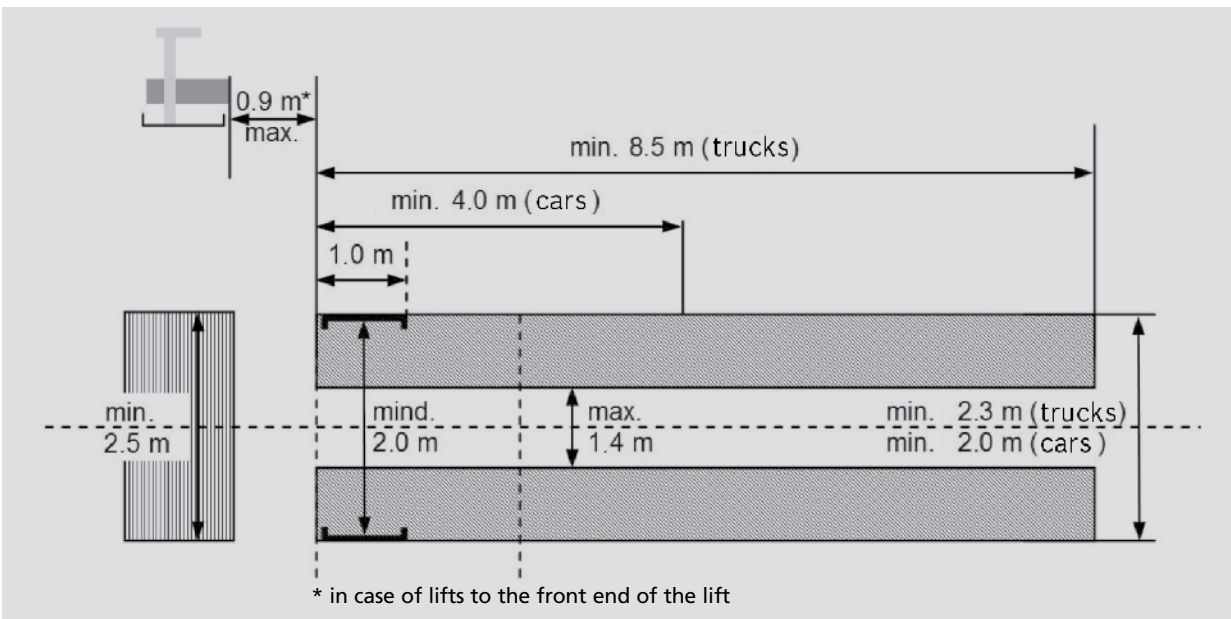
Test guideline: provisions of § 29 StVZO general-inspection headlight test guideline

Allowed unevenness of lanes



Source: Verkehrsblatt-Verlag Borgmann GmbH & Co. KG, Germany

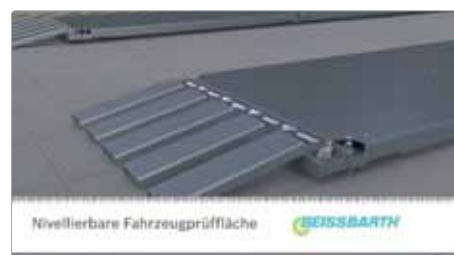
Stipulated minimum sizes in line with rider 4, §29 StVZO general-inspection headlight test guideline



Source: Verkehrsblatt-Verlag Borgmann GmbH & Co. KG, Germany

General prerequisites concerning the consistency of both foundation and subfloor:

- Maximum difference in height on 4 m/6 m: 0 – 40 mm
- Subfloor must comply with Eurocode 2, DIN EN 1992
 - Concrete quality: minimum C20/25
 - Compliance with the manufacturer specifications
 - The area around the leveled vehicle test bay is to be marked as danger zone (tripping hazard) with black and yellow as provided by DIN 4844 -1



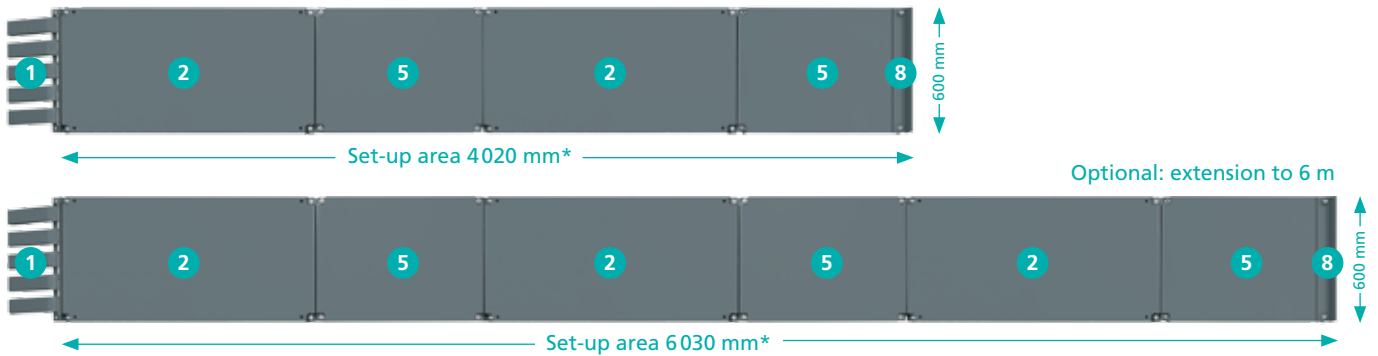
Installation video and more:

LTB 100 and 300: modular design

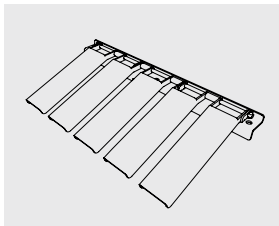
LTB 300



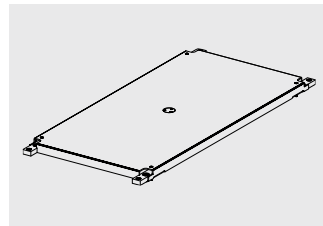
LTB 100



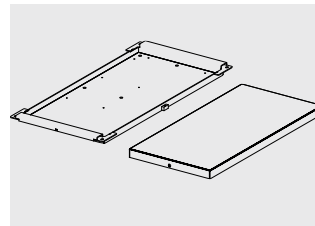
* Rounded length specifications. Depending on the design, the actual LTB overall length can vary some mm. It results from the final installation size (height of the set-up area/ slope of the ramps) and the tolerances at the gaps between the modules (2 – 5 mm). For additional information on this topic, please have a look at the technical documentation or at the installation instructions. The (module 1) drive-on – or optionally drive-off – ramps (both of them identical ramps) are installed in a manner partially supported by the LTB they extend by some 250 mm net. The (40 mm) roll-off protection (module 8) is fully supported by the LTB and has thus no influence on the overall length.



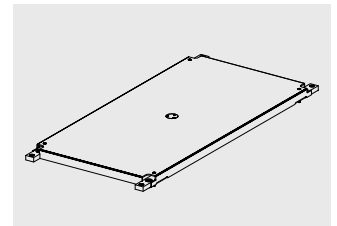
1 Drive-on ramp



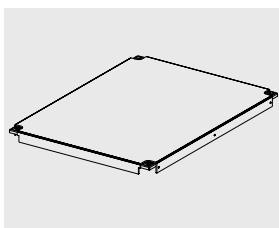
2 Wheel alignment element



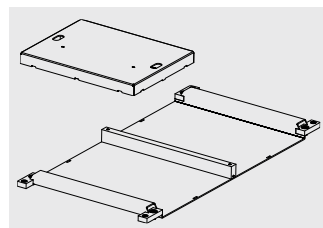
3 Slide-plate socket (incl. filling element)



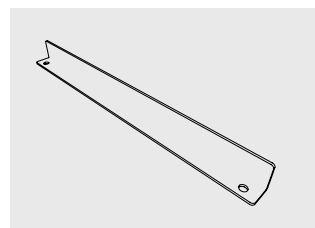
4 Wheel alignment element



5 Center ramp



6 Turntable socket (incl. filling element)



7 Roll-off protection

LTB modules

Module No.	Designation	Length in mm	LTB 100 (4 m)	LTB 100 (6 m)	LTB 300 (6 m)
1	Drive-on ramp*	250	2	2	2
2	Wheel alignment element L	1200	4	6	2
3	Slide-plate socket (incl. filling element)	1215	–	–	2
4	Wheel alignment element S	800	–	–	2
5	Center ramp	800	4	6	4
6	Turntable socket (incl. filling element)	1050	–	–	2
7	Roll-off protection*	40	2	2	2

Technical information

Hazard categories of laser technologies

Product	Symbol*	Laser class	Labeling	Warning
Touchless		Laser 1M		 Laser Radiation! Do not view directly with optical instruments
SCT 415/410		Laser 1M		 Laser Radiation! Do not view directly with optical instruments
VAS 6430		Laser 2		
MLD 815		Laser 3R		

*symbolic illustrations of the laser classes

www.beissbarth.com

Beissbarth GmbH
Hanauer Strasse 101
80993 München
Germany

Telefon: +49-(0)89-14901-0
Telefax: +49-(0)89-14901-246
E-Mail: sales@beissbarth.com