

# Q.LIGN

THE WORLD'S MOST INNOVATIVE  
WHEEL ALIGNMENT



**ULTRA FAST,  
COMPACT,  
CONNECTED!**



Q.Lign on video:



# Beissbarth Q.Lign: wheel alignment thought over



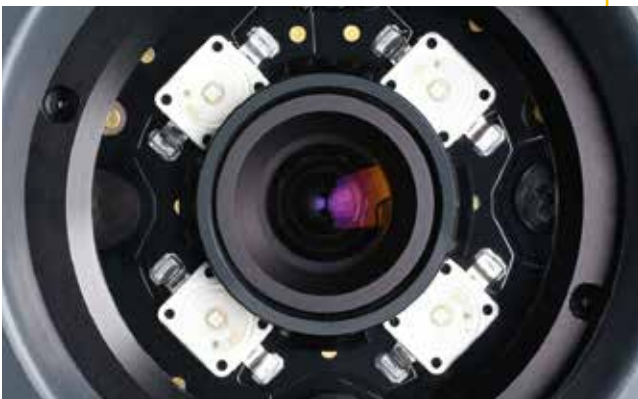
## E-paper display

- Shows important information such as firmware version, SSID etc.
- Status information for easy servicing is always accessible
- Display of the last status, even without power supply



## Powerful lithium-ion battery

- No cables required at all
- Powerful li-ion battery provides enough power for more than an entire day at the workshop
- Battery replacement during measurement (hot swap) is possible



## Customized high precision camera

- Customized design instead of off-the-rack
- Fully optimized for workshop applications
- One position for all wheelbases



## Hard-/softshell concept (patented)

- Protection against impacts
- Ergonomic design
- Lightweight and compact





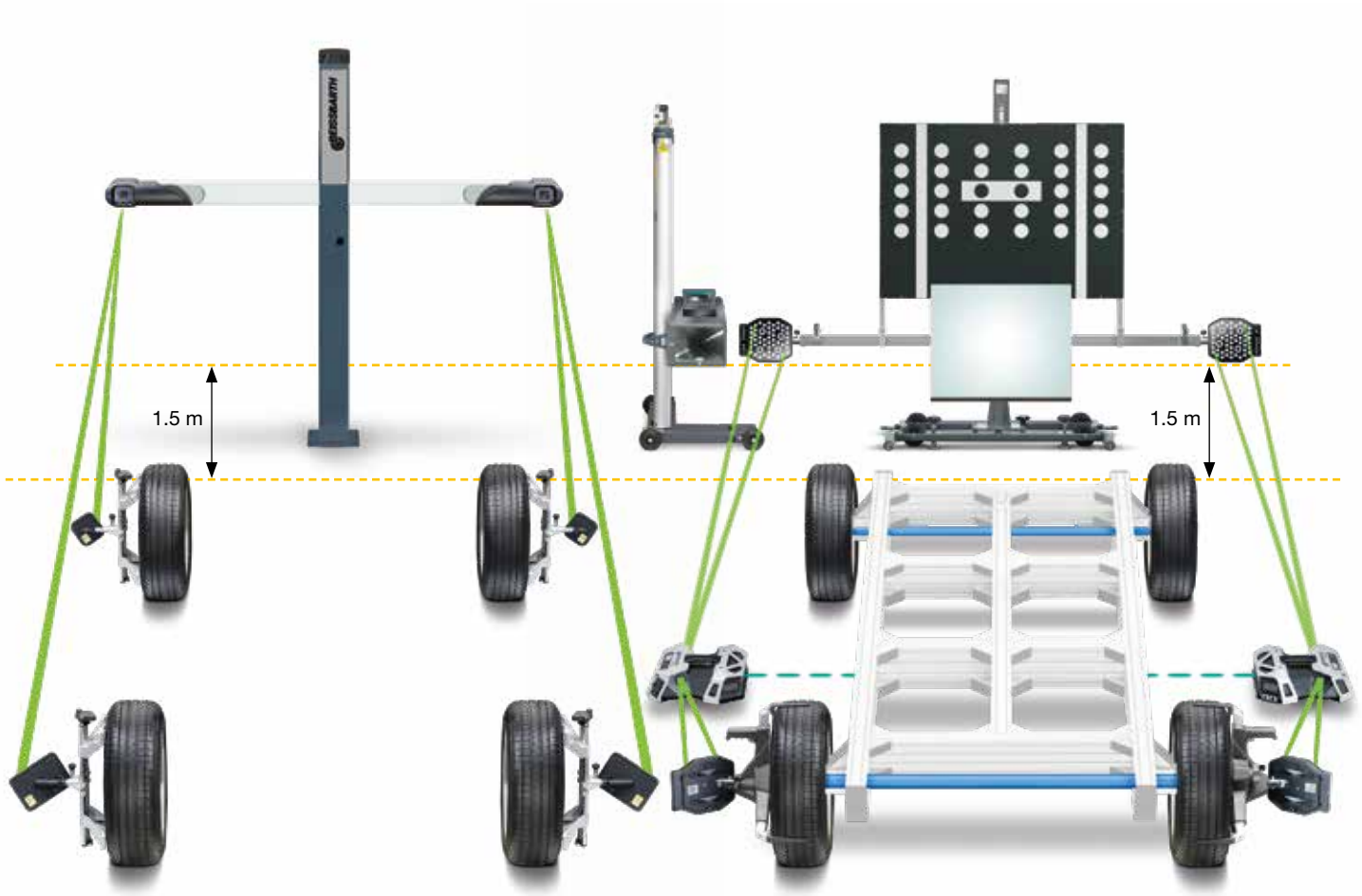
**Technology with web access**

- Access with any browser-based device
- No Windows updates nor licenses
- No PC trolley
- High processing power for faster tracking

**OLED Align Screen (patented)**

- Results exactly where they are needed
- Clear view on results from any wheel position
- Both hands free for alignment

# Q.Lign: more service on less space



**Conventional aligners** permanently require space in front of the vehicle

**Q.Lign** leaves space in front of the vehicle for additional services – such as ADAS calibration and headlight adjustment

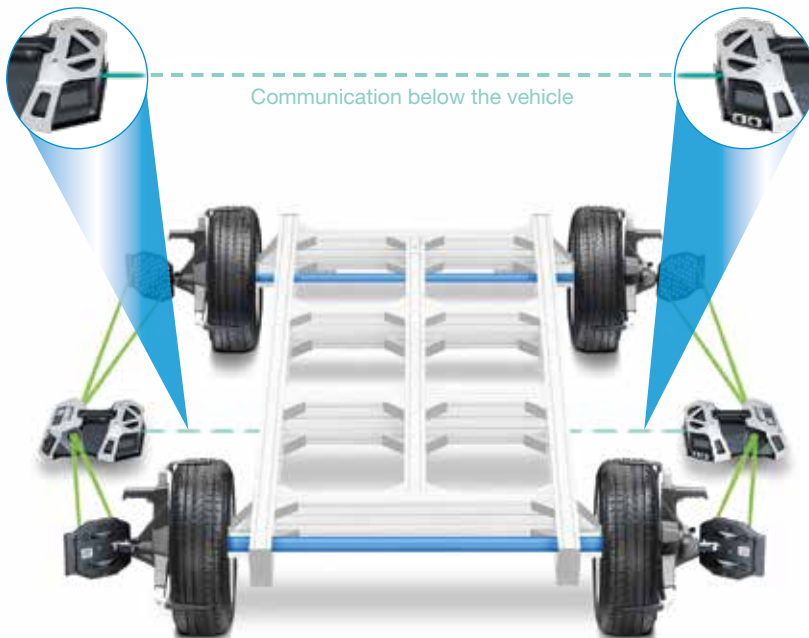
## Systems in comparison

Characteristics	ML 3x	Q.Lign
Wheel alignment	•	•
Compatible with all types of lifts	•	•
Free space in front of the lift	-	•
ADAS calibration	-	•
Mobility	-	•
Can be used without PC or trolley	-	•
Physical connection to the lift	-	•
Active reference system during wheel alignment	-	•
Measurement independent from the height of the lift	-	•
Display can be read out from below the vehicle	-	•

# Q.Lign: measurement results under full control



**Q.Lign:** compact, connected and all data at a glance



**Q.Lign** with active reference system

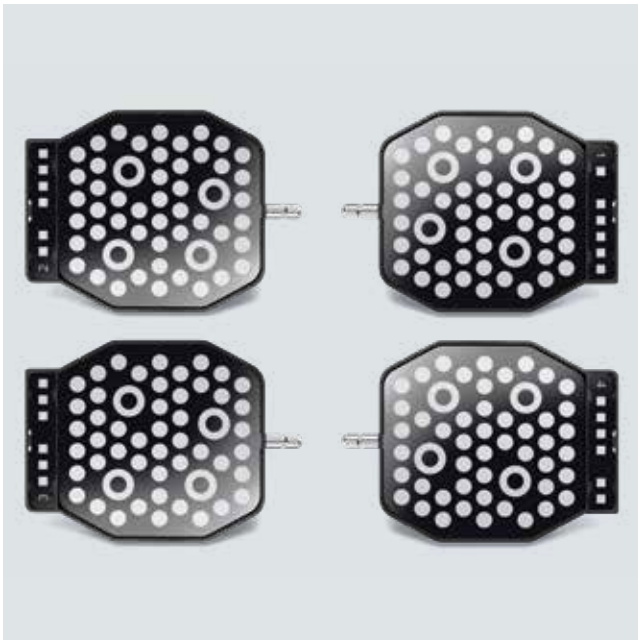
### **Active reference system: the success formula for straight steering wheels**

- Permanent live monitoring
- Compensates vibrations
- Self-levelling

### **Q.Lign: getting the steering wheel straight and avoiding time-consuming comebacks**

Q.Lign is not located in front of the lift, but on its sides. Both of the sensor heads communicate via Q.Lign reference system to pinpoint their spatial position to each other at any moment of the wheel alignment procedure. The more accurate the cameras' positions towards each other is determined, the straighter is the steering wheel in the end.

# Q.Lign: next generation wheel alignment



**Q.Lign:** lightweight and replaceable targets



**Q.Lign** with QR code as identification label on the back

## **Faster set-up without mistakes: automatic identification of the targets**

- Identification and automatic activation of the proper calibration data of saved targets independently from the wheel the target is installed on
- Minimizes the risk of incorrect installation of the targets
- Saves up to 8 targets at once

## **Smaller, easier, smarter: the new (patented) Beissbarth target design**

- Saving calibration data scanning the QR code on the back of the target
- No calibration required when changing targets
- Target exchange without need for support by a service technician
- Smallest Beissbarth targets so far

## **Upgrade made easy: combining the best of different product lines**

- New targets work with standard Beissbarth socket
- Compatible with former Beissbarth wheel clamps and those of most third-party manufacturers

Wheel alignment  
using Q.Lign





# Q.Grip: quick and without rim contact



**Q.Grip:** quick and no contact to the rim



**Q.Grip:** safe, firm hold on the wheel

## Q.Grip for quick wheel alignment

Compared to conventional clamps, Q.Grips allow five times faster attachment of targets onto the wheel. No removal of hubcaps or installation of special attachments required. Q.Grip is attached onto the tyre without any rim contact.

- Attached within seconds and without rim contact
- Less clamping mistakes and scratches on the rims
- Automatic centring
- Quick switching between different wheel diameters – without cranking



**5 TIMES FASTER ATTACHMENT OF TARGETS!**

# Q.Lign software: powerful and user-friendly



Accurate and easily understood measurement display



Quick detection of accident-caused damages



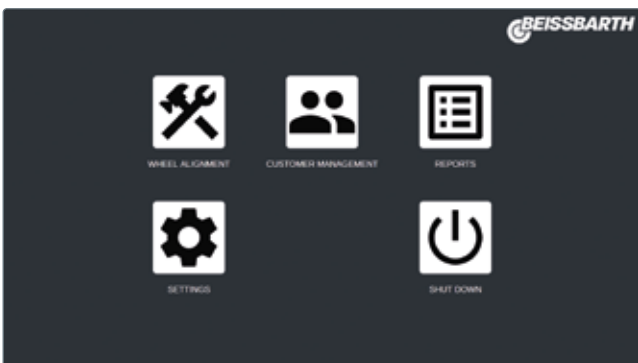
Optimized runout compensation



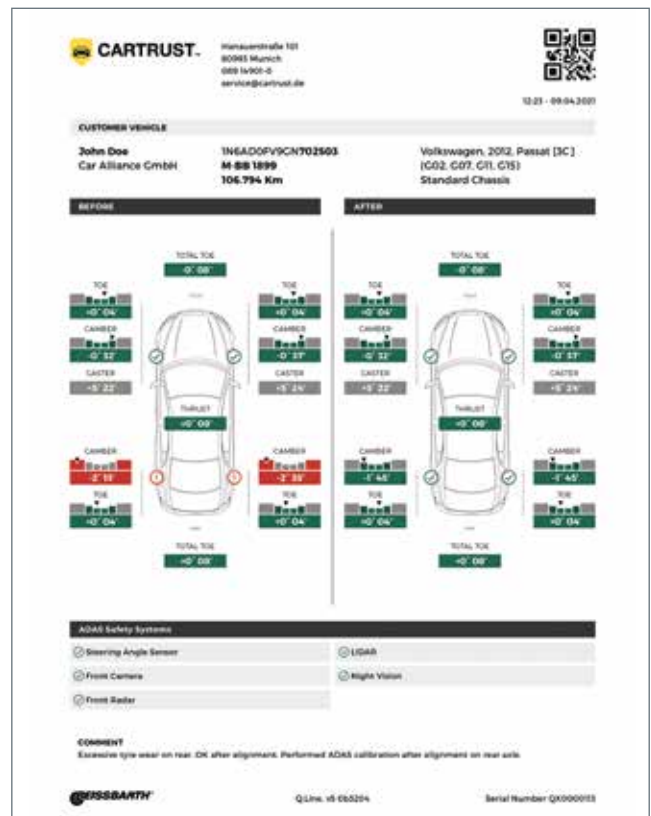
On-the-fly steering lock for quick results



Database including all vehicle manufacturers



Easily understood system settings



Easy-to-understand printouts



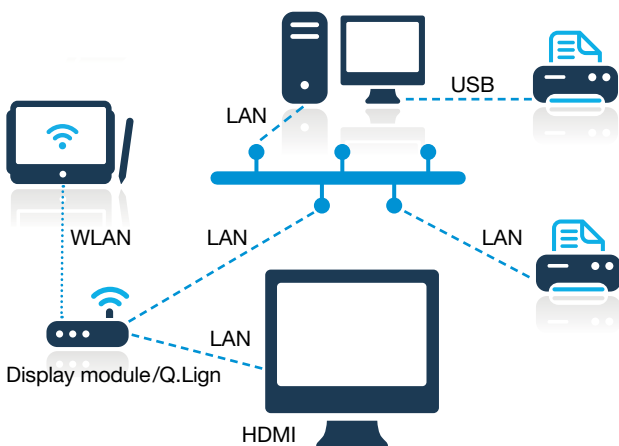
# Q.Lign: extremely quick, compact, connected

DATE	CUSTOMER	VEHICLE	REPORT
Thu, 2/11/2021, 9:18 AM	—	TOYOTA Hilux	
Wed, 2/10/2021, 12:55 PM	Florence Biggen	—	
Wed, 2/10/2021, 12:55 PM	Antoniette Marrone	LINCOLN MK VIII	
Wed, 2/10/2021, 12:55 PM	Antoniette Marrone	—	
Wed, 2/10/2021, 12:55 PM	Luka Rundlösch	LINCOLN MK VIII	
Wed, 2/10/2021, 12:55 PM	Mechâld Karge	MERCEDES-BENZ Sprinter (W906)	
Wed, 2/10/2021, 12:55 PM	Alan Smith	—	
Wed, 2/10/2021, 12:55 PM	Bernadette Schweitzer	—	
Wed, 2/10/2021, 12:55 PM	Gredi Schiaparelli	—	
Wed, 2/10/2021, 12:55 PM	Mohammed Crist	TESLA Model 3	
Wed, 2/10/2021, 12:55 PM	Oliver Luta	—	
Wed, 2/10/2021, 12:55 PM	Egon Valmarana	MERCEDES-BENZ Sprinter (W906)	
Wed, 2/10/2021, 12:55 PM	Egon Valmarana	—	
Wed, 2/10/2021, 12:55 PM	Gottlob Rienzo	TESLA Model 3	
Wed, 2/10/2021, 12:55 PM	Gottlob Rienzo	—	
Wed, 2/10/2021, 12:55 PM	Frieder Beier	MERCEDES-BENZ Sprinter (W906)	
Wed, 2/10/2021, 12:55 PM	Frieder Beier	—	
Wed, 2/10/2021, 12:55 PM	Vitus Lombardi	—	

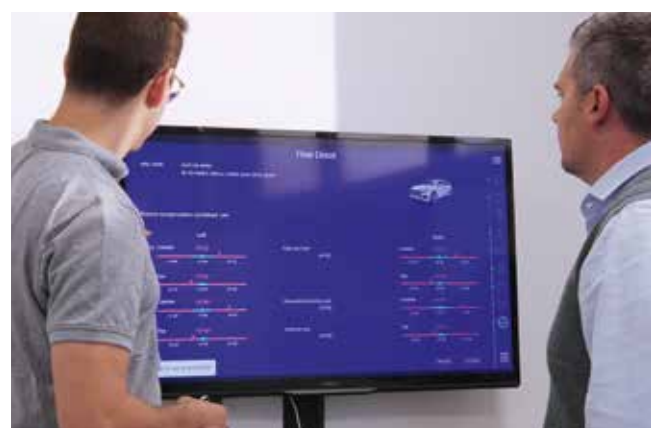
**Stream-to-X:** access to all measurements performed

## Advantages of web-based wheel alignment

- Direct access to all measurement results obtained throughout the entire workshop network
- The results of vehicles measured can be shared with insurance companies and clients as a PDF
- Measurement via tablet or streaming with the customer to be discussed on site
- Using network printers reduces steps and costs
- Permanent supply with programme updates and latest vehicle over-the-air (OTA) updates (in preparation)



**Q.Lign:** perfectly integrates into workshop networks



**Stream-to-X:** Throughout the entire network, workshop personnel and clients are able to access the wheel alignment values via LAN or WLAN.

# Technical data and scope of delivery

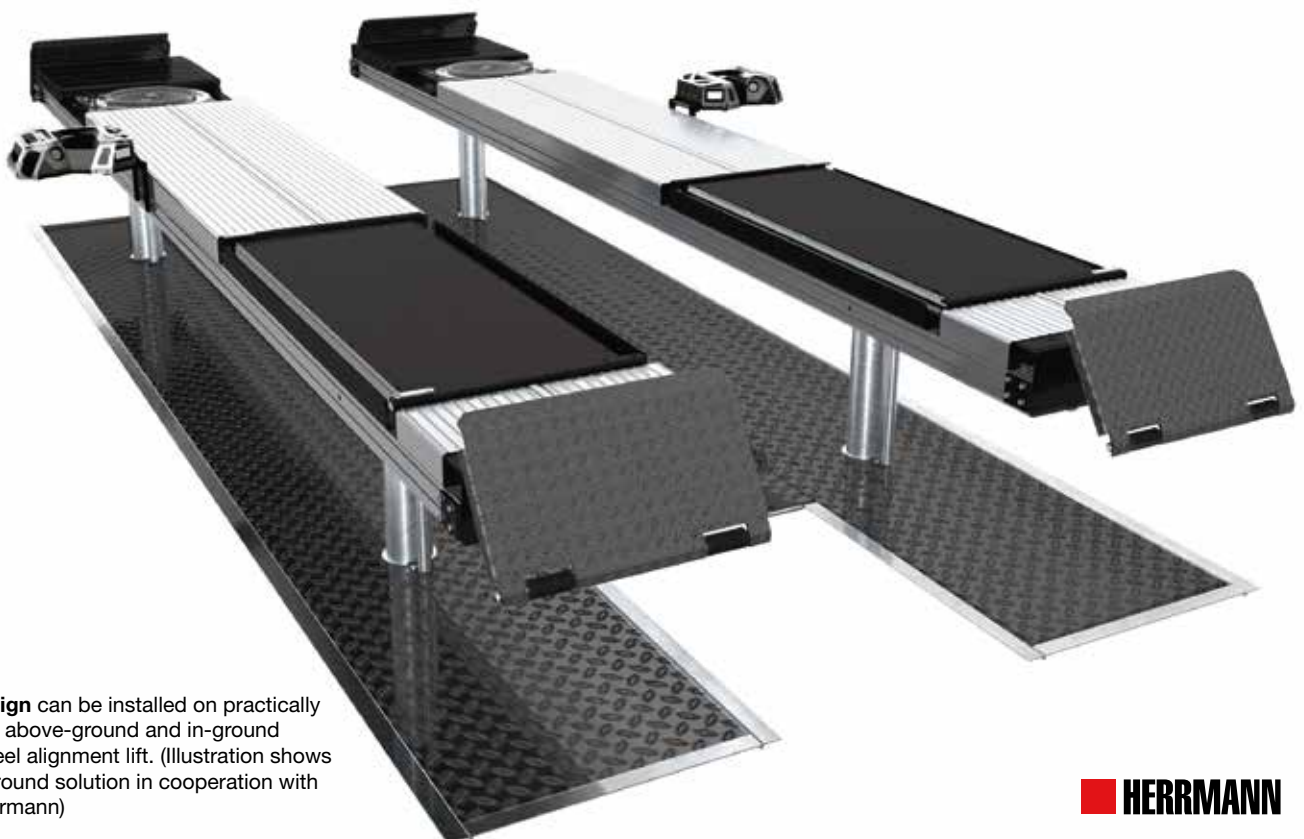
## Q.Lign

### Technical Data:

Description	Data
Dimensions of sensor heads (H x L x W)	137 x 372 x 311 mm
Weight of sensor heads	6 kg
Wheelbase	1800–4500 mm
Span Q.Grip	525 mm–840mm/20.6"–33" wheel diameter
Assembly time Q.Grip	3 sec
Weight Q.Grip	2.65 kg
Side profile lift adaptation	12 mm
Dimensions of trolley, without display (H x W x D)	1111 x 781 x 680 mm
Battery charging time	<3 h
Battery capacity	99.4 Wh
Battery life in full operation	19 h

### Scope of delivery:

Q.Lign	Compact 1 690 200 001	Excellence 1 690 200 002	Kit 1 690 200 003
2 compact Q.Lign sensor heads with OLED displays	●	●	●
Display module for direct streaming to TV, PC, laptop or tablet	●	●	●
4 targets with auto-identification	●	●	●
Lift adaption	●	●	●
2 Li-Ion batteries (right/left)	●	●	–
Charging station	●	●	–
4 Q.Grip wheel holder without rim contact	●	●	–
Front turnplates with filling pieces	mechanical	mechanical	–
Wall board for sensor heads and charging station	●	–	–
Tablet	●	–	–
Trolley with monitor 27" and printer	–	●	–



**Q.Lign** can be installed on practically any above-ground and in-ground wheel alignment lift. (Illustration shows inground solution in cooperation with Herrmann)

# Accessories

## Q.Lign



**Adapter set Q.Grip for Q.Lign** 4 pcs.  
Order number: 1 690 101 010



**Powerbox for Q.Lign**  
Order number: 1 690 201 029



**Duo-battery charging station for Q.Lign**  
Order number: 1 690 201 069



**Battery for Q.Lign, Li-Ion, 99 Wh**  
Order number: 1 690 203 019



**Emergency power box for Q.Lign**  
Order number: 1 690 201 030



**Lift adaptation for Q.Lign**  
Order number: 1 690 201 035



**Tablet for Q.Lign, Android, 10.1"**  
Order number: 1 693 770 644



**Wall board for Q.Lign**  
Order number: 1 690 201 054



**Trolley with 27" monitor for Q.Lign**  
Order number: 1 690 201 055



**Printer for Beissbarth trolleys**  
Order number: 1 693 770 415



**Mouse and keyboard, wireless**  
Order number: 1 693 770 634

### Further accessories:

Description	Order number	Description	Order number
Connecting cable 10 m	1 690 203 025	Filling piece for aluminum <b>standard</b> turntable	1 690 702 082
Connecting cable 15 m	1 690 203 041	Filling piece for aluminum <b>precision</b> turntable	1 690 102 041
Mechanical aluminum turntable, <b>standard</b>	1 690 501 001	Sliding plate for rear axle, short	1 690 401 003
Mechanical aluminum turntable, <b>precision</b>	1 690 401 028	Sliding plate for rear axle, long	1 690 401 004
Electronic aluminum turntable w/o connecting cable, <b>standard</b>	1 690 401 011	Drive-on ramps for two aluminum turntables	1 690 701 052
Electronic aluminum turntable w/o connecting cable, <b>precision</b>	1 690 401 013	Drive-on ramps for turntables and sliding plates	1 690 103 008
Connecting cable for electronic turntables	1 690 403 001	Brake tensioner	1 690 401 006
Protective rubber cover for aluminum turntable	1 690 402 001	Steering wheel lock	1 690 401 007



# Calibration of driver assistance systems in combination with Q.Lign

Only calibrated driver assistance systems provide protection in case of critical situations. ADAS calibration has long since become an indispensable service task of automotive workshops – a service bought in externally or performed right at the workshop.

## Compulsory: ADAS calibration

- in the event of an accident
- in the event of windscreen replacement
- after replacing ADAS sensors
- after performing a chassis adjustment and after numerous other repairs

## Q.Lign: team player at the workshop

Due to its low space requirements, Q.Lign allows performing ADAS calibration on the same work station.

## BBFAS: Beissbarth ADAS calibration

Beissbarth ADAS calibration guides the user through the entire alignment process independently from the diagnostic tester.

- Runout compensation
- Compensation of clamping mistakes
- Digital live monitoring of the alignment
- Digital distance measurement
- Automatic compensation of height differences
- ADAS calibration documented on the wheel alignment protocol



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