



# Drive up, measure, done!

The new **FWA 4630** from Bosch



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# For all passenger cars and light commercial vehicles: Wheel alignment with the FWA 4630

**NEW!** ► FWA 4630 – Wheel alignment for all passenger cars and light commercial vehicles





# The new wheel alignment system:

## Simple, precise and fast



**Pure efficiency:** Precise measured values can be determined after the shortest possible setup time for measurement boards and measuring sensors.

In independent workshops and tire service centers, wheel alignment is often offered as a service for the purpose of customer binding. In many cases, a tire change is sufficient reason for wheel alignment. This can be done at the same time without high additional costs. Adjustment and repair work resulting from wheel alignment guarantee additional turnover in the workshop.

### **In focus with the new FWA 4630**

Short setup times, simple operation and fast results characterize the new wheel alignment system FWA 4630 from Bosch.

### **Drive up:**

The indispensable runout compensation can now be carried out with total precision in no time at all. Following setup, you simply drive the car into the correct position. Tedious and dangerous pushing on the platform is a thing of the past.

### **Measure:**

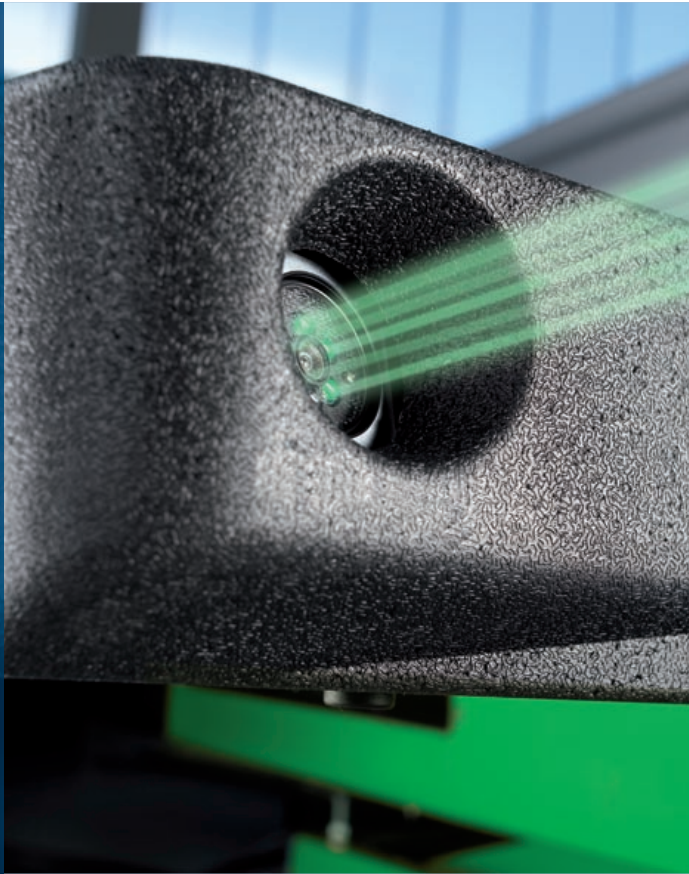
A new dimension in wheel alignment: The FWA 4630 represents a new generation in wheel alignment technology and offers everything that the modern workshop could desire: Fast, precise measured data acquisition of toe, camber, thrust line, axle and wheel offset and, following 20° steering routine, caster and kingpin angle.

### **Done:**

In only 7 minutes! In the shortest possible time and with the help of various measuring programs, workshops have all information related to the chassis as well as printable measured results, that nowadays form the basis of a competent customer discussion.

# Built for daily workshop operation:

## Robust and safe



Sensor head covers made of EPP (extruded polypropylene)



Simple operation: Vehicle does not have to be raised during the measur

### FWA 4630: The advantages

- ▶ **Setup times reduced considerably**  
Simple positioning of the light measurement boards and sensor head saves you valuable time!
- ▶ **Fast measurement combined with high accuracy**  
Fast rolling runout compensation and consistently accurate on all four wheels simultaneously without having to lift the vehicle.
- ▶ **Competence based on precise measuring technology**  
The unique 3D measuring technology of FWA 4630 permits automatic, high precision measurements. High reproducibility of the results guarantees reliability and competence even in the case of repetitions.
- ▶ **Designed for tough daily workshop operation**  
The robust and ergonomic design is geared towards practical handling in daily workshop operation right up to the finest detail.

### Competence and precision

High accuracy is guaranteed right from the start through rolling runout compensation. The measurement is carried out according to 3D measuring technology using two precise CCD cameras per wheel. The integrated reference system as well as camber and inclination pendulum in each sensor head ensure reliable, reproducible measured results without complicated and error-prone calibration. Thanks to reference system, the sensor heads of the FWA 4630 do not even have to be fixed to a lifting platform.

### Mobility for the complete system

Lifting platforms designed for wheel alignment simply need to be fitted with special support brackets for the sensors. This means that an FWA 4630 system can be used on more than one lifting platform in the workshop if required. It is ideal for use in a wheel alignment pit, with the sensors simply placed on the floor next to the vehicle. The reference system uses a gravitational force reference to guarantee correct results.



# Exclusive reference system: Automatic position detection



ing procedure

No electronics on the wheel

## Robust, safe and mobile for use in the workshop

- ▶ Ergonomic, bump and shockproof design with resilient plastic housing (made of extruded polypropylene): Provides safety for mechanics, vehicle and measuring technology.
- ▶ Resistant to oils and fuels
- ▶ The sensitive sensor heads are replaced by simple measurement boards. No more need for electronics at the wheel.
- ▶ The integrated camber and inclination pendulum in every sensor head ensures an absolute reference for gravitational force and consequent high reproducibility of the measured values
- ▶ The built-in patented reference system makes mobile use of the sensor head possible.
- ▶ Little space requirement

## A large amount of data and simple operation



The vehicle database covers 25.000 vehicles. The User can extend it by individual vehicle specified data.

Regular updates (optional) ensure that new models are integrated quickly. Extensive setting assistances are available for correcting the steering geometry. The well laid-out user interface uses functions typical for Windows to make operation very easy.

Users can select between a guided routine before and after adjustment, a quick measurement without steering swing or random measurement for targeted testing of individual measured values.

# Database and accessories:

Up to date, comprehensive and practical



Simple assembly – the boards only need to be positioned once



Sensor head with CCD camera

## One for all:

With the correct accessories, you can now use a single wheel aligner to measure all passenger cars and light commercial vehicles. Even the standard measurement boards cover all vehicles up to a 340 cm wheelbase. With larger boards at the rear (optional), you can measure up to 430 cm wheelbase.

## The right cable set for every testing station

Three optional cable sets are available for the FWA 4630 depending on the existing testing station. Can be fitted in scissor lifts, four-column lifts or pits.

## Clear the stage for wheel alignment

Precise installation is guaranteed by the lift fastening elements (special accessories):

- ▶ Type 1 for practically all top-floor lifts
- ▶ Type 2 for inground lifts

When placing your order for the installation of the mount, please specify the manufacturer and type and designation of your lift.

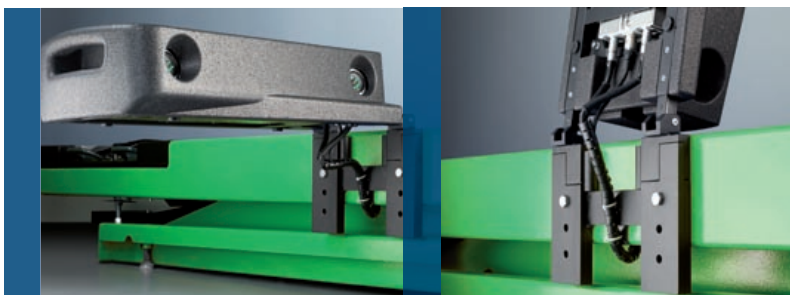
## Equipment supply

Sensor heads (2 pieces), switch, hub, test box, trolley, 17" monitor, multilanguage PC, printer, program, specified data (cars & vans), dongle (USB), licenses, standard boards (4 pieces), steering wheel lock, brake pedal lock

## Order number

FWA 4630

1 690 700 002



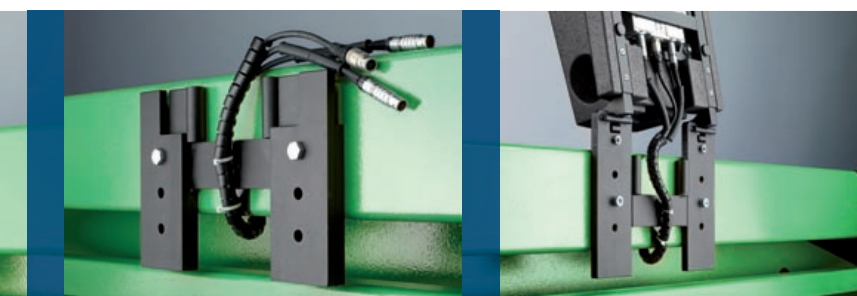
# Facts and figures on the FWA 4630:

## Overview of technology

Weight and dimensions	
Trolley with measuring sensor	1520 x 1180 x 770 mm
Trolley without measuring sensor	1520 x 880 x 770 mm
Sensor head	150 x 370 x 650 mm
Sensor head weight	approx. 9.3 kg
Total weight of trolley	approx. 110 kg

Power unit	
Input voltage	110 to 240 V AC (10A)
Input frequency	50 to 60 Hz
Output	0.5 kW

Special accessories	Order number
Wheel brackets (Universal clamp, set of four pieces) or Multi-Quick clamp (four required)	1 690 311 010 1 690 401 001
Turntables, mechanical, aluminum (two required)	1 690 401 011
Filler pieces for turntables (four required)	1 683 391 224
Accessories trolley for wheel brackets/panels	1 690 701 041
Wall bracket for wheel brackets/panels	1 690 701 040
Cable set, pit	1 690 701 028
Cable set, four-column lift	1 690 701 029
Cable set, scissor lift	1 690 701 030
Boards for LWB, two pieces, rear, set of two	1 690 701 012
Lift bracket, top-floor lifts	1 690 701 020
Lift bracket, inground lifts	1 690 701 018
English keyboard	1 690 323 018
Ramp, parts set per turntable	1 690 701 044
Step-on protection, set of two	1 690 701 045



### Detailed perfection

Depending on the properties of the lifting platform: Sensor mounts for above-floor and underfloor lifts



# Bosch: **Skilled partner** for workshop business

## Developments from Bosch stand for innovative progress in automobile manufacturing

Geared to the growing proportion of electronics in the vehicle, Bosch offers workshops the suitable test equipment for all sizes of company and service concepts. Sturdy, innovative, state-of-the-art automobile technology: Computer-assisted diagnosis systems help in finding any fault more quickly and more reliably. The modular layout using future-oriented technologies enables broad networking and efficient use of comprehensive information from the ESI[tronic] software. Mobility and user-friendly user guidance support the workshop in reliable and time-saving diagnostics.



ECU Diagnostics KTS



Engine System Testing FSA



Emission Analysis BEA



Diesel System Testing EPS



Battery Service BAT



Air Conditioning Service ACS



Wheel Alignment FWA



Tire service TSE



Brake Testing BSA

Where to find Original Bosch Quality:



**Your automotive solutions partner**

Note: Specifications may differ slightly on Australian models.

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