



# Wheel Aligners and Accessories



**BOSCH**

Invented for life



# FWA 4630 Easy 3D

## 3D Wheel Alignment System



**Precise and efficient wheel alignment for all passenger and light commercial vehicles, using the most advanced 3D technology.**

The FWA 4630 Easy 3D Wheel Aligner is the most precise and efficient aligner on the market! Capable of performing alignments in as little as 7 minutes, the Easy 3D is designed help increase your customer satisfaction and repeat business.

\*Lift not included.

## Simple Set Up and Fast Measurements

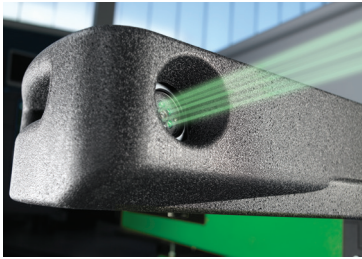


Electronic sensors at each wheel are replaced by simple measurement boards. Assembly is easy, the boards only need to be positioned once. Capable of handling all vehicles, up to 175" (approx.) wheelbase.



### Ultimate Flexibility

Depending on the properties of the lift platform, camera can mount for top-floor or in-ground lifts.



Easy to use software provides flexibility in the alignment process to aid novice and expert technicians. Offers quick measurements or guided procedures.

F00E900326 FWA 4630 Easy 3D Aligner

## Essential Features:

### Space Saving

- ▶ There is no required bay depth for fixed installations in front of the alignment rack. Portable, hinged brackets allow the ability to move the camera pods as needed without having to recompensate.

### Reduced Setup Time

- ▶ Simple and accurate positioning of measurement boards and camera pods to save valuable time, lifting the vehicle is no longer required.

### Fast and Accurate Measurement

- ▶ Fast rolling runout compensation with consistent, simultaneous accuracy on all four wheels with high reproducibility of results.

### Fully Mobile for Alignment or Audit Use

- ▶ On-site calibration during installation is not required.
- ▶ Camera pods can be attached to any alignment rack, alignment pit, or no pit at all. Simply place cameras on the floor, next to the vehicle.

### Tough Enough for Daily Operation

- ▶ Ergonomic, bump and shock proof design with extruded polypropylene housing provides safety for mechanics, the vehicle and measuring technology.

## Specifications

Trolley with Camera Pods	59.8" x 46.4" x 30.3" (1520 x 1180 x 770 mm)
Wheel Clamps	Diameter range 13"-24.5" nominal w/ alloy wheel studs included
Camera Pod	5.9" x 14.5" x 25.5" (150 x 370 x 650 mm)
Camera Pod Weight	approx. 20.5 lbs (9.3 kg)
Total Weight of Trolley	approx. 242.5 lbs (110 kg)
Power Requirements	110 V AC, 1 Ph NEMA 1-15 P, 50/60 Hz
Output	500 W

# FWA CCD Aligners

## One-wheel alignment program for cars and light commercial trucks targeting high volume wheel alignment workshops.

Open off the shelf architecture design allows for user enhancements and standard Windows XP Pro functional software. On-screen support and clear instructions from beginning to end. Fast and simple to operate. Three system routines increase the efficiency of the measuring process with choices tailored to user's needs. Alignment measurements are displayed with an automatic comparison to vehicle specific target data. Wheel run-out not required on most wheels with standard multi clamps. Sensors can effortlessly be calibrated by the user – calibration bar is included.



## Multi-Quick Clamp



The new Multi-Quick Clamp attaches to the world's most modern wheels (up to 24") quickly and easily no mar contact. Ensures non-runout induced elimination of time consuming runout compensation procedures on most wheels. Unlike other systems that may offer this feature as an expensive option, Multi-Quick Clamps are standard on all FWA CCD based alignment systems.



**FWA 4437 8R**

Eight camera CCD technology provides instantaneous 360° reading to ensure accuracy. Drop down front spoiler program automatically reads toe across rear axle when front sensors are blocked.

**Essential Features:**






- ▶ Additional measurement screen that is important for body and frame damaged vehicles
- ▶ New digital 20° CCD cameras with extended toe measuring range and integrated camber pendulum
- ▶ 8-sensor system is a permanent calibration monitoring system
- ▶ 6-sensor system, 2 front heads and 2 rear heads
- ▶ Additional measurements such as wheel offset, axle offset and track width difference
- ▶ Exceptionally high accuracy and repeatability
- ▶ 8-sensor, wireless, Multi-Quick Clamps, printer, calibration kit (turnplates not included)
- ▶ 6-sensor, corded, Multi-Quick Clamps, printer, calibration kit (turnplates not included)
- ▶ 6-sensor, wireless, Multi-Quick Clamps, printer, calibration kit (turnplates not included)

F00E900131 FWA 4437 8R CCD Aligner, 8-sensor, wireless  
 F00E900133 FWA 4332 6R CCD Aligner, 6-sensor, wireless  
 F00E900135 FWA 4310 6C CCD Aligner, 6-sensor, corded

Specifications	FWA 4437 8R	FWA 4332 6R	FWA 4310 6C
Dimensions (H x D x W) including 19" color monitor	63" x 31.5" x 38.5"	59.84" x 30.31" x 34.65"	59.84" x 30.31" x 34.65"
Power Supply	110 V AC, 1 Ph NEMA 5-15 P, 50/60 Hz	110 V AC, 1 Ph NEMA 5-15 P, 50/60 Hz	110 V AC, 1 Ph NEMA 5-15 P, 50/60 Hz
Standard Clamping Capacity	12"-24" (up to 30" optional)	12"-24" (up to 30" optional)	12"-24" (up to 30" optional)
Wheel Base	up to 34'	up to 34'	up to 34'
Minimum PC Specifications	Power PC, Intel 2.4 GHz CPU, DVD Rom/CD multidrive, Windows XP Professional, network card, standard 19" monitor and color printer	Power PC, Intel 2.4 GHz CPU, DVD Rom/CD multidrive, Windows XP Professional, network card, standard 19" monitor and color printer	Power PC, Intel 2.4 GHz CPU, DVD Rom/CD multidrive, Windows XP Professional, network card, standard 19" monitor and color printer



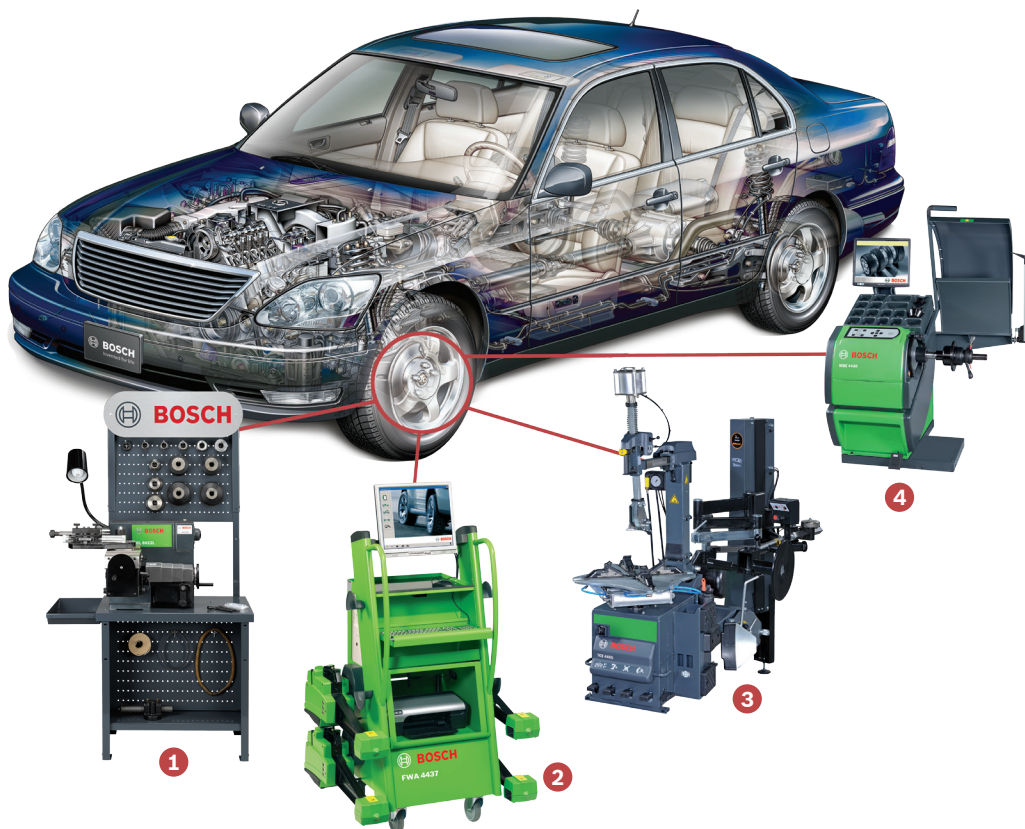
# Wheel Aligner Accessories

Description	Part Number	Photo
Wheel Clamp Stand for Quick and Multi-Quick clamps (Wheel Clamps not included)	F00E900298	
Lip Less Adapter for Quick clamp and Multi Quick Clamp when mounting to rims with no lip – sold each (Comes standard with new clamps)	932405621	
Lip Less Adapter Set, Precision Quality – Coated Metal, Set of 12	932402092	
Lip Less Adapters for softline rims (12 pieces, 30° cut of) with spacer ring, Only usable for Multi/Quick clamps <2001	932403161	
50 mm Spoiler Adapter, Two Required Per Axle, sold each	850001633	
Dual Wheel Adapter Extension – 6 Required – Front Axle, sold each	932399212	
New Style Multi Quick Clamp (After March 2010) Zero Induced Runout, 10"-24" Rims, push button tire grabbers, sold each	1690501250	

Description	Part Number	Photo
24" Universal Screw Type Wheel Clamp, set of four	19020165	
Mercedes Benz Specific Wheel Clamp	933801267	
BMW Specific Wheel Clamp	933801092	
Porsche OE Wheel Special Centering Clamps, Kit – OEM Porsche Wheels (Set of 4 Clamps with case)	932301176	
Easy 3D Magnetic Wheel Adapter for BMW (set of 4)	1690701051	
Large Tire Clamping Arm Set - Tires from 10"–38" (8 pieces), Updates 4 Clamps	932402069	
Extension arms set for 17"–26" rims (12 pieces)	932402068	
Set of 5 Spacing Pins For MB and BMW used with MultiQuick Clamp – One Set Required Per Clamp	932401126	
30" Clamp Extensions for 24" Screw Clamp (set of 16)	F00E900796	
Mercedes Toe Spreader Bar P874	860000883	
Easy 3D Wheel Aligner cover	1690702201	
Standard NON-Electronic Turnplates – Pair 932501210, 2K Lb. Capacity 450X450X50mm	F00E900328	
Turnplates-Steel w/ Turning Angle Pointer - Pair, 3K Lb. Cap., US Standard Size	22-00112	
Turnplates-Stainless Steel w/ Turning Angle Pointer - Pair, Capacity 3K Lb., US Standard Size	22-00113	

## Bosch Wheel Service Equipment

Bosch offers a complete line of high quality wheel service equipment designed to increase repair shop efficiency, and maximize profitability. Bosch also provides an array of undercar and underhood diagnostic and test equipment and software. To learn more, visit [www.boschdiagnostics.com](http://www.boschdiagnostics.com). To place an order, contact customer service at **1-800-551-2228**.



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| <p><b>1</b></p> <p><b>Brake Lathe Equipment</b></p> <ul style="list-style-type: none"> <li>▶ BL8922L</li> <li>▶ BL8944L</li> <li>▶ BL8991 Shop</li> <li>▶ BL8993 Shop</li> </ul> | <p><b>2</b></p> <p><b>Wheel Alignment Equipment</b></p> <ul style="list-style-type: none"> <li>▶ FWA 4630 Easy 3D</li> <li>▶ FWA 4437 8R CCD</li> <li>▶ FWA 4432 6R CCD</li> <li>▶ FWA 4310 6C CCD</li> </ul> | <p><b>3</b></p> <p><b>Tire Changing Equipment</b></p> <ul style="list-style-type: none"> <li>▶ TC 220S</li> <li>▶ TCE 4230</li> <li>▶ TCE 4335THP</li> <li>▶ TCE 4465THP</li> <li>▶ TCE 4465THPL</li> <li>▶ TCE 4540</li> </ul> | <p><b>4</b></p> <p><b>Wheel Balancing Equipment</b></p> <ul style="list-style-type: none"> <li>▶ WBE 4110</li> <li>▶ WBE 4140</li> <li>▶ WBE 4230</li> <li>▶ WBE 4430</li> <li>▶ WBE 4510</li> <li>▶ WBE 5210</li> </ul> |
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