

# *HawkEye Elite® Alignment Systems*

*Greater profit and productivity through innovation*



**HUNTER**  
Engineering Company

# Hunter's latest productivity features!

**PATENTED**



## New adaptor design!

- ▶ *Faster setups!*
- ▶ *No metal-to-metal contact!*
- ▶ *No knob twisting!*

**PATENTED**



## New target design!

- ▶ *Lighter design!*
- ▶ *Narrower profile!*
- ▶ *Faster readings!*

**HawkEye**  
*Elite*





### **Faster Caster®!**

Saves time, increases speed and reduces battery drain from brake light draw.



### **High-resolution cameras!**

Four high-resolution cameras provide alignment measurements with pinpoint accuracy.



### **Recall specs in a snap!**

Recall OE specs and vehicle-specific alignment procedures instantly.\*\*



### **Patented steering system reset integration!**

Reset computerized steering systems on a wide variety of vehicles with one simple tool.



**EXCLUSIVE**

### **QuickComp®!**

Compensate all wheels and capture initial measurements in one motion.



**EXCLUSIVE**

### **New console design!**

Integrated storage and charging for popular accessories.\* †



\* Available only on mobile WA400 consoles.

\*\* Standard with WA400 consoles, optional with WA300 consoles.

† Remote Indicator sold separately.

# New QuickGrip® wheel adaptors & three-dimensional

Hunter's patented QuickGrip® adaptors and three-dimensional targets accelerate service with set-up times in seconds instead of minutes...

**HawkEye**  
**Elite**

## Extremely Fast Installation



- ✓ Spring-loaded arms grip the tire
- ✓ Thumb switch secures the clamp
- ✓ Off-center clamping has no effect on accuracy

## Avoid Damage to Expensive Rims



- ✓ Grips tire, not rim
- ✓ No metal-to-metal contact
- ✓ Only protective ring contacts rim

## Less Weight



- ✓ Weighs only 6 lbs.
- ✓ Nearly 50% lighter than previous designs

## Space-Efficient Profile



- ✓ Approx. 9" profile
- ✓ Easy to work around
- ✓ Great for narrow bays



**targets**



**PATENTED**



### Quick-Change Arms



- ✓ Interchangeable arms cover up to 37" assemblies
- ✓ One arm fits approximately 90% of applications

### Deep-Wheel Extension



- ✓ Deep rims or protruding hubs, no problem
- ✓ Standard accessory

### Wide-Angle Targets



- ✓ Perform max steer procedure, as needed
- ✓ Standard accessory

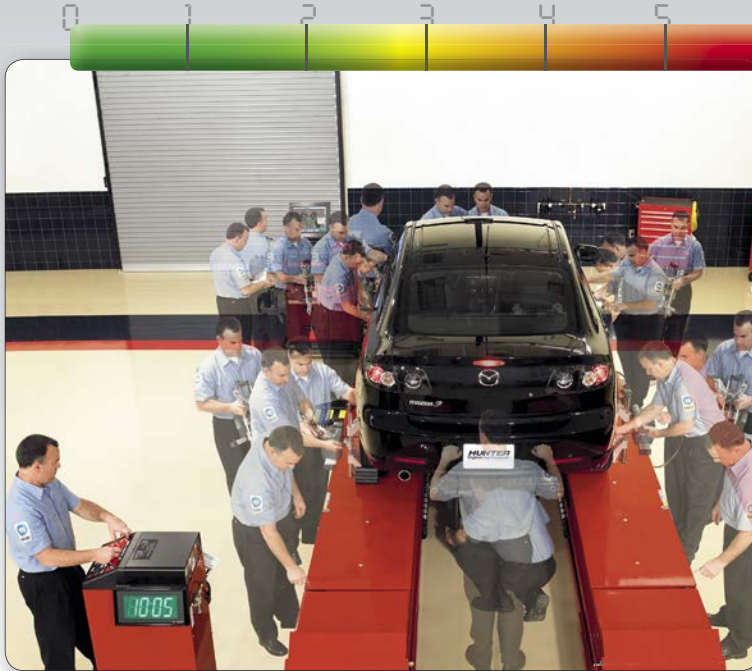
### Low Maintenance



- ✓ Shop-tough polymer structure withstands drops
- ✓ No electronics, cables or calibration
- ✓ Only occasional cleaning required

# Previous setups used valuable shop time...

## Conventional electronic-sensor system – 10-minute-plus procedure



- ✓ Chock wheels and lift vehicle
- ✓ Jack up front and rear of vehicle
- ✓ Check air pressure and recall specs
- ✓ Mount all 4 sensors, compensate each sensor, and remove pins
- ✓ Lower rear and front of vehicle and jounce
- ✓ Steer caster
- ✓ Print results

**10:05 Total**

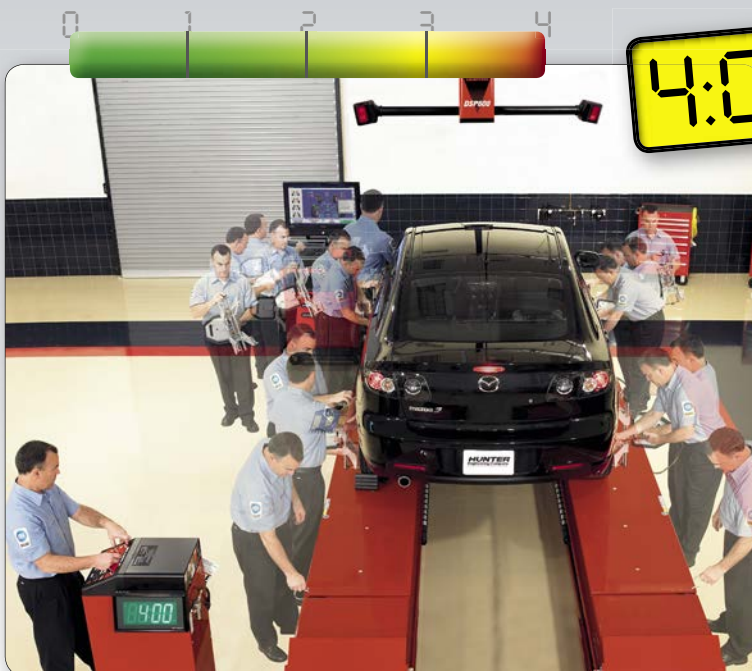
10:00+

### ACTIVITY TRACKER



**Older technology requires long set-up times...**

## Camera-sensor systems speed up the process

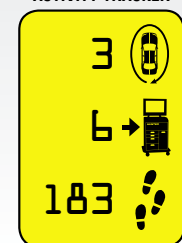


- ✓ Chock wheels and lift vehicle
- ✓ Check air pressure and recall specs
- ✓ Mount targets
- ✓ Roll backward, then forward to compensate
- ✓ Remove pins
- ✓ Steer caster
- ✓ Print results

**4:00 Total**

4:00

### ACTIVITY TRACKER



**Early camera technology improved efficiency...**

# ...Today, present your results in just 90 seconds!



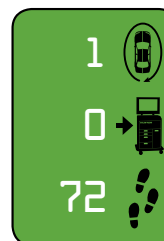
**Hunter's HawkEye Elite® and Premium RX Lift capture all readings and produce measurements in 90 seconds!**

### Hunter's 90-second procedure

- ✓ Chock wheels and raise lift to work height
- ✓ Mount targets and set air pressure
- ✓ Roll forward to compensate sensors
- ✓ Scan VIN to recall specs and perform faster caster steer
- ✓ Vehicle results print automatically

**1:30 Total**

### ACTIVITY TRACKER



1 trip around the vehicle

0 trips to the console

72 total walking steps



**Fast printouts in 90 seconds!**

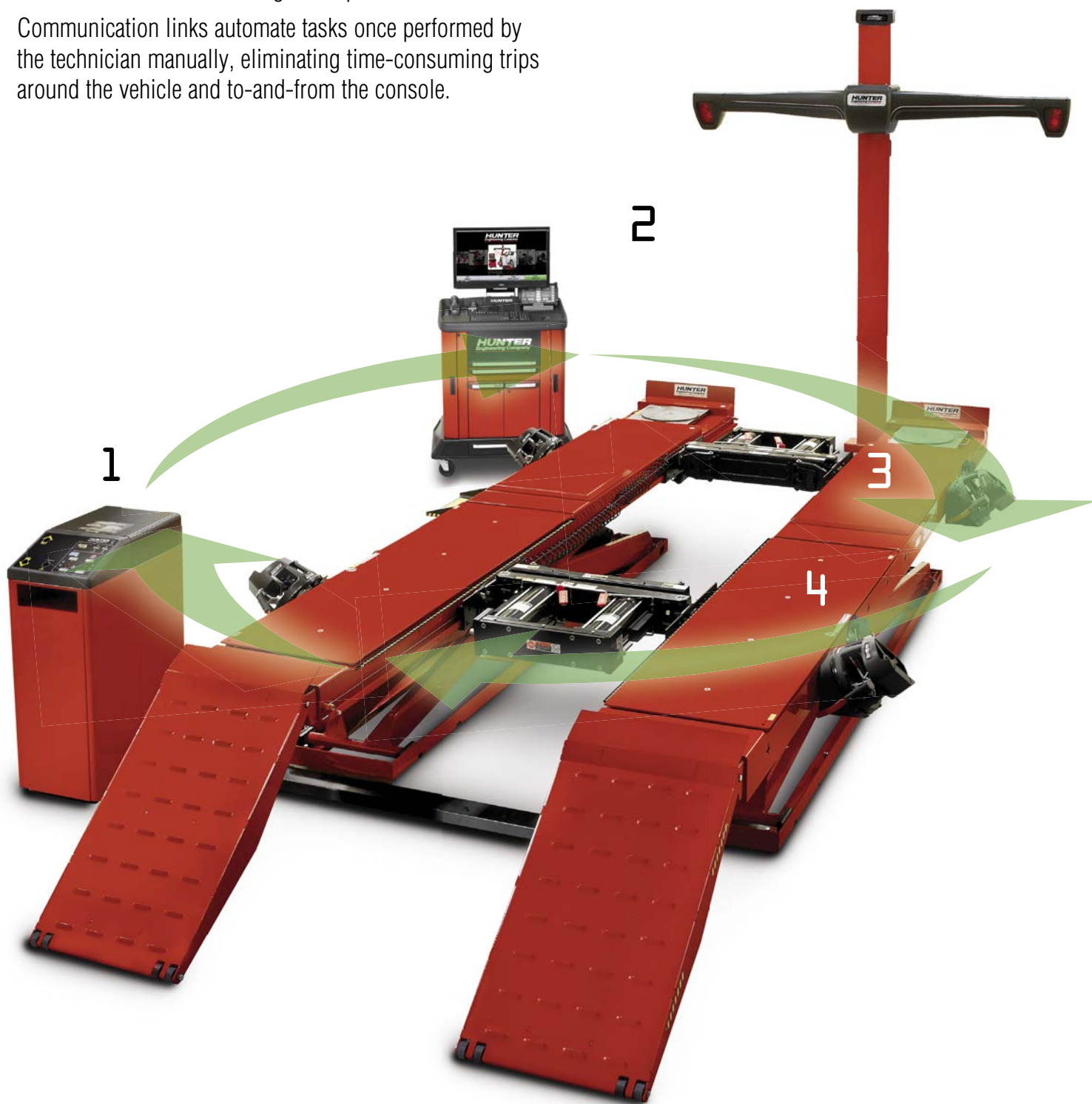
Use detailed printouts featuring your company's logo to sell more work.

# FIA Fully Integrated Alignment



FIA streamlines the entire alignment process.

Communication links automate tasks once performed by the technician manually, eliminating time-consuming trips around the vehicle and to-and-from the console.





**PATENTED**

1



### RX Scissor Lift console

- ✓ Raising the vehicle triggers the sensors to look for wheel targets
- ✓ Control PowerSlide® and Inflation Station settings on the lift console
- ✓ Store bar-code scanner and CodeLink® tool near the vehicle to save steps



**H AlignLights turn on automatically at alignment height**

**PATENTED**

2



### WinAlign® console

- ✓ Centralized control of entire system
- ✓ Communicate directly with lift to set tire pressure and automatically operate turnplates and slipplates
- ✓ Guide the technician through the alignment process



**H Measurements are taken automatically once the fourth target is installed**

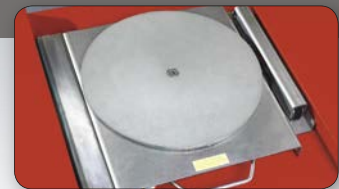
**PATENTED**

3



### PowerSlide® system

- ✓ Slipplates and turnplates automatically lock and unlock at appropriate times
- ✓ No more struggles with lock pins



**H Auto-locking turnplates and slipplates save trips around the vehicle**



**PATENTED**

4



### Inflation Station

- ✓ Automatically inflate all four tires simultaneously
- ✓ Record starting and final pressure
- ✓ Hose recoils to keep work area clear



**H Software tracks before and after tire pressures for the customer's printout**



# CodeLink® – The new last step in alignment service

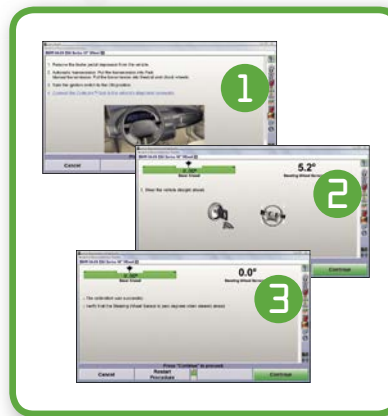
CodeLink® directly "links" the vehicle OBD-II to the aligner to reset steering system sensors, as required by the manufacturer.

## Simple and efficient

- ✓ Automatically identifies candidate vehicles
- ✓ Incorporates reset steps into the alignment
- ✓ Uses aligner screen to display instructions
- ✓ Updates automatically with system software upgrades
- ✓ Dedicated alignment tool



**One tool replaces multiple OEM scan tools**

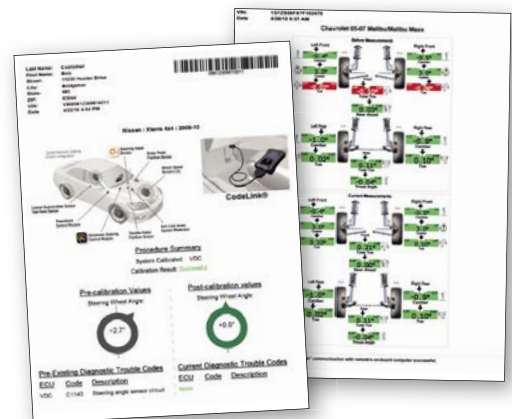


**Simplified reset instructions replace confusing OEM procedures**

## Finishes the job right

- ✓ No other reset tool matches CodeLink®'s patented integration with the alignment procedure
- ✓ Guarantees precision with exact steering system sensor thresholds
- ✓ Reduces errors that result in customer comebacks

**Printed documentation confirms that steering system reset was completed properly**

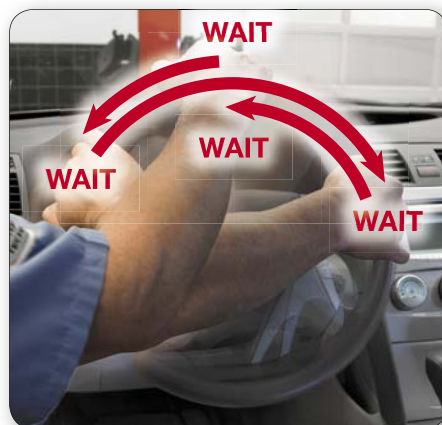


**Some of the more popular OEMs that currently require reset:**

Audi • BMW • Chevy • Ford • Hyundai • Infiniti • Lexus • Mazda • Mercury • MINI • Nissan • Pontiac • Saturn • Scion • Toyota • Volkswagen

# ***New Faster Caster® procedure!***

- ✓ Eliminates wait times during caster steer
- ✓ Saves time and increases speed
- ✓ Reduces brake pedal depressor installation by 86%
- ✓ Reduces battery drain from brake light draw



***No more waiting for left, right, and center readings during caster steer***



***Steer left, right and back center***

# ***Additional features enhance alignment service!***



## **Drive-on camera**

Safely and easily position a vehicle on a lift with one technician. WinAlign® software supports the use of a drive-on camera, which uses the aligner screen as a guide. (Drive-on camera sold separately.)



## **TPMSpecs®**

TPMSpecs® pulls together **over 100** TPMS procedures into a simple, yet comprehensive, user-friendly format for the technician.

# When it comes to award-winning software, WinAlign® is unmatched!

## The importance of software...



Over 30 years of experience and the largest R&D department in the undercar industry bring you the most profitable and productive software on the market.



- ▶ The **most extensive** vehicle information database for North America's 220 million vehicles.
- ▶ **Vehicle-specific** procedures guide your technicians with step-by-step instructions.
- ▶ **Patented and award-winning power tools** complete the work accurately the first time, every time.
- ▶ **WinAlign® maximizes profit and productivity in your alignment bay.**



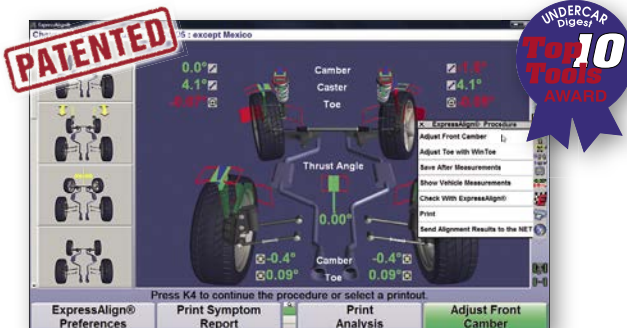
Ordinary systems simply present alignment readings



Ordinary camera systems simply speed up these readings



**WinAlign® maximizes profit and productivity in your alignment bay**



### ExpressAlign®

Perform every alignment with a streamlined procedure. ExpressAlign® analyzes each job and presents the optimal action sequence with the minimum steps required.

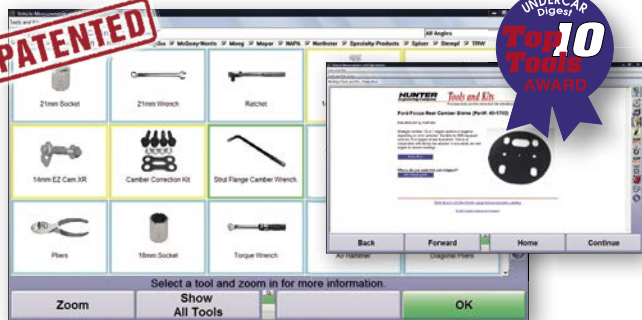


### WinToe®

Ensure a straight steering wheel every time without repeated adjustments or using a steering wheel holder.

**A timesaver on nearly every alignment**

**PATENTED**

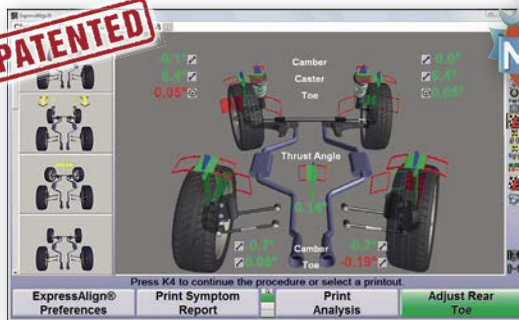


## Tools and Kits Database

Save trips back and forth to the tool box. Hunter presents all of the tools and aftermarket correction kits needed for each alignment.

**+** *Online ordering supported*

**PATENTED**



## Virtual View®

See your alignment job in 3-D using real-time 3-D graphics. Used by experts and novices alike.

**+** *Every alignment can be shown in 3-D*

**PATENTED**

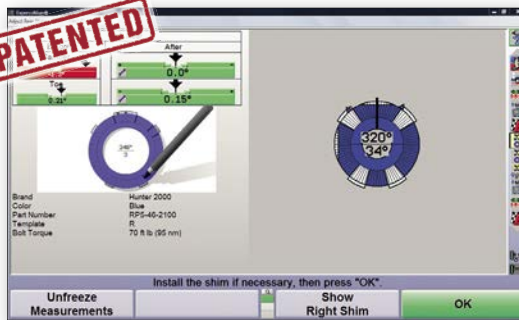


## Control Arm Movement Monitor®

Cut adjustment times in half for front-shim, dual-cam or dual-slot vehicles. Step-by-step graphics let you get it right on the first try.

**+** *Over 60 million vehicles benefit*

**PATENTED**



## Shim-Select® II

Eliminate confusing shim charts and tables. Shim Select II quickly calculates and displays the template you need for proper shim installation.

**+** *Over 30 million vehicles benefit*

**PATENTED**

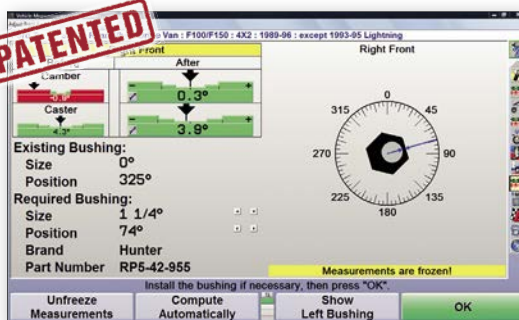


## Wheel-Off Adjustment

Speed the alignment process by making adjustments with the wheel removed.\*

**+** *Available when you need it*

**PATENTED**



## Automatic Bushing Calculator®

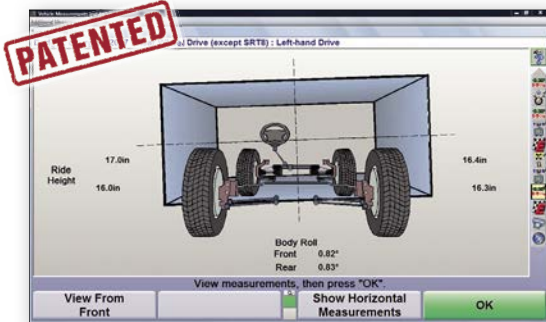
Calculate the proper bushing size and position adjustment without wasting time with a zero bushing.

**+** *Over 10 million light trucks and vans benefit*

\* For three-dimensional targets, both Wheel-Off Adjustment Kit and SCA Adaptor Kit 20-2664-1 is required.

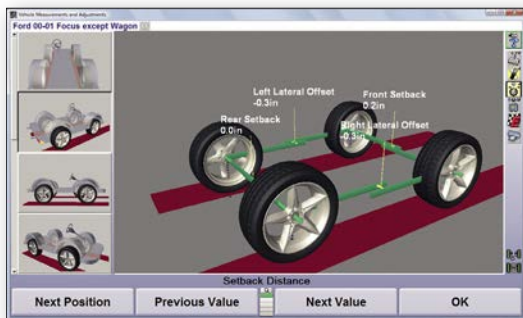
# Take your alignment business to the next level!

Perform body shop alignments...



## Suspension Body Dimension Audit

Quickly screen vehicles to determine alignability and collision repair needs.



## Symmetry Angle Measurements

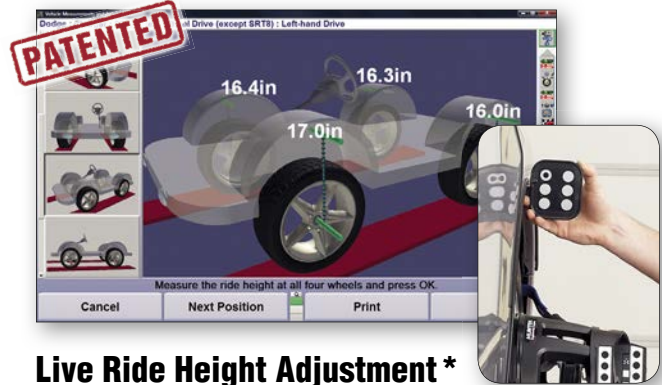
Instantly access symmetry angles and setback for your body shop customers.

## WinAlign® printouts help sell work

Explain needed parts and repairs and show completed work to customers using detailed, color-coded printouts.

**Clear and detailed printouts help you communicate and build rapport with your customers and sell more alignments**

Perform specialty alignments...



## Live Ride Height Adjustment \*

Measure and adjust ride height in real-time.

**Over 20 million vehicles require ride height measurement to complete alignment service**



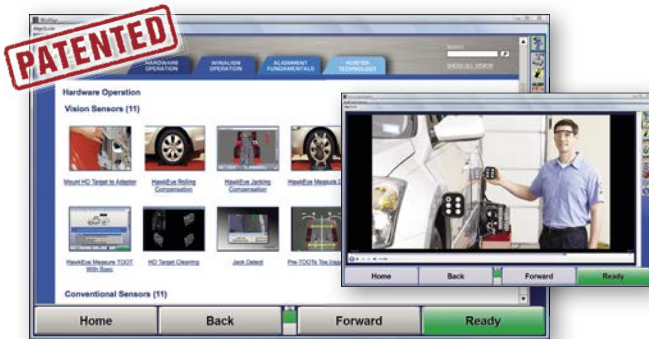
## WinAlign Tuner\*

Perform alignments on tuned suspensions and other modified vehicles with tools to monitor tire wear and handling.



\*Standard with WA400 consoles, optional with WA300 consoles.

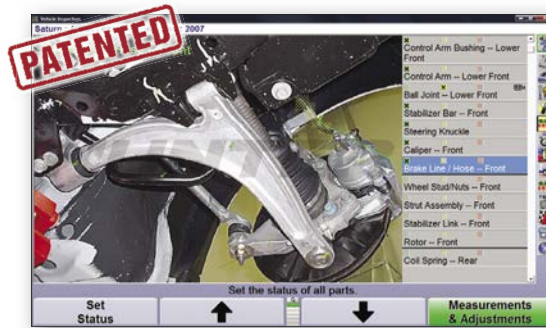
# Help your customers make informed decisions!



## WinAlign® Video Library\*

400+ videos and animations cover all aspects of wheel alignment today.

- ✓ Educate your customers
- ✓ Find answers to unusual problems
- ✓ Extend your service and profit opportunities
- ✓ Strengthen technician competency



## Point & Click Inspection Photos\*

5,000+ vehicle-specific photos and illustrations to assist your shop.

- ✓ Show your customers their hidden repair needs
- ✓ Guide your technicians to the proper inspection points
- ✓ Extend your service and profit opportunities



## The latest specs available online

Download, access and communicate alignment service information through the Internet.

- ✓ WebSpecs®.NET specification database
- ✓ ShopResults.NET® online service\*\*
- ✓ UnderCarInfo.NET subscription\*\*



## Enhance your point-of-sale performance

Provide front-shop personnel with quick, convenient access to vehicle-specific undercar information to explain and sell service.

- ✓ Easy-to-understand videos, animations and images
- ✓ Make more informed pricing estimates
- ✓ Simplify training of service writers

\* Standard with WA400 consoles, optional with WA300 consoles.

\*\* Two-year free subscription for WebSpecs.NET, one-year free subscription for ShopResults.NET and UnderCarInfo.NET.

# Use your aligner to perform Quick Checks!



Use detailed printouts featuring your company's logo to sell more work

- ✓ Total toe front and rear
- ✓ Camber on all wheels
- ✓ Tire wear indication
- ✓ Identifies vehicles that require electronic steering system reset

**OPTIONAL**



## 20-2813-1 CodeLink®\*

Retrieves emission codes. Wirelessly transfers important vehicle information to console.



**OPTIONAL**



## 20-2782-1 Tire Tread Depth\*

Quick and easy tire wear check. Conditions transmitted to console automatically.

**OPTIONAL**



## 20-2781-3 Battery Health\*

Tests battery to OEM specs. Sends results to console wirelessly in 10 seconds.

\* Requires WinAlign® 14.1 software in Quick Check® mode.



# Choose the right alignment console for your shop!

## WinAlign® WA400 Premium consoles

Industry-leading hardware	Processor	3.30 GHz Intel® Core™ i3
	Memory (DDR2)	4 GB of DDR3 SDRAM
	Hard drive	120.0 GB SSD hard drive (or greater)
	DVD-RW/CD-RW drive	Standard
	Monitor class	24" or 27" widescreen LCD (32" available on large console)
	Wireless network module	Standard
	Operating system	Windows® 7
	Three-dimensional target (TD Target®) support	Standard
	Vehicle specifications (30 plus years)	Standard (2 years free updates)
	Large console with drawers	Standard (with WA48X consoles)
	Compact console with printer drawer	Standard (with WA47X consoles)
	Console-top storage and charging station	Standard (with mobile WA400 consoles)



*Large console*

Award-winning productivity tools	<b>PATENTED</b> Award-winning WinAlign® software	Standard
	<b>PATENTED</b> Real-time specs delivered by web	WebSpecs® (2 years standard)
	<b>PATENTED</b> Steering system reset (integrated)	Yes (with standard CodeLink®)
	Bar code reader	Standard
	Quick Check®	Standard
	Complete TPMS reset database	Standard
	<b>PATENTED</b> Live Ride Height adjustment	Standard
	<b>PATENTED</b> Fully Integrated Alignment	Yes (FIA-equipped lift required)
	<b>PATENTED</b> Modified vehicle alignment	Yes (with standard WinAlign Tuner)
	<b>PATENTED</b> Vehicle inspection with photos	Standard
	<b>PATENTED</b> Tools & Kits – basic catalog	Standard
	<b>PATENTED</b> Tools & Kits – video and photos	Standard
	Equipment video help/assistance	Standard
	<b>PATENTED</b> ShopResults (via ShopResults.NET®)	1 year standard
	UnderCarInfo (via UnderCarInfo.NET)	1 year standard
	<b>PATENTED</b> Training and productivity aids	4,000+ photos, 1,600+ illustrations 400+ videos & animations



*Compact console*



*Wall-mount console*

# Choose the right sensor package for your shop!



Fixed-column configurations fit most service bay applications.



Motorized and manual movable-camera configurations provide a full range of vertical travel for additional lift height.



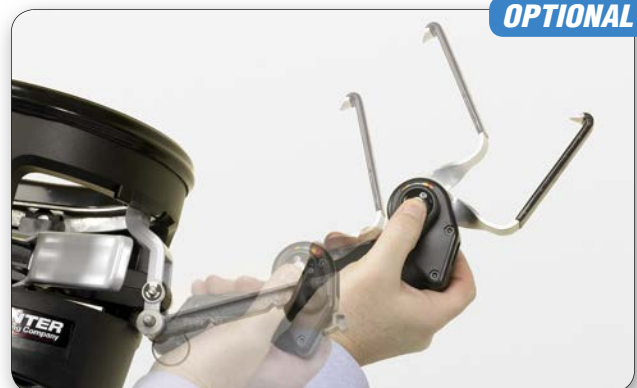
Cabinet-mounted configuration is mobile to service multiple alignment bays and provides a full range of travel for additional lift height.



Wall- and ceiling-mount configurations are perfect when space is at a premium.



Floor-mounted overhead configurations are ideal for drive-through bays or to accommodate unique applications.



One set of adjustable clamp arms covers the same clamping range as standard multi-arm kit.

# HawkEye Elite<sup>®</sup> alignment sensor and adaptor specifications



Specifications	<b>PATENTED</b>	No metal-to-metal contact with wheel	Standard
		Weight of assembly	6 lbs.
		Profile of assembly	9 inches
		Installation time per wheel	5 seconds
		Rolling compensation style	Forward
		Camera resolution	2,608 x 1,952 (pixels per camera) 20,000,000 (pixels total)
		Track width	80 inches
		Wheelbase	210 inches
		Distance to wall*	66 - 107 inches
		Suggested distance*	99 inches
		Short-bay distance (see site info)*	66 inches
	Secondary Measurements		S.A.I. and included angle
		Setback	✓
		Maximum steering angle**	To lock
<b>PATENTED</b>		Live ride height***	✓
		Wheelbase difference	✓
		Track width difference	✓
		Tread width difference	✓
		Lateral offset	✓
		Rear setback	✓
		Axle offset	✓
Body Measurements	<b>PATENTED</b>	SBDA	✓
	<b>PATENTED</b>	Body angle	✓
	<b>PATENTED</b>	Body wheel offset & setback	✓
	<b>PATENTED</b>	Body roll**	✓
Adjustments	<b>PATENTED</b>	Way Up Way Out WinToe**	✓
	<b>PATENTED</b>	Wheel-Off Adjustment	Optional

\* Refer to site requirements for exact bay specifications.

\*\* Requires standard wide-angle target extensions.

\*\*\* Requires Ride Height targets. Standard with WA400 consoles, optional with WA300 consoles.

# Increase revenue with Hunter merchandising!

Introduce your wheel alignment capabilities and educate your customers with great Point-of-Sale options from Hunter.



**World Automotive Services**

ExpressAlign! Made in World 2.0.

Left Front  
Right Front  
Left Rear  
Right Rear

World Automotive Services

World Automotive Services

World Automotive Services

Front  
Center  
Rear

-0.1°	0.0°
4.3°	4.3°
0.00°	-0.11°
-0.7°	-0.2°
0.02°	-0.05°
-0.03°	0.04°
Total Toe	Steer Angle

Sell more alignments with *clear and informative* printouts



## Customized column cap

Make your alignment bay stand out. Hunter's lighted sensor column cap can be customized with your logo or shop name. (available for most sensor configurations)

Be sure to check out other Hunter literature for more quality products from Hunter Engineering.



HawkEye Elite, WinAlign, QuickGrip, QuickComp, Faster Caster, CodeLink, PowerSlide, TPMSpecs, ExpressAlign, WinToe, Virtual View, Control Arm Movement Monitor, Shim-Select, Automatic Bushing Calculator, HunterNet, WebSpecs, ShopResults.NET, TD Target, Quick Check and Quick Tread are registered trademarks of Hunter Engineering Company.

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