HawkEye Elite® Alignment Systems

Greater profit and productivity through innovation

HUNTER
Engineering Company

WinAlign®

HUNTER
Engineering Company

HunterNet®
Connectivity

Hunter's latest productivity features!

Revolutionary adaptor design!

- ✔ Faster setups!
- ✔ No metal-to-metal contact!
- ✔ No knob twisting!

Superior 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.

QuickComp™!

Compensate all wheels and capture initial measurements in one motion.

Recall specs in a snap!

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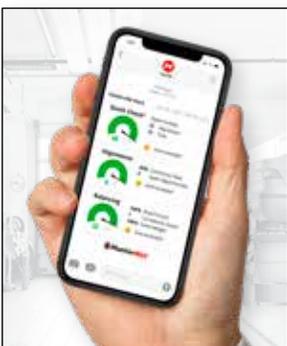
NEW

HunterNet™ connectivity!

Automatic push reports plus online business intelligence tools.

Patented Safety System Alignment integration!

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

* Standard with WA600 consoles, optional with WA500 consoles.

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

PATENTED

Extremely Fast Installation

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

PATENTED

Avoid Damage to Expensive Rims

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

PATENTED

Less Weight

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

PATENTED

Space-Efficient Profile

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

HawkEye Elite

gets

PATENTED

Quick-Change Arms

✔ Interchangeable arms cover up to 37" assemblies

✔ One arm fits approximately 90% of applications
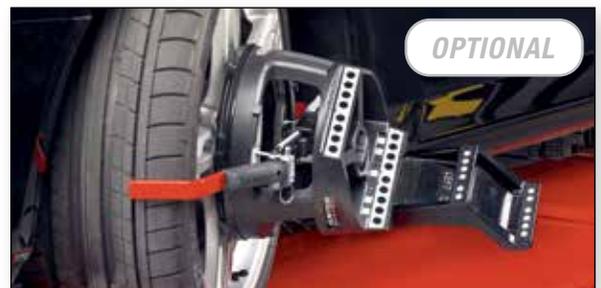
PATENTED

Deep-Wheel Extension

✔ Deep rims or protruding hubs, no problem

✔ Standard accessory

PATENTED

Wide-Angle Targets

OPTIONAL

✔ Perform max steer procedure, as needed

PATENTED

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

Older technology requires long set-up times…

10

✔ 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

ACTIVITY TRACKER

4

6

246

Camera-sensor systems speed up the process

Early camera technology improved efficiency…

4

✔ 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

ACTIVITY TRACKER

3

6

183

...Today, present your results in just 70 seconds!

Hunter's HawkEye Elite® and Premium RX Lift capture all readings and produce measurements in 70 seconds!

Hunter's 70-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

  1:10 Total

ACTIVITY TRACKER

1	🚗	trip around the vehicle
0	🖥	trips to the console
72	👣	total walking steps

Fast printouts in 70 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.

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

AlignLights turn on automatically at alignment height

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

Measurements are taken automatically once the fourth target is installed

3

PowerSlide® system

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

POWER SLIDE®

Auto-locking turnplates and slipplates save trips around the vehicle

4

Inflation Station

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

INFLATION STATION

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

Requires FIA lift. See RX or Four-Post lift brochures for details.

Hunter's Safety System Alignment: Over 100 million vehicles require Safety System Alignment... and growing!

Electronic Stability Control

✔ Since 2009, Hunter has supported electronic steering system resets as required by the OEM

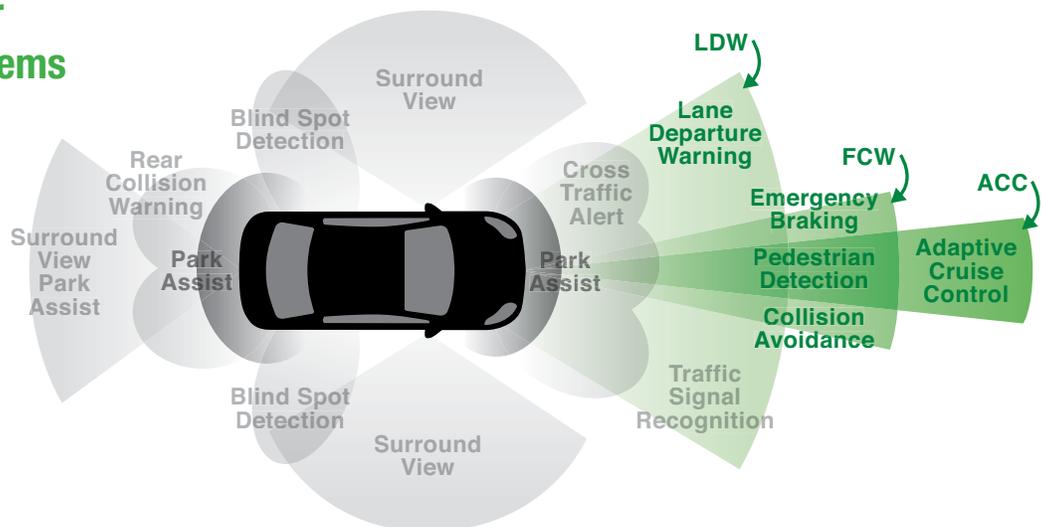✔ Several systems use electronic steering system output to determine the vehicle's travel direction

Steering Angle Sensor

Chart — vehicles requiring Safety System Alignment (MILLIONS), 1999–2020:
- 1999: 0
- 2000: ~0
- 2001: ~1
- 2002: ~1
- 2003: ~2
- 2004: ~3
- 2005: ~5
- 2006: ~7
- 2007: ~10
- 2008: ~14
- 2009: ~16
- 2010: ~20
- 2011: ~25
- 2012: ~32
- 2013: ~42
- 2014: ~50
- 2015: ~62
- 2016: ~74
- 2017: ~85
- 2018: ~95
- 2019: ~108
- 2020: ESTIMATE ~115

Source: Hunter Engineering Company research

A growing number of vehicles also require additional resets

Advanced Driver Assistance Systems

✔ Many vehicles are now equipped with ADAS

✔ Many systems require a calibration after wheel alignment

✔ Often require a short drive be completed as part of the calibration

Diagram labels: Surround View, Blind Spot Detection, Rear Collision Warning, Surround View Park Assist, Park Assist, Blind Spot Detection, Surround View, Cross Traffic Alert, Traffic Signal Recognition, Collision Avoidance, Pedestrian Detection, Emergency Braking, Lane Departure Warning, LDW, FCW, ACC, Adaptive Cruise Control

Hunter's Safety System Alignment: The last step in alignment service

An increasing number of vehicles include advanced driver assistance systems (ADAS). In addition to a mechanical alignment, manufacturer's specifications often require a Safety System Alignment® on many vehicles equipped with ADAS Systems.

ADAS systems most likely to require reset

✔ Lane Departure Warning (LDW) - Camera-based
✔ Forward Collision Warning (FCW) - Radar-based
✔ Adaptive Cruise Control (ACC) - Radar-based

The only integrated, complete alignment procedure

CodeLink's patented integration "links" the vehicle OBD-II system to the aligner to align safety system related sensors to the vehicle's alignment geometry.

CodeLink® advantages:

✔ Integrated with Hunter WinAlign® systems
✔ Simple instructions shown on aligner screen
✔ Only one tool required
✔ Wireless communication with aligner
✔ Resets ADAS systems and other related sensors*
✔ Alignment printouts document reset

Adaptive Cruise Control

Lane Departure Warning

Steering Angle Sensor

Vehicle OBD-II System

Refer to Form 1708-T for coverage information.
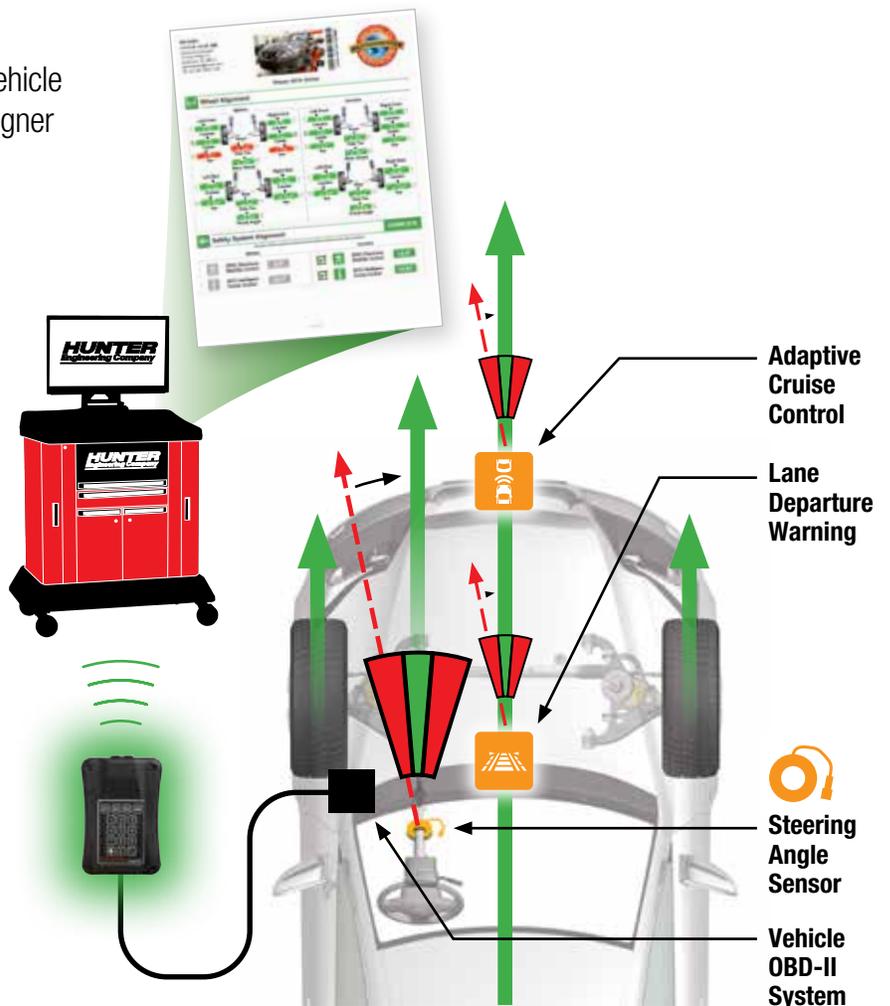
When it comes to award-winning software, WinAlign® is unmatched!
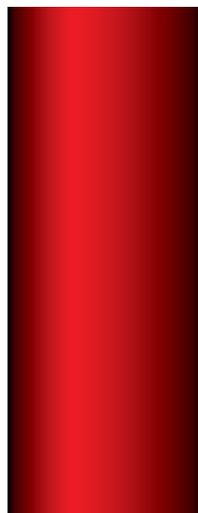
The importance of software…

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.

Ordinary systems simply present alignment readings

Ordinary camera systems simply speed up these readings

WinAlign maximizes profit and productivity in your alignment bay

▶ 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.**

NEW

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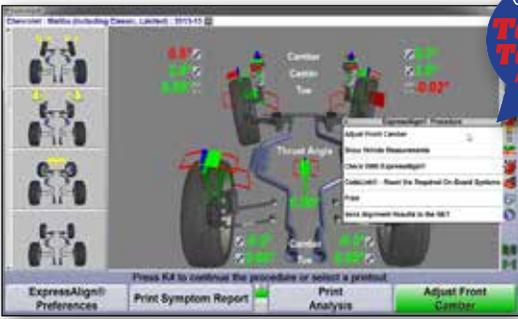
WAIT WAIT WAIT WAIT
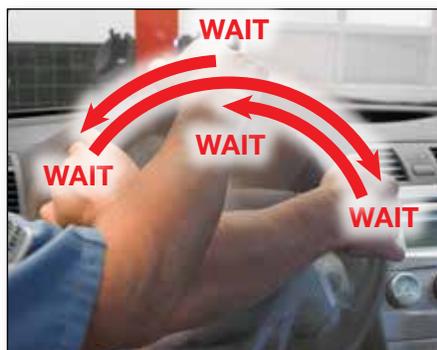
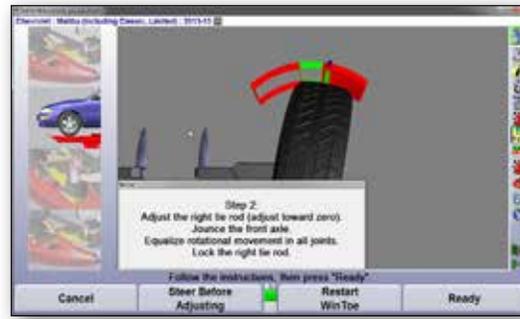*No more waiting for left, right, and center readings during caster steer*

*Steer left, right and back center*

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.
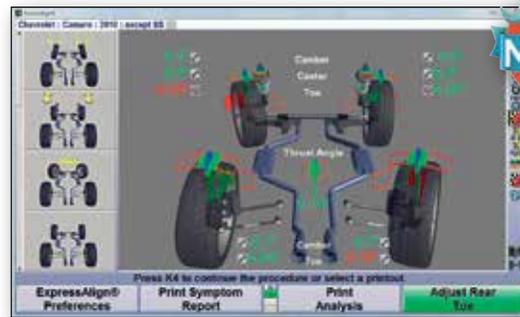
H *A timesaver on nearly every alignment*
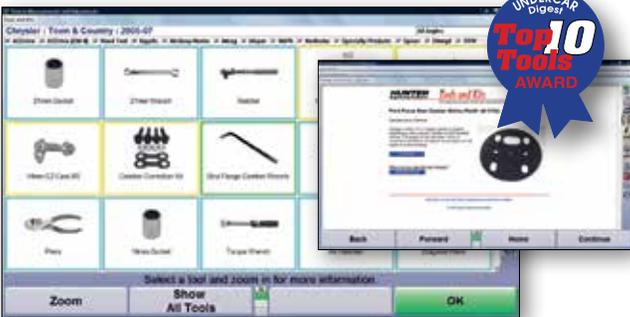
Tools and Kits Database

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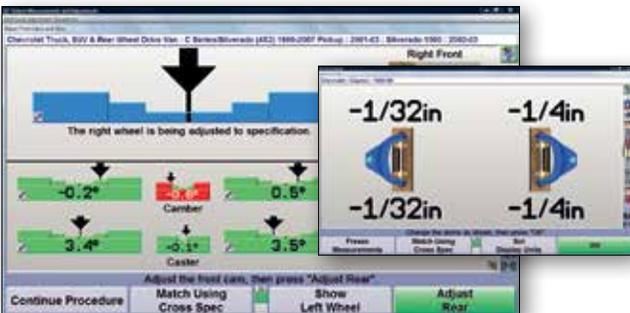
H *Online ordering supported*

Virtual View®

See your alignment job in 3-D using real-time 3-D graphics. Used by experts and novices alike.
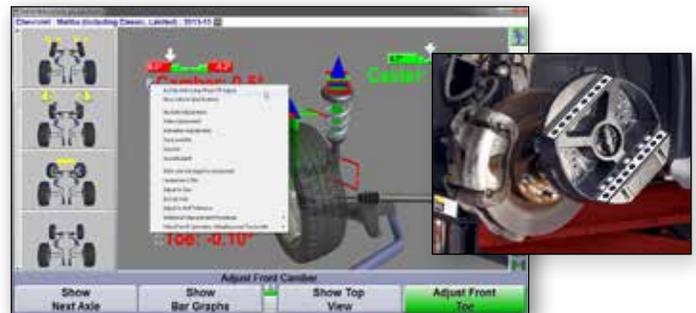
H *Every alignment can be shown in 3-D*

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.

H *Over 60 million vehicles benefit*
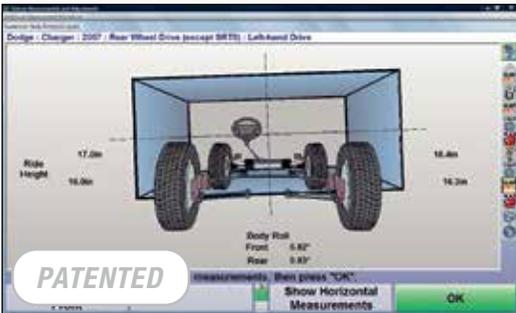
Wheel-Off Adjustment

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

H *Available when you need it*

* For three-dimensional targets, both Wheel-Off Adjustment Kit and SCA Adaptor Kit 20-2664-1 is required.
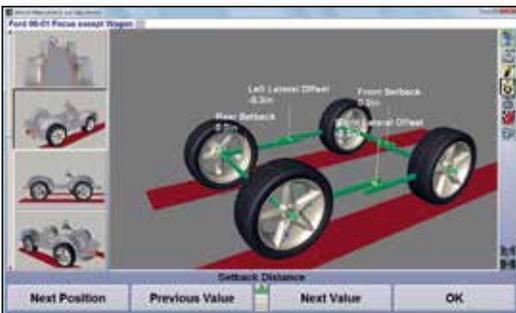
Take your alignment business to the next level!

Perform body shop and specialty alignments…
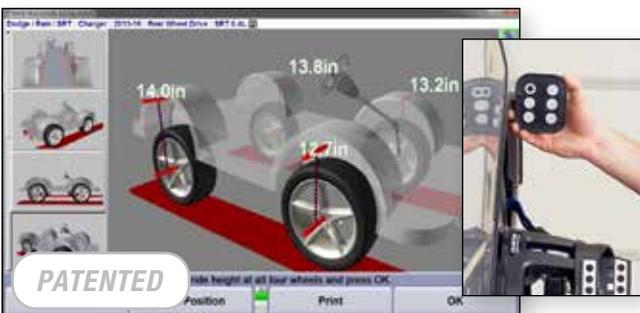

PATENTED

Suspension Body Dimension Audit

Quickly screen vehicles to determine alignability and collision repair needs.
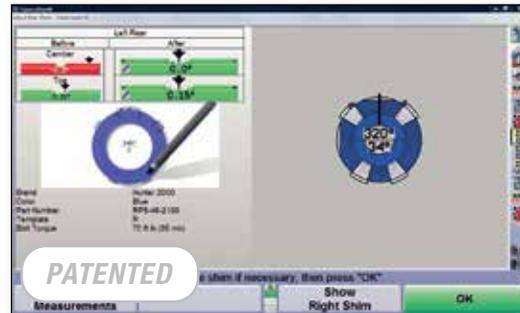

Symmetry Angle Measurements

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

PATENTED

Live Ride Height Adjustment

Measure and adjust ride height in real-time.

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

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.

H *Over 30 million vehicles benefit*

PATENTED

Automatic Bushing Calculator®

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

H *Over 10 million light trucks and vans benefit*

PATENTED

WinAlign® Video Library

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

Help your customers make informed decisions!

WinAlign® printouts help sell work

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

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

HunterNet™

Push Reports

✔ Automatic performance snapshots delivered daily via email or text

✔ Easy-to-understand report measures output and achievements

✔ Track alignment conversions, balancing utilization and inspection opportunities

Your online business intelligence tool

HunterNet™ allows shops to obtain real-time data through connected equipment results, trends and management reports.

✔ Easily track alignment activity and generate reports

✔ Cloud storage eliminates multiple paper printouts

✔ Email Quick Check® and alignment results, photos and videos to customers

✔ Access the latest alignment specifications and adjustment info online with WebSpecs®

H ***HunterNet™ conectivity empowers you to make data-driven decision to increase your productivity and profitability***
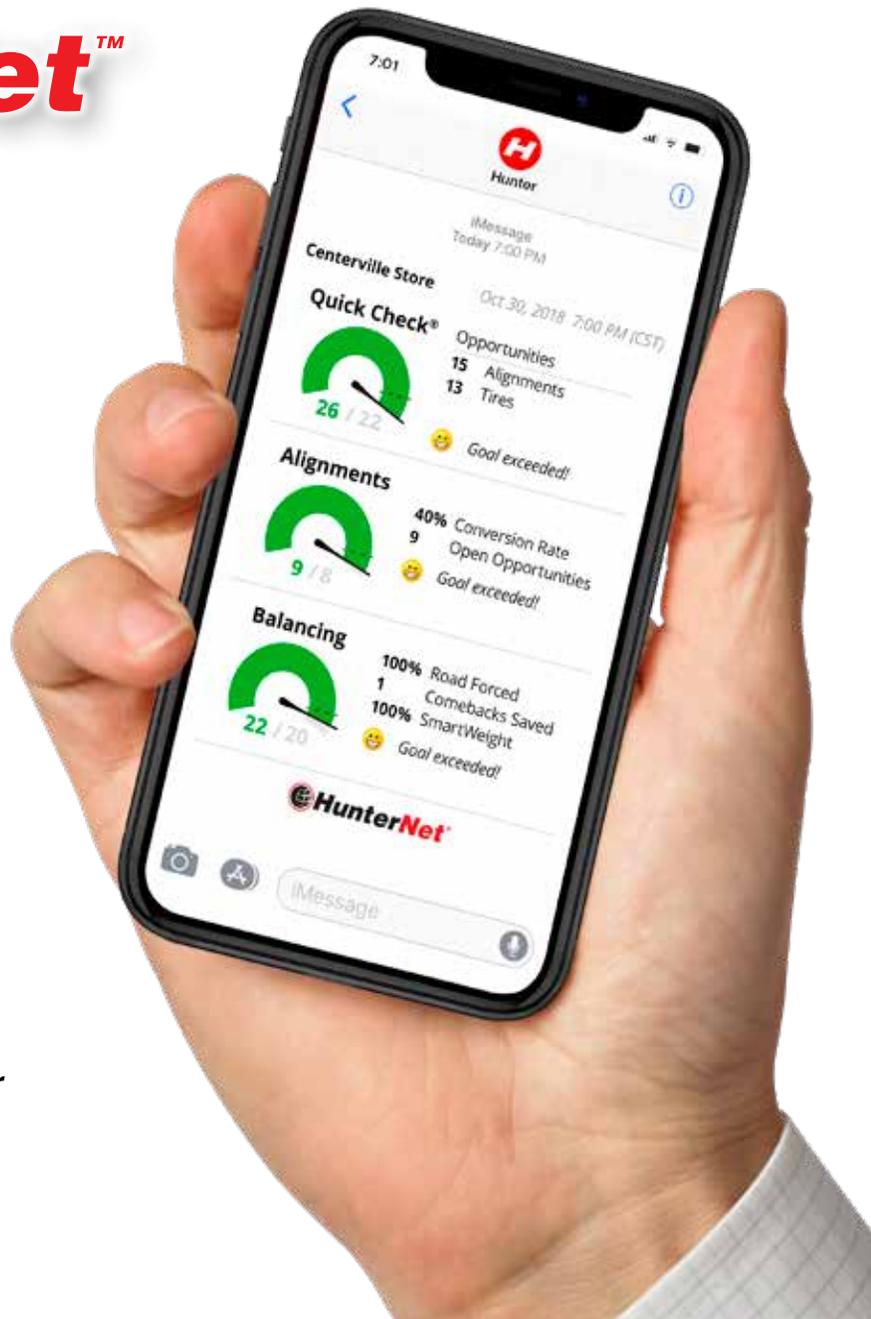
Use your aligner to perform Quick Checks!

Quick Check
HUNTER

Add inspection capability that identifies profitable service opportunities in under two minutes!
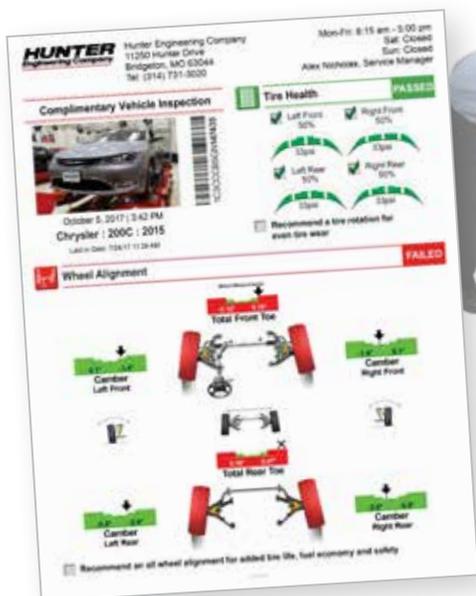
20-2813-1 Diagnostic Check*

CodeLink® retrieves emission codes and wirelessly transfers important vehicle information to console. Also can be used with Safety System Alignment®- capable alignment machines.

20-2782-1 Handheld Tread Depth*

One- or three-point manual tire tread depth check. Conditions transmitted to console automatically.

OPTIONAL

*Requires WinAlign® 14.1 software or higher in Quick Check® mode.

Choose the right alignment console for your shop!

WinAlign WA600 Premium consoles

Industry-leading hardware		WinAlign WA600 Premium consoles
	Processor	3.60 GHz Intel® Core™ i3 (or greater)
	Memory	4 GB of DDR4 RAM
	Hard drive	240 GB Solid State Drive (or greater)
	DVD-RW/CD-RW combo drive	Standard
	Monitor class	24" or 27" widescreen LCD (32" available on large console)
	Wired & wireless network module	Standard
	Operating system	Windows 10 IoT Enterprise
	Three-dimensional target (TD Target™) support	Standard
	Large console with drawers	Standard (with WA68X consoles)
	Compact console with printer drawer	Standard (with WA67X consoles)
	Console-top storage and charging station	Standard (with mobile WA600 consoles)
	Bar Code Reader	Standard

Large console

Award-winning productivity tools			
	PATENTED	Award-winning WinAlign® software	Standard
	PATENTED	Vehicle Info Database (30+ yrs)	Standard (2 years free updates)
	PATENTED	Real-time specs delivered by web	WebSpecs® (2 years standard)
	PATENTED	Steering system reset (integrated)	Yes (with standard CodeLink®)
		Quick Check	Standard
	PATENTED	Live Ride Height adjustment	Standard
	PATENTED	Fully Integrated Alignment	Yes (FIA-equipped lift required)
	PATENTED	Vehicle inspection with photos	Standard
	PATENTED	Tools & Kits	Videos and Photos
		Equipment video help/assistance	Standard
	PATENTED	ShopResults (via ShopResults.NET®)	2 years standard
	PATENTED	Training and productivity aids	4,000+ photos, 1,600+ illustrations 400+ videos & animations

Compact console

Wall-mount console

Remote Indicator sold separately. For product dimensions, weights and site requirements, please contact your local Hunter Sales Representative.

Choose the right sensor package for your shop!

PATENTED

Fixed-column configurations fit most service bay applications.

PATENTED
EXCLUSIVE

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

PATENTED

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

PATENTED

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

PATENTED
EXCLUSIVE

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

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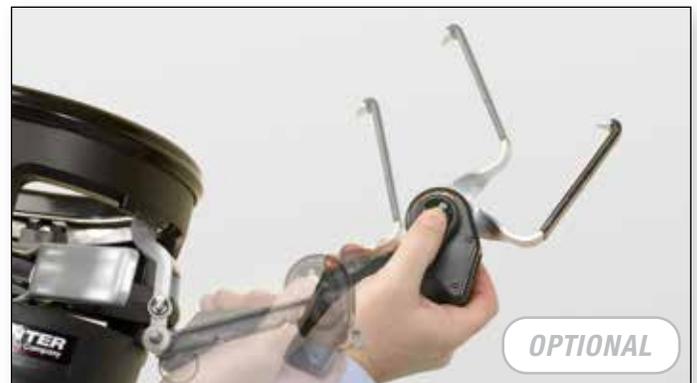
One set of adjustable clamp arms covers the same clamping range as standard multi-arm kit.

# HawkEye Elite® alignment sensor and adaptor specifications

Specifications	*PATENTED*	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
	PATENTED	Live ride height***	✔
		Wheelbase difference	✔
		Track width difference	✔
		Tread width difference	✔
		Lateral offset	✔
		Rear setback	✔
		Axle offset	✔
Body Measurements	*PATENTED*	SBDA	✔
	PATENTED	Body angle	✔
	PATENTED	Body wheel offset & setback	✔
	PATENTED	Body roll**	✔
Adjustments	*PATENTED*	Way Up Way Out WinToe**	✔
	PATENTED	Wheel-Off Adjustment	Optional

* Refer to site requirements for exact bay specifications.

** Requires optional wide-angle target extensions.
*** Requires Ride Height targets. Standard with WA600 consoles, optional with WA500 consoles.

Increase revenue with Hunter merchandising!

Introduce your wheel alignment capabilities and educate your customers with great Point-of-Sale options from Hunter.
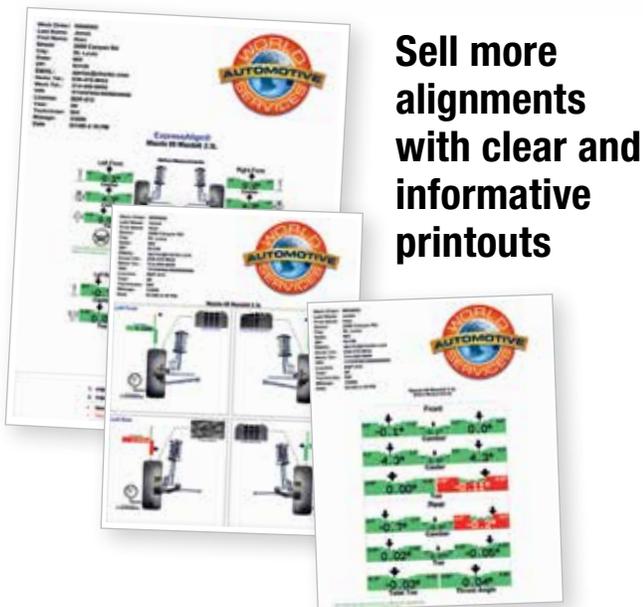
Sell more alignments with clear and informative printouts

STANDARD

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.

HUNTER
Engineering Company®

www.hunter.com