

# Road Force® Elite

The world's fastest diagnostic balancer

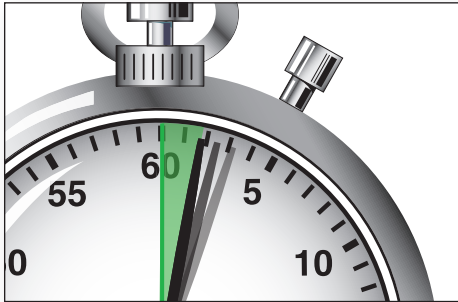
**NEW**



# Road Force® Elite at a glance

EXCLUSIVE

## Unmatched Speed! .....



- ✓ Perform a **Road Force® test and balance** faster than any traditional balancer!

PATENTED

## Vision System .....



- ✓ Eliminate error opportunities
- ✓ More information in less time

PATENTED

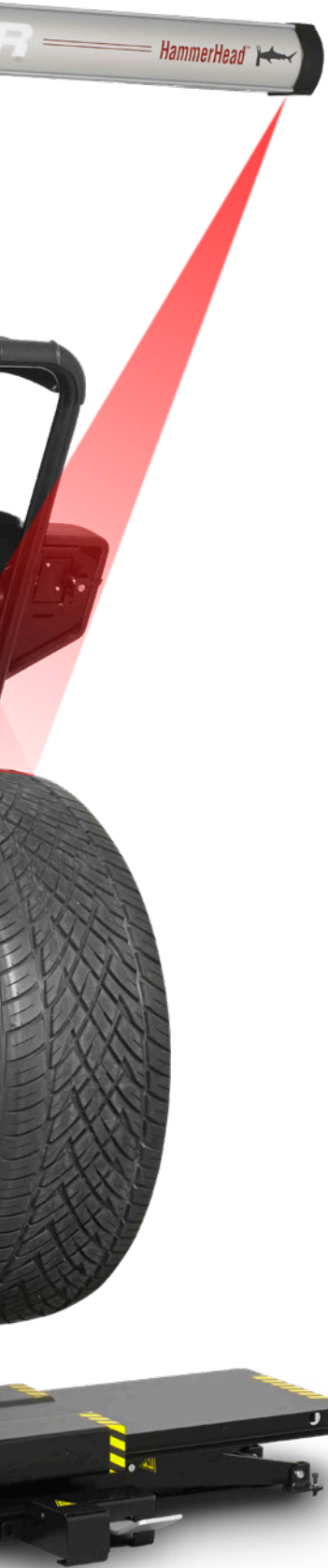
## Diagnostic Load Roller



- ✓ Solve vibration problems
- ✓ Identify vehicle pulls
- ✓ Provide "new car ride"



Shown with options



**NEW** PATENTED

### Automatic CenteringCheck®



- ✓ Ensure proper centering
- ✓ Eliminate setup errors

PATENTED

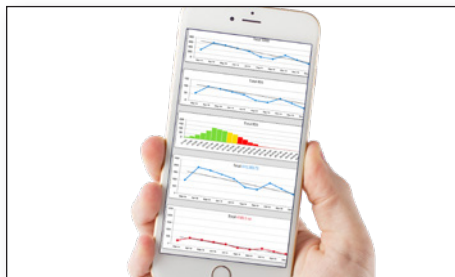
### Enhanced SmartWeight® .....



- ✓ Even better balance
- ✓ Maximum efficiency
- ✓ More single weight solutions

EXCLUSIVE

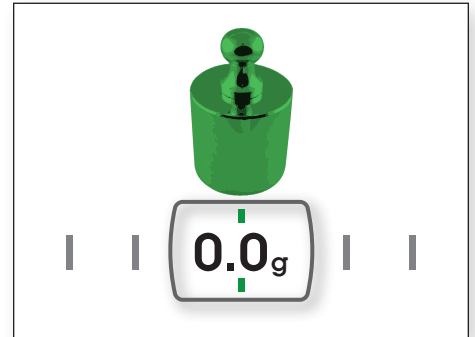
### HunterNet® .....



- ✓ View balancer usage
- ✓ Track weight usage

PATENTED

### eCal Auto-Calibration



- ✓ True “self-calibration”
- ✓ No operator input required

EXCLUSIVE

### On-Demand Videos



- ✓ Simplify training
- ✓ Improve results

STANDARD

### Touchscreen Interface



- ✓ Intuitive interface
- ✓ Quickly train new technicians

# Road Force® Elite vision technology unlocks more



Standard balancer

VS.



Hunter Road Force® Elite

**1:15 - 3:00+** Floor to floor

-Plus-

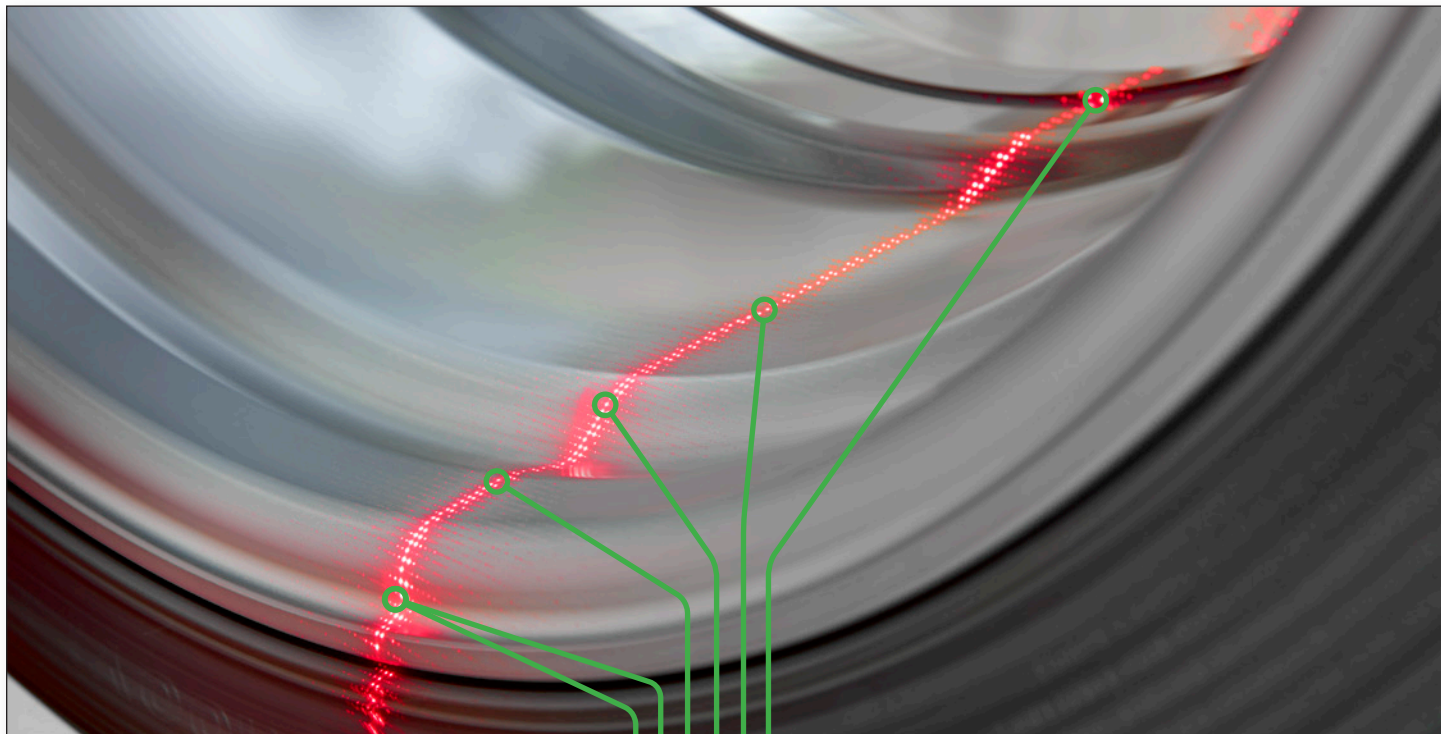
- Wheel dimensions  
*MANUAL*
- Weight mode  
*MANUAL*
- Spoke location
- Rim profile
- SmartWeight® optimized
- Rim runout
- Road force
- Tire pull
- Error-proof
- Forcematch prediction
- Unguided balance

**1:10** Floor to floor

-Plus-

- Wheel dimensions  
*AUTOMATIC*
- Weight mode  
*AUTOMATIC*
- Spoke location  
*AUTOMATIC*
- Rim profile  
*AUTOMATIC*
- SmartWeight® optimized  
*AUTOMATIC*
- Rim runout  
*AUTOMATIC*
- Road force  
*AUTOMATIC*
- Tire pull  
*AUTOMATIC*
- Error-proof  
*AUTOMATIC*
- Forcematch prediction  
*AUTOMATIC*
- Guided balance

# benefits in less time!



## Wheel dimensions *AUTOMATIC*



Automatically determines weight plane locations

## Weight mode *AUTOMATIC*



Selects clip or tape weight usage

## Rim runout *AUTOMATIC*



Calculates force-match solution



## Spoke location *AUTOMATIC*

Automatically hides tape weights behind spokes



## SmartWeight® optimized *AUTOMATIC*

Allows more single weight solutions



## Rim profiled *AUTOMATIC*

Creates three-dimensional model of the rim



## Reduce operator error

- ✓ Automatically measures wheel dimensions
- ✓ Automatically selects weight mode
- ✓ Automatically measures rim runout

# Road Force® Elite performs up to 47% faster than previous models



**GSP9712**  
(Generations 1 and 2)  
Up to 18 years old



**GSP9722**  
(Generation 3)  
Up to 10 years old



**Road Force Touch®**  
(Generation 4)  
Up to 4 years old



**Road Force® Elite**  
(Generation 5)  
Up to 1 year old

Balance and  
measure road force

**1:40**

**1:40**

**1:15**

**1:10**

Balance and repair  
road force

**3:31**

**3:31**

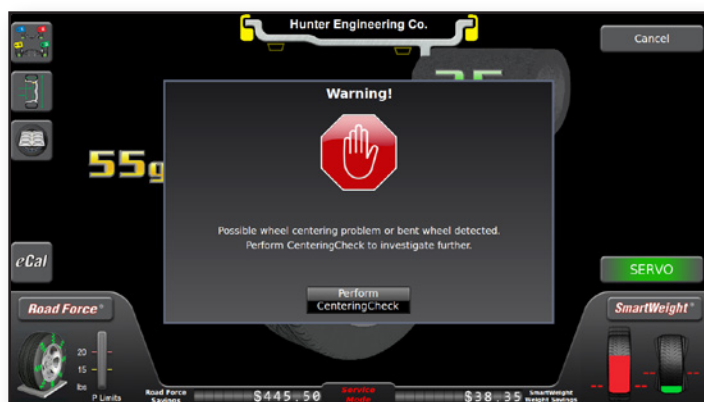
**2:51**

**1:51**

**47%  
improvement!**

**19%  
improvement!**

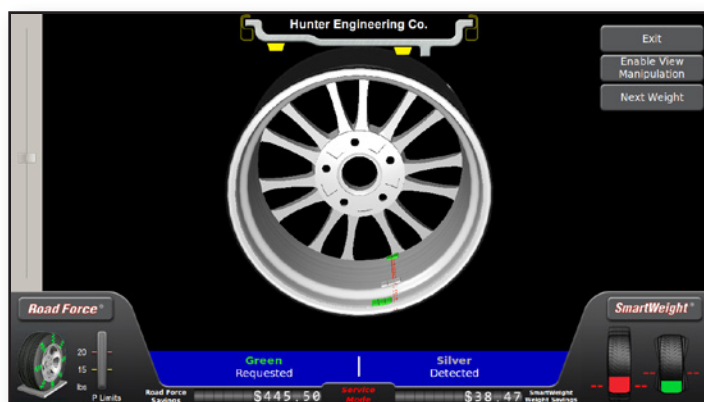
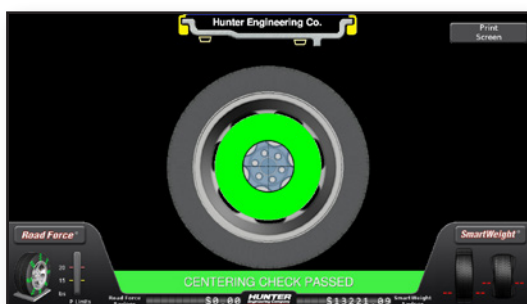
# Improving technician performance



## Automatic CenteringCheck® reduces setup errors

Miscentering during wheel balancing procedures is the number one cause of improper balancing and customer comebacks. Automatic CenteringCheck® always monitors wheel centering to reduce setup errors.

- ✓ Automatically monitors centering
- ✓ Notifies technician of setup errors
- ✓ Reduces customer comebacks



## Balancer Report Card optimizes weight placement

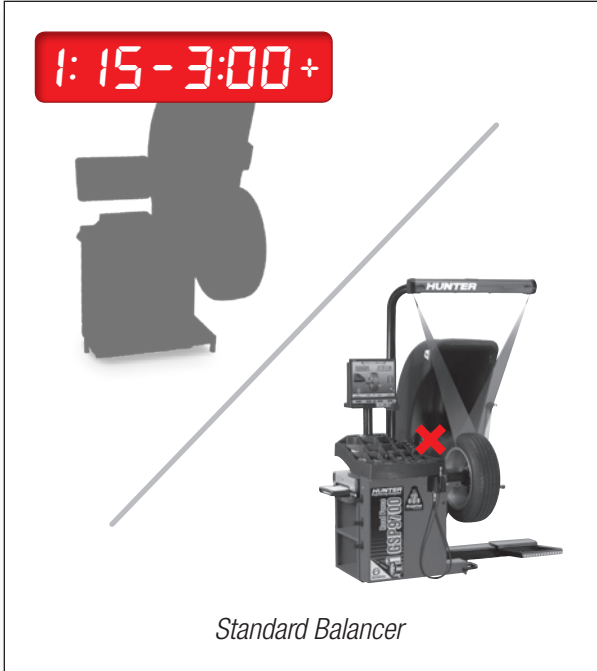
Balancer Report Card scans the wheel and determines where the technician placed the wheel weights. The balancer then scores the accuracy of placement.

- ✓ Illustrates placement errors to the technician
- ✓ Provides report to technician to enhance accuracy
- ✓ Improves balance results



# A tale of two shops

OTHER shops



Standard Balancer

Tire is balanced with standard non-diagnostic balancer or older generation Road Force® with the roller turned off.

## QUALITY CONTROL DEPARTMENT



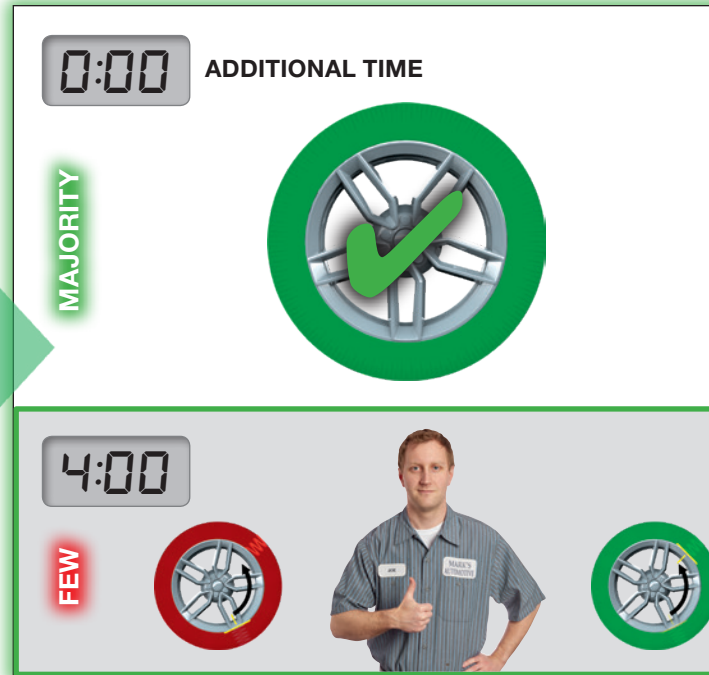
Since customers are performing quality control for the shop, no additional time is required.

Road Force® Elite shops

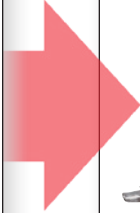
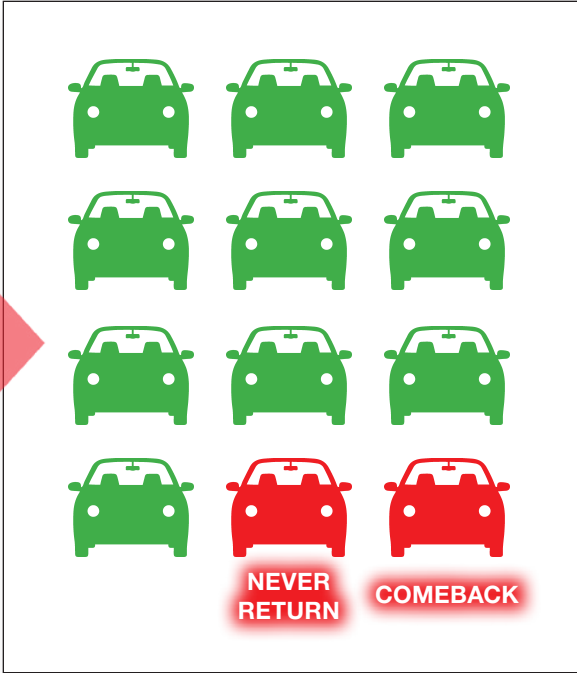
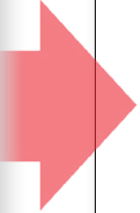


Tire is balanced in less time with Hunter's Road Force® Elite premium diagnostic balancer.

## QUALITY CONTROL DEPARTMENT

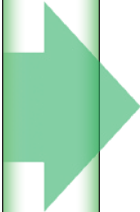
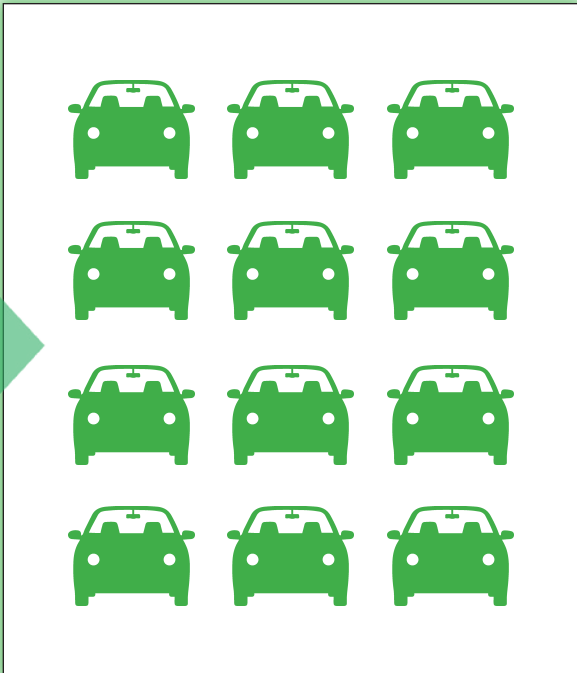


A few tires need to be repositioned on the rim to guarantee a round assembly and a smooth ride. This only adds a few minutes when handled at installation.



Majority of customers leave happy, but a small portion leave unhappy. Some return unhappy, others never return.

Customers that return unhappy will require over 45 minutes of additional work that technicians are often unequipped to handle.

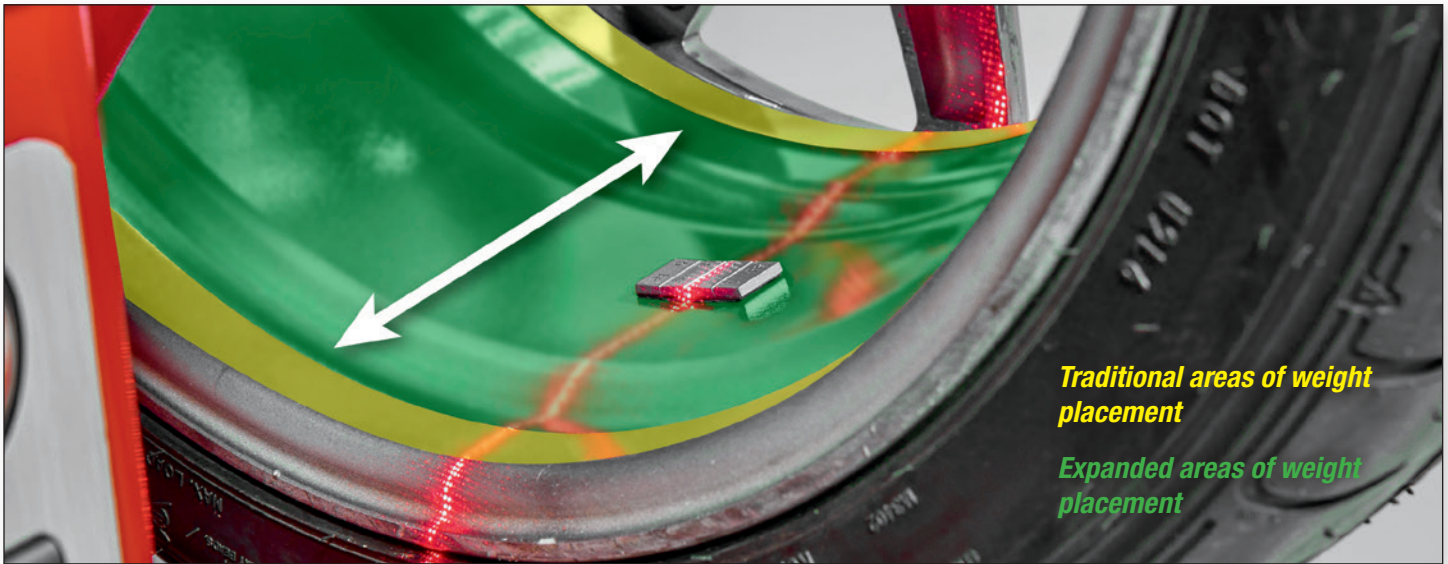


Because the technician tested every assembly, all customers leave happy.

Superior service differentiates Road Force® Elite shops from all other shops.

# Enhanced SmartWeight®

Additional weight locations save time and money



Road Force® Elite vision system increases balancer accuracy and single weight solutions.

**4**

Modern vehicles are **4x** more sensitive to static vibration forces than couple or dynamic forces.

**66**

Avoid an average of **66 comebacks** per year by using SmartWeight.

**202.1**

An average shop saves **202.1 kg** per year with SmartWeight.

**Smartweight®**  
Balancing Technology



**Watch your savings grow!**



See weight and labor savings based on your shop's numbers

PATENTED

# StraightTrak<sup>®</sup> corrects tire pull

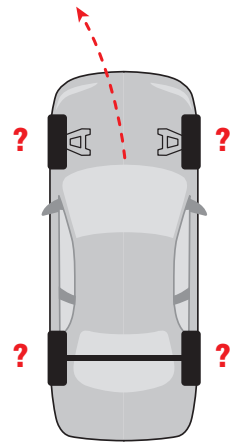
PERFORM LATERAL  
FORCE MEASUREMENTS  
WITHOUT TIME PENALTY

## Tires just rotated?

Customer complains about vehicle pulling to the left.

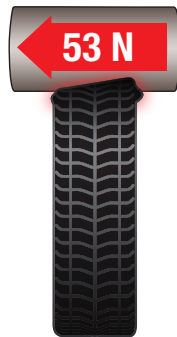


### Mysterious left pull

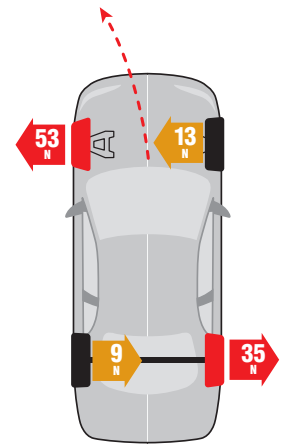


## Measure lateral force to identify pull

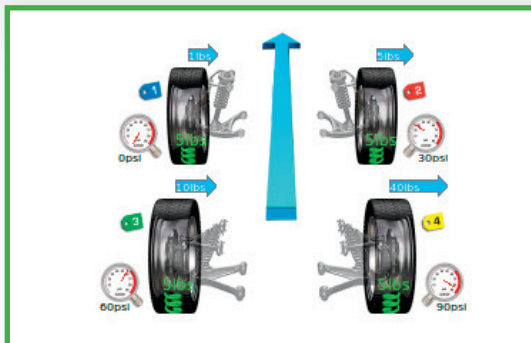
Tire conicity can **ONLY** be measured accurately when the tire is under load.



### Pull identified

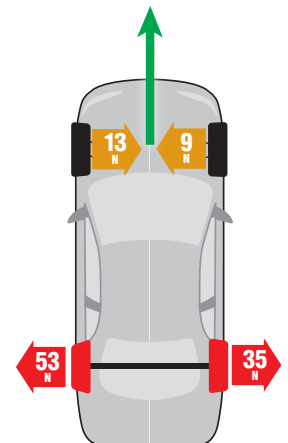


## StraightTrak delivers the ultimate in customer satisfaction



Hunter suggests optimal wheel placement just like Original Equipment Manufacturers.

### Pull eliminated



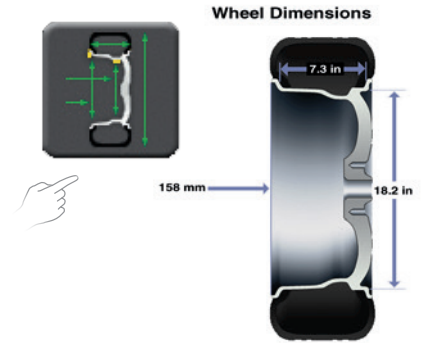
EXCLUSIVE

# Intuitive interface simplifies operation

Balance operation



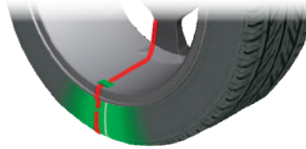
Rim cutaway displays selected weight mode



One touch to display rim dimensions

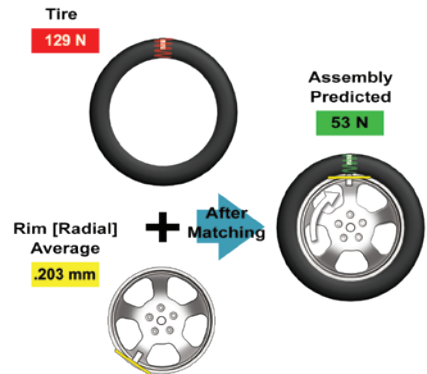


Switch text language with the push of a button



TruWeight™ provides live navigation through selection and placement of wheel weights

Road Force® operation



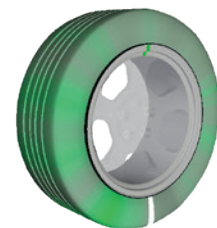
Simple graphics illustrate how to optimize assembly



Road Force® panel displays assembly value and limits



Live rim and tire conditions shown on-screen

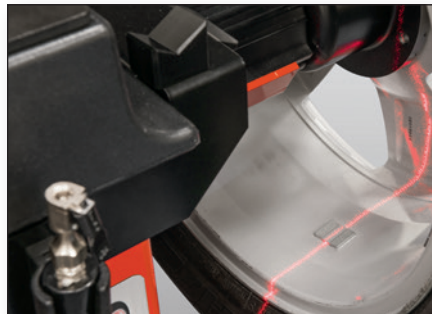


Color-coding allows operator to visualize Road Force® variations

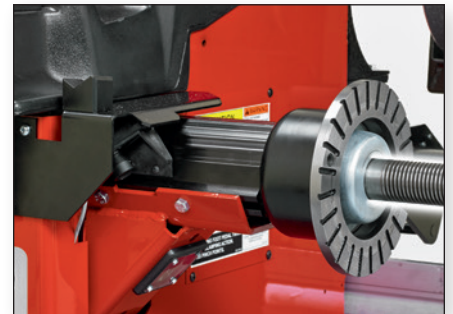
# Additional features make balancing faster and easier



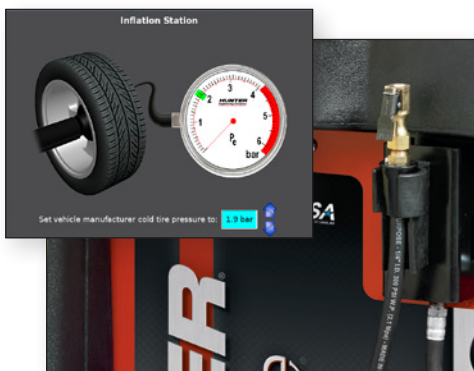
**EXCLUSIVE**  
Live 3D graphics



**Bottom laser and wheel light**



**EXCLUSIVE**  
Most durable shaft in the industry



**FASTER**  
Integrated Inflation Station



**PATENTED**  
Servo Stop drive control  
Automatically rotates and holds wheel at top-dead-center or bottom-dead-center weight locations.

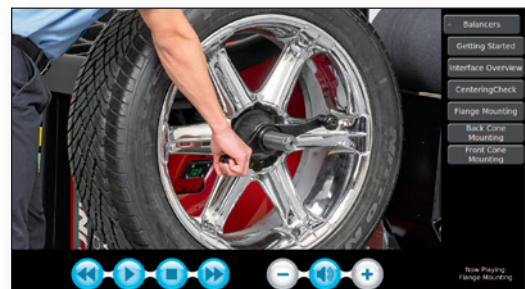


**EXCLUSIVE**  
TranzSaver™  
Compares tire circumferences as specified by OEs to prevent damage to All Wheel Drive (AWD) vehicles.

## On-screen instruction makes everyone an expert!

High-definition videos instruct on a variety of balancing and tire changing topics.

- ✓ Covers basic techniques to more advanced procedures
- ✓ Instant access, easy navigation
- ✓ On-site training for your technicians



Technicians are guided with helpful tips and timesaving procedures.

# Popular equipment upgrades



## Wheel lift

- ✓ Safely service heavy, oversized wheels
- ✓ Precisely center all wheels



## SpeedClamp®

- ✓ Clamp wheels automatically
- ✓ Save time and effort
- ✓ Eliminate wingnut



## Adjustable flange plate – 20-1839-1

Optional flange plate kit provides quick setup for maximum coverage



## QuickNut – 76-438-2

Optional wingnut allows fast clamping to standard threaded 40mm shafts.



*Hunter offers hundreds of accessories to customize your balancer to your service needs. See form **3203-T** for more information.*



**PATENTED**

## HammerHead® top-dead-center laser

- ✓ Greater weight placement accuracy to avoid mistakes
- ✓ More single-spin balances improve productivity
- ✓ Overhead fluorescent light illuminates work area



**Incorrect**



**Correct**



## Printer kit with storage shelf\*

- ✓ Print Road Force Measurement® test results
- ✓ Sell and perform TPMS work properly and efficiently
- ✓ Win more approvals with clear and informative printouts

\* Printer model may vary.



# Specifications

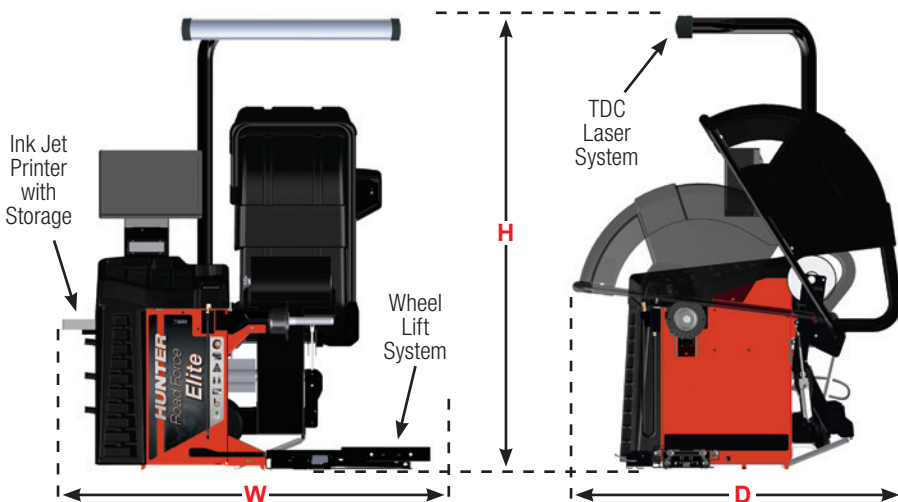


RFE30E shown with optional TDC laser system, inkjet printer and shelf storage

<b>Power requirements</b>	196-253V, 10 amp, 50/60 Hz, 1 ph (Power cable includes: NEMA 20 amp plug, L6-20P)
<b>Air supply requirements</b>	7-12 bar (100-175 psi)
<b>Roller force</b>	Variable up to 567 kg (1250 lbs.)
<b>Capacity</b>	
Rim width	38 – 521 mm (1.5 – 20.5 in.)
Rim diameter	254 – 762 mm (10 – 30 in.)
Maximum tire diameter	1016 mm (40 in.)
Maximum tire width	508 mm (20 in.)
Maximum tire weight	79 kg (175 lbs.)
<b>Radial and lateral runout accuracy</b>	0.051 mm (0.002 in.)
<b>Displaced imbalance resolution</b>	± 1.4 g (0.05 oz)
<b>Placement accuracy</b>	512 positions, ± 0.35°
<b>Balancing speed</b>	300 rpm
<b>Motor</b>	Programmable drive system and DC motor

# Models\*

	RFE30E	RFE20E	RFE10E	RFE00E
<b>Wheel lift system</b>	✓		✓	
<b>SpeedClamp® system</b>	✓	✓		
<b>Standard wingnut</b>			✓	✓
<b>Width (W)</b>	<b>1626 mm</b> 64 in.	<b>1448 mm</b> 57 in.	<b>1626 mm</b> 64 in.	<b>1448 mm</b> 57 in.
<b>Height (H)</b>	<b>1778 mm</b> 70 in.	<b>1778 mm</b> 70 in.	<b>1778 mm</b> 70 in.	<b>1778 mm</b> 70 in.
<b>Depth (D)</b>	<b>1600 mm</b> 63 in.	<b>1600 mm</b> 63 in.	<b>1600 mm</b> 63 in.	<b>1600 mm</b> 63 in.
<b>Weight</b>	<b>395 kg</b> 871 lbs.	<b>335 kg</b> 739 lbs.	<b>361 kg</b> 796 lbs.	<b>336 kg</b> 741 lbs.



\* Road Force® Elite model numbers are trademarks of Hunter Engineering Company.

Because of continuing technological advancements, specifications, models and options are subject to change without notice.

**HUNTER**  
Engineering Company

[www.hunter.com](http://www.hunter.com)

11250 Hunter Drive, Bridgeton, MO 63044, USA  
Tel: 1-314-731-3020, Fax: 1-314-731-0132  
Email: [international@hunter.com](mailto:international@hunter.com)