

HUNTER
Engineering Company

Road Force[®] Elite

The World's Fastest Diagnostic Balancer

NEW



MADE IN USA
HUNTER ENGINEERING COMPANY ST. LOUIS, MO

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

EXCLUSIVE

Diagnostic Load Roller



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



Shown with options



PATENTED

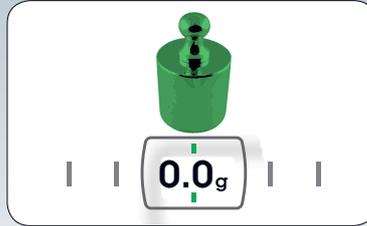
Enhanced Smart Weight



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

PATENTED

eCal Auto-Calibration



- ✓ True "self-calibration"
- ✓ No operator input required

EXCLUSIVE

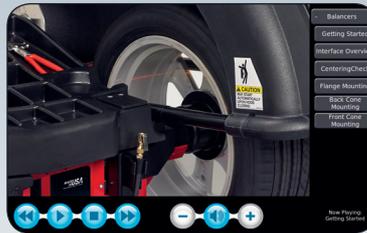
HunterNet



- ✓ View balancer usage
- ✓ Track weight usage

EXCLUSIVE

On-Demand Videos



- ✓ Simply training
- ✓ Improve results

PATENTED

Centering Check



- ✓ Ensure proper centering
- ✓ Eliminate setup errors

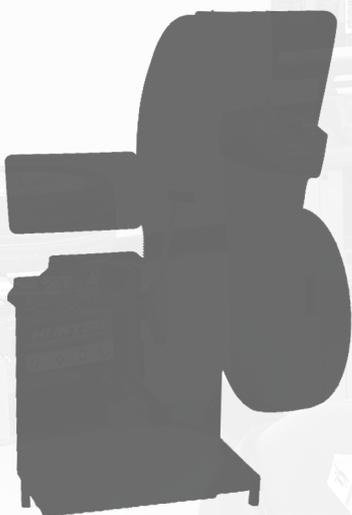
STANDARD

Touchscreen Interface



- ✓ Intuitive interface
- ✓ Quickly train new technicians

Road Force® Elite vision technology unlocks more benefits in less time!



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



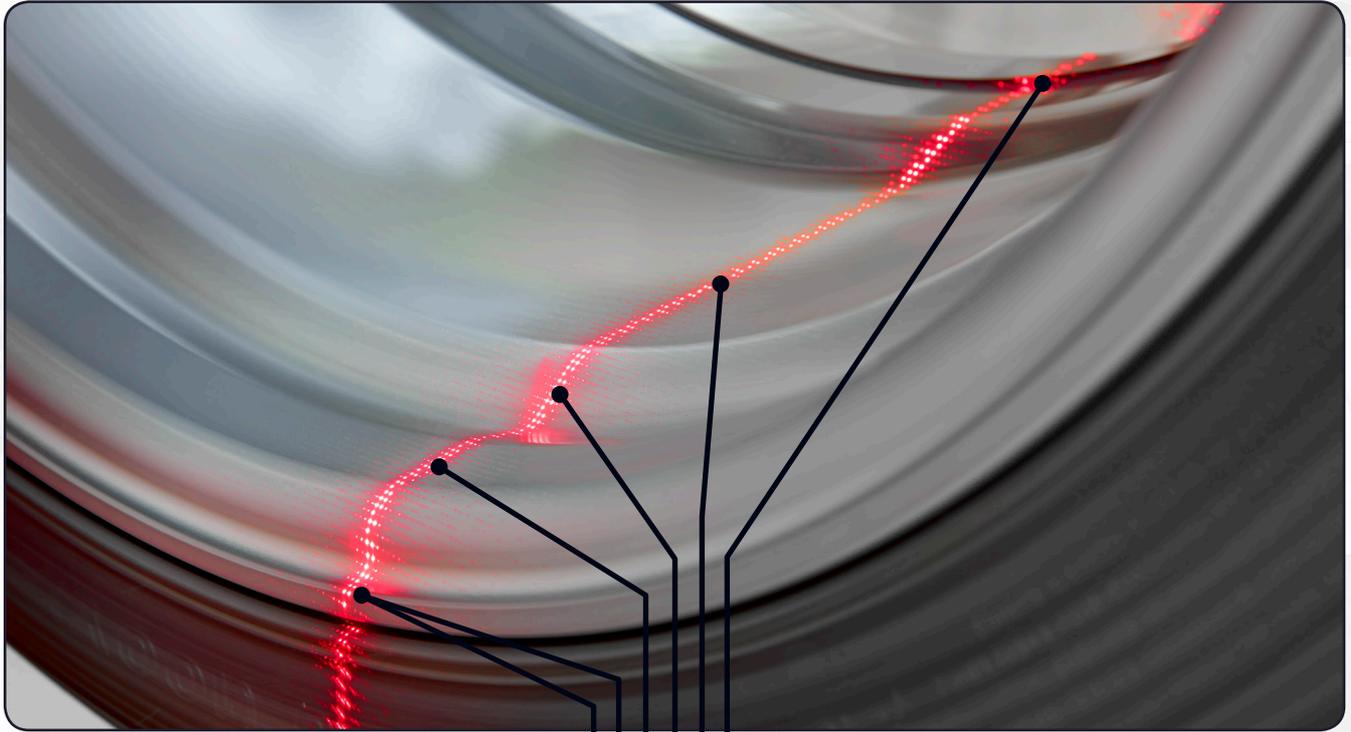
Error-proof
AUTOMATIC



Forcematch prediction
AUTOMATIC



Guided balance



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 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)
Coming April 2016

Balance and measure
road force

1:40

1:40

1:15

1:10

1:51

47%
improvement!

Balance and repair
road force

3:31

3:31

2:51

19%
improvement!

HUNTER
Road Force
Elite

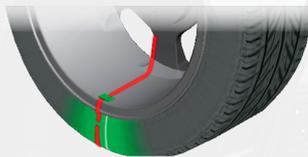
EXCLUSIVE

Intuitive interface simplifies operation

Balance operation



Switch text language with the push of a button



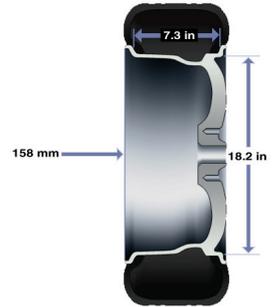
TruWeight™ provides live navigation through selection and placement of wheel weights



Rim cutaway displays selected weight mode



Wheel Dimensions



One touch to display rim dimensions

Road Force operation



Tire 129 N



Assembly Predicted 53 N

Rim [Radial] Average .203 mm



Simple graphics illustrate how to optimize assembly

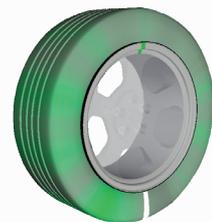


Road Force panel displays assembly value and limits

Current Assembly 125N



Live rim and tire conditions shown on-screen



Color-coding allows operator to visualize Road Force variations

Road Force Measurement[®] solves common vibration problems

Your customer complains about a vibration...

A simulated road test pinpoints the problem

Problem / Solution



OE technical service bulletins recommend the Road Force Touch[®] balancer as the vibration solution

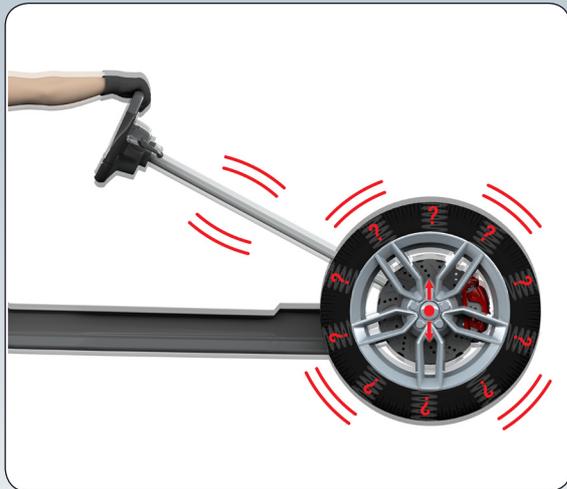


The Road Force Touch balancer identifies the tire and rim contributions to radial-force vibration problems

An unknown force vibrates the spindle

Specialized sensors detect the vibration

How It Works



Vibration is transferred from the wheel, through the spindle to the customer



The Road Force Touch balancer detects radial forces with sensitive instruments

Hold the tire and rotate the rim



Match-mounting the stiffest point on a tire to the low spot on a rim makes the assembly roll as round as possible

Your customer leaves with a “new car ride”!



✓ Your customer experiences a smooth ride on the same tires and wheels

Match-mounting cancels the vibration



The Road Force Touch balancer duplicates tire and rim matching methods used by OE manufacturers

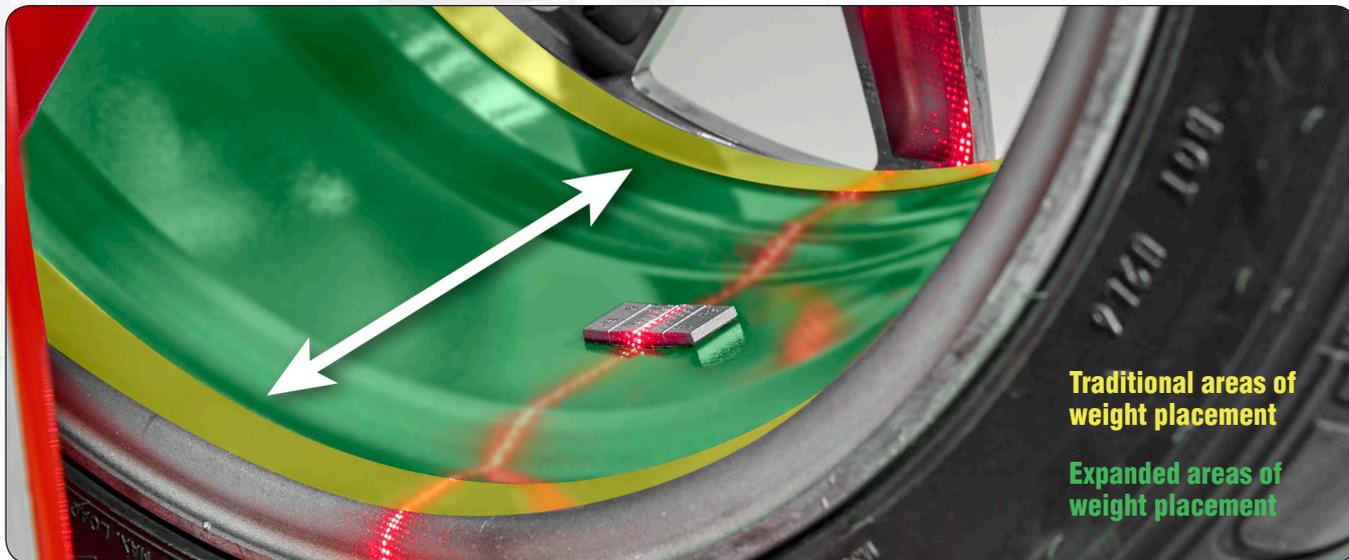
Your customer leaves with a “new car ride”!



✓ Radial force variation is minimized, ensuring your customer a smooth ride

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.

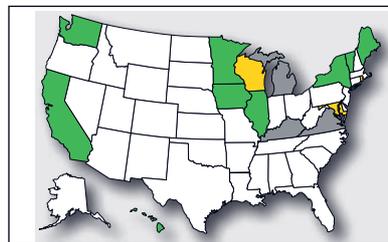
66

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

7,130

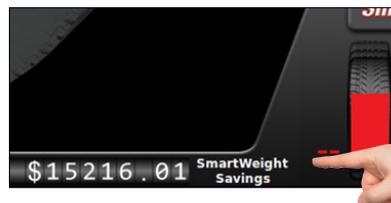
An average shop saves **202,130 Grams** per year with SmartWeight.

Lead-Free Initiative Growing



- ▶ 9 states ban lead weights
- ▶ 3 states pending legislation
- ▶ 3 states with governmental actions underway

Watch Your Savings Grow!



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

PATENTED

StraightTrak[®] corrects tire pull

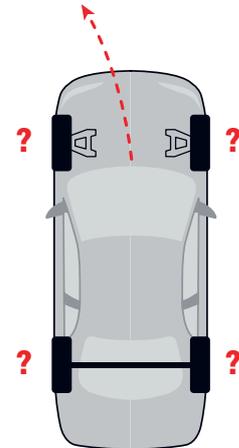
NEW!
Perform lateral force measurement without time penalty

Tires Just Rotated?

Customer complains about vehicle pulling to the left.



Mysterious Left Pull

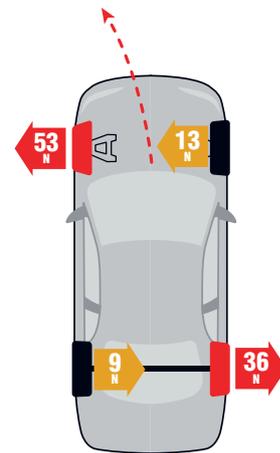


Measure Lateral Force to Identify Pull

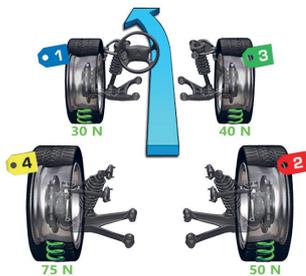
Tire conicity can **ONLY** be measured accurately when the tire is under load.



Pull Identified

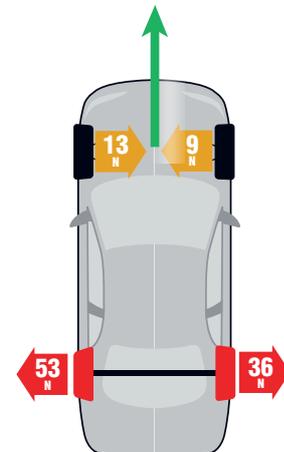


StraightTrak Delivers the Ultimate in Customer Satisfaction



Hunter suggests optimal wheel placement just like OE manufacturers.

Pull Eliminated



COMING SOON!



- ✓ Allows you to view balancer usage online
- ✓ See trends like Road Force values and wheel types being serviced
- ✓ Track wheel weight usage and savings



Printer kit with storage shelf*

- ✓ Print Road Force Measurement® test results
- ✓ Win more approvals with clear and informative printouts

* Printer model may vary.



Additional features make balancing faster and easier



Live 3D graphics



Bottom laser and wheel light



Most durable shaft in the industry



Integrated Inflation Station



Servo Stop drive control

Automatically rotates and holds wheel at top-dead-center or bottom-dead-center weight locations.

Assembly Diameter	Road Force	Extra Info
678 mm	75 N	Watch For Extra Info
696 mm	40 N	Watch For Extra Info
678 mm	50 N	Watch For Extra Info
678 mm	30 N	Watch For Extra Info
678 mm	125 N	Watch For Extra Info
716 mm	115 N	Watch For Extra Info
716 mm	75 N	Watch For Extra Info
716 mm	40 N	Watch For Extra Info

TranzSaver™

Compares tire circumferences as specified by Original Equipment Manufacturers to prevent damage to AWD vehicles.

EXCLUSIVE

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 time saving procedures.

Additional accessories available

Adjustable Flange Plate



Optional flange plate kit provides quick setup for maximum coverage.
(20-1839-1)

QuickNut



Optional wingnut allows fast clamping to standard threaded 40mm shafts.
(76-438-2)

Small sample of popular accessories



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



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

Popular equipment upgrades

Wheel lift

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



SpeedClamp

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



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

Specifications



RFE30E shown with optional TDC laser system

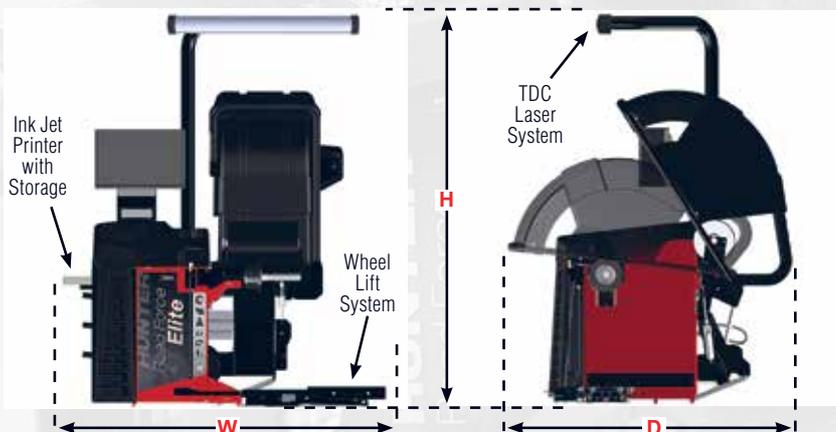
Power Requirements	196-253V, 10 amp, 50/60 Hz, 1 ph (Power cable includes: NEMA 20 amp plug, L6-20P)
Air Supply Requirements	7-12 bar (100-175 psi)
Roller Force	Variable up to 567 kg (1,250 lbs)
Capacity	
Rim Width	38 mm to 521 mm (1.5 in to 20.5 in)
Rim Diameter	254 mm to 762 mm (10 in to 30 in)*
ALU	356 mm to 1118 mm (14 in to 44 in)*
Max. Tire Diameter	1016 mm (40 in)
Max. Tire Width	508 mm (20 in)
Max. Tire Weight	79 kg (175 lbs)
Radial and Lateral Runout Accuracy	0.051 mm (0.002 in)
Imbalance Resolution	± 0.28 g (0.01 oz)
Placement Accuracy	512 positions, ± 0.35°
Balancing Speed	300 rpm
Motor	Programmable drive system and DC motor

* Extreme wheel sizes may require manual data entry.

Models**

	RFE30E	RFE20E	RFE10E	RFE00E
Wheel Lift System	✓		✓	
AutoClamp® System	✓	✓		
Standard Wingnut			✓	✓
Width (W)	1626 mm 64 in	1448 mm 57 in	1626 mm 64 in	1448 mm 57 in
Height (H)	1778 mm 70 in	1778 mm 70 in	1778 mm 70 in	1778 mm 70 in
Depth (D)	1600 mm 63 in	1600 mm 63 in	1600 mm 63 in	1600 mm 63 in
Weight	395 kg 871 lb	335 kg 739 lb	361 kg 796 lb	336 kg 741 lb

** Road Force Touch * model numbers are trademarks of Hunter Engineering Company.



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



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