

# VAS 6230B Road Force Touch<sup>®</sup>

*Customized for All Audi and Volkswagen Vehicles*

**NEW!**



**HUNTER**  
Engineering Company

# VAS 6230B at a glance

**EXCLUSIVE**

Now With More Speed!\*



**NEW!**

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

**STANDARD**

Touchscreen Interface

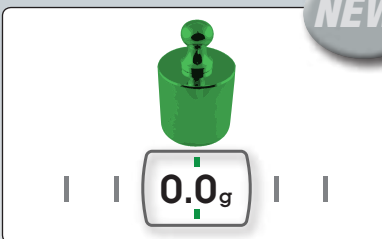


**NEW!**

- ✓ Intuitive interface
- ✓ Quickly train new technicians

**EXCLUSIVE**

eCal™ Auto-Calibration\*



**NEW!**

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

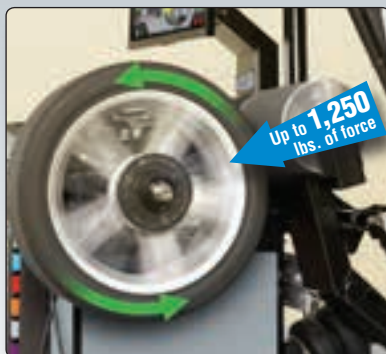


*Shown with options*



**PATENTED**

### Diagnostic Load Roller



- ✓ Solves vibration problems
- ✓ Identifies vehicle pulls
- ✓ Provides "new car ride"

**PATENTED**

### SmartWeight®

#### SmartWeight® Balancing Technology



- ✓ Improve balance
- ✓ Minimizes weight usage
- ✓ Maximizes productivity

**STANDARD**

### Auto-Up Hood\*



**NEW!**

- ✓ Saves time
- ✓ Speeds operations

**EXCLUSIVE**

### On-Demand Videos



**NEW!**

- ✓ Simplify training
- ✓ Improve results

**PATENTED**

### CenteringCheck®



- ✓ Ensures proper centering
- ✓ Eliminates setup errors

**STANDARD**

### BullsEye™ Centering System



**NEW!**

- ✓ Optimize centering
- ✓ Prevent wheel damage

# Road Force® test and balance **FASTER** than a traditional

Measure Road Force on every customer wheel **WITHOUT A TIME PENALTY!**

## Road Force Touch® Balance



Road Force Touch® balance starts when hood is lowered



**NEW!** Load roller measures Road Force while technician prepares correction weights



## Traditional Balance



Balance starts when hood is lowered



Technician prepares correction weights

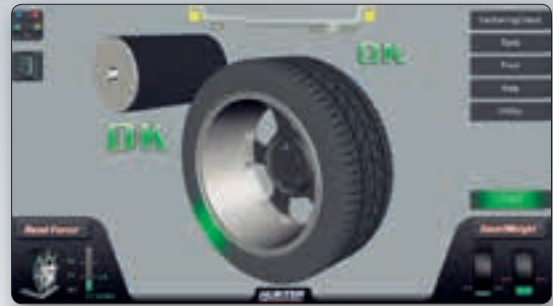
# nal balancer

**NEW!**

## Road Force Test and Balance



**NEW!** Hood raises automatically for technician to install weights and perform check-spin



- ✓ Wheel is balanced
- ✓ Wheel is also verified to roll smooth

**Road Force printout verifies results**



## Balance



Technician manually raises hood, installs weights and performs check-spin



- ✓ Wheel is balanced

**EXCLUSIVE**

# *Intuitive touchscreen simplifies balance experience*

**1.50oz**



Touching weight value serves wheel to weight location



Rim cutaway displays selected weight mode



Simple buttons launch less-frequently used functions

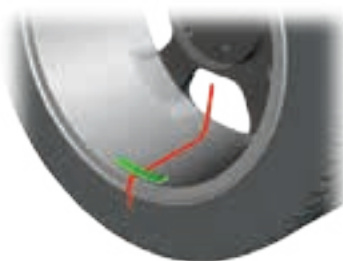
## **Balancing interface at a glance**



Wheel Dimensions



One touch to display rim dimensions



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

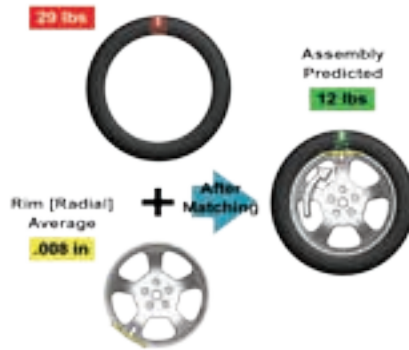


SmartWeight® panel displays wheel balance condition

Rim [Radial]  
Average  
.008 in



Low spot on rim is identified

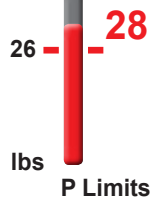


Simple graphics illustrate how to optimize assembly



See predicted improvement in one glance and how to do it

### Road Force Measurement® interface at a glance



Road Force panel displays assembly value and limits

Helpful animation explains conditions



Live rim and tire conditions shown on-screen



Color-coding allows operator to visualize Road Force variations

# Road Force Measurement® solves common vibration

Problem / Solution

## Your customer complains about a vibration...



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

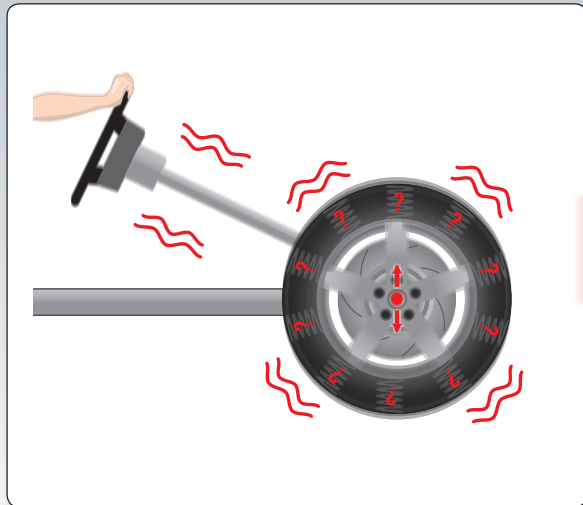
## A simulated road test pinpoints the problem



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

How It Works

## An unknown force vibrates the spindle



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

## Specialized sensors detect the vibration



The Road Force Touch balancer detects radial forces with sensitive instruments



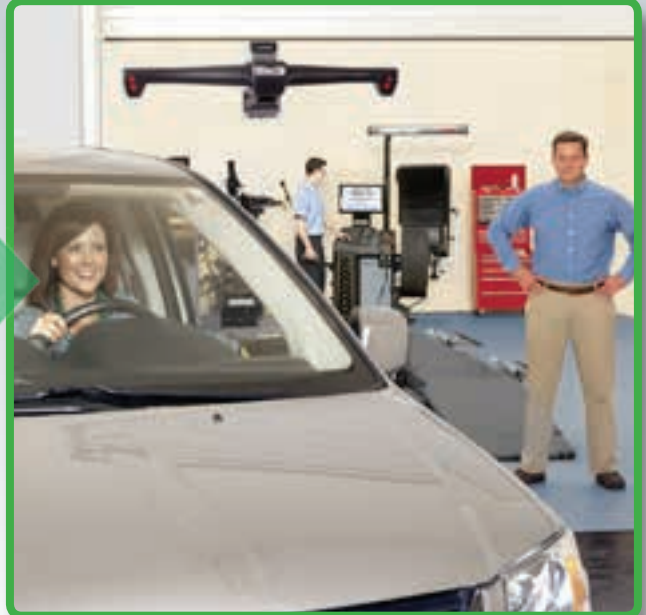
# problems

## 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”!



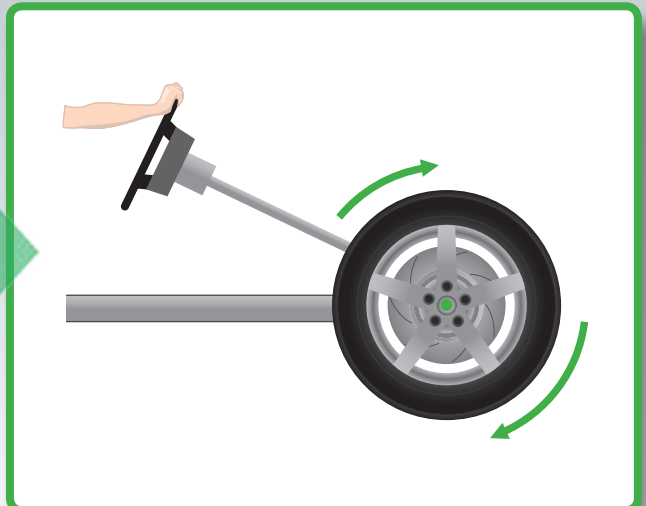
✓ Your customer experiences a smooth ride on the same tires and wheels

## 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

**PATENTED**

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

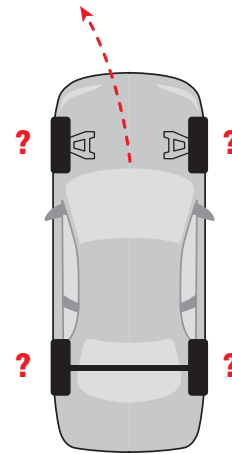
**NEW!**  
Now perform individual tire pull measurements\*

## Tires Just Rotated?

Customer complains about vehicle pulling to the left.

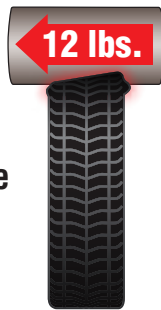


## Mysterious Left Pull

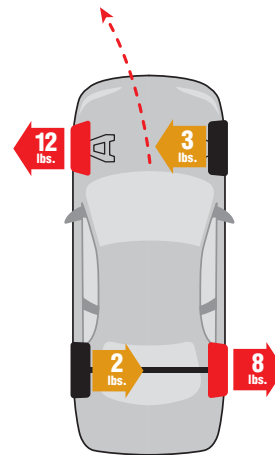


## Measure Lateral Force to Identify Pull

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



## Pull Identified

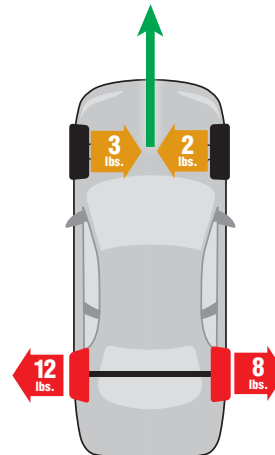


## StraightTrak Delivers the Ultimate in Customer Satisfaction



Hunter suggests optimal wheel placement just like OE manufacturers.

## Pull Eliminated



\* Patent pending

# Revolutionary **SmartWeight**® by the numbers

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

**6** **6 states** have banned lead correction weights, other states will follow.

**25** SmartWeight saves **25 labor hours** per year with efficient weight applications. \*

**30** SmartWeight can save **30% or more** in correction weights.

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

**202** An average shop saves **202 kilograms** per year with SmartWeight. \*\*\*

## SmartWeight® Balancing Technology



SmartWeight Savings				
Lifetime Savings				
Material Savings		Labor Savings		
Spacers	4988.5	Minutes		8038.0
Weights	2728.7	Hours		234.0
Boxes (removed)	1283.7			
Savings	\$13288	Savings		\$2678
<b>Total</b>				<b>\$15967</b>
Material Savings per Spine		Labor Savings per Spine		
Spacers	8.78	Seconds		
Savings	\$8.23	Savings		\$5.66

### Watch Your Investment Grow!

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

\* Time-savings are calculated from comparing single- and no-weight applications when using SmartWeight versus the typical two-weight application of standard balancers.

\*\* Comeback avoidance is calculated based on residual static imbalance left by standard balancers versus SmartWeight balancers.

\*\*\* Calculations based on 10 vehicles per day in a standard working year. Performance differences are those of a SmartWeight-equipped balancer vs. a traditional wheel balancer.

**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

**NEW!**



Technicians are guided with helpful tips and timesaving procedures.

**EXCLUSIVE**

# TPMSpecs brings concise TPMS information to your business!



TPMSpecs presents **100+** TPMS reset procedures in a simple comprehensive, user-friendly way.



*One-click TPMS access with a bar code scanner! (Scanner sold separately)*



*TPMS info can be presented through any internet-connected shop computer!*

# Additional features make balancing faster and easier

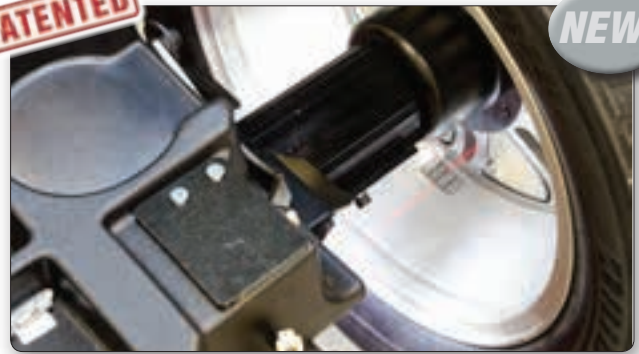
**EXCLUSIVE**



**NEW!**

**Live 3D graphics**

**PATENTED**



**NEW!**

**Bottom-dead-center laser and wheel light**

**EXCLUSIVE**



**NEW!**

**Most durable shaft in the industry**

**PATENTED**



**Integrated Inflation Station**

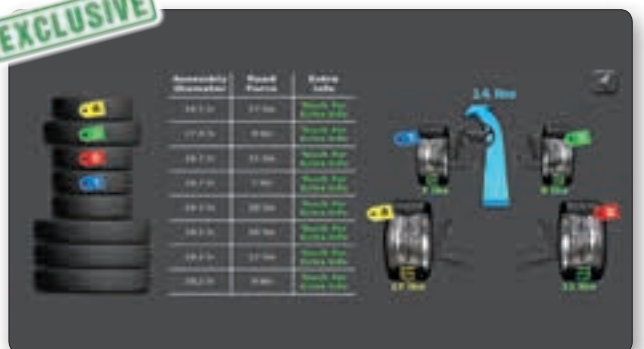
**PATENTED**



**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 AWD vehicles.

\* Patent pending

# Standard features for V.A.G dealerships

## Adjustable Flange Plate

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



## AutoClamp

- ✓ 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**

## 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



# Popular equipment upgrades

## Integrated wheel lift



- ✓ Safely service heavy, oversized wheels
- ✓ Precisely center all wheels
- ✓ Integrated construction saves space, reduces added time and expense associated with stand-alone lift units



Hunter offers hundreds of accessories to customize your balancer to your service needs.

See Form 3203-T for more information.

## GSP9700.com complimentary listing...

- ✓ Free listing on www.GSP9700.com
- ✓ Tens of thousands of hits each year
- ✓ Customers find you

**Locate a GSP9700 Road Force® Balancer**



## Let us advertise FOR YOU!

**Your Shop Name**  
 Street Address  
 City, State Zip Code  
 Phone number  
*Approx. X miles from your location*



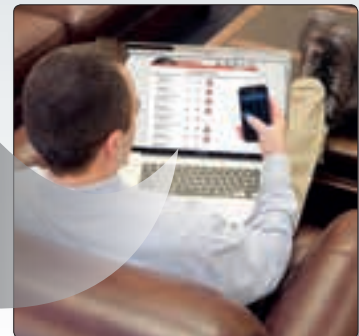
Map



Route



**StraightTrak®**  
Tire Pull Correction



# Specifications

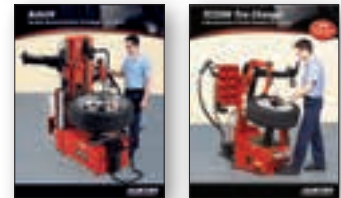


**RFT33VAG shown**

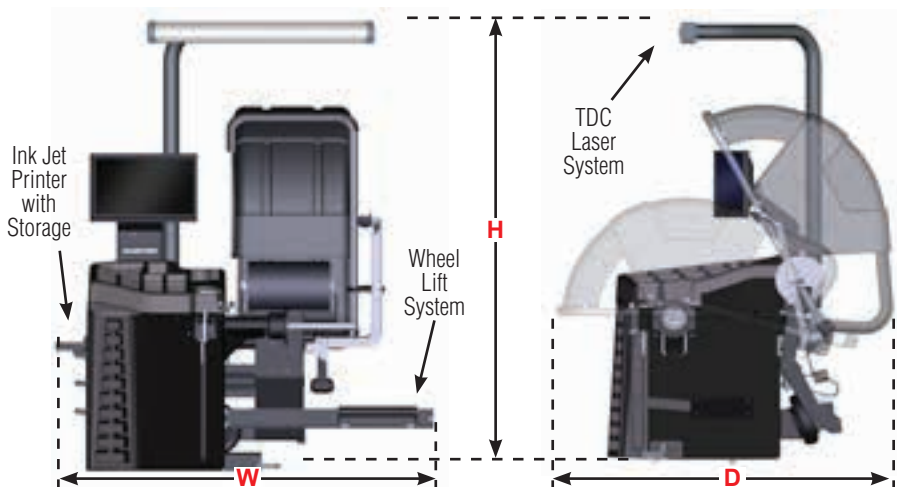
<b>Power Requirements</b>	196-253V, 10 amp, 50/60 Hz, 1 ph (Power cable includes: NEMA 20 amp plug, L6-20P)
<b>Air Supply Requirements</b>	100-175 psi (7-12 bar)
<b>Roller Force</b>	Variable up to 1,250 lbs (567 kg)
<b>Capacity</b>	
<b>Rim Width</b>	1.5 in to 20.5 in (38 mm to 521 mm)
<b>Rim Diameter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

\* Extreme wheel sizes may require manual data entry.

<b>Models</b>	<b>RFT33VAG</b> (HUNVAS6230B/4)	<b>RFT23VAG</b> (HUNVAS6230B/3)
<b>Wheel Lift System</b>	✓	
<b>AutoClamp® System</b>	✓	✓
<b>HammerHead® System</b>	✓	✓
<b>Ink Jet Print w/Storage</b>	✓	✓
<b>Width (W)</b>	<b>72 in</b> 1829 mm	<b>65 in</b> 1651 mm
<b>Height (H)</b>	<b>89 in</b> 2261 mm	<b>89 in</b> 2261 mm
<b>Depth (D)</b>	<b>62 in</b> 1575 mm	<b>62 in</b> 1575 mm
<b>Weight</b>	<b>879 lb</b> 399 kg	<b>753 lb</b> 342 kg



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



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

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