

# HD ELITE™

Industry-leading heavy-duty diagnostic  
wheel balancer



Provide a smooth ride for big wheels



Solve vibration  
problems



Automatic wheel  
measurements



Error-proof  
CenteringCheck®



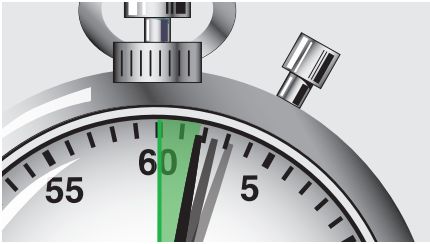
SmartWeight® savings  
technology





HD Elite™ at-a-glance

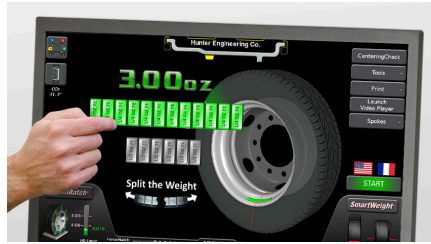
# BIG WHEELS. NO PROBLEM.



**EXCLUSIVE**

## Unmatched speed

- ✓ Measure runout and balance faster than any traditional balancer!



**STANDARD**

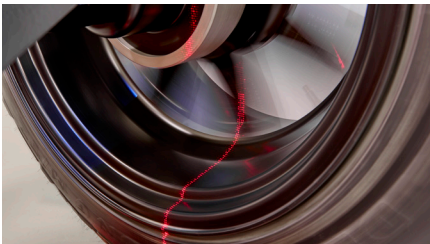
## Touchscreen Interface

- ✓ Intuitive interface
- ✓ Quickly train new technicians



## Balance Any Size Wheel

- ✓ Services cars and light trucks
- ✓ Uses standard adaptors



**PATENTED**

## Laser Vision system

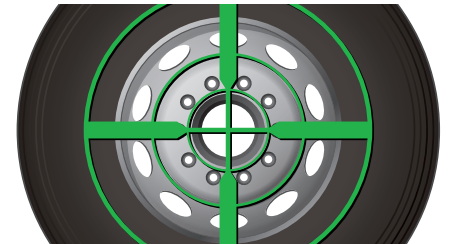
- ✓ Eliminate error opportunities
- ✓ More information in less time



**STANDARD**

## Wheel Lift

- ✓ Easily lifts wheel assemblies up to 500 lbs
- ✓ Aids proper mounting



**PATENTED**

## Automatic CenteringCheck®

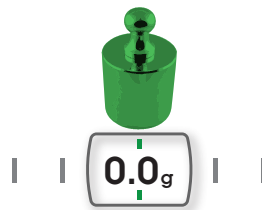
- ✓ Ensures proper centering
- ✓ Eliminates setup errors



**OPTIONAL | PATENTED**

## Diagnostic load roller

- ✓ Roller detects high spot of tire and allows matching
- ✓ Measures entire contact patch for accurate results



**PATENTED**

## eCal Auto-Calibration

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



**STANDARD**

## SmartSpot®

- ✓ Reduce technician errors
- ✓ Reduce wheel weight waste
- ✓ Better balance



**MADE  
IN USA**  
HUNTER ENGINEERING COMPANY ST. LOUIS, MO



ForceMatching®

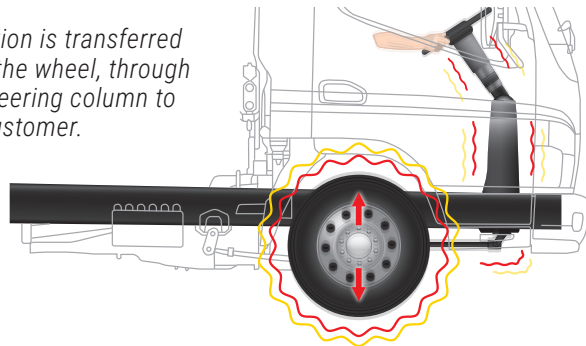
# ELIMINATE WHEEL-RELATED VIBRATION AND INCREASE TIRE LIFE

## 1 An Unknown Force Vibrates the Spindle

Customer complains about strong vehicle vibrations.



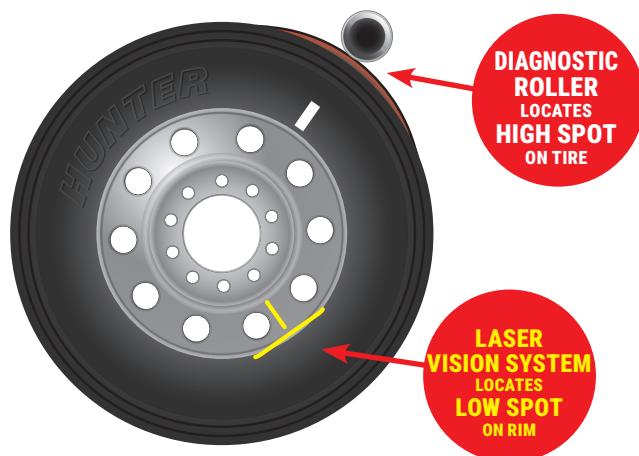
Vibration is transferred from the wheel, through the steering column to the customer.



## 2 Specialized Sensors Measure the Assembly



The HD Elite balancer automatically measures runout (eccentricity) of a tire and wheel assembly.



The roller measures the entire contact patch of the tire, detecting if the assembly is out of round.

## 3 Match-Mounting Cancels the Vibration



Match-mounting the high spot on a tire to the low spot on a rim makes the assembly roll as smoothly as possible.



Runout-related vibration is minimized, ensuring your customer a smoother ride and longer tire life.



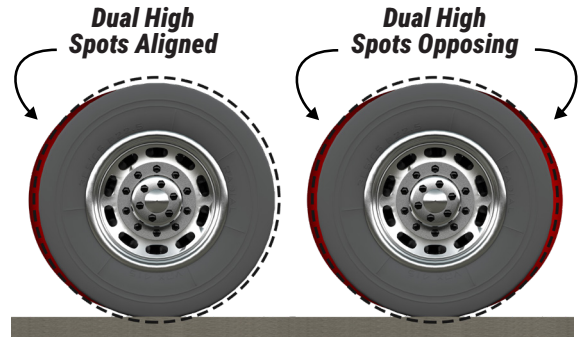
**ForceMatching®**

# MATCH DUAL ASSEMBLIES FOR LONGER TIRE LIFE.

## Opposing High Spots

Dual tire assemblies with aligned high spots behave like single assemblies with runout. Marking and installing wheels with high spots 180 degrees opposed makes the dual assembly more round than the two assemblies alone.

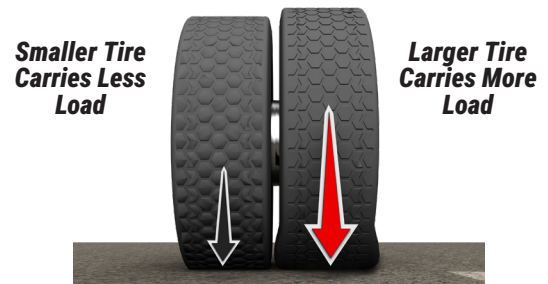
- ✓ Reduces Vibration
- ✓ Increases Tire Life



## Unequal Load on Duals

Mismatched diameters on dual tires causes the larger tire to carry more load, thus generating more heat and reducing tire life. The lesser diameter tire may develop premature tire wear due to slippage relative to the road surface.

- ✓ Increases Tire Life

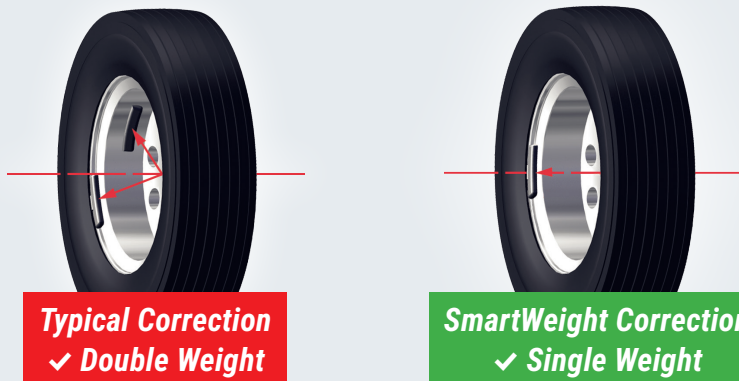


## SMARTWEIGHT® REDUCES LABOR COSTS AND SERVICE TIME

- ✓ Provides better balance
- ✓ Maximizes productivity
- ✓ Minimizes weight usage
- ✓ Reduces labor costs

## Saves Labor Time

SmartWeight® reduces “floor-to-floor” cycle time on more than 30% of wheels balanced by optimized use of a single weight to achieve the best possible balance.

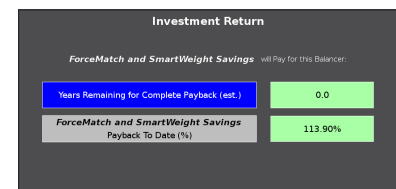


## View your savings LIVE!



- ✓ Track your weight savings

## Watch your investment grow

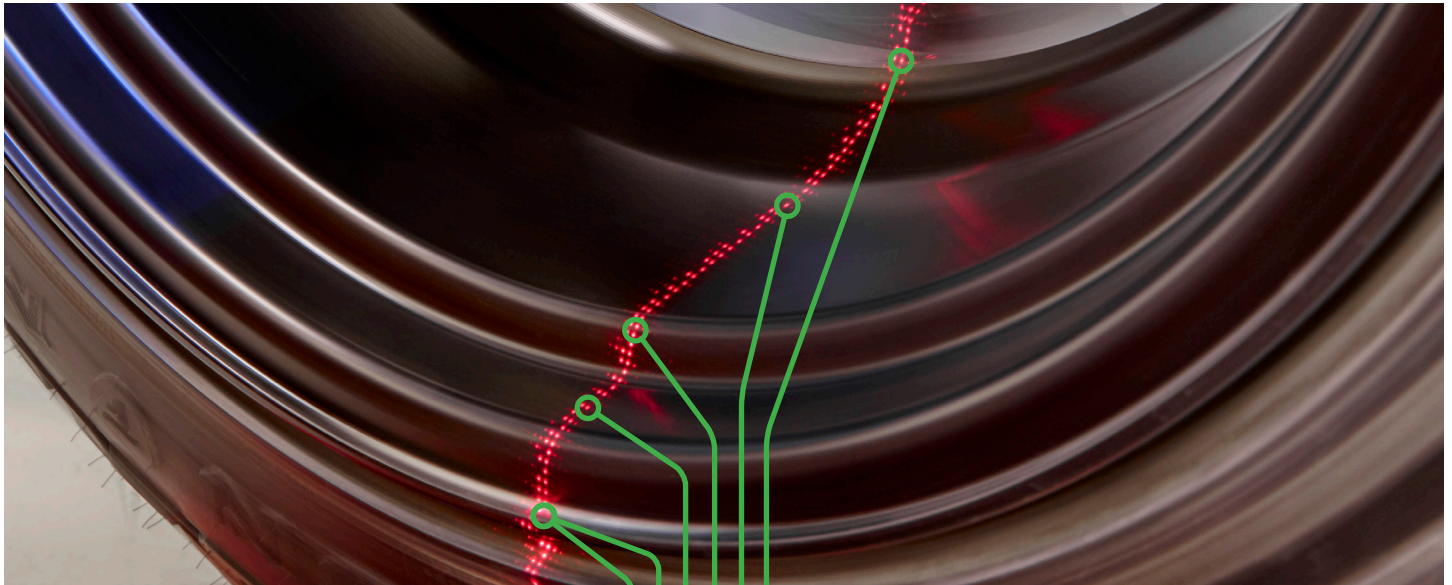


- ✓ See weight and labor savings based on **your** shop's numbers



*Patented vision technology*

# MORE FEATURES. LESS ERRORS. NO HASSLE.



## Wheel dimensions

**AUTOMATIC**

Automatically determines  
weight plane locations



## Weight mode

**AUTOMATIC**

Selects clip or tape weight  
usage, if desired



## 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



## Configuration

# BUILT FOR YOUR SHOP'S NEEDS.

| HDE-                    | 33                  | 32                 | 31                  | 30                 | 13                  | 12                 | 11                  | 10                 |
|-------------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| Diagnostic Load Roller  | ✓                   | ✓                  | ✓                   | ✓                  |                     |                    |                     |                    |
| TDC Laser               | ✓                   | ✓                  |                     |                    | ✓                   | ✓                  |                     |                    |
| Ink Jet Print w/Storage | ✓                   |                    | ✓                   |                    | ✓                   |                    | ✓                   |                    |
| Width (W)               | 75.75 in<br>1924 mm | 71 in<br>1803 mm   | 75.75 in<br>1924 mm | 71 in<br>1803 mm   | 75.75 in<br>1924 mm | 71 in<br>1803 mm   | 75.75 in<br>1924 mm | 71 in<br>1803 mm   |
| Height (H)              | 88 in<br>2223 mm    | 88 in<br>2223 mm   | 80.5 in<br>2046 mm  | 80.5 in<br>2046 mm | 88 in<br>2223 mm    | 88 in<br>2223 mm   | 80.5 in<br>2046 mm  | 80.5 in<br>2046 mm |
| Depth (D)               | 73.5 in<br>1867 mm  | 73.5 in<br>1867 mm | 73.5 in<br>1867 mm  | 73.5 in<br>1867 mm | 73.5 in<br>1867 mm  | 73.5 in<br>1867 mm | 73.5 in<br>1867 mm  | 73.5 in<br>1867 mm |
| Weight                  | 824 lb<br>374 kg    | 804 lb<br>365 kg   | 801 lb<br>363 kg    | 781 lb<br>354 kg   | 785 lb<br>356 kg    | 765 lb<br>347 kg   | 762 lb<br>346 kg    | 742 lb<br>337 kg   |



HDE11 shown

### Configurations Without Diagnostic Load Roller

- › Maintains all superior balancing features
- › Eliminates diagnostic roller benefits
- › Reduces overall package price

## POPULAR EQUIPMENT ACCESSORIES



### PATENTED

### HammerHead® Top-Dead-Center Laser

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



### Color Printer\*

- ✓ Help sell premium service
- ✓ Explain results to customer



\* Printer model may vary from pictured

Available as a field-installed option.

### STANDARD

### Convenient Storage Options

Adaptor tree conveniently stores oversized balancer accessories.





# HD ELITE SPECIFICATIONS\*



HDE33 shown

|  |   |
|--|---|
| <b>Power Requirements</b>                            | 196-253V, 10 amp, 50/60 Hz, 1 ph<br>NEMA L6-20P plug included |
| <b>Air Supply Requirements</b>                       | 100-175 psi (7-12 bar)  |
| <b>Capacity</b>                                      |   |
| <b>Rim Width</b>                                     | 1.5 in to 19.5 in (38 mm to 495 mm)                           |
| <b>Rim Diameter</b>                                  | 10 in to 30 in (254 mm to 762 mm)*                            |
| <b>ALU</b>   | 7.5 in to 38 in (191 mm to 965 mm)*                           |
| <b>Max. tire diameter</b>                            | 52 in (1321 mm)   |
| <b>Max. tire width</b>                               | 19.5 in (495 mm)  |
| <b>Max. tire weight</b>                              | 500 lbs (227 kg)  |
| <b>Min. tire diameter<br/>for roller application</b> | 26 in (660 mm)  |
| <b>Imbalance resolution</b>                          | ± 0.05 oz (1.0 g)   |
| <b>Placement accuracy</b>                            | 512 positions, ± 0.35°  |
| <b>Balancing speed</b>                               | 100 rpm   |
| <b>Motor</b>   | Programmable drive system<br>and DC motor                     |

\* Extreme wheel sizes may require manual data entry.

LASER RADIATION - DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. Viewing the laser output with magnifiers or related optical instruments within a distance of 100 mm from the laser aperture may pose an eye hazard.



The HD Elite Wheel Balancer is a Class 1 laser product.



## Your local Hunter team is ready to help

- ✂ Receive same- or next-day service
- 📞 Get a free quote or on-site demo
- 📅 Register for ASE-accredited training courses
- 📖 General information and questions



Contact your local team

[hunter.com/contact](https://hunter.com/contact)

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