

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®

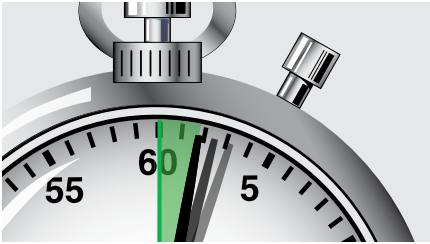


SmartWeight® savings
technology



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

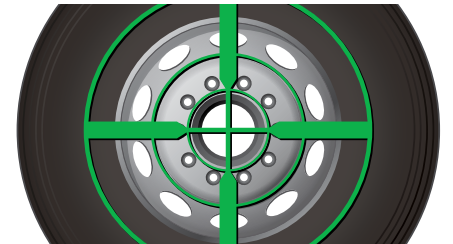
- ✓ Eliminate error opportunities
- ✓ More information in less time



STANDARD

Wheel Lift

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



PATENTED

Automatic CenteringCheck®

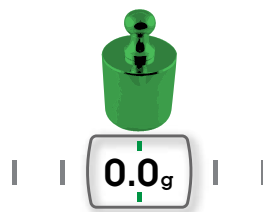
- ✓ Ensures proper centering
- ✓ Eliminates setup errors



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



HUNTER

HammerHead

2.00oz
6.00oz

HUNTER
HD Elite

MADE IN USA

MADE IN USA
HUNTER ENGINEERING COMPANY ST. LOUIS, MO

ForceMatching®

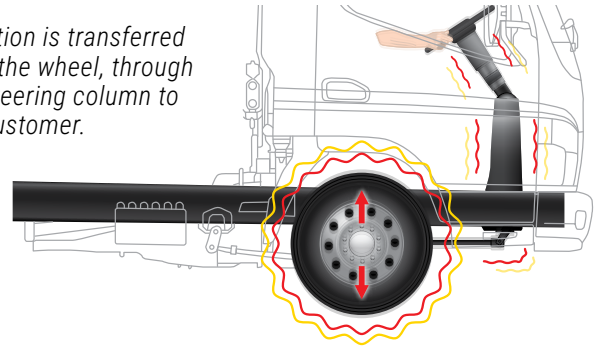
ELIMINATE WHEEL-RELATED VIBRATION AND INCREASE TIRE LIFE

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.

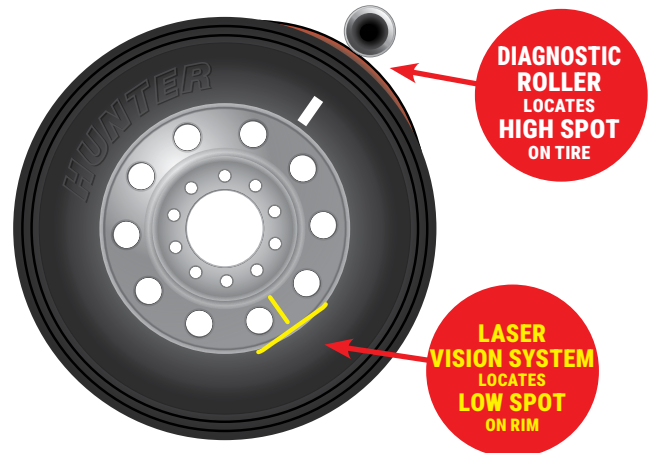


2 Specialized Sensors Measure the Assembly



Roller contacts wheel surface

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



DIAGNOSTIC ROLLER LOCATES HIGH SPOT ON TIRE

LASER VISION SYSTEM LOCATES LOW SPOT ON RIM

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 MINIMIZED

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

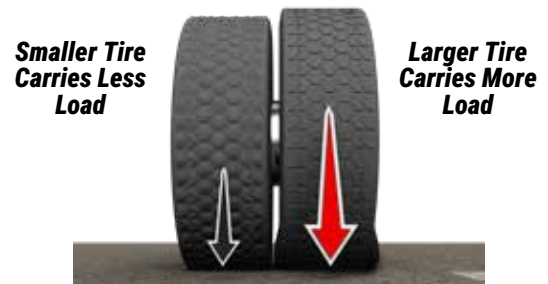
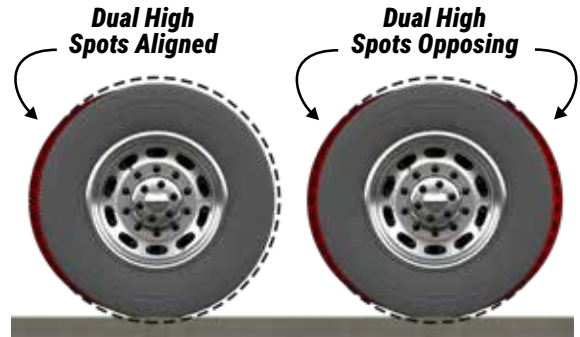
Dual tire assemblies with aligned high spots behave like single assemblies with runout. Marking and installing wheels with high spots 180 degrees opposed makes the dual assembly more round than the two assemblies alone.

- ✓ 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

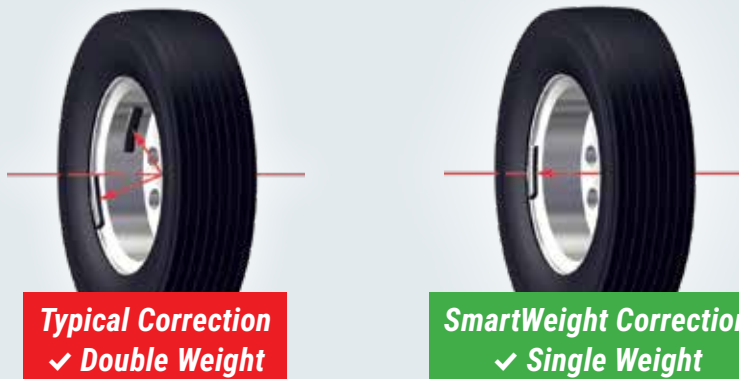


SMARTWEIGHT® REDUCES LABOR COSTS AND SERVICE TIME

- ✓ 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

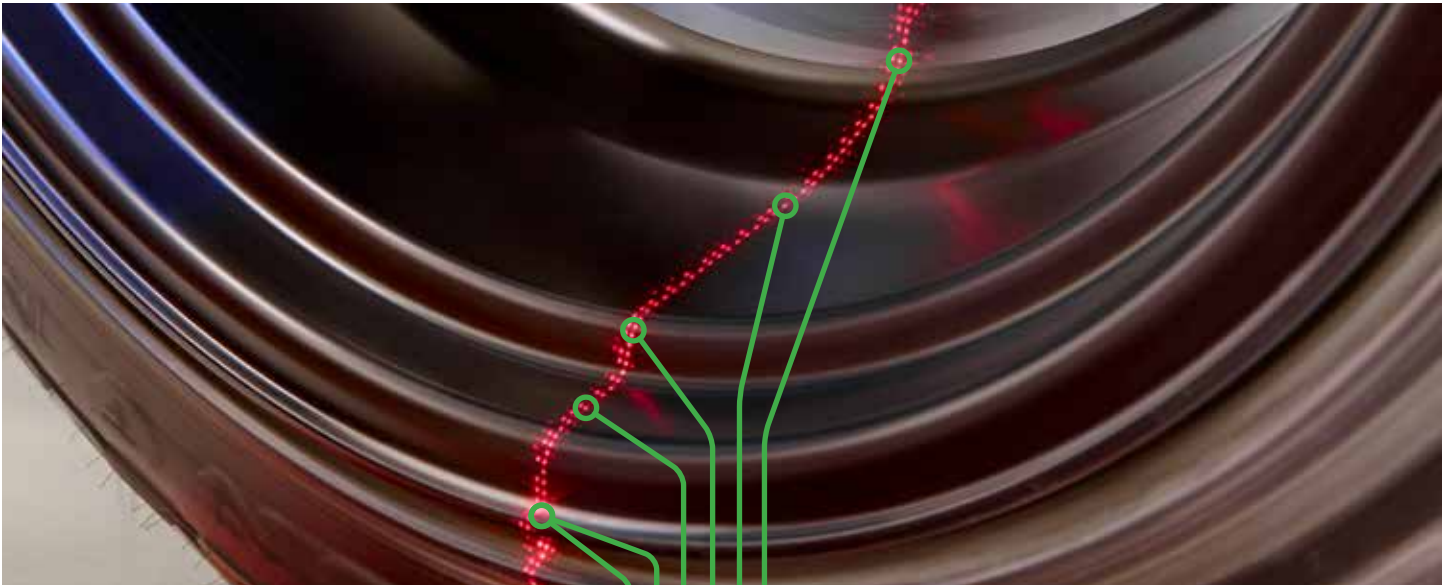
Watch your investment grow



- ✓ 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 1924 mm	71 in 1803 mm	75.75 in 1924 mm	71 in 1803 mm	75.75 in 1924 mm	71 in 1803 mm	75.75 in 1924 mm	71 in 1803 mm
Height (H)	88 in 2223 mm	88 in 2223 mm	80.5 in 2046 mm	80.5 in 2046 mm	88 in 2223 mm	88 in 2223 mm	80.5 in 2046 mm	80.5 in 2046 mm
Depth (D)	73.5 in 1867 mm	73.5 in 1867 mm	73.5 in 1867 mm	73.5 in 1867 mm	73.5 in 1867 mm	73.5 in 1867 mm	73.5 in 1867 mm	73.5 in 1867 mm
Weight	824 lb 374 kg	804 lb 365 kg	801 lb 363 kg	781 lb 354 kg	785 lb 356 kg	765 lb 347 kg	762 lb 346 kg	742 lb 337 kg



HDE11 shown

Configurations Without Diagnostic Load Roller

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

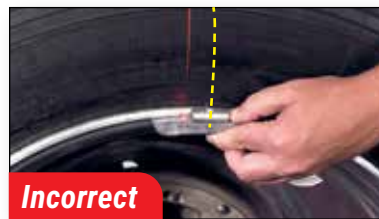
POPULAR EQUIPMENT ACCESSORIES



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



STANDARD

Convenient Storage Options

Adaptor tree conveniently stores oversized balancer accessories.



* Printer model may vary from pictured

Available as a field-installed option.

HD ELITE SPECIFICATIONS*



HDE33 shown

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

Because of continuing technological advancements, specifications, models and options are subject to change without notice. Printer may differ from versions shown throughout brochure images.

HUNTER
Engineering Company

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