HD Elite Balancer

The world's #1 heavy-duty diagnostic balancer



HD Elite Balancer quickly measures runout with every balance

EXCLUSIVE

Unmatched Speed!



Measure runout and balancer faster than any traditional balancer!

PATENTED

Laser Vision System



- Eliminate error opportunities
- ✓ More information in less time



OPTIONAL | PATENTED

Diagnostic Load Roller

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



shaft in the

industry

Designates features requiring diagnostic load roller.







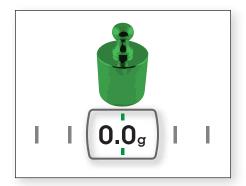
Automatic CenteringCheck®



- Ensures proper centering
- Eliminates setup errors

PATENTED

eCal Auto-Calibration



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

PATENTED

Enhanced SmartWeight®



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

STANDARD

Touchscreen Interface



- ✓ Intuitive interface
- Quickly train new technicians



Wheel Lift



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

Balance Any Size Wheel



- Services cars and light trucks
- Uses standard adaptors





HD Elite Balancers help eliminate wheelrelated vibration and increase tire life



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.

Specialized Sensors Measure the Assembly





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

3 Match-Mounting Cancels the Vibration





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

Matching dual assemblies to maximize tire life 🔝

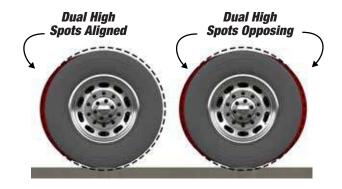


Opposing High Spots

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.

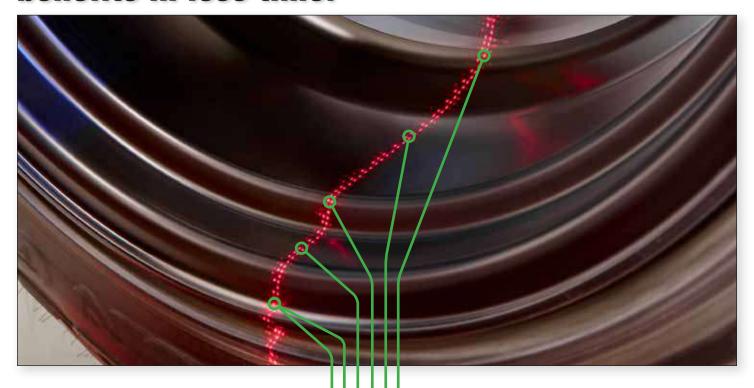








HD Elite vision technology unlocks more benefits in less time!



Wheel dimensions







Selects clip or tape weight usage, if desired





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

Optional Equipment

Configurations Without Diagnostic Load Roller

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



HDE11 shown

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.

Specifications*



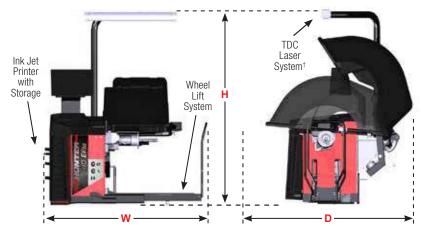
Power requirements	196-253V, 10 amp, 50/60 Hz, 1 ph NEMA L6-20P plug included		
Air supply requirements	100-175 psi (7-12 bar)		
Capacity			
Rim width	1.5 in to 19.5 in (38 mm to 495 mm)		
Rim diameter	10 in to 30 in (254 mm to 762 mm)*		
ALU	7.5 in to 38 in (191 mm to 965 mm)*		
Max. tire diameter	52 in (1321 mm)		
Max. tire width	19.5 in (495 mm)		
Max. tire weight	500 lbs (227 kg)		
Min. tire diameter for roller application	24 in (610 mm)		
Imbalance resolution	± 0.05 oz (1.0 g)		
Placement accuracy	512 positions, \pm 0.35°		
Balancing speed	100 rpm		
Motor	Programmable drive system and DC motor		

^{*} Extreme wheel sizes may require manual data entry.

Model Overview



	HDE33	HDE32	HDE11	HDE10
Diagnostic Load Roller	✓	✓		
Wheel Lift System	✓	✓	✓	✓
TDC Laser System	✓	✓		
Ink Jet Print w/Storage	✓		✓	
Width (W)	77 in 1956 mm	69 in 1753 mm	77 in 1956 mm	69 in 1753 mm
Height (H)	87.5 in 2223 mm	86.5 in 000 mm	81 in 2057 mm	81 in 2057 mm
Depth (D)	73 in 1854 mm	73 in 1854 mm	73 in 1854 mm	73 in 1854 mm
Weight	985 lb 447 kg	934 lb 424 kg	915 lb 415 kg	864 lb 392 kg



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

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

CLASS 1 LASER PRODUCT IEC 60825-1 ed. 2 2007 USA EN/IEC 60825-1 ed. 3 2014 non-USA





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

† When equipped with the TDC system, the balancer is a Class 2M laser product.

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







www.hunter.com