



VAS 6230

Road Force Measurement® System

Hunter's VAS 6230 "road tests" the tire/wheel assembly before it's installed on the vehicle and detects radial and lateral force problems related to:

- Tire uniformity
- Tire and rim runout
- Improper bead seating of tire to rim
- Vehicle drift or pull

■ Ensure the Smoothest Possible Ride

The VAS 6230 uniquely duplicates vibration measurement and tire/wheel matching methods previously used only by vehicle manufacturers to provide that "new car ride."

■ Provide Faster Troubleshooting and Repair

Quickly calculates the contributions of the rim and tire to any vibration problem and presents the technician with easy step-by-step repair instructions.

■ Increase Wheel Service Income

The VAS 6230 helps establish your shop as **the** vibration and handling control expert. It reduces comebacks and enables you to service vehicles that other shops turn away.



The load roller exerts up to 1,400 pounds of pressure against the tire assembly to detect non-balance, radial force-related vibration.

VAS 6230 Vibration Control System

Solves Vibration Problems That Balancers Can't Fix...

Measures Radial and Lateral Forces

Hunter's exclusive Road Force Measurement® System utilizes a "road roller" to measure non-uniformities of the wheel and tire. The VAS 6230 will automatically diagnose wheel and tire-related vibration problems and tire pulls. It then provides easy-to-follow instructions on how to solve them.

Solves Radial Force Variation

The patented ForceMatching® feature helps eliminate vibration by minimizing the effects of radial force variation and rim runout. ForceMatching effectively cancels the stiffest area of the tire with the average low point of the rim.



Lack of tire uniformity is a common and often hidden cause of wheel vibration. As a tire rolls, it flexes as if it were made of springs. Vibration results when the tire "spring rate" is not uniform.

Measures Radial and Lateral Rim Runout

The VAS 6230 measures lateral and radial rim runout without removing the tire from the rim and quickly indicates if runout is tire-related. Runout can also be measured at the actual bead seat on a bare rim.

The VAS 6230 then calculates the contributions of the tire and the rim to the vibration problem and presents the technician with easy-to-follow repair instructions.



The VAS 6230 measures radial and lateral tire forces and provides instructions for solving ride and handling problems that balancers and wheel aligners can't fix.



Matching the stiff area of the tire with the low point of the rim cancels vibration and provides the smoothest possible ride.

Rim runout can be measured without removing the tire...



... or, directly at the bead seat on a bare rim.

...and Pull Problems That Aligners Can't Address

Measures Tire-Related Drift and Pull

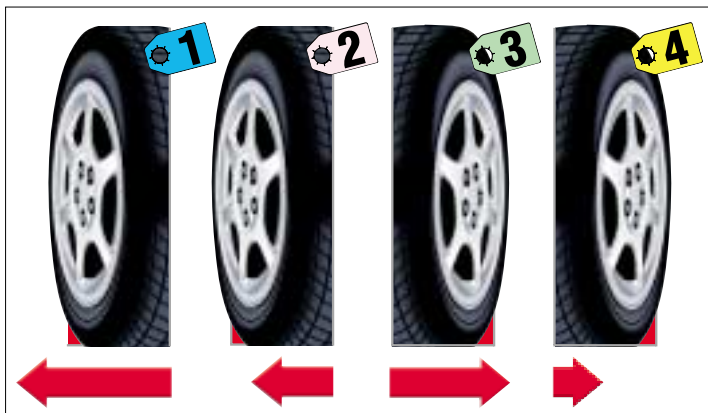
The StraightTrak® Lateral Force Measurement* feature measures the tire-related drift and pull of each wheel and then provides your technician with tire placement suggestions to eliminate or minimize pull forces.

StraightTrak LFM allows the technician to:

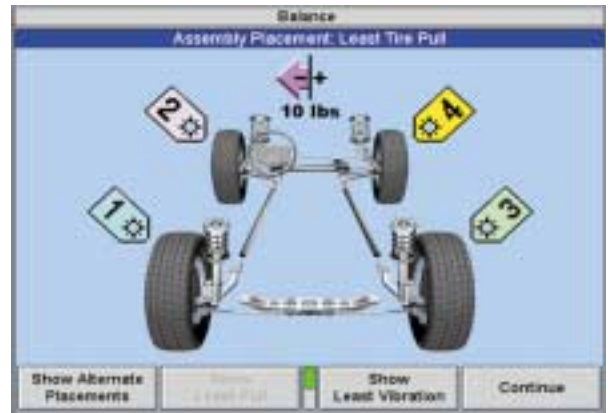
- Improve customer satisfaction by...
 - Identifying and correcting tire-related pull problems
 - Enhancing straight-ahead steering stability of the vehicle
- Save time by...
 - Performing rotations that do not induce problems or comebacks
 - Eliminating multiple tire rotations to reposition tires
 - Greatly reducing road tests



Illustration exaggerated for explanative purposes.



As the StraightTrak®* feature measures lateral forces in the tires, it tags them and then places them on the vehicle plan view...



... based on the amount and direction of their lateral force relative to the other tires.

Integrated Wheel Lift System



- Integrated wheel lift helps center heavy wheels more accurately for better balancing results.
- Helps reduce operator fatigue and potential injuries.

Inflation Station



Patented Inflation Station automatically prompts the operator to adjust tire pressure to manufacturer's specification.

For information about additional features, request Form 4159T.

Specifications†

Power Requirements:	230 V, 20 amp, 50/60 Hz, 1-ph
Air Supply Requirements:	120 ± 40 psi (8 ± 2.7 bar)
Motor:	"Intelligent" programmable drive system and DC motor provides variable direction, speed and torque*
Shipping Weight:	675 lbs. (307 kg)
Roller Force:	Up to 1,400 lbs. (635 kg)
Capacity:	
Rim Width:	1.5" (50 mm) to 20" (520 mm)
Rim Diameter:	10" (272 mm) to 24.5" (640 mm)
ALU:	7.5" (190 mm) to 41" (999 mm)
Maximum Tire Diameter:	40" (1016 mm)
Maximum Tire Width:	20" (520 mm)
Maximum Tire Weight:	175 lbs. (80 kg)
Accuracy:	
Radial and Lateral Runout:	0.002" (0.05 mm)
Radial Force Measurement:	2 lbs., 10N (1.0 kg)
Imbalance Resolution:	± 0.01 oz. (± 0.5 gms)
Placement:	512 positions, ± 0.35°
Balancing Speed:	Variable rpm, direction and torque
Certification:	U.L., C.E., PTB, DIN IEC 38

† Some dimensions, capacities and specifications may vary depending on tire and wheel configuration.

*Patented



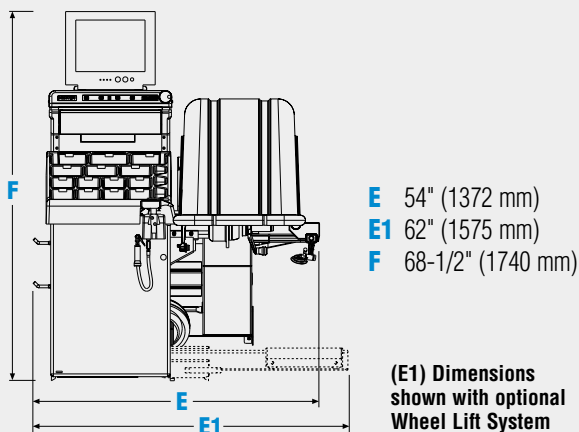
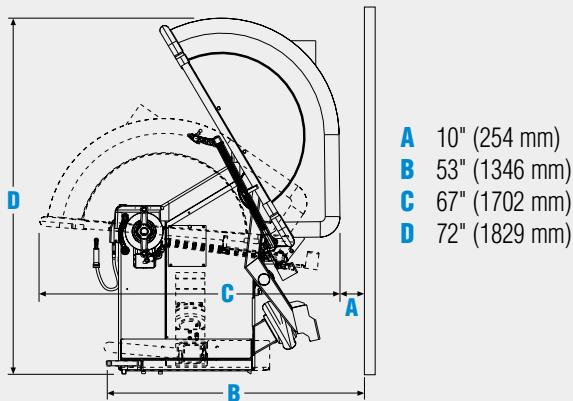
VAS6230P/2

Models:

VAS6230P – GSP9712 with Printer, StraightTrak®, Road Force Measurement®, RunOut Measurement, and Balancer, 17" Monitor, Auto Double Dataset®, Spindle-Lok®, Servo-Stop, Direct Weight Placement and Quick Thread® Auto Clamping

VAS6230P/2 – GSP9712 with Printer, Wheel Lift, StraightTrak, Road Force Measurement, RunOut Measurement, and Balancer, 17" Monitor, Auto Double Dataset, Spindle-Lok, Servo-Stop, Direct Weight Placement and Quick Thread Auto Clamping

VAS 6230 Dimensions



Standard Accessories

HUN175-296-2	9" Clamp Cup Adaptor
HUN106-127-2	9" Clamp Cup Sleeve (4)
HUN20-1626-1	Wheel Centering Kit (Includes 7 Cones)
HUN175-316-1	Cup, Notched Polymer, 4.5" O.D
HUN106-82-2	Sleeve, Scratch Guard for Cup
HUN46-320-2	Spacer
HUN223-68-1	Ring, Pressure
HUN221-589-2	Pliers, Weight Hammer
HUN221-658-2	Hammer Heads Polymer ALU Wheel (4)
HUN221-659-2	Scraper, Adhesive Weight
HUN65-72-2	Calibration Weight, Balancer
HUN221-602-1	Calibration Tool, Load Roller and Dataset Arms
HUN76-371-3	Wing Nut W/ Handles
HUN221-563-1	Caliper, Rim Width/Internal Diameter
HUN4202T	GSP9700 Operation Manual
HUN4749T-T-2	Vibration Diagnosis Training Manual
HUN4810T	Maintenance and Operation Placard
HUN4878T	GSP9700 Road Force and Balancing Training Video
HUN4879T	StraightTrak LFM* Video
HUN20-1650-1	Rim Tags
HUN128-421-2	Labels, Weight Tray (2)

For more information about the VAS 6230 Road Force Measurement® System contact:



HUNTER
Engineering Company

1-800-892-9650

1-800-448-6848

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