

Wheel balancers

Approved by Volkswagen AG



Wheel balancers



VAS 6307

- Includes the patented virtual plane measurement technique (**VPM**) which ensures accurate results and which is insensitive to ambient conditions.
- Large monitor-like LC display using pictorials for intuitive and optimised operator guidance.
- Optimum work place with functional design including large weight tray and integrated shelves for clamping adaptors.
- Automatic input of distance rim/machine and rim diameter with the **2D SAPE** gauge arm. Entry of tyre width is by pressing the relative function key and rotating the wheel (patented).
- Easy and accurate relocation of weight position and fitting of adhesive weights inside the rim owing to the KPS weight positioning system with wheel weight clamp.
- The split-weight mode (**HSP**) allows the operator to hide the outer adhesive weights in spoke-type alloy rims. Machine shaft and consequently the wheel can be retained in position with the spindle lock.
- Optimisation (**HOS**) not only reduces the need for wheel weights (matching), but also ensures smooth running of the car.
- 8 balancing modes, 7 of which can be used for alloy rims
- 4 user profiles
- Pedal-operated mechanical spindle lock
- PAX mode
- MZV-4 cone adaptor with quick-clamping nut
- Cones with dia. 42-77 mm, 72-99 mm, 96-116 mm
- Spacer
- Rim width callipers, universal weight pliers, and ART adhesive weight removing tool.
- Wheel guard for wheel dia. up to 950 mm

Additional features of wheel balancer VAS 6308:

- 17" TFT flat screen using pictorials to make usage more operator-friendly. Vehicle data can be handled via **asanetwork**.
- The embedded PC is latest PC technology.
- 3D SAPE is for automatic input of distance, rim diameter and rim width.
- 9 user profiles

Wheel balancers



VAS 6309

- Includes the patented virtual plane measurement technique (**VPM**) which ensures absolutely accurate results and which is insensitive to ambient conditions.
- Large monitor-like LC display using pictorials for intuitive and optimised operator guidance.
- Optimum work place with functional design including large weight tray with 24 compartments (for 1 package of wheel weights each) and integrated shelves for weight pliers and accessories.
In addition space-saving wheel guard and additional storage for clamping adaptors.
- Automatic input of distance rim/machine, rim diameter and rim width with the **3D SAPE** gauge arm.

- Weights are fitted to the wheel in 12 h position using the **geodata gauge** arm. After measurement the wheel stops automatically in the correction plane.
In the ALU modes the rim lighting system and mirror help to relocate the weight position inside the rim quickly and ergonomically.
- The automatic stop system (**ASS**) retains the geodata gauge arm in the previously stored position. The wheel weight clamp of the gauge arm firmly holds the wheel weight until properly applied to the rim.
- The split-weight mode (**HSP**) allows to hide the outer adhesive weights in spoke-type alloy rims. Machine shaft and consequently the wheel can be retained in position with the spindle lock.
- Optimisation (**HOS**) not only reduces wheel weights (matching), but also ensures smooth running of the car.
- 6 balancing modes, 5 of which for alloy rims
- 9 user profiles

- Pedal-operated electromagnetic spindle lock
- PAX mode
- Rim width callipers, universal weight pliers, and ART adhesive weight removing tool.
- MZV-4 cone adaptor with quick-clamping nut
- Cones with dia. 42-77 mm, 72-99 mm, 96-116 mm
- Spacer
- Wheel guard for wheel dia. up to 950 mm

Additional features of wheel balancer VAS 6310:

- 17" TFT flat screen using pictorials to make usage more operator-friendly.
Vehicle data can be handled via **asanetwork**.
- The embedded PC is latest PC technology.

Premium balancer with diagnostic function



Run-out



If the threshold values of the tyre/wheel assembly are exceeded, the *geodyna optima* turns into a diagnostic tool.

- Clamp the wheel, close the wheel guard and the laser will automatically measure all wheel data (wheel dimensions, radial and lateral run-out, number and position of spokes, imbalance) without any need for the operator to touch the wheel.
- Automatic selection of balancing mode and correction plane for the adhesive weights.
- Weights are fitted on the wheel in 12 h position using the geodata gauge arm. After measurement the wheel stops automatically in the correction plane.
- The automatic stop system (**ASS**) retains the geodata gauge arm in the previously stored position. The wheel weight clamp of the gauge arm firmly holds the wheel weight until properly applied to the rim.
- The split-weight mode (**HSP**) allows to hide the outer adhesive weights in spoke-type alloy rims. A single key operation is enough to accomplish this previously tedious job.
- Correct clamping of wheel with the electromechanical **power clamp** device.
- Machine shaft and consequently the wheel can be retained in position with the electromagnetic spindle lock.
- Optimum work place with functional design including large weight tray with 24 compartments (for 1 package of wheel weights each) and integrated shelves for weight pliers and accessories.
In addition space-saving wheel guard and additional storage for clamping adaptors.
- The embedded PC is latest PC technology.
- TFT flat screen using pictorials for intuitive and clear operator guidance. Vehicle data can be handled via **asanetwork**.
- Extensive on-line help to support operation and handling of critical wheels.
- Printed out-put of measured results using the optional ink-jet printer.
- Includes the patented virtual plane measurement technique (**VPM**) which ensures accurate results and which is insensitive to ambient conditions.
- Cones with dia. 42-77 mm, 72-99 mm, 96-116 mm
- Spacer
- Wheel weight removing tool
- Holders for clamping adaptors at the right-hand and left-hand side of the machine
- Wheel guard for wheel dia. up to 950 mm
- OptiLine Kit
- Optional accessories for accurate clamping of wheels: stepped centring ring (centre bore dia. 57 mm and 71.6 mm) and stud-hole flange (pitch circle dia. 5 x 100/112/120/130 mm; 5 bolts 80 mm long)

Split-weight mode



Upon simple key operation the imbalance readings are allocated to wheel weight positions behind adjacent wheel spokes.

Technical Data and Accesories

Technical Data		VAS 6307	VAS 6308	VAS 6309	VAS 6310	VAS 6311
Rim centre bore dia \varnothing	mm	43–115	43–115	43–115	43–115	43–115
Shaft diameter	mm	40	40	40	40	40
Measuring speed	rpm	200	200	200	200	200
Rim width	inch	1–20	1–20	1–20	1–20	1–20
Rim diameter	inch	8–25	8–25	8–25	8–25	14–26
Max. wheel width	mm	530	530	530	530	530
Max. wheel diameter	mm	950	950	950	950	950
Max. wheel weight	kg	70	70	70	70	70
Dimensions (WxDxH)	mm	1265x1130x1765	1385x1130x1765	1365x910x1375	1365x910x1700	1495x1030x1740
Weight	kg	130	142	148	153	217
Power supply	V	200–240, 1 ph / 50 / 60 Hz				

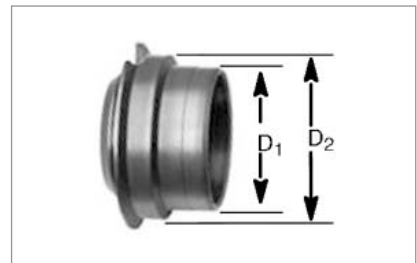
Accessories



4026401 – Light-truck Kit with spacer, dia 112–168 mm



4029029 – Stud-hole flange FP VAG with circle dia. 5x100/112/120/130 mm



30344 – Tapered centering cone dia. D1 = 57 mm, D2 = 71.6 mm

Standard equipment	VAS 6307	VAS 6308	VAS 6309	VAS 6310	VAS 6311
Patented virtual plane measurement VPM*	•	•	•	•	•
Automatic input of distance rim/machine – 1D SAPE	•	•	•	•	touchless*
Automatic input of diameter – 2D SAPE	•	•	•	•	touchless*
Manual input of width	•				
Automatic input of width – 3D SAPE		•	•	•	touchless*
Non-contact run-out measurement*					•
Conspicuous LC display	•		•		
TFT monitor		•		•	•
Gauge arm with patented weight clamp *	•	•			
Automatic selection of balancing mode*					•
geodata gauge arm*			•	•	•
Outer gauge arm		•	•	•	•
Automatic selection of correction planes					•
ASS automatic stop system for geodata gauge arm			•	•	•
Patented split-weight mode HSP*	•	•	•	•	•
Geometric matching*					•
PAX mode	•	•	•	•	•
Automatic braking after measurement	•	•	•	•	•
Automatic orientation into 12 h correction position after measurement		•	•	•	•
Pedal-operated spindle lock	•	•	•	•	•
Multiple user profiles	•	•	•	•	•
Motor drive with V belt for constant speed	•	•	•	•	•
Patented optimisation HOS*	•	•	•	•	
Rim lighting system with mirror			•	•	
Electro-mechanical power clamp device*	optional	optional	optional	optional	•
Embedded PC		•		•	•
Printer interface					•
Compatible to asanetwork (option)		•		•	•
Wheel guard	•	•	•	•	•

*patented / patent pending

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Part of the machines is illustrated with optional extras available at extra cost.
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