VOLKSWAGEN

AKTIENGESELLSCHAFT



Workshop equipment Manufactured by Hunter Engineering Company

Hunter: Market leader in the USA

Hunter Engineering Company is a worldwide leading manufacturer of workshop equipment. Founded in 1946 by Lee Hunter in Ladue, Missouri, USA, it has remained a privately-owned, family company. In 1946, Hunter built a large company headquarters in St. Louis, Missouri, in which over 70 engineers develop the software and hardware parts for the machines and test them in laboratories. In addition to the main building, the company's own training center, with an auditorium for 400 persons was erected, and in 1992 the training center was expanded to include trucks and buses.

The production of the machines takes place in the three factories: in Bridgeston, Missouri, Raymond, and Durant, both in Mississippi. The sales organization of Hunter works internationally and is supported by over 60 agencies worldwide.

Hunter Worldwide: International distribution in over 110 countries

Since first entering into the international market in the 1950s, Hunter has made steady progress in introducing its innovative products to all of the regions of the world. Hunter is committed to building lasting business relationships and a loyal following of end users worldwide through its international network of distributors in more than 110 countries around the world.

Hunter: Global Leader for Workshop Equipment and Supplier for Volkswagen AG





Founded in 1946 by Lee Hunter in Ladue, Missouri, USA, Hunter Engineering Company has remained a privately-owned, family company to this day.

Hunter is committed to building lasting business relationships and a loyal following of end users worldwide through its international network of distributors in more than 110 countries around the world.



Wheel alignment:
The highest profit margin service you can do



VAS 6292 Wheel Alignment System



Easy to install

Spring-loaded adjustment conforms to wheel size. Single thumb lever locks the clamp. Off-center clamping has no effect on accuracy.



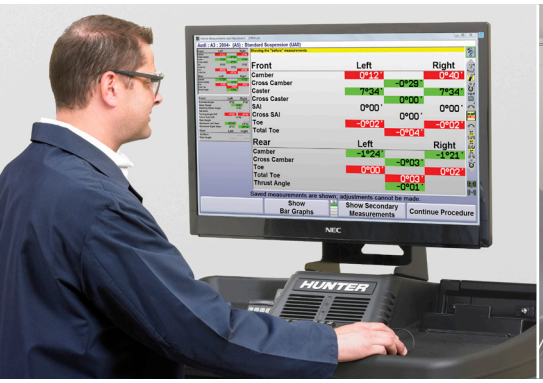
Lightweight and low maintenance

Shop-tough polymer structure withstands drops. No electronics, cables or calibration. Minimal cleaning required.



No metal-to-metal contact

Clamp arms grip the tyre while the protective ring contacts the rim.



WinAlign® alignment software

The patented, standard in alignment systems worldwide, WinAlign® provides quick and accurate measurements for maxiumum efficiency and profits.



Live Ride Height Measurement

Automate the ride height measurement procedure accurate to one millimeter. All new Volkswagen Group vehicle models require this measurement.



Fully Integrated Alignment

With the Hunter lift rack connected to the aligner, features like slipplate/turnplate locking and unlocking are automatic, saving you time and trips around the vehicle.

VAS 6292 Wheel Alignment System



The best-selling version in the Volkswagen Group

The cabinet-mounted system provides a camera beam mounted in the center of the mobile console, and its height can be adjusted. The cameras detect the targets on the vehicle with the wheel alignment lift set at any working height. A larger equipment console is also available that offers additional tool drawers.

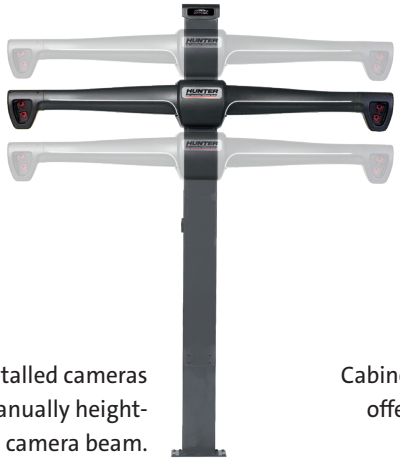
- Rolling compensation is fast with the QuickComp® procedure. The vehicle is positioned just behind the turnplate and rolled forward. The targets are detected and compensated in seconds.
- The targets do not need to be adjusted over the entyre course of the alignment, brought onto the scale.
- Driving assistance adjustment with VAS 6430 can even be performed independent of the alignment, with two optional auxiliary cameras.

Choose the right sensor for your shop

- Measurement results are precise because the maintenance-free camera technology guarantees long-term precision.
- After the alignment, the steering is truly straight when driving forward.
- The digital camera technology is positioned outside of the immediate work area and is thus protected.
- There are no cables or disruptive electronic signals between the targets and the camera console.
- The vehicle height is automatically displayed live, in real-time, on the screen via the height targets.



Wall- and ceiling-mounted confi gurations are perfect when space is at a premium.



Permanently installed cameras with a manually height-adjustable camera beam.

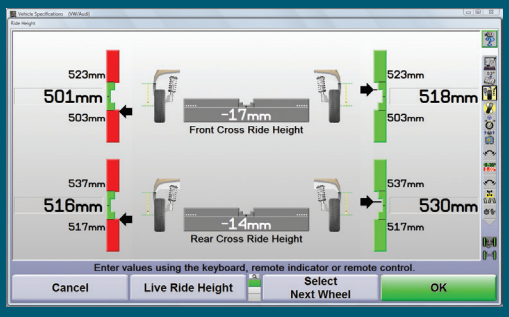


Cabinet-mounted sensors offer flexibility to move from bay to bay.

Live Ride Height provides exact measurements in seconds



Hunter's Live Ride Height Measurement System automates ride height measuring procedures as specifi ed by Volkswagen and Audi. Accurate to one millimeter, Live Ride Height instantly displays measurements compared to vehicle specifi cations.

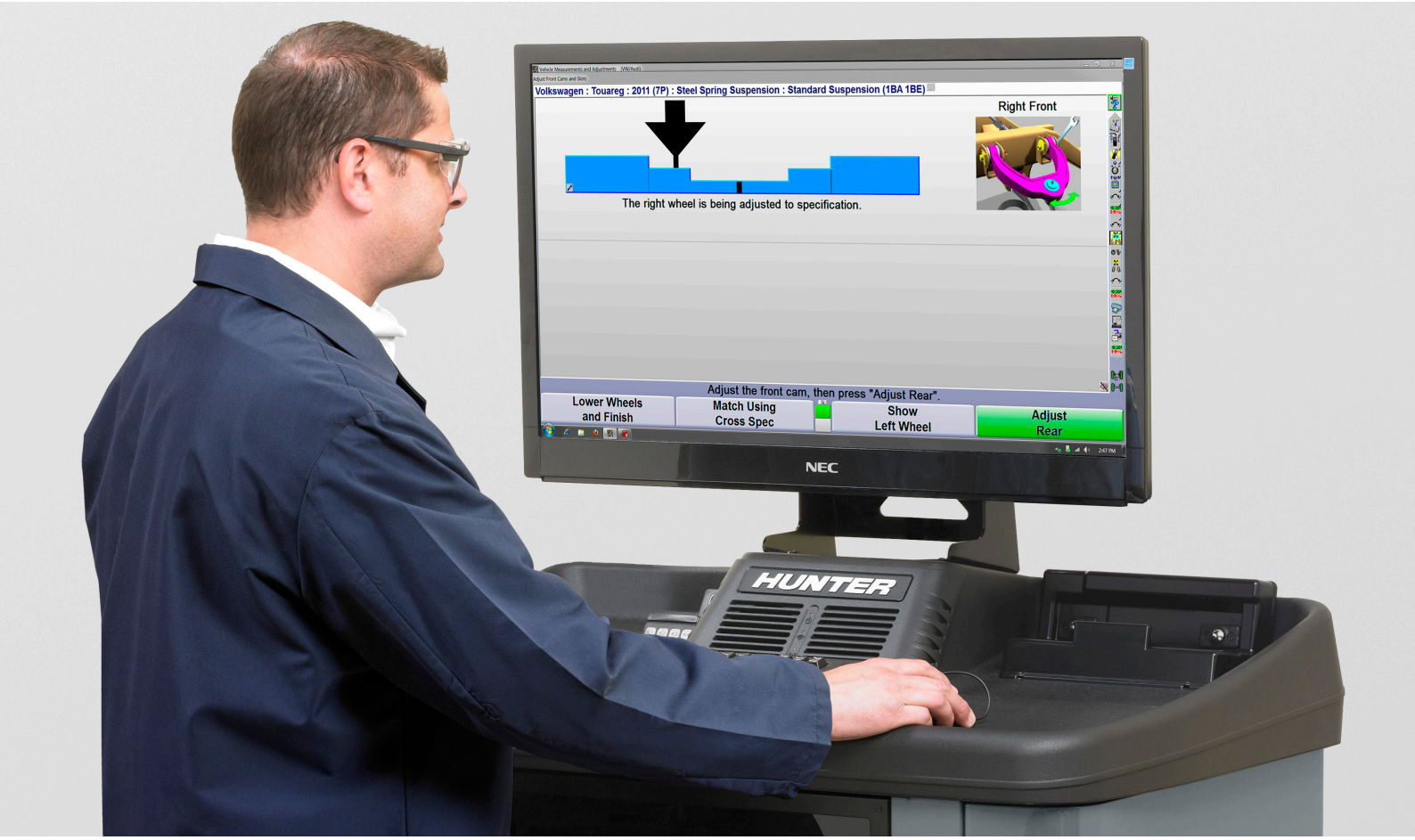


Color-coded bar graphs show adjustments needed to set ride height within the vehicle's specifi cations.

All new Volkswagen Group vehicle models require ride height to be measured.



CAMM takes the guesswork out of VW Touareg dual-cam camber and caster adjustment

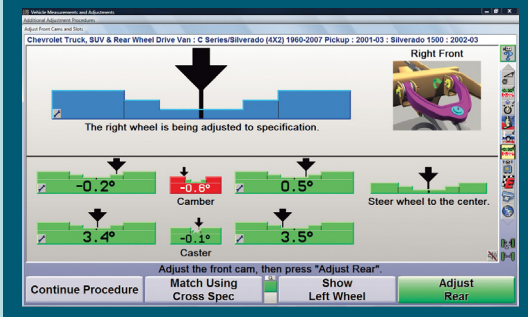


Unique Features

CAMM® (Control Arm Movement Monitor) tracks live caster and camber measurements for precise front and rear cam adjustment.

- Computes the exact mechanical geometry of the vehicle, so correct adjustments can be made on the first try
- Easily switch between front and rear control arms to fine-tune the adjustment
- Display current camber and caster measurements for reference

Without CAMM®, adjusting control arm camber and caster is trial and error



Easily calibrate Advanced Driver Assistance Systems (ADAS)

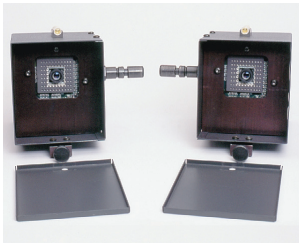


VAS 6430 ADR/ACC/LDW/Night Vision Fixture

VAS 6430 is available through your VAG equipment supplier.

The VAS 6292 is also compatible with Volkswagen AG adjustment device VAS 6430. This device is used to calibrate:

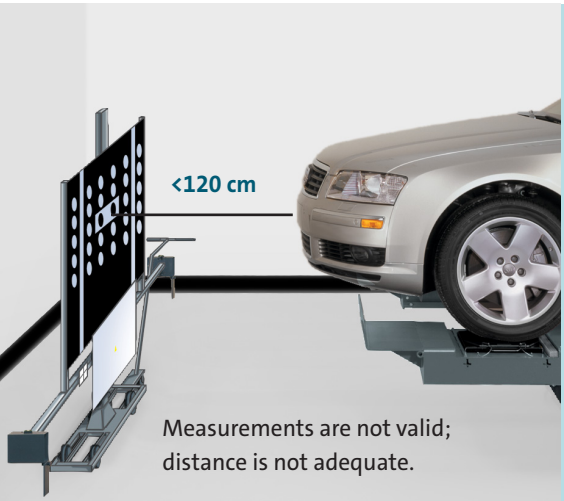
- Adaptive Cruise Control (ACC) radar sensor
- Lane Departure Warning (LDW) image sensor
- Night Vision assistant system



Optional
Calibrate the above systems without performing a wheel alignment by using the optional radar aiming camera kit, 20-2814-1, together with the VAS 6430.

Important Note:
V.A.G requires ADR/ACC/LDW/Night Vision calibration whenever vehicle alignment is adjusted.

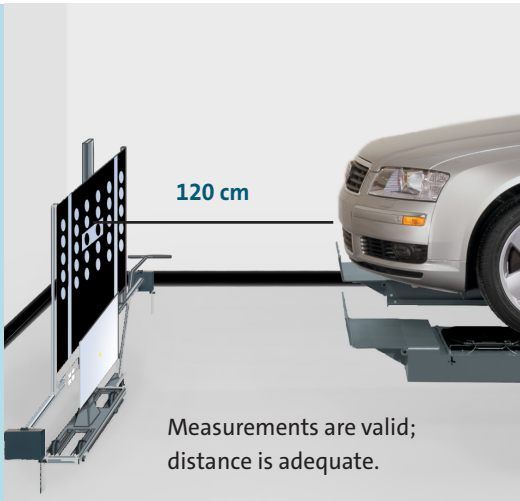
Space requirements



Measurements are not valid; distance is not adequate.

If your alignment bay is too short to accommodate the VAS 6430 calibration fixture, Hunter's VAS 6292 Alignment System offers a solution. If the bay or lift configuration allows, the vehicle can be rolled rearward on the lift/rack until the required distance is obtained.

Adaptive Cruise Control (ACC) or Automatic Distance Regulation (ADR) measurement procedures utilizing optional HE421 radar aiming cameras (20-2814-1).

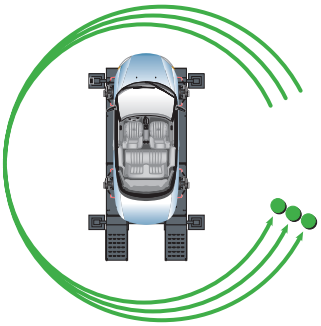


Measurements are valid; distance is adequate.

VAS 791 001 Alignment Lift

The Fully Integrated Alignment lifting platform

Save time and trips around the vehicle
The new scissor lifting platform is the standard design for wheel alignments and guarantees the highest efficiency possible through Fully Integrated Alignment (FIA). FIA makes possible automatic locking and unlocking of the rear slipplates and optional front turnplates during wheel alignment. This saves a substantial amount of time compared to conventional manual locking/unlocking plates.



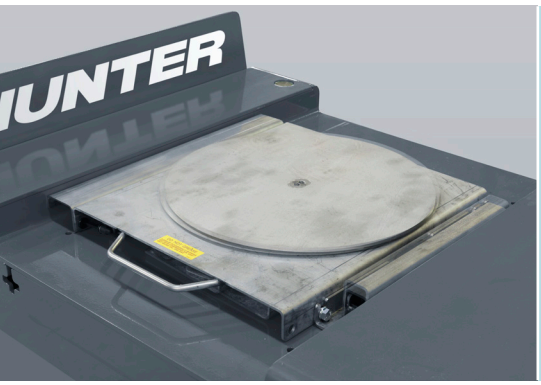
FIA reduces the conventional, large number of trips around the vehicle during wheel alignment
1. Mount QuickGrip® adaptors on the wheels
2. Perform wheel alignment with automatic locking and unlocking of the slipplates and turnplate
3. Demount QuickGrip® adaptors. Done.

New stability with a smaller footprint
The VAS 791 001 is made in the USA and produced in the Hunter lifting platform factory. To guarantee the precision required for wheel alignment, the runways are designed for especially high stability against twisting. The integrated rear slipplates and optional front turnplates can be locked in place from the operating console with the press of a button.

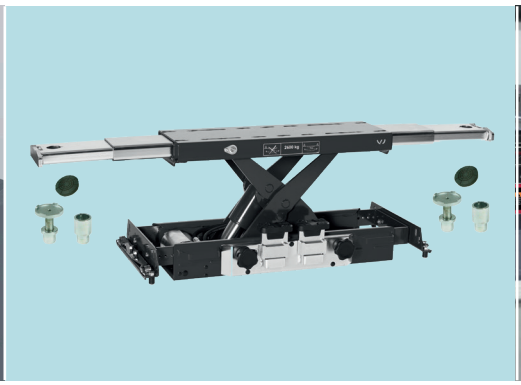
VAS 791 001 facts

- Low height of only 220 mm, also suited to underfloor assembly at no additional cost
- Extra-wide runways make it possible to drive wide vehicles on
- Feedback sensor synchronizes the runways and ensures safety with multiple lock stops
- Durable chrome bolts and Tefl on bearings
- Lifting platform can be switched off in case of hydraulic malfunction through quick-locking procedure
- 16 lockable height positions
- Complete operation of the lift via separate operating console

Recommended Accessories



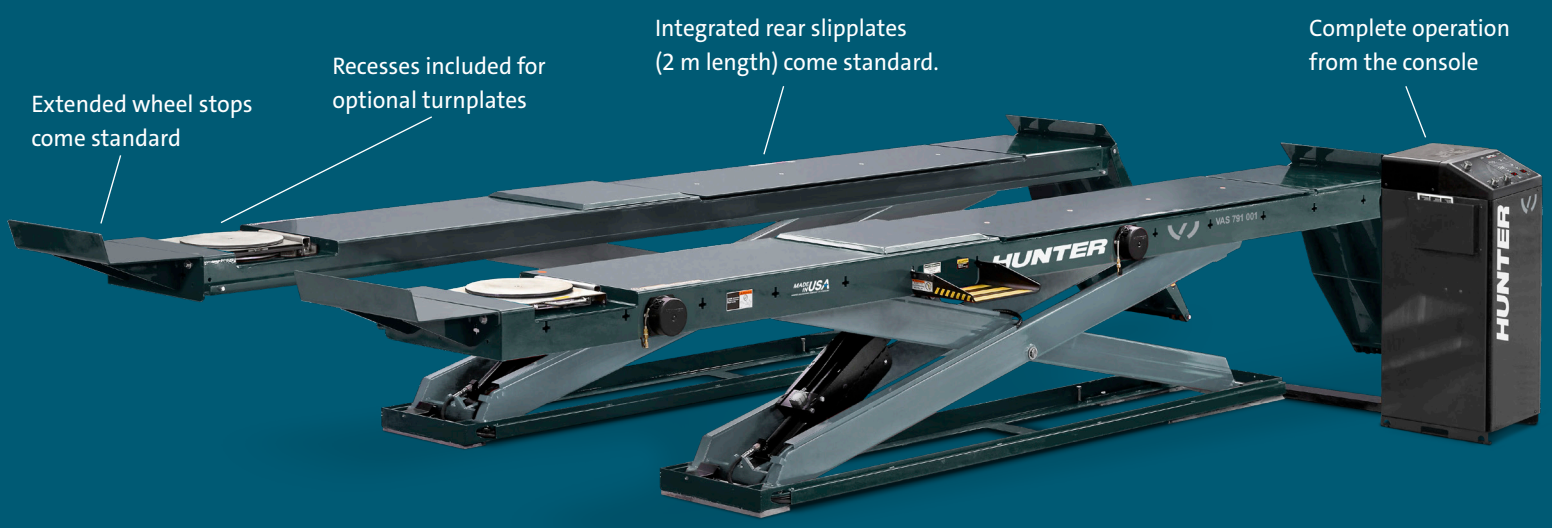
VAS 791 001/1, turnplate
ASE 791 001 80 A00
Turnplate, controlled manually from the operating console or automatically through FIA



VAS 791 001/2, axle lift
ASE 791 001 80 B00
Scissor axle lift with 2.6 ton lifting capacity including extensions



Optional lift lighting
LED lighting system with spots in the tracks, ensures very good lighting where it is needed



Specifications

VAS 791 001		
Electric supply		400V, 3Ph, 50Hz
Air connection	bar psi	6.2–10.3 90–150
Load capacity	kg lbs	4536 10000
Dimensions (L x W x H)	mm	6430 x 2250 x 225
Track (L x W)	mm	4850 x 610
Drive-on height	mm in	222 8.75
Maximum lift height	mm in	1829 72
Lifting/lowering time	sec	55 (raise), 25 (descent)

Scope of delivery VAS 791 001
ASE 791 001 80 000

- Auto scissor alignment lift with operation control console
- Recessed pockets for turnplates (50 mm deep)
- Cable-covering plates
- Two adjustable tread plates
- Air supply via two quick-couplings

VAS 6230BE Road Force® Elite



Perform a Road Force® test and balance faster than any traditional balancer

- The patented Road Force Measurement® encompasses tyre uniformity, flaws in the tyre and rim, lateral force and bad bead seat to find the cause of vibration
- Standard intuitive touchscreen display for quick operation and all information at a glance
- Automatic self-calibration before every measuring procedure
- ForceMatching® Technology comes standard to minimize rim faults and tyre force fluctuations
- Bottom-dead-center weight placement aid is standard
- Wheel data entry and locking of the drive shaft via foot pedal
- Servo-stop comes standard, for automatic wheel positioning at the weight position
- Optional tyre lift equipment to center all heavy wheels more quickly and easily
- Optional HammerHead top-dead-center laser light weight positioning



Road Force® Operation

- Road Force panel displays assembly value and limits
- Live rim and tyre conditions shown on-screen
- Color-coding allows operator to visualize Road Force variations

VAS 6230BE		
Air supply requirements	bar (psi)	7-12 (100-175)
Roller force (variable)	kg (lbs)	Up to 567 (1250)
Rim width	mm (in)	38 - 521 (1.5 - 20.5)
Rim diameter	mm (in)	254 - 762 (10 - 30)
Maximum tyre diameter	mm (in)	1016 (40)
Maximum tyre width	mm (in)	508 (20)
Maximum tyre weight	kg (lbs)	79 (175)
Radial and lateral runout accuracy	mm (in)	0.05 (0.002)
Displaced imbalance resolution	**g (oz)**	± 1.4 (0.05)
Placement accuracy		512 positions, ± 0.35°
Balancing speed	**rpm**	300
Motor		Programmable drive system and DC motor

Power requirements
196-253V, 10 amp, 50/60 Hz, 1 ph (Power cable includes: NEMA 20 amp plug, L6-20P)

VAS 6533B Wheel Balancer



Vision System
Eliminate error opportunities and provide more diagnostic information in less time.



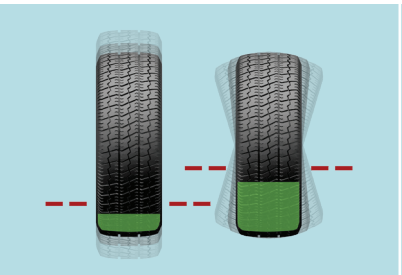
Diagnostic Load Roller
Solve vibration problems, identify vehicle pulls, and provide “new car ride”.



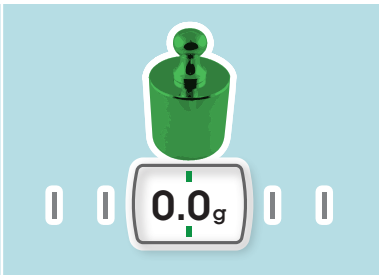
Automatic CenteringCheck®
Ensure proper centering and eliminate setup errors.



Touchscreen interface
Intuitive interface that new technicians can adapt to quickly.



Enhanced SmartWeight®
Get the most efficient balance by using less weights from performing more single weight solutions.



eCal auto-calibration
True “self-calibration” with no operator input required.



Exclusive technology for simple balancing

- Balancing machine with LCD graphical display and innovative software for quick and safe operation
- No-Touch wheel measurement
- Patented ServoDrive system comes standard, a programmable DC drive system for automatic wheel positioning at the equalizing point for hammer-on or adhesive weights
- ExactPosition™ weight positioning
- SmartWeight® technology reduces weight costs by up to 60% and makes control runs unnecessary
- Optional tyre lift to help mount and center heavy wheels
- Optional SpeedClamp® wheel clamping
- Optional HammerHead® TDC laser weight positioning

VAS 6533B		
Air supply requirements	bar (psi)	7-12 (100-175 psi)
Rim width	mm (in)	38 - 508 (1.5 - 20)
Rim diameter	mm (in)	254 - 762 (10 - 30)
ALU	mm (in)	191 - 965 (7.5 - 38)
Max. tyre diameter	mm (in)	965 (38)
Max. tyre width	mm (in)	508 (20)
Max. tyre weight	kg (lbs)	68 (150)
Imbalance resolution	g (oz)	± 1.0 (0.05)
Placement accuracy		512 positions, ± 0.7°
Balancing speed	rpm	150
Motor		Programmable drive system and DC motor

Power requirements
208-240V, 3 amp, 50/60 Hz, 1 ph (Power cable includes: NEMA 20 amp plug, L6-20P)

VAS 741 005 Revolution™

WalkAway® Operation

80-second unattended bead breaking and demounting process

25%+ time savings is possible when paired with wheel balancer

57% less time spent changing a tyre



Fully-automatic tyre changing has never been so easy

- Work area: All auto tyres of 12 – 30 in. rim diameter and up to 15 in. rim width
- Processing UHP and RFT tyres simply and safely
- See current step and procedure on the touchscreen display
- Fully-automatic procedure saves time and avoids errors
- Operator task is limited to tyre/wheel positioning, determining tyre diameter, and determining the position of the valve, thus avoiding damage to the tyre pressure monitoring sensor
- Integrated tyre lift automatically centers the wheel onto the central tensioner during lifting
- Strong, fully-hydraulic drive, finely-controllable via joystick
- Rim data entered via joystick control
- The operator starts the fully-automatic mounting and demounting procedure simply by actuating the „GO“ pedal
- Integrated bead-pushing system brings the bead into the well during mounting
- The integrated pumping station automatically inflates the tyres to the set pressure







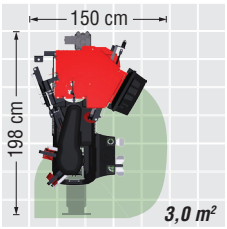


“GO” pedal controls the fully-automatic procedure
Save time, reduce operator errors, and perform the same procedure for all wheels and tyres.

The bead breaker rollers simultaneously push the tyre from the rim while avoiding the tyre pressure monitoring sensor.

The demounting head automatically avoids the tyre pressure monitoring sensor.

The demounting head grasps and lifts the tyre bead automatically.



The VAS 741 005 requires very little space for a machine of its class and can be placed directly against the wall.

Scope of delivery VAS 741 005
ASE 741 005 80 000

- Plastic protector for rim tool head (3 each)
- Valve insert assembly tool, valve inserter
- 1 bucket tyre bead lubricant with brush
- Replacement demounting tool holder
- Tyre lift
- 2 each tyre bead pushers

VAS 741 005		
Electric supply		Select between 380 V, 3 Ph 50/60 Hz, 16 Amp
Motor drive	rpm	variable up to 15 RPM
Air supply	bar	8,5 bar +/- 1,5 bar
Air consumption	l/min	27
Rim diameter	in mm	12 - 30 305 - 762
Maximum tyre diameter	in mm	50 1270
Maximum tyre width	in mm	15 381
Space required	mm	1830 x 1980
Weight as shipped	kg	816

VAS 741 121 Maverick®



Technician-focused, fully-hydraulic tyre changer

- Fully variable hydraulic controls deliver smooth precision with both fast and fine adjustments.
- Service rims from 10 – 34 in. for broad wheel coverage.
- One-finger responsive controls provide intuitive operation with excellent tactile feedback.
- Leverless system automatically syncs tools to rim diameter for faster, consistent setups.
- Intelligent safety system monitors positions and prevents unintended wheel contact.
- SmartSet® leverless head eliminates pry bars and protects wheels and technicians.
- InflationStation™ enables fast, hands-free inflation.
- Variable rotation speeds up to 17 RPM deliver flexible mounting and demounting control.
- RollerLock® clamping secures wheels tightly while reducing risk of center bore damage.
- Dual rollers support precise match-mounting operations.
- Optional ergonomic wheel lifts handle heavy assemblies safely.

Wheel lift options

Choose from the optional wheel lift additions to make servicing wheels easier and safer.



VAS 741 121/1
Standard wheel lift



VAS 741 121/2
Ergonomic pick-and-place lift

VAS 741 121		
Electric supply		220 V, 1 Ph, 60 Hz 220 V, 1 Ph, 50 Hz 400 V, 3 Ph, 50 Hz
Motor drive	rpm	variable up to 17 RPM
Torque	Nm	949
Air supply	bar	8,6 ± 1,7 bar
Rim diameter	in mm	10 - 34 254 - 864
Maximum tyre diameter	in mm	50 1270
Maximum tyre width	in mm	19 483
Space required	mm	1346 x 1448-2057 (varies depending on lift selection)
Weight as shipped	kg	557-603



Responsive controls
One-finger, tactile feedback input allowing fine, hydraulic precision or fast on-demand speed.



SmartSet® leverless head
Demounting hook deploys to catch and lift bead with no risk of damage to operator or rim.

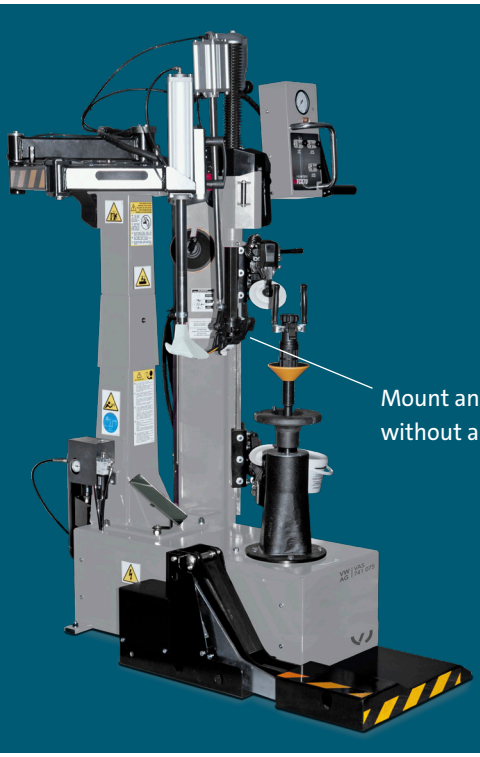


Articulating leverless system
All tools automatically sync to rim diameter and retain setting for wheel sets.



RollerLock® clamp
Clamp quickly and tightly, multiplying force with the handles.

VAS 741 075 with Centering
For specialist shops among the tyre pros



VAS 741 075 Facts

- Automatic tyre changer for processing all tyres with 12 – 30 in. outer diameter
- Operate all diameter functions from a single point and retains diameter until reset
- Bead press arm helps mount diffi cult tyres and holds sidewalls into drop-center position
- Quick Clamp speeds clamping process and safely secures wheel through hub
- Infl ation, rotation and wheel lift operations are controlled by foot pedals
- High-powered motor delivers over 880 Nm (650 ft-lbs.) of torque, Two-speed drive (7 and 17 rpm) clockwise



VAS 6560

Technical standard for everyday use

- Electric leverless tabletop tyre changer with Bead Press System (BPS) for processing all tyres with 4-26 in. clamping range (6 - 30 in. with optional adaptors)
- The most powerful bead press system available
- All jaws adjust simultaneously for mistake-free clamping
- Polished tabletop for easy cleanup
- Hi-grip jaw covers add mounting torque and protect wheels
- Automatic swing arm locks the wheel diameter and width with the push of a single button. Always available when you need it
- Powerful 220V high-torque motor delivers ample power for difficult conditions, two-speeds forward (7 and 17 rpm) for efficiency or finesse
- 30% smaller footprint than tilt-column designs
- Familiar side shovel design with standard protector sleeve11 – 22 in. outer diameter
- Mounting column can be pivoted to the back
- Plastic inserts in the mounting head and bead pad prevent damage to the rim

VAS 6645
Easy mounting and demounting system



VAS 6645 Facts

- Vertical arm multifunction tool makes new mounting comfort possible.
- Hands-free mounting and demounting of the tyre
- Patented chuck plate with pneumatic rim clamping
- Pneumatic bead discs hold the bead in the well during mounting
- Operation from the console is precise and safe

		VAS 741 075	VAS 6645	VAS 6560
Power requirements		230V, 50/60Hz, 1ph	230V, 50/60Hz, 1ph	230V, 50/60Hz, 1ph
Air supply requirements	bar (psi)	8-12 (115-175)	8-10 (115-145)	8 - 10 (110 - 145)
Mount / demount tool		Leverless head	Leverless head	Conventional head
Clamping type		Center with Quick Clamp	Center clamp system	Table-top
Rim diameter range	in (mm)	12-30 (305-762)	12-34 (305-863)	External: 12 - 24 Internal: 14 - 27
Maximum tyre diameter	mm (in)	1143 (45)	49 (1250)	1100
Maximum wheel width	in	381 (15)	16.5 (420)	(14)
Bead loosening type		Upper / lower roller	49 (1250)	Side shovel
Bead loosener width	mm	432	16.5 (420)	390
Match-mounting capable		Yes	Yes	No
Drive	**rpm**	7 / 17 rpm clockwise, 7 rpm counter-clockwise	7 / 17 rpm clockwise, 7 rpm counter-clockwise	7 / 17 rpm clockwise, 7 rpm counter-clockwise
Torque	Nm (ft-lbs)	880 Nm (650 ft-lbs.)	1900 x 2200 x 1600	
Machine weight	kg	479	461	425
Dimensions (HxWxD)	mm	2135 x 1425 x 1675	1900 x 2200 x 1600	1960 x 1340 x 2000

Hunter: Defining the standard worldwide

Hunter is recognized as a worldwide leader in the automotive aftermarket and will continue to design international-specific products for its global market.

Since first entering into the international market in the 1950s, Hunter has made steady progress in introducing its innovative products to all of the regions of the world. Hunter is committed to building lasting business relationships and a loyal following of end users worldwide through its international network of distributors in more than 110 countries around the world.

The Hunter factories located in St. Louis, MO (headquarters), Raymond, MS, and Durant, MS are the core locations for development, production, sales and training.



1

The Hunter office and factory in St. Louis, Missouri, USA is the headquarters for research and development, training and wheel aligners.



2

The Hunter factory in Raymond, Mississippi, is responsible for the development and production of all electronic parts.



3

The Hunter factory in Durant, Mississippi, produces lifts, wheel balancers and the VAS 741 005 tyre changer.



4

Hunter‘s Germany office in Puchheim focuses on OEM markets and European partnerships.



Hunter: Your strong partner in the Volkswagen Organization



Contact

Too learn more about Hunter equipment, visit **Hunter.com**.

Contact your local Distributor to schedule an on-site demo or to get a free pricing quote.

Scan or visit
hunter.com/contact

Volkswagen Aktiengesellschaft
K-GVO-LW
Group After Sales – Group Service,
Literature and Systems
Workshop Equipment
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38442 Wolfsburg

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www.hunter.com

asanetwork

WinAlign® software upgrades may require additional and/or upgraded hardware. Because of continuing technological advancements, specifications, models and options are subject to change without notice.

WinAlign, WebSpecs, HunterNet, CodeLink, HawkEye Elite, QuickGrip, SmartWeight, Road Force, Road Force WalkAway, Maverick, SmartSet and RollerLock are registered trademarks of Hunter Engineering Company.

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Supersedes form UB08091-05, 02/24