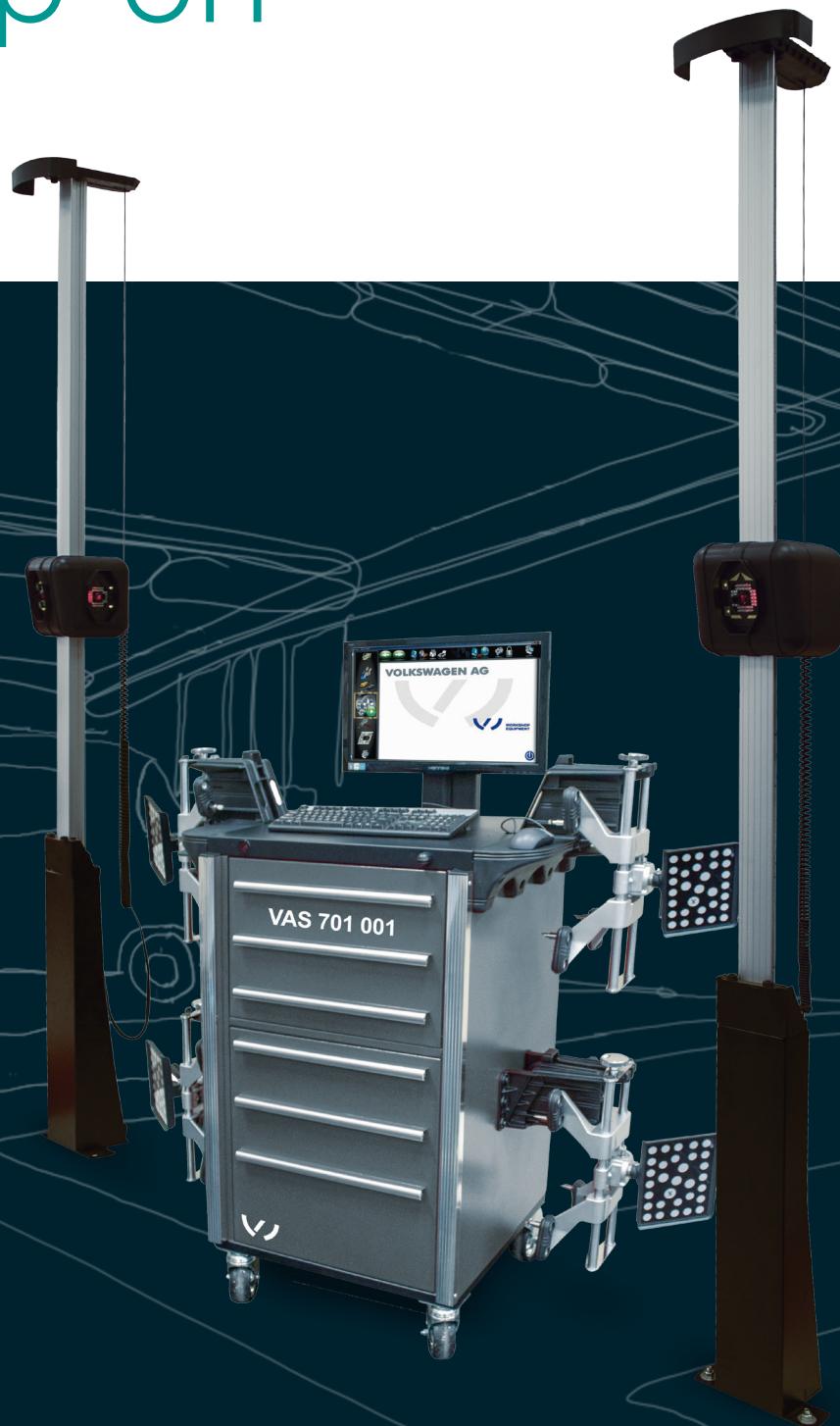


Workshop Equipment by Snap-on

Recommended by Volkswagen AG





Serious professionals demand **superior quality** — for over 100 years, Snap-on has been providing just that.

We make **thousands of daily contacts** with professionals in their workplaces. Each of these contacts represents an opportunity to gain a deeper understanding of our **customers' wants and needs**.

We thrive on **innovation**, and our customer connection processes help us go further.

Our understanding of work, **driven by customer connection**, fuels innovation and is translated by our product designers and engineers into what's technically possible, providing the most valuable productivity solutions.



We are the **global competence center** for workshop equipment within the Volkswagen Group. With our products and repair services we enable our customers to offer professional and **resource-saving maintenance and repair services**.

Through innovative and partnership-based cooperation with the development departments of the Group brands and our suppliers, we develop **sustainable and intelligent technical solutions for all requirements**.

We create **service readiness** at factory standard level.

The high **quality, durability, and versatility** of our workshop equipment - a **high level of investment protection** and efficient resource management in the process of service delivery.

Together we bring vehicles quickly and sustainably back to where they belong: on the road. Thus, we make a significant contribution to **maintaining the value** of the fleet over generations of vehicles throughout the world.

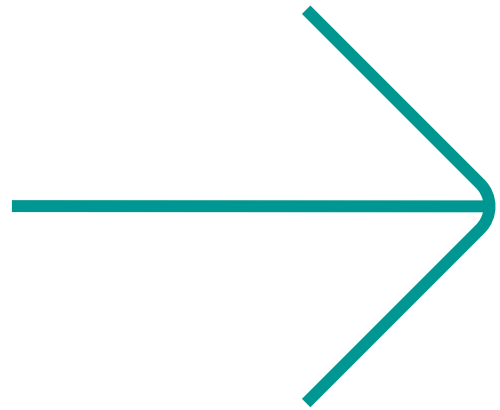
This is what our brand stands for with the **seal of approval**.



01



3D Wheel Aligner VAS 701 001



Maximized accuracy, repeatability, and flexibility

A unique, wireless system offers flexible installation and usage options. The patented digital camera automatically adjusts to the vehicle's height.

The time-saving and more convenient process allows the operator to complete fewer working steps, enabling them to align more vehicles per day.



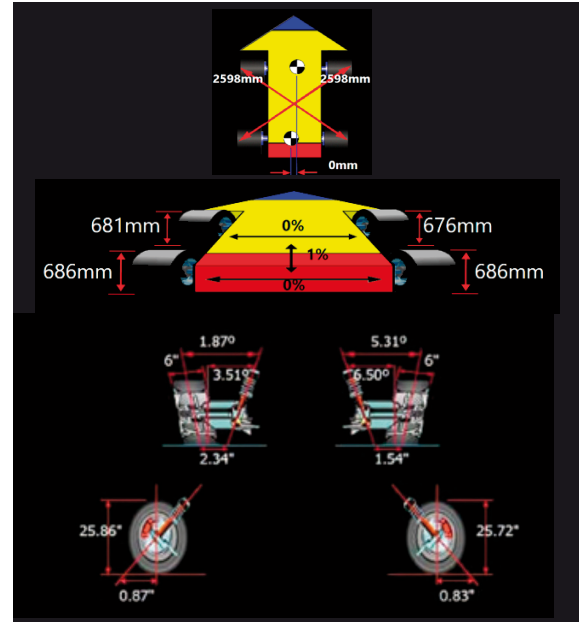


- Only 2 cameras are required to record targets
- Lower probability of failure and lower energy costs
- An integrated third camera permanently calibrates the system
- Self-calibrating multiple times a second
- Ultra-high resolution cameras to image the four targets on the wheel
- 3-camera design
- Easy installation and flexible configuration
- Professional results and high productivity
- Mobile control terminal and 27" flat-screen monitor
- Lightweight targets
- Rim clamping range 11" - 22"
- Easy assembly - covers the complete VAG car park
- Pro42 user software: a high-resolution ICON-based software program, with integrated VAG procedures
- Complete and up-to-date vehicle specs (VAG and non-VAG vehicles)
- VAG specs updated via the VOLKSWAGEN Network
- Software includes numerous features designed to improve the efficiency and effectiveness of the alignment technician, such as caster sweep, rolling radius, cross diagonal measurement, A-arm adjust, cradle adjust, and EZ Toe for easy toe adjustment of points difficult to access

01 VAS 701 001

Measure LIVE vehicle dimensions in under two minutes during positioning: track width, wheelbase, diagonal distance between the wheel centers.

Caster measurement is permanently available as a "live" angle - no additional program required.



Volkswagen AB requires ride height measurement for over 90% of its vehicles.

VAS 701 001 is equipped with ride height measurement capabilities using four small targets. The targets are the same for all VAG vehicles and are stored inside the cabinet.

Unique features:

Ride height targets are mounted by suction cups. This allows much faster and precise mounting.

Ride height targets are aligned via the aligner software - no spirit level is required.



Driver assist specials

VAS 701 001

Unique feature:

The VAS 6430 is aligned with VAS 701 001 to calibrate the front camera(s) in all parameters (e.g. distance, side to side offset, vertical rotation) with the support of the software.

No measuring tape necessary!

Faster, more precise and easier to use for the operator!



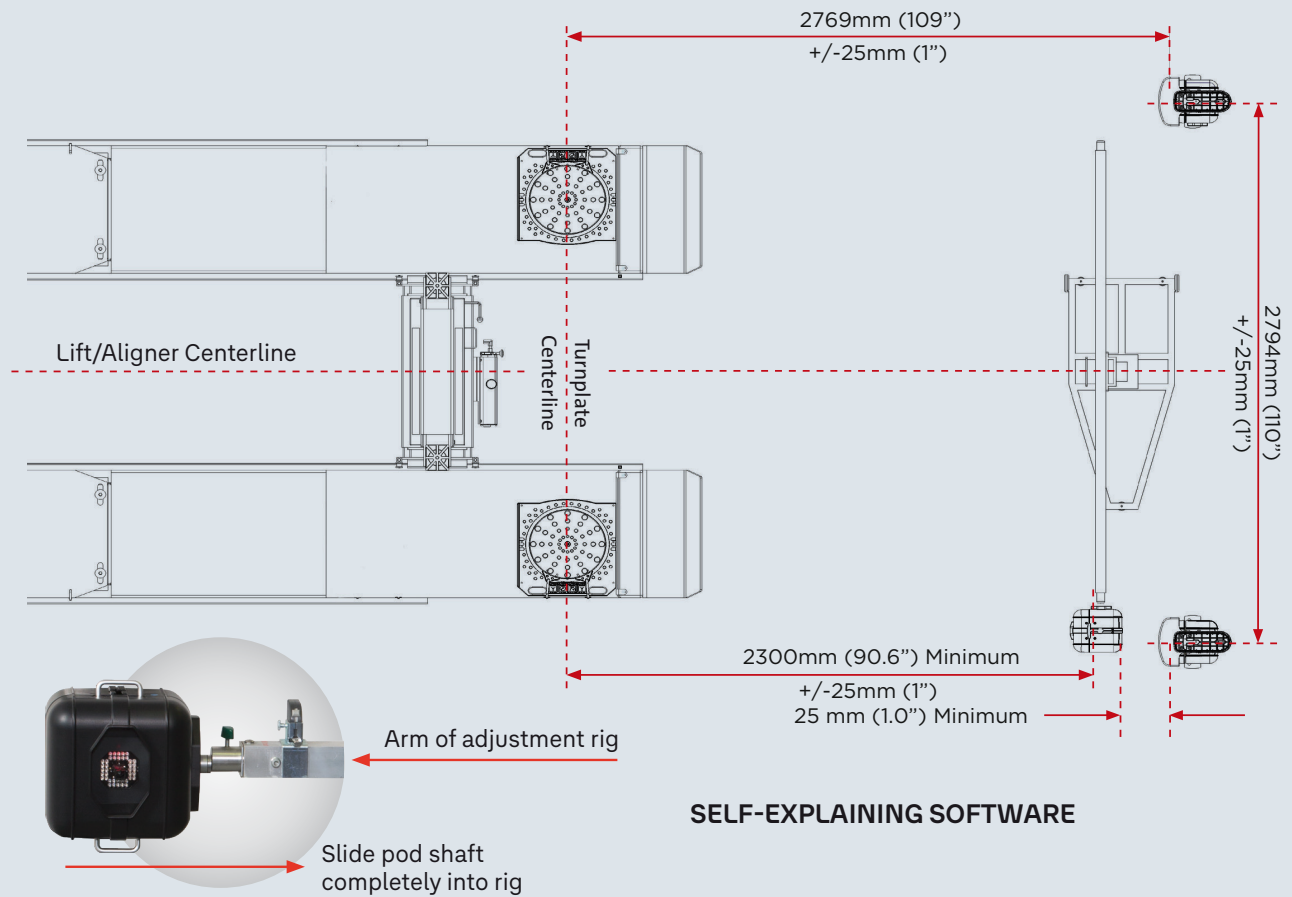
For the adjustment / calibration of assistance systems, only one additional camera on VAS 6430 (control camera) is necessary which can be used left or right to the direction of travel of the vehicle – measuring procedure is faster, allowing operators to measure more vehicles per day.

The control camera does not need to be leveled - saves time!

Camera for preparation of calibration of driver assist functions- VAS 701 001/1. Simple mounting to the VAS 6430.



Installation layout

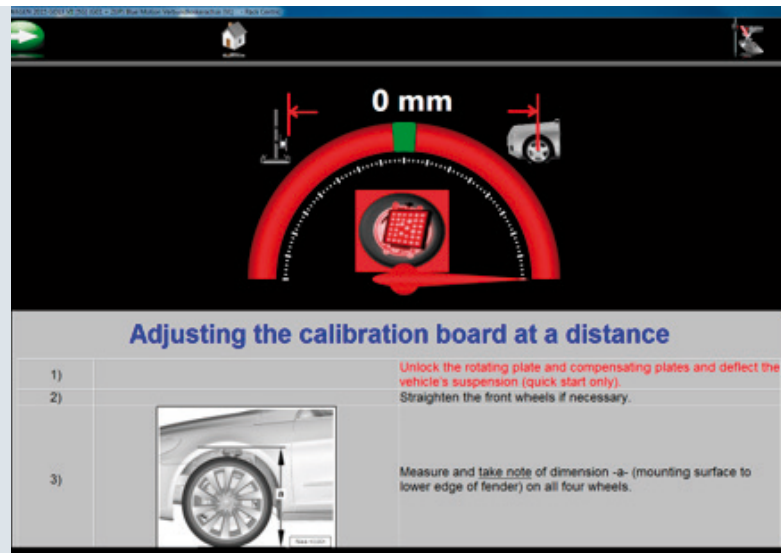


With VAS 701 001 the position of the VAS 6430 is permanently monitored during the calibration/adjustment of the ADAS. Changes in the travel axis or distances of the VAS 6430 to the vehicle are immediately displayed to the operator (optically & acoustically)

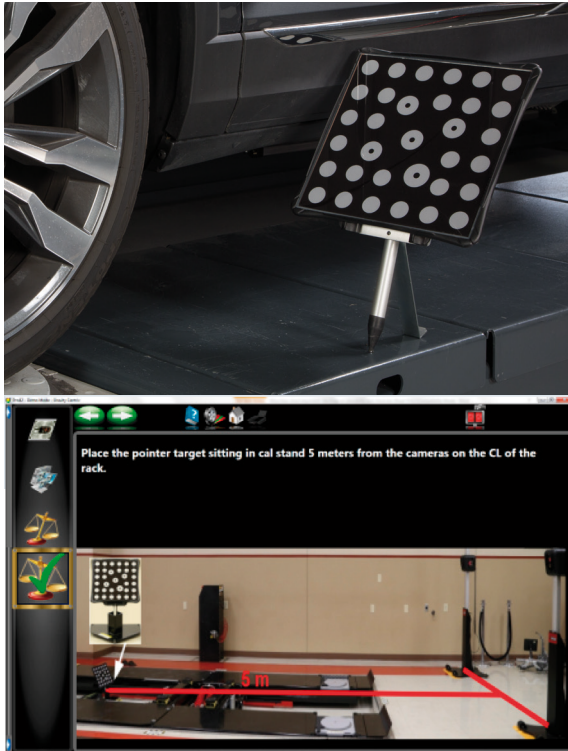
Unique feature!

Value for the customer: Each lift on the market has a different height. With VAS 701 001 the operator only has to enter the lift height into the software ONCE. The VAS 701 001 calculates by itself the correct height of the VAS 6430!

Fast, reliable, accurate!



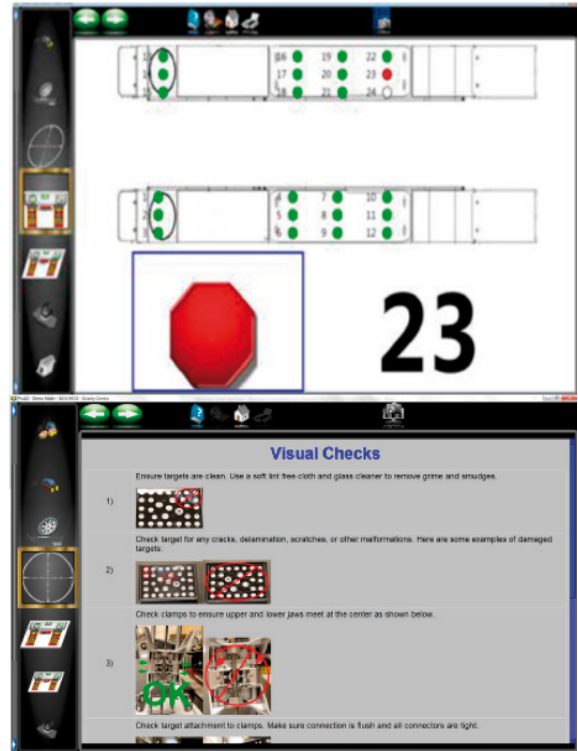
Unique features:



Plausibility Check

Working with new, sophisticated, and multiple suspension systems in modern vehicles, the accuracy of measurement becomes increasingly important.

- Use the plausibility check function to easily verify that your wheel aligner is functioning properly and in accordance with the specified requirements on a daily basis.
- This unique software feature enables the operator to check the wheel aligner and the environment.
- At the customer's request, the operator can submit a test report.



Rack Check

Check the complete working area and all points that could negatively influence the accuracy and repeatability of measurement:

- Rack
- Hardware parts
- Turnplates
- Surroundings

Mobility Kit

A highly flexible system, complemented by the mobility kit. The unit can be moved and repositioned without needing to be recalibrated.

02



VAS 741 029

VAS 741 029

Car wheel balancer with non-contact data entry and diagnostic functions

- Radial run-out combined with unbalance measurement in a single fast measuring run
- VPM measurement technology for uncompromised accuracy
- Power Clamp™, unique torque-controlled wheel clamping
- Offset and diameter acquisition via laser scanner
- Rim width acquisition via Smart Sonar™
- Automatic selection of balancing mode and weight position
- Stop-in-Position: touch the display and the wheel goes to weight-placement position
- easyWEIGHT™, a laser spot shows exactly where to place the weight
- The telescopic wheel guard allows the installation against the wall
- Bright rim illumination thanks to iLED™
- Split weight mode, weight minimization and optimization
- Network: printing capability, compatible with asanetwork

VAS 741 029

Rim centre bore diameter	43-116 mm
--------------------------	-----------

Measuring speed	> 200rpm
-----------------	----------

Input:

- Rim width (auto.)	1-20 (3-15.8) in.
- Rim diameter auto.	14-26 in.
- Rim diameter man.	8-32 in.

Max. wheel width	508 mm
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Max. wheel diameter	1050 mm
---------------------	---------

Max. wheel weight	70 kg
-------------------	-------

Dimensions (W x D x H)	1940x1020x1570 mm
------------------------	-------------------

Weight	183 kg
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Power supply	230 V, 1 ph / 50/60 Hz
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VAS 741 019 | VAS 741 017

Wheel balancer with touchscreen monitor

- VPM measurement technology
- Power Clamp™, unique torque-controlled wheel clamping
- Offset and diameter acquisition via laser scanner
- Rim width acquisition via Smart Sonar™
- Wheel lift included
- Automatic selection of balancing mode and weight position
- Stop-in-Position: touch the display and the wheel goes to weight-placement position
- easyWEIGHT™, a laser spot shows exactly where to place the weight
- The telescopic wheel guard allows the installation against the wall
- Bright rim illumination thanks to iLED™
- Split weight mode, weight minimization and optimization
- Network: printing capability, compatible with asanetwork
- VAS 741 017: version without integrated wheel lift. Dimensions (W x D x H): 1380 x 1020 x 1570 mm, Weight: 135 kg

VAS 741 019

Rim centre bore diameter	43-116 mm
Measuring speed	> 200rpm
Input:	
- Rim width (auto.)	1-20 (3-15.8) in.
- Rim diameter auto.	14-26 in.
- Rim diameter man.	8-32 in.
Max. wheel width	508 mm
Max. wheel diameter	1050 mm
Max. wheel weight	70 kg
Dimensions (W x D x H)	1940x1020x1570 mm
Weight	170 kg
Power supply	230 V, 1 ph / 50/60 Hz



VAS 741 059 | VAS 741 057

Wheel balancer with geoTOUCH™ display

- VPM measurement technology
- geoTOUCH™ display
- Power Clamp™, unique torque-controlled wheel clamping
- Offset and rim diameter acquisition via geodata® gauge arm
- Rim width acquisition via Smart Sonar™
- Wheel lift included
- Pre-selection of balancing mode via easyALU™
- Stop-in-Position: touch the display and the wheel goes to weight-placement position
- easyWEIGHT™, a laser spot shows exactly where to place the weight
- Bright rim illumination thanks to iLED™
- Split weight mode, weight minimization and optimization
- The telescopic wheel guard allows installation against the wall
- Network: printing capability, compatible with asanetwork
- VAS 741 057: version without integrated wheel lift. Dimensions (W x D x H): 1380 x 1020 x 1570 mm, Weight: 135 kg

VAS 741 059

Rim centre bore diameter	43-116 mm
Measuring speed	> 200rpm
Input:	
- Rim width (auto.)	1-20 (3-15.8) in.
- Rim diameter auto.	8-30 in.
- Rim diameter man.	8-32 in.
Max. wheel width	508 mm
Max. wheel diameter	1050 mm
Max. wheel weight	70 kg
Dimensions (W x D x H)	1380x1020x1570 mm
Weight	170 kg
Power supply	230 V, 1 ph / 50/60 Hz



VAS 741 055

Car wheel balancer with geoTOUCH™ display

- VPM measurement technology for uncompromised accuracy
- geoTOUCH™ display
- Power Clamp™, unique torque-controlled wheel clamping
- easyWEIGHT™, a laser spot shows exactly where to place the weight
- Offset and diameter acquisition via 2D SAPE
- Rim width acquisition via Smart Sonar™
- Pre-selection of balancing mode via easyALU™
- QuickBAL™: short start-stop cycle: 4.5 seconds (15" rim)
- Stop-in-Position: touch the display and the wheel goes to weight-placement position
- Split weight mode, weight minimization and optimization
- Two users with rapid switch function
- Network: wifi connectivity, printing capability, compatible with asanetwork

VAS 741 055

Rim centre bore diameter	43-116 mm
Measuring speed	> 200rpm
Input:	
- Rim width (auto.)	1-20 (3-15) in.
- Rim diameter auto.	8-25 in.
- Rim diameter man.	8-32 in.
Max. wheel width	508 mm
Max. wheel diameter	1050 mm
Max. wheel weight	70 kg
Dimensions (W x D x H)	1838x878x1834 mm
Weight	140 kg
Power supply	230 V, 1 ph / 50/60 Hz



03



VAS 741 077



The tyre changer for high volume tyre shops

- powerMONT™ the innovative, fast and easy to use leverless mount/demount system
- quickLOK™ automatic center post clamping system
- smartSpeed™ the exclusive self-adjustable speed system up to 20 rpm that provides the optimum torque/speed combination to the chuck
- Optimum bead breaker system: the high-performance solutions for any tyre types:
 - Dynamic bead breaker with two disks, the solution of choice for RFT and UHP tyres - precise, ergonomic and effortless
 - On floor bead breaker, the fastest solution for tyres with high aspect ratio
- PBD330, Pneumatic Bead Depressor for convenient demounting of hard sidewall tyres
- Ergonomic wheel lift integrated
- High rigidity for safe handling of high performance tyres
- Pedal-controlled inflator
- Mirror to control operation on the lower bead

VAS 741 077

Clamping range	12-30 in.
Max. rim width	13 in.
Max. tyre width	15 in.
Max. wheel diameter	1200 mm
Max. wheel weight	70 kg
Max. bead breaking width	-
Dimensions (W x D x H)	1481x1863x1880 mm
Weight	465 kg
Compressed air supply	8-12 bar
Power supply	230 V, 1 ph / 50/60 Hz
Chuck speed	7-20 rpm



VAS 741 079



The tyre changer for low-profile, UHP and run-flat tyres

- powerMONT™ the innovative, fast and easy to use leverless mount/demount system
- smartSpeed™ the exclusive self-adjustable speed system with before up to 20 rpm that provides the optimum torque/speed combination to the chuck
- Dynamic bead breaker with two disks, the solution of choice for RFT and UHP tyres
- Precise, ergonomic and effortless
- Manual center post clamping system
- PBD330, Pneumatic Bead Depressor for convenient demounting of hard sidewall tyres
- High rigidity for safe handling of high performance tyres
- Pedal-controlled inflator
- Mirror to control operation on the lower bead

VAS 741 079

Clamping range	12–30 in.
Max. rim width	13 in.
Max. tyre width	15 in.
Max. wheel diameter	1200 mm
Max. wheel weight	70 kg
Max. bead breaking width	–
Dimensions (W x D x H)	1481x1863x1880 mm
Weight	420 kg
Compressed air supply	8–12 bar
Power supply	230 V, 1 ph / 50/60 Hz
Chuck speed	7–20 rpm



VAS 6346 C



Pneumatic tilt-back post tyre changer with outer clamping range of 26"

- Outer clamping range of up to 26", with optional jaws of up to 30"
- Mounting head pneumatically adjustable in spaced-apart position relative to the rim
- smartSpeed™ technology
- Double-acting bead breaker cylinder
- Bead breaker blade supported in 3 joints, bead breaker adjustable in 2 ranges
- Pneumatic tool lock and pneumatic tool approach
- Pneumatic tilt back post, pneumatically locked in working position
- Self-centring four-jaw turntable with sliding jaws
- Pedal-operated inflator with quick-inflating valve
- Tool box with integrated precision pressure gauge

VAS 6346 C

Inner clamping range	14–26 in.
Outer clamping range	12–26 in
Max. rim width	16 in.
Max. tyre width	17 in.
Max. wheel diameter	1200 mm
Max. wheel weight	70 kg
Max. bead breaking width	410 mm
Dimensions (W x D x H)	1720 x1920 x2260 mm
Weight	440 kg
Compressed air supply	8–12 bar
Power supply	230 V, 1 ph / 50/60 Hz
Chuck speed	7 / 7-14 rpm



VAS 741 043



Tyre changer for wheel width up to 15"

- Mounting and demounting of very wide wheels, up to 15"
- The low cabinet offers an ergonomic working height even with very wide wheels
- Vertical positioning of the mounting head is carried out pneumatically – all settings are controlled through a single switch – quickly and ergonomically
- smartSpeed™ technology
- On-side bead breaker with adjustable blade inclination, adjustable in three positions
- Double-acting bead breaker cylinder
- Mounting head adjustable
- Mounting / demounting tool (working range 8" - 24")
- Turntable with centre-type sliding jaws
- Pedal-operated pneumatic tilt-back post
- Post pneumatically locked in working position
- Tool box with integrated pressure gauge and four ergonomic shelves
- Pedal-operated inflator with quick-inflating valve

VAS 741 043

Inner clamping range	12-24 in.
Outer clamping range	10-24 in
Max. rim width	14 in.
Max. tyre width	15 in.
Max. wheel diameter	1000 mm
Max. wheel weight	70 kg
Max. bead breaking width	392 mm
Dimensions (W x D x H)	1350x1800x1920 mm
Weight	310 kg
Compressed air supply	8-12 bar
Power supply	230 V, 1 ph / 50/60 Hz
Chuck speed	7 / 7-18 rpm



VAS 741 041



Pneumatic tilt-back post tyre changer


- smartSpeed™ technology
- Double-acting bead breaker cylinder
- Mounting head adjustable in spaced-apart position relative to the rim
- Mounting / demounting tool (working range 8" - 24")
- Turntable with centre-type sliding jaws
- Two clamping cylinders provide 30 to 40 % more clamping force than single-cylinder machines
- Pedal-operated pneumatic tilt-back post
- Post pneumatically locked in working position
- On-side bead breaker with adjustable blade inclination for different wheel diameters, adjustable in three positions to grant high performance and flexibility
- Tool box with integrated pressure gauge and four ergonomic shelves for valves, tools and accessories, attached on separate tower
- Pedal-operated inflator with quick-inflating valve




VAS 741 041



Inner clamping range	12-24 in.
Outer clamping range	10-24 in.
Max. rim width	12 in.
Max. tyre width	13 in.
Max. wheel diameter	1000 mm
Max. wheel weight	70 kg
Max. bead breaking width	392 mm
Dimensions (W x D x H)	1220 x 1700 x 1870 mm
Weight	300 kg
Compressed air supply	8-12 bar
Power supply	230 V, 1 ph / 50/60 Hz
Chuck speed	7 / 7-18 rpm







Accessories

Car Tyres		Light Truck Wheels	
	4029029		24936
	Stud-hole flange FP VAG For Volkswagen, Audi, Seat, Skoda Pitch circle diameters: 5 x 100/112/120/130 mm; 5 x bolts 80 mm		Centring cone Ø 113-170 mm For steel and alloy rims with centre bore of Ø 114-169 mm, on the condition the centre bore outer side is machined sufficiently accurate. To be applied only from the outside and in conjunction with spacer ring 24937
	4028856		25790
	Centring & clamping kit - Porsche STANDARD Consisting of tapered centring ring C - Ø = 71,5-74,2 mm, clamping ring		Centring cone Ø 195-214 mm For light-truck rims, steel rims with centre bore of Ø 196-213 mm. For wheels of less than 65 kg and for maximum overall diameter of 900 mm. To be applied only from the outside and in conjunction with spacer ring 24937
	4030969		24937
	Centring & clamping kit - Porsche GT2/GT3/Turbo Consisting of clamping ring, Porsche centring ring Ø = 84 mm For Porsche rims with central nut on Porsche GT2/GT3/Turbo		Spacer ring (plastic) For light-truck rims which are clamped using special centring cones ref. no. 24936 and 25790, or using a stud-hole flange
	30344		35382
	Centring ring Ø1 = 57 mm, Ø2 = 71.6 mm For VW, Audi, Porsche		Centring set VW Crafter Pitch circle diameter 6 x 130 mm
	26445		35383
	Tapered centring ring A Ø = 56.5-58.6 mm		Centring set VW Crafter Pitch circle diameter 6 x 205 mm
	26447		4026401
	Tapered centring ring C Ø = 71.5-74.2 mm For Audi Q7 und Porsche		Light-truck kit To handle light-truck wheels; consisting of spacer ring and cone 122-172 mm
	26449		
	Tapered centring ring E Ø = 65.9-67.7 mm		
	26451		
	Tapered centring ring G Ø = 54.5-56.2 mm		
	26452		
	Tapered centring ring H Ø = 52-54.2 mm		
	30348		
	Tapered centring ring I Ø = 66.5 mm For Audi A5 2010+ ; all models except Q7		
	201260		
	2" spacer ring to add another 2" between rim contact surface and machine cabinet, for wide car rims having a high offset		

Car Tyres		VAS 6616 VAS 741 031
	4031245	Reverse mounted wheel kit To clamp reverse mounted wheels
	4031040	Reverse mounted wheel kit To clamp reverse mounted wheels on VAS 6616
	EAA 0364G48A	Bolts - For reverse mounted wheel kit 4031245/4031040 5 Bolts w/cylindrical vertex, 5 Bolts w/tapered vertex, Length 110mm, VAS 6616

Car Tyres		VAS 6616 VAS 741 031
	EAA 0363G30A	Bolts - For reverse mounted wheel kit 4031245/4031040 5 Bolts w/cylindrical vertex, 19mm dia., Length 110mm, VAS 6616
	EAA 0363G40A	Bolts - For reverse mounted wheel kit 4031245/4031040 5 Bolts w/tapered vertex, 36mm dia., Length 100mm, VAS 6616

Light Truck Tyres		VAS 6346 C VAS 741 043 VAS 741 041
	4029455	+4" adaptors for sliding jaws To increase the outer clamping range by 4" while reducing max. rim width by 1.5"; set of 4
	4030319	Kit of plastic protectors for mounting head 5 rim protectors, 5 rear protectors, 2 screws
	4027629	Adaptors for light-truck wheels, 17.5" (set of 4)
	EAK 0279G87A	Wheel lift for VAS 6346 C
	EAK 0279G86A	Wheel lift for VAS 741 043
	EAK 0279G89A	Wheel lift for VAS 741 041

Light Truck Tyres		VAS 6616 VAS 741 031
	4031033	Light-truck wheel kit To clamp pick-up, light-van and light-truck wheels VAS 6616
	4030486	Light-truck wheel kit To clamp pick-up, light-van and light-truck wheels VAS 741 031
	EAK 0317G76A	Cone kit 75mm Centring cones, 75mm diameter, for wheel clamping Set of 5 plastic cones VAS 741 031
	EAK 0317G77A	Cone kit 126mm Centring cones, 126mm diameter, for wheel clamping Set of 5 plastic cones VAS 741 031
	EAK 0317G78A	Cone kit 145mm Centring cones, 145mm diameter, for wheel clamping Set of 5 plastic cones VAS 741 031

Snap-on Total Shop Solutions

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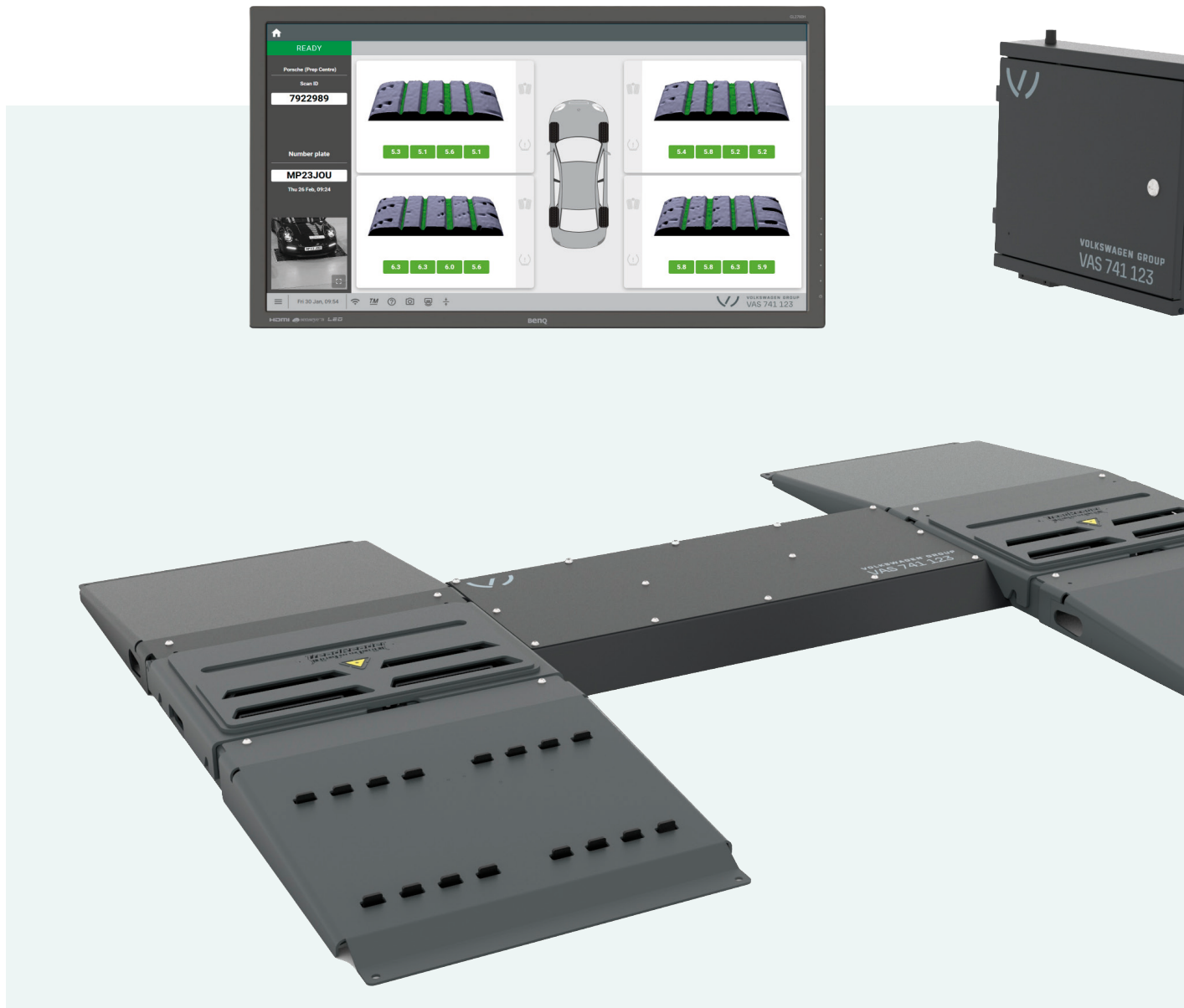
CANADA
800.362.4608

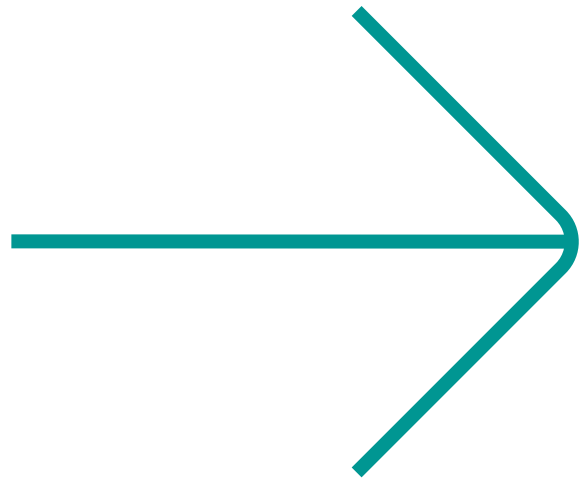
Some of the machines are shown with optional extras at extra charge. Subject to technical and visual changes.

04

VAS 741 123

Standalone 3D tyre measurement system





Available in two different configurations:

Surface-mounted VAS 741 123 - ASE 741 123 80 001

Flush-mounted VAS 741 123 - ASE 741 123 80 002



The VAS 741 123 is a standalone 3D tyre measurement system using laser technology to check and report tyre tread depth. The system is suitable for installation in workshops and service drive through, offering an automated solution.

Accuracy and repeatability

The TreadReader measures a 50mm (2inch) section of the tyre, collecting up to 300,000 data points. The software removes outlier values, such as wear bars and stones, and reports the actual measurements of the tyre tread depth. Giving up to 6 tread depth measurements across whole width of tyre, measured with $\pm 0.2\text{mm}$ (0.8 thou) accuracy.

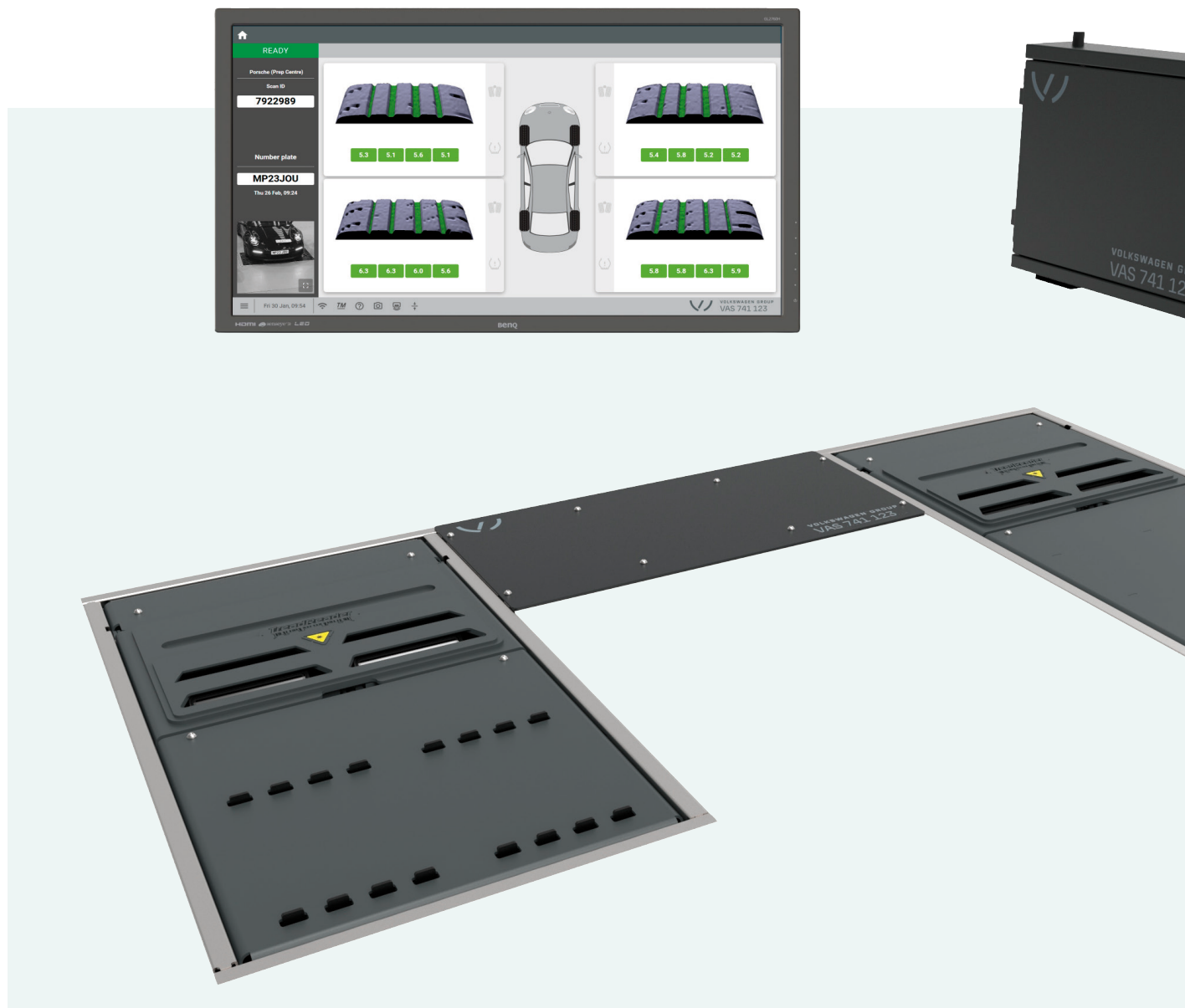
Surface-mounted
VAS 741 123 - ASE 741 123 80 001

VAS 741 123

Standalone 3D tyre measurement system

Speed of operation

The scanning process is performed as the vehicle drives over the system and takes less than 15 seconds to process and present the results. The vehicle can drive up to 10 km/h (6mph) as it passes over the TreadReader.



Vehicle identification

The supplied licence plate recognition camera gives an image of the vehicle as well as the vehicle licence to help with identification.

Results

The 3D images supplied in the results are a render of the tyre measured, are simple to understand with clear pass/fail colours and the tread depth. The Workshop can set the thresholds for Pass, Warning and Fail.

The wear across the tyre gives an indication of possible wheel alignment or tyre inflation issues. Allowing the opportunity for the workshop to offer wheel alignment services as an extra revenue.



Flush-mounted

VAS 741 123 - ASE 741 123 80 002

Reporting

The 3D images of the tyres are available to view either directly via a monitor or remotely using TreadManager, a cloud-based reporting tool. This enables access to historical data and reports from the TreadReader.

Results can be printed on a single page report or integrated with workshop management system.

Components

DriveOver TreadReader

PC Cabinet

ALPR Camera

IT Kit (Monitor, Keyboard, Mouse, Monitor Bracket)

Optional: Traffic light the user to understand the system status when you are unable to see screen

Volkswagen Aktiengesellschaft
K-GVO-LW
Group After Sales – Group Service,
Literature and Systems
Workshop Equipment
Letter Box 011/4915
38442 Wolfsburg

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Stand MM/JJJJ



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