

WORKSHOP EQUIPMENT



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Recommended by Volkswagen AG



Snap-on

BALANCING TECHNOLOGY AT ITS FINEST



VAS 741 055



- The wheel balancer with Power Clamp Device and easyWEIGHT™ pinpoint laser light indicator for tyre shops, car dealerships and garages with medium tyre service volume. With geoTOUCH™ – the touch-screen graphical display – the VAS 741 055 is as intuitive as a video balancer.



VAS 6309



- Gauge arm for input of all wheel data and positioning of adhesive wheel weights with patented weight clamp and AutoStopSystem
- Alternatively, pinpoint laser light indicator to accurately and conveniently position adhesive weights on the wheel
- Semi-automatic pre-selection of balancing mode
- Split weight mode
- Automatic orientation of wheel into correction planes after the measuring run
- Patented optimisation
- Multiple user profiles
- Rim lighting and mirror
- Virtual plane measurement technique for uncompromised accuracy
- Also available with electro-mechanical Power Clamp™ device



Power Clamp™

The Power Clamp™ device: effortless, secure, accurate and fast wheel locking.



Gauge arm

Patented technique for accurate positioning of adhesive wheel weights.



VAS 741 057



- Torque-controlled Power Clamp™ device
- geoTOUCH™ – touchscreen graphical display, 10" wide – makes VAS 741 057 as intuitive as a video balancer
- Semi-automatic input of offset and rim diameter via 2D geodata® gauge arm and automatic rim width acquisition via Smart Sonar™
- Stop-in-Position: touch the amount of unbalance on the display and the wheel is automatically indexed to correction position
- easyWEIGHT™: the pinpoint laser light indicator to accurately position adhesive weights
- Semi-automatic pre-selection of balancing mode via easyALU™
- Split weight mode, weight minimisation and optimisation
- Rim lighting iLED™ – new, very bright LED technology
- Patented telescopic wheel guard – no additional space required behind the machine
- Network printing capability – Compatible with asanetwork
- VPM measurement technique for uncompromised accuracy

VAS 741 059

- Same as VAS 741 057 with additional integrated wheel lift

VAS 741 017

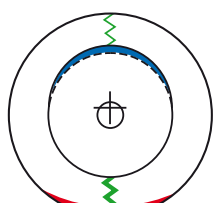


- Rim scanner for
 - automatic non-contact rim profiling
 - automatic selection of balancing mode and weight position
 - automatic acquisition of rim diameter and offset
- Smart Sonar™ for automatic non-contact acquisition of rim width
- easyWEIGHT™: the pinpoint laser light indicator to accurately position adhesive weights
- Alternative positioning of adhesive weights with the geodata arm
- Torque-controlled Power Clamp™ device
- Stop-in-Position: touch the amount of unbalance on the display and the wheel is indexed to correction position
- VPM measurement technique for uncompromised accuracy
- Telescopic wheel guard – requiring no additional back space
- Rim lighting to facilitate application of the geodata gauge arm
- Imbalance minimisation and optimisation programs
- Network printing capability – Compatible with asanetwork

VAS 741 019

- Same as VAS 741 017 with additional integrated wheel lift

Highest spot of rim



Heavy hard spot of tyre

Optimisation mode

Handles ride issues and improves driving comfort.



Wheel guard

Patented telescopic wheel guard: no additional space required behind the machine.

BALANCING TECHNOLOGY AT ITS FINEST



VAS 741 029



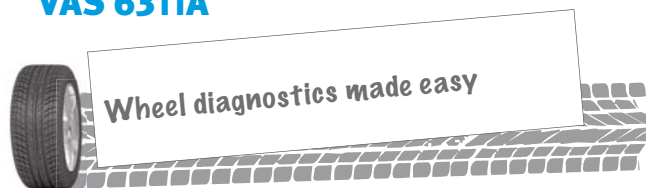
Wheel balancer with touch screen, automatic non-contact wheel data acquisition, diagnostic functions and integrated wheel lift

In addition to the benefits of VAS 741 019 this high-productivity wheel balancer features:

- Radial run-out diagnosis combined with unbalance measurement in a single FAST measuring run. This is the ultimate high-productivity solution to vibration problems on the car – intuitive and effortless. Designed to fix vibrations caused by radial run-out of the wheel without compromising on productivity



VAS 6311A



Wheel diagnostics made easy

Additional outstanding benefits of VAS 6311A are:

- Unique 3D imaging technology for detection of various tyre and rim defects of the entire wheel, that is including tread surface, sidewall, bead seat, rim flange
- Five 3D cameras scan tyre and rim to provide:
 - Automatic non-contact rim profiling
 - Automatic acquisition of rim diameter, rim width and offset
 - Automatic selection of balancing mode and weight position
 - Automatic detection of number and position of spokes
- Radial/lateral run-out diagnosis combined with unbalance measurement in a single fast measuring run
- Advanced diagnostics includes measurement of tyre pull effect (tyre conicity) and tread depth, tread depth and wear analysis, alignment pre-checking and tyre wear-out prediction
- Visualisation of the diagnostic results in brilliant 3D colour maps



Laser light indicator

The pinpoint, fast and easy solution to position adhesive weights on the wheel.



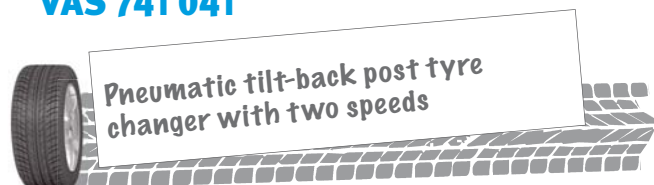
Stop in position

The operator only has to touch the amount of unbalance on the screen and the wheel is automatically indexed to correction position.

TYRE CHANGERS CUSTOM-TAILORED TO SUIT INDIVIDUAL NEEDS



VAS 741 041



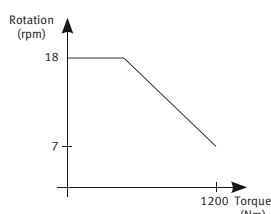
- Certified by wdk
- Automatic speed control by inverter for maximum speed depending on the torque applied
- Double-acting bead breaker cylinder
- Mounting head adjustable in spaced-apart position relative to the rim
- Conventional mounting / demounting tool (working range 8" – 24")
- Turntable with 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 741 043



In addition to the benefits of VAS 741 041 this tyre changer features:

- 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



Special inverter technology

Special inverter technology is the best choice for high-productivity workshops. It provides maximum speed in mounting and demounting operations depending on the torque applied.



Demounting finger

The integrated demounting finger supersedes the conventional tyre lever (VAS 6674).

TYRE CHANGERS CUSTOM-TAILORED TO SUIT INDIVIDUAL NEEDS



VAS 6346 C



- Certified by wdk
- 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
- Inverter technology for two turntable speeds (7 and 14 rpm) optimises torque and speed depending on the requirements of mounting and demounting operations
- 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 741 031



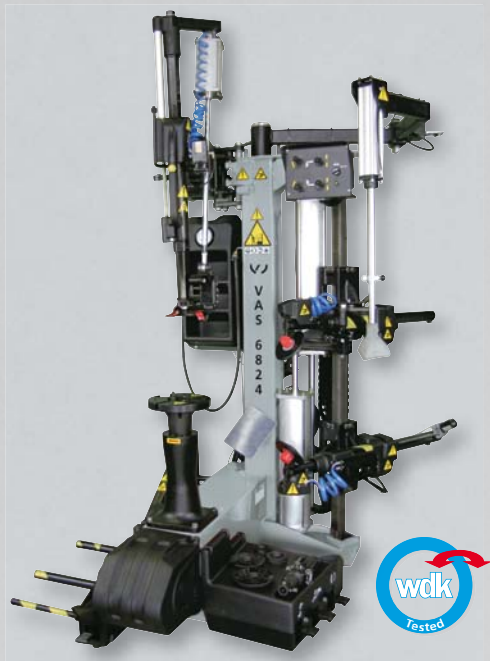
- Certified by wdk
- Familiar design of mounting head plus tyre lever and on-side pedal-operated bead breaker blade
- Innovative centre-clamp design with electro-mechanical clamping flange to clamp the wheel through the centre-bore of the rim
- Automatic speed control by inverter that maximises speed depending on the torque applied:
 - First speed as low as 7 rpm for critical tasks
 - Second speed automatically adjusted to between 7 and 20 rpm depending on the torque applied
- Tilt-back tower
- Pneumatic bead assist device to aid in safe use – with bead press roller
- Top-side bead seating and inflating kit
- Pneumatic wheel lift



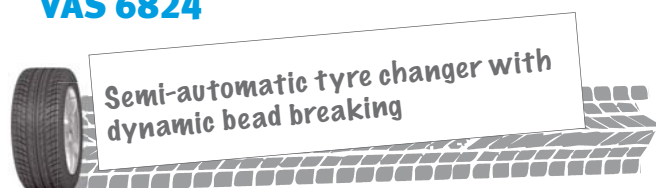
Traditional mounting head
VAS 6345 C features the traditional mounting head.



Wheel lift
Fast and ergonomic. Reduces operator effort in case of large and heavy wheels.



VAS 6824

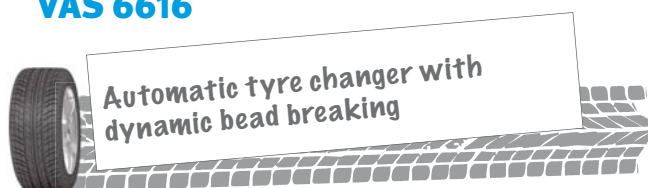


Semi-automatic tyre changer with dynamic bead breaking

- Automatic mounting tool with integrated demounting finger supersedes the conventional tyre lever – works fast with standard and hard sidewall tyres
- Electronically synchronised dual-disc bead breaker – fast, ergonomic and effortless
- Centre-type quick-fit wheel clamping flange for fast, safe and precise clamping of the wheel through the centrebore
- The pneumatic bead press arm is gentle to the rim, while the sidewall press arm facilitates demounting of hard sidewall tyres
- The ergonomic lift reduces operator effort in case of large and heavy wheels
- The inverter-controlled motor with two speeds and high torque at low speed ensures best mounting and demounting results
- Pedal-operated inflator, or alternatively additional top-side bead seating and inflating device
- Laser pointer for positioning of the mounting head

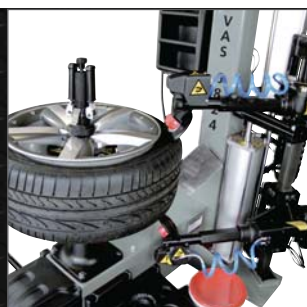


VAS 6616



Automatic tyre changer with dynamic bead breaking

- The automatic tyre changer comes with outstanding dynamic procedures, controlled power and accuracy and consequently guarantees optimum results because all operations are accomplished efficiently while preserving both tyres and rims and reducing the effort for the operator.
- Non-contact detection of rim contour by a laser scanner.
 - Automatic control of mounting and demounting tools by the operator from the control console.
 - Owing to the lift the wheels are positioned on the clamping flange automatically, accurately and without effort for the operator.
 - Hydraulic clamping of wheel on the clamping flange via quick-clamping nut
 - Rotating bead breaker discs gently follow the rim contour when breaking tyre beads.
 - Tools specially designed for gentle handling of tyre and rim.
 - The control console is located at an ideal level for convenient control and monitoring of the individual work steps.



Dual-disc bead breaker

The unique dual-disc bead breaker facilitates bead breaking, making it faster and more ergonomic and reducing the risk of damaging tyre and rim.



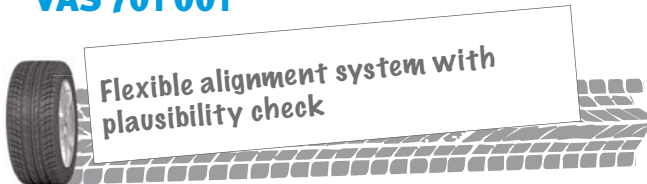
Lift

The potentiometer automatically measures wheel diameter as soon as the wheel has been loaded onto the lift.

3D WHEEL ALIGNER



VAS 701 001



- The aligner is self-calibrating multiple times a second.
- The cameras automatically track with the vehicle as it is raised to produce the best accuracy and the most productivity a shop can have in a wheel aligner.
- The aligner is equipped with ride height measurement by using small targets that are easily attached to the wheel well of the vehicle by suction cups. The ride height is now measured and specifications corrected for automatically in the aligner, no manual entry required.
- Ultra high resolution cameras to image the four targets mounted on the wheels. The targets are passive which means they do not need power supply or cables. Roll the vehicle back and forward 20 cm and you have toe and camber readings.
- The ADR / ACC and other drive assist functions are carried out by an additional digital camera VAS 701 001/1 (optional).

Plausibility check

- Working with new sophisticated multiple suspensions in modern vehicles the accuracy of measurement gets more and more important. To check easily and make sure day by day that your wheel aligner is working properly and according to the given specs use the plausibility check function. This unique software feature enables the operator to check wheel aligner and environment in 4 steps only. On customer request the operator can submit a test report.

Also available with driver assistance systems camera.



Ride height targets

The new ride height targets are stored internally on a vertical pull-out shelf installed in the lower compartment of the cabinet.







Camera for drive assist functions VAS 701 001/1

The ADR / ACC and other drive assist functions are carried out by an additional digital camera VAS 701 001/1 (optional).

ACCESSORIES

A choice of accessories for the VAS wheel balancers in this catalogue

Car wheels		
	4029029	Stud-hole flange FP VAG For Volkswagen, Audi, Seat und Skoda Pitch circle diameters: 5 x 100/112/120/130 mm; 5 x bolts 80 mm
	4028856	Centring & clamping kit – Porsche STANDARD Consisting of tapered centring ring C $\varnothing = 71,5\text{--}74,2$ mm, clamping ring
	4030969	Centring & clamping kit – Porsche GT2/GT3/Turbo Consisting of clamping ring, Porsche centring ring $\varnothing = 84$ mm For Porsche rims with central nut on Porsche GT2/GT3/Turbo
	30344	Centring ring $\varnothing 1 = 57$ mm, $\varnothing 2 = 71.6$ mm For VW, Audi, Porsche
	26445	Tapered centring ring A $\varnothing = 56.5\text{--}58.6$ mm
	26447	Tapered centring ring C $\varnothing = 71.5\text{--}74.2$ mm For Audi Q7 und Porsche
	26449	Tapered centring ring E $\varnothing = 65.9\text{--}67.7$ mm
	26451	Tapered centring ring G $\varnothing = 54.5\text{--}56.2$ mm
	26452	Tapered centring ring H $\varnothing = 52\text{--}54.2$ mm
	30348	Tapered centring ring I $\varnothing = 66.5$ mm For Audi A5 2010+ ; all models except Q7

Light-truck wheels		
	24936	Centring cone $\varnothing 113\text{--}170$ mm For steel and alloy rims with centre bore of $\varnothing 114\text{--}169$ 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
	25790	Centring cone $\varnothing 195\text{--}214$ mm For light-truck rims, steel rims with centre bore of $\varnothing 196\text{--}213$ 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
	24937	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
	35382	Centring set VW Crafter Pitch circle diameter 6 x 130 mm
	35383	Centring set VW Crafter Pitch circle diameter 6 x 205 mm
	4026401	Light-truck kit To handle light-truck wheels; consisting of spacer ring and cone 122–172 mm

ACCESSORIES

A choice of accessories for the VAS tyre changers in this catalogue

Car tyres – VAS 741 041, VAS 741 043 and VAS 6346 C			Light-truck tyres – VAS 741 041, VAS 741 043, VAS 6674 and VAS 6346 C		
	4029455	+4" adaptors for sliding jaws To increase the outer clamping range by 4", while reducing maximum rim width by 1 1/2"; 1 set = 4 off		4027629	Adaptors for light-truck wheels, 17.5" 1 set = 4 off
	4030319	Kit of plastic protectors for mounting head 5 rim protectors, 5 rear protectors, 2 screws		EAK-0279G86A	Wheel lift for VAS 741 041
				EAK-0279G87A	Wheel lift for VAS 741 043 and VAS 6674
				4026401	Wheel lift for VAS 6346 C
Car tyres – VAS 741 031, VAS 6824 and VAS 6616			Light-truck tyres – VAS 741 031, VAS 6824 and VAS 6616		
	EAA-0410G88A	Closed centre rim kit To clamp closed centre rims, including compact clamping device VAS 741 031		4030486	Light-truck wheel kit To clamp pick-up, light-van and light-truck wheels VAS 741 031
	4030515	Closed centre rim kit To clamp closed centre rims, including compact clamping device VAS 6824		4031033	Light-truck wheel kit To clamp pick-up, light-van and light-truck wheels VAS 6616
	4031036	Closed centre rim kit To clamp closed centre rims, including compact clamping device VAS 6616		EAK-0317G76A	Cone kit 75 mm Centring cones, 75 mm diameter, for wheel clamping. 1 Set = 5 plastic cones. VAS 741 031 and VAS 6824
	EAA-0363G30A	Bolts For accommodation of wheels for AUDI Q5 and Q7 in conjunction with closed centre rim kit EAA0410G88A, 4030515, 4031036; spherical head diameter 28 mm; 1 set = 5 off		EAK-0317G77A	Cone kit 126 mm Centring cones, 126 mm diameter, for wheel clamping. 1 Set = 5 plastic cones. VAS 741 031 and VAS 6824
	EAA-0363G40A	Bolts For accommodation of wheels for AUDI A7 and A8 in conjunction with closed centre rim kit EAA0410G88A, 4030515 and 5031036; spherical head diameter 25.6 mm; 1 set = 5 off		EAK-0317G78A	Cone kit 145 mm Centring cones, 145 mm diameter, for wheel clamping. 1 Set = 5 plastic cones. VAS 741 031 and VAS 6824

TECHNICAL DATA

Tyre changers		VAS 741 041	VAS 741 043	VAS 6346 C
Inner clamping range	inch	12 – 24	12 – 24	14 – 26
Outer clamping range	inch	10 – 24	10 – 24	12 – 26
Max. rim width	inch	12	14	16
Max. tyre width	inch	13	15	17
Max. wheel diameter	mm	1000	1000	1200
Max. wheel weight	kg	70	70	70
Max. bead breaking width	mm	392	392	410
Dimensions (W x D x H)	mm	1220x1700x1870	1350x1800x1920	1720x1920x2260
Weight	kg	300	310	440
Compressed air supply	bar	8 – 12	8 – 12	8 – 12
Power supply		230 V 1ph 50/60 Hz		
Turntable speed	rpm	7 / 7 – 18	7 / 7 – 18	7 / 7 – 14

Tyre changers		VAS 741 031	VAS 6824	VAS 6616
Inner clamping range	inch	12 – 26	12 – 30	12 – 30
Outer clamping range	inch	–	–	–
Max. rim width	inch	14	14	16
Max. tyre width	inch	15	15	17
Max. wheel diameter	mm	1120	1200	1200
Max. wheel weight	kg	70	70	70
Max. bead breaking width	mm	390	717	–
Dimensions (W x D x H)	mm	1850x1960x2270	2200x1900x2300	1290/1350x2240x1850
Weight	kg	485	430	820
Compressed air supply	bar	8 – 12	8 – 12	8 – 12
Power supply		230 V 1ph 50/60 Hz		
Turntable speed	rpm	7 / 7 – 20	7 / 14	7 / 14

Wheel balancers		VAS 741 055	VAS 741 057	VAS 741 059	VAS 6309
Rim centre bore diameter	mm	43–116	43–116	43–116	43–116
Measuring speed	rpm	› 200	› 200	› 200	› 200
Input:					
– Rim width (auto.)	inch	1–20 (3–15)	1 – 20 (3–15)	1–20 (3–15)	1–20
– Rim diameter auto.	inch	8–25	8–30	8–30	8–25
– Rim diameter man.	inch	8–32	8 – 32	8–32	8–30
Max. wheel width	mm	508	508	508	530
Max. wheel diameter	mm	1050	1050	1050	950
Max. wheel weight	kg	70	70	70	70
Dimensions (W x D x H)	mm	1838x878x1834	1380x1020x1570	1940x1020x1570	1365x910x1375
Weight	kg	140	160	170	148
Power supply		230V, 1 ph / 50/60 Hz			

TECHNICAL DATA

Wheel balancers		VAS 741 017	VAS 741 019	VAS 741 029	VAS 6311A
Rim centre bore diameter	mm	43–116	43–116	43–116	43–116
Measuring speed	rpm	> 200	> 200	> 200	> 200
Input:					
– Rim width (auto.)	inch	1–20 (3–15.8)	1–20 (3–15.8)	1–20 (3–15.8)	1–20 (3–15.8)
– Rim diameter auto.	inch	14–26	14–26	14–26	8 – 32
– Rim diameter man.	inch	8–32	8–32	8–32	8 – 32
Max. wheel width	mm	508	508	508	508
Max. wheel diameter	mm	1050	1050	1050	950
Max. wheel weight	kg	70	70	70	70
Dimensions (W x D x H)	mm	1940x1020x1570	1940x1020x1570	1940x1020x1570	1450x990x1710
Weight	kg	160	170	183	210
Power supply		230V, 1 ph / 50/60 Hz			

Wheel aligner VAS 701 001	Measuring range	Resolution
Single wheel toe – front / rear end	± 35°	1'
Total toe – front / rear end	± 60°/40°	1'
Max. steering angle	50°	1'
Camber – front / rear end	± 55°	1'
Caster – front end	± 30°	1'
Steering axis inclination	± 30°	1'
Thrust angle	± 35°	1'

For further information and technical data please refer to VAS machines under:

www.hofmann-europe.com

www.johnbean-europe.com

EMEA-JA

Snap-on Equipment s.r.l. - Via Prov. Carpi, 33 - 42015 Correggio (RE)
Phone: +39 0522 733-411 - Fax: +39 0522 733-479 - www.snapon-equipment.eu

Austria

Snap-on Equipment Austria GmbH - Hauptstrasse 24/Top 14 - A-2880 St. Corona/Wechsel (RE)
Phone: +43 1 865 97 84 - Fax: +43 1 865 97 84 29 - www.snapon-equipment.eu

France

Snap-on Equipment France - ZA du Vert Galant - 15, rue de la Guivernone BP 97175
Saint-Ouen-l'Aumône - 95056 Cergy-Pontoise CEDEX
Phone: +33 134 48 58-78 - Fax: +33 134 48 58-70 - www.snapon-equipment.fr

Germany

Snap-on Equipment GmbH - Konrad-Zuse-Straße 1 - 84579 Unterneukirchen
Phone: +49 8634 622-0 - Fax: +49 8634 5501 - www.snapon-equipment.de

Italy

Snap-on Equipment s.r.l. - Via Prov. Carpi, 33 - 42015 Correggio (RE)
Phone: +39 0522 733-411 - Fax: +39 0522 733-410
www.snapon-equipment.eu

United Kingdom

Snap-on Equipment Ltd. - Unit 17 Denney Road, King's Lynn - Norfolk PE30 4HG
Phone: +44 118 929-6811 - Fax: +44 118 966-4369 - www.snapon-equipment.co.uk

