

The new Tiguan

Driving presentation of the 2016 Tiguan

Berlin, April 2016

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Note:

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2016 driving presentation in Berlin

The Tiguan. Launching a new era of SUVs.

Tiguan confidently shows way to future as distinctively designed all-round vehicle

First Sports Utility Vehicle based on MQB sets standards in design, comfort and convenience

Wolfsburg / Berlin, April 2016. It is A great all-rounder with distinctive styling which redefines its class and confidently points the way to the future. The new Tiguan is kicking off a comprehensive SUV offensive by Volkswagen. It is the first sport utility vehicle to be based on the modular transverse matrix (MQB), and it sets new standards in design, comfort and functionality. In doing so it of course remains capable off-road, with a rugged all-wheel drive system that includes premium class technology for use on and off the highway. The new Tiguan is, then, both more SUV and more than an SUV.

More driving experience: Today's completely redesigned Tiguan creates freedoms in many areas for its broad spectrum of customers: freedom derived from its spacious interior and from a broad engine selection with eight versions between 85 kW / 115 PS and 176 kW / 240 PS, all of which are more powerful and fuel-efficient than their predecessors. The new Tiguan is also impressive off the beaten track.

More dynamism: With its new 4MOTION Active Control, the Tiguan guarantees superior acceleration capability and tremendous driving fun in every situation and on every type of driving surface. Individual tuning options and driving comfort reach a new level, especially in conjunction with the optionally available adaptive chassis control (DCC) and also optional progressive steering that is also available.

More freedom: A spacious interior paired with a significant gain in boot space and convenience features for practical everyday use – the new Tiguan concept and package represent a design that has been ergonomically improved in many details.

More style: The design of the new Tiguan emphasises independence and dynamism. With this car Volkswagen is introducing a completely new design character for its SUVs, which combines striking proportions with a clear commitment

to sophistication and presence. This proactive attitude is systematically followed in details such as the horizontally aligned unit formed by the radiator grille and headlights, and the higher waist line compared to the previous model, resulting in a confident stance.

More safety: The new Tiguan integrates innovative safety technologies and assistance systems as standard. These include Front Assist with City Emergency Braking and integrated pedestrian monitoring; Lane Assist; proactive occupant protection and an active bonnet to help safeguard pedestrians and cyclists. Premium class technology in an SUV that is positioned as an innovator – and not only when it comes to safety.

More comfort: The new Tiguan combines excellent space and flexibility of use with superb comfort under all road conditions. Every detail follows the goal of making driving and road journeys more pleasant – from the optional ergoActive seats to the lower load sill for easier cargo loading. Active Info Display and Area View ensure better all-round visibility, while Easy Open and Close make it simple to load the boot. The 3-zone climate control system including Air Care Climatronic with an allergen filter delivers precise multi-zone temperature control at all seats. The overall impression is of a carefully thought-out and much more sophisticated vehicle.

More SUV: The 4MOTION all-wheel versions of the new Tiguan have secured European classification as an off-road vehicle by virtue of the 200 mm ground clearance between the axles. An impressive trailer load capacity of up to 2,500 kg, which is unique in the compact class, and the optional offroad front end with a 25-degree approach angle, set the standard. The new Tiguan becomes the benchmark in the compact SUV class.

More infotainment. Occupants are “always on” in the new Tiguan thanks to the latest infotainment technology. The optional package of Media Control and App Connect creates an optimal interface to a smartphone or tablet. Details such as the inductive charging tray for smartphones round out the convenience package.

1. Strategy & market

Tiguan essentials

- 2.8 million Tiguan buyers since its original market launch in 2007
- New Tiguan kicks off comprehensive global SUV product offensive
- By the end of this decade, Volkswagen will offer at least one SUV in each relevant segment

A high seat position paired with safety and comfort: these are the attributes of SUVs that inspire many customers. At around 30 per cent, SUVs are the fastest growing body style worldwide. The A-SUV segment alone, to which the new Tiguan belongs, is growing tremendously. Forecasts for the next four years call for further global growth of more than 2 million vehicles.

When Volkswagen introduced the original Tiguan in 2007 it wrote a compelling sales success story. Since then, 2.8 million customers worldwide have chosen the Tiguan. Customers value their Tiguan in more than 170 countries across the globe. This makes the Tiguan one of the key product pillars of the Volkswagen brand alongside the Golf, Passat and Polo.

Volkswagen is beginning to systematically extend its range of SUVs globally, starting with the new Tiguan. By the end of this decade, Volkswagen will offer one SUV model in every relevant segment. A show car recently presented in Geneva, the stylish T-Cross Breeze SUV convertible offered a first look at a future model. Another clear sign of its determination is that Volkswagen developed the Tiguan with two wheelbases to fulfil the wish for seven seats and more leg room in certain markets such as the USA and China. The mid-size SUV announced for these markets is also in the starting blocks. And the Touareg, an established premium SUV, will of course welcome a new edition in the next year. In the Polo class, beneath the Tiguan, the T-Cross Breeze will be followed by a production SUV model inspired by the T-Roc concept car.

2. Design

Tiguan essentials

- New design language creates a distinctive independent SUV design character at Volkswagen
- Use of the MQB has enabled more striking proportions and a dynamic design
- Lines and light concepts, both exterior and interior, support the dynamic look

The unmistakable SUV profile of the new Tiguan radiates power, confidence and control. This impression is created because the designers, under the leadership of Klaus Bischoff, applied this simple ethos: less is more. The new Tiguan naturally appeals through its elegant design. The proportions of the base model with front wheel drive give it a powerful stance on the road with a 33 mm reduction in height to 1,632 mm and a 30 mm growth in width to 1,839 mm. At 4,486 mm in length, it is also 60 mm longer than its predecessor. The wheelbase was extended to 2,681 mm – a gain of 77 mm. This creates a look that stirs the emotions. At the front, in particular, the unit formed by the radiator grille and the LED projection headlights (standard in the Highline equipment line) reinforces the car's powerful impression and upright stance.

At the sides, the waist and character lines as well as the eye-catching wheel arches attest to the creativity of the designers. The well thought-out production technology is similarly fascinating. For instance, the door handles have been integrated seamlessly. Meanwhile the Tiguan's character line helps to define a rear section whose clear edges and horizontally aligned surfaces expertly continue the story of sporty all-rounders. The SUV design language is taken up consistently in the interior, too. The cockpit, for example, is now aligned towards the driver for better comfort and without constricting or disturbing the airy impression of the interior. At the same time, the wider centre console typical of SUVs is paired with the new 4MOTION Active Control rotary switch to create a defining interior element with a premium feel as in the Touareg. In the pleasant atmosphere of the ambient lighting, the sophisticated overall impression is completed by the panoramic roof (870 mm x 1,364 mm, available as an option) and details like the elegant door handles and smart trim strips.

3. Concept & package

Tiguan essentials

- Generous interior offers more head room and knee room than previously
- When the rear bench is folded the cargo space, at 1,655 litres, is 145 litres larger than before
- 2,500 kg towing capacity for all Tiguan versions with 4MOTION and the MQ500 or DQ500 transmission is unique in the class of compact SUVs
- Lower load sill improves ease of use and underscores the Tiguan's everyday utility
- Optimised body structure and improved aerodynamics add to occupant comfort

Size is not an end in itself. But it is one of the factors that determine comfort. The new Tiguan, with an interior 26 mm longer than previously, is now one of the most spacious cars in its class. At the rear, up to three passengers can now enjoy 29 mm more knee room. Despite its lower overall height, the vehicle has an ergonomic design that offers more headroom. And seat height, which customers consider so very important, was raised 8 mm in the new Tiguan. The car also offers a sliding rear bench that was optimised to permit 180 mm of adjustment – 20 mm more than in the previous model. When the rear bench is slid forwards, the boot offers 615 litres of space, which is a gain of 145 litres. This means that the new Tiguan can easily handle all of the equipment for any outdoor trip. When the rear bench is folded, the vehicle's 1,655 litres of boot volume is enough for all manner of large loads.

When it comes to aerodynamics, the new Tiguan has been significantly optimised. It has a Cd figure as low as 0.32 and is therefore 13 per cent better than its predecessor's 0.37. This has been achieved via a number of individual measures – from the aerodynamically shaped car body to an optimised underbody concept. Compared with models that have EU5 engines, the weight of the new Tiguan has been reduced by up to 53 kg. In the body alone, around 12 kg of weight is saved despite the longer wheelbase and longer vehicle length.

Overall, Volkswagen's developers have succeeded in creating a small masterpiece in the body of the new Tiguan. For instance,

lightweight design measures were implemented such as “tailored blanks” – the load-optimised thickening of sheet metal blanks. In addition, optimising the rear portal and the cross members between the rear wheel housings made the body much stiffer, despite a significant lengthening of 77 mm in the critical zone between the A and C pillars. The rear hatch was also enlarged compared with the previous model. Nonetheless, the important parameter of torsional rigidity is optimised in the new Tiguan. At 28,000 Nm/degree without a panoramic roof and 25,000 Nm/degree with the panoramic roof, the figures for the new Tiguan surpass those of the previous model. It also points out the limitations of many competitors. Customers directly benefit in terms of better ride comfort and greater safety.

4. Drive system

Tiguan essentials

- Extended engine range with four petrol and four diesel powerplants that meet all requirements
- Larger range of 4MOTION systems including the new 4MOTION Active Control, total of six engines available with 4MOTION - four with 4MOTION as standard
- 2.0 twin turbo diesel with 176 kW / 240 PS is now also available in the new Tiguan

The extended engine range of the new Tiguan gives customers the greatest possible range of choices for power, style and comfort. The four petrol engines, with power outputs from 92 kW / 125 PS to 162 kW / 220 PS, and the diesel engines from 85 kW / 115 PS to 176 kW / 240 PS are all more powerful and more fuel-efficient than the comparable EU5 engines of the previous model. At the start of pre-sales, the high-volume diesel will be available as a 2.0 TDI with 110 kW / 150 PS with 4MOTION and a dual clutch gearbox (DSG) or with a manual transmission and front-wheel drive. In addition, the 2.0 TSI with 132 kW / 180 PS, 4MOTION and DSG is a completely new engine that has been available for ordering since January 2016.

Volkswagen will extend its range of all-wheel drive models with two more TDI engines (140 kW / 190 PS and 176 kW / 240 PS) and two additional TSI engines (110 kW / 150 PS and 162 kW / 220 PS). Starting with engines that have a power of 180 PS, an automatically shifting DSG is included as standard. DSG is available as an option for the 150-PS versions. A look at

the top engine reveals one of the highest specific power figures in the A-SUV segment: the 240 PS engine (2.0 TDI) familiar from the Passat with twin turbocharging and 2,500 bar of fuel injection pressure transfers 88 kW / 119 PS of power per litre displacement to the road.

5. Vehicle dynamics

Tiguan essentials

- 4MOTION Active Control delivers safety at the push of a button
- Adaptive chassis control (DCC) offers individual and improved driving properties
- Progressive steering ensures maximum precision

Off-road, the new Tiguan is an exciting and dynamic trailblazer with optimal driving properties. The new 4MOTION Active Control enables safe progress under the toughest conditions in Offroad mode. The electronic accelerator pedal can be metered precisely. If the new Tiguan 4MOTION is equipped with DSG, the dual clutch gearbox upshifts later. The driver can avoid mandatory shifts by shifting gears via the tip gate (+/-); this also permits the use of engine braking. In this case "automatic freewheeling" is deactivated, which is decoupling of the engine to make use of the kinetic energy of coasting. Traction control (ASR) governs engine speed and simultaneously controls traction and driving stability. In parallel, the steering system and adaptive damper control switch over to a suitable driving profile. Electronic Stability Control (ESC) activates the Offroad characteristic, and the driver assistance systems for hill ascent and descent come into play. In addition, the dynamic cornering lights open up a brighter and wider light pattern near the car.

The new Tiguan performs all of the tasks set before it quickly and effortlessly. This lets the driver enjoy an entirely new level of comfort and convenience. On the road, off-road or on ice or snow. The driving experience is optimised by the optionally available adaptive chassis control (DCC). The Tiguan has been tuned with new control valves for greater ride comfort and a broader spread of driving profiles. The chassis control system delivers a breadth of choices to suit different driving styles – very conveniently at the push of a button. Meanwhile, the optional progressive steering system assures precise and

dynamic driving and enhances ride comfort at slow speeds and in manoeuvring.

Symbol for confident driving

The optional off-road front end and higher ground clearance between the axles when 4MOTION is ordered underscore the sturdy and powerful character of the new Tiguan. The developers had a clear goal before them: the driver and vehicle should form one unit – on rough twisting trails or on terrain with loose or dirt driving surfaces.

6. Safety & driver assistance

Tiguan essentials

- New Tiguan sets standards when it comes to safety
- Front Assist with City Emergency Braking and Pedestrian Monitoring; active bonnet; automatic post-collision braking and Lane Assist are fitted as standard (in Europe)
- First active bonnet at Volkswagen reduces the risk of injury to pedestrians and cyclists by lifting upward in the event of an impact
- Adaptive cruise control (ACC) becomes a traffic jam assistant with DSG-equipped Tiguan

The MQB enables even more safety from the factory. When it comes to active and passive safety, the new MQB-based Tiguan is a premium class performer. Standard features in Europe include Front Assist with Pedestrian Monitoring, active engine bonnet and Lane Assist. The safety equipment is completed by a network of seven airbags – including a knee airbag on the driver's side. It sets standards, and not only for A-SUVs. The new Tiguan, in particular, like all Volkswagen cars based on the MQB platform, also comes with the automatic post-collision braking system which helps to avoid dangerous secondary collisions.

Front Assist, which is included as standard in even the base version of the new Tiguan, monitors the surroundings by radar sensor and brakes via an emergency braking function if the driver has overlooked an obstacle. What is new is that the sensing in the new Tiguan is exclusively by radar sensor and

not in combination with the multifunction camera. It initiates a two-stage reaction if a pedestrian is detected on the road. First a warning is given, then the system activates the braking function. The Lane Assist lane departure warning system that is included as standard is definitely a new and unique feature in the compact SUV segment.

Other examples of standard safety solutions include the Driver Alert System – added from the Comfortline trim level; and adaptive cruise control (ACC) up to 160 km/h included in the Highline. In interplay with a DSG gearbox, the ACC becomes a traffic jam assistant that assumes the majority of driving work in stop-and-go traffic. Another component of the driver assistant package is Emergency Assist. In an emergency, this extension of Lane Assist initiates an emergency stop in the driving lane. This is performed after an extended warning by Lane Assist that involves activating the hazard warning lights and driving in a controlled swaying pattern within the driving lane to alert other drivers.

The active engine bonnet reduces the risk of injury to pedestrians and cyclists. When contact is made with the bumper, a sensor strip triggers a pyrotechnic actuator that lifts the rear edge of the bonnet around 50 mm within 22 milliseconds. This increases the distance between the hard engine components and the relatively flexible bonnet. In turn, it reduces the risk of serious head injuries.

7. Comfort

Tiguan essentials

- The Active Info Display – a digital instrument cluster – is being implemented in the compact class for the first time and features a specific offroad profile
- All-LED headlights with significantly improved lighting performance, available as option with Dynamic Light Assist
- New generation of seat structure and completely redeveloped foam contours enhance comfort and lateral support
- 3-zone climate control system with Air Care delivers clean and personalised air conditioning
- Convenient remote seatback unlatching (optional) makes it easy to fold down the rear bench

As sporty and rugged as the new Tiguan appears, it is still uncompromising when it comes to comfort. The new model has made significant gains compared with the already comfortable previous model, from the larger interior – in which high-quality materials form a harmonious unit together with the completely redesigned cockpit – to the flexible and capacious boot space.

New to the compact class is the Active Info Display, familiar from the Passat, and now with SUV-specific instruments. In combination with the display of the radio or navigation system this creates a virtual, flexible human-machine interface (HMI) whose displays complement one another. Six different views may be selected for the 12.3-inch Active Info Display. New in the Tiguan is an offroad display profile with steering angle indicator and compass that was specially designed for the car. When navigation is activated the large central display can be selected, as in the Passat. Here, 3D navigation is shown directly in the Active Info Display in a large size in addition to the infotainment screen.

In addition, navigating is supported by the retractable combiner head-up display that is integrated into the dashboard that has laser-etched texturing. Relevant driver information such as driving speed, the currently relevant speed limit, direction arrows for navigation and indicators for the driver assistance systems are projected directly onto the combiner display and thereby into the driver's line of sight.

LED headlights

Even the base version with an LED module for the dipped and main beam deliver 10 per cent better lighting performance compared to halogen headlights. The light has a much whiter appearance than with the basic H7 headlights. On top of this, the all-LED headlight with lens and reflector – adds another highlight. It is more powerful than a bi-xenon headlight and also has whiter light. Along with the dipped and main beam lights, the turn indicator and daytime running light signatures are implemented as an LED unit. Available as option: Dynamic Light Assist ensures glare-free main beam or masked permanent main beam in the Comfortline and Highline equipment lines.

Improved seat comfort

The second generation seat structure being used for the first time in the new Tiguan delivers relaxed comfort – even on rough surfaces. The front seat structure, whose weight has been reduced substantially, is being used for the first time at Volkswagen in the new Tiguan. Weight savings of 20 per cent have been achieved by the new design approaches that utilise innovative materials and production methods. In addition, the wires that are woven in a meandering pattern in the seat surface help to achieve light springing – and thereby an improvement in comfort, especially on uneven driving surfaces.

The driver and front passenger sit much more comfortably overall, courtesy of this standard feature. The ergoActive seats used from the Trendline equipment line, which have earned the AGR (“Campaign for Healthier Backs”) seal of approval, are equipped with 14-way seat adjustment, massage function (driver’s side) and optional seat heating. Their comfort has been significantly improved over longer periods of driving in the new Tiguan, and the foam contours of the seats have been completely redesigned compared to the previous model. The contours offer better lateral support for passengers and the foam offers a much more flexible fit to the body.

Automatic climate control: 3-zone innovation

Clean, allergen-free air and a healthy environment: the new 3-zone climate control system in the new Tiguan offers personalised climate comfort for driver and passengers. The air quality sensor with allergen filter prevents hazardous materials from entering the car’s interior. Sun and humidity sensors help to achieve optimal climate control in the interior and regulate air humidity, thereby reducing the incidence of window fogging.

8. Infotainment

Tiguan essentials

- Thanks to App-Connect, nearly any smartphone based on iOS, Android or Mirrorlink can be networked with the new Tiguan
- The Radio Composition Media and Navigation Discover Media systems now also have an 8-inch display
- CAM Connect gives the driver a view to the rear seats of the car or towed items such as a horse trailer

- An inductive charging tray for smartphones and the new Car-Net Security & Service function also debut in the new Tiguan

In the new Tiguan Volkswagen is implementing the latest generation of infotainment, based on the MIB. It starts with the base radio, the Composition Touch, which comes in the Trendline trim level. Other optional systems are Radio Composition Colour with a 5-inch colour touchscreen and Composition Media with an 8-inch colour touchscreen. The Discover Media and Discover Pro navigation units offer excellent visibility thanks to their 8-inch displays and come with the Guide & Inform online services as standard. To activate them, all the user needs to do is register with Car-Net using a SIM card via the CarStick, or wi-fi hot spot of the smartphone or business phone. All services can be used free-of-charge for the first year.

Delivering an ideal sound experience in the new Tiguan is the optional 400-watt DYNAUDIO Excite Surround system with a digital 10-channel amplifier, subwoofer and centre speaker integrated in the cockpit. The low-resonance loudspeakers were meticulously tuned to the new Tiguan for perfect surround sound.

Media Control and App Connect

The optional package of Media Control and App-Connect provide a connection to consumer electronic devices in the new Tiguan. Examples of this system's many different capabilities include Media Control which can be used by the front seat passenger, or even by a passenger on the rear bench, to conveniently input a navigation route from a tablet to the infotainment system or to update the play list. And with App Connect, nearly any smartphone can be fully integrated in the new Tiguan via Apple CarPlay, Android Auto or MirrorLink. Everyone is also "always on" in Offroad mode. The risk of distraction from driving is reduced by use of the USB port on the centre console to mirror the smartphone display onto the vehicle's display. The driver could even use the MirrorLink app Cam Connect to have images shown on the display of the radio or navigation system sourced from a GoPro camera mounted in a horse trailer being towed by the new Tiguan.

The convenience package for online and media functions is rounded off with an inductive charging tray for smartphones

based on the global Qi standard that is being installed by Volkswagen for the first time and by the new service Car-Net Security & Service. These services let drivers optimise safety and access key information about their vehicle. Available features range from a speed alarm to telemetric calls for roadside assistance and vehicle tracking.