

Artega[®]

Presskit
82. Auto Salon Genf 2012



Content

1. Artega at the 82. International Motor Show - Geneva 2012	3
<ul style="list-style-type: none">• Artega®GT Model Year 2012 featuring extensive revisions• Artega SE• Artega®GT Study with removable panoramic glass roof	
2. Artega ®GT model year 2012	4
<ul style="list-style-type: none">• Complete details of all changes for 2012• Performance confirmed at 24h Race• Impressive performance and highest exclusivity• Aviation & space standards - and a spaceframe with less than 100 kg• Consistent lightweight design and low fuel consumption• Sophisticated aerodynamics and rear diffuser• Braking at the highest level• Technical Data	
3. Artega SE	14
<ul style="list-style-type: none">• Superior power with zero emissions• Cutting-edge battery technology• Minimal additional weight because of the basic concept of the Artega®GT• Innovative recuperation technique• Market outlook for high-quality electric vehicles• Social acceptance	
4. Artega®GT study with removable panoramic glass roof	16
<ul style="list-style-type: none">• The next dimension.	
5. Artega, sports car manufacture 2012	16
<ul style="list-style-type: none">• Consistently expanding dealer network	
6. Photographic material	17
<ul style="list-style-type: none">• Up-to-the-minute photo sets of all Artega models	
7. Press contact	17



1. Artega at the 82. International Auto Salon in Geneva 2012

The **Artega®GT** is in model year 2012 one of the very lightest sportscar of its class. Infotainment System by **Pioneer®**, leather crafted to perfection, driving pleasure in abundance! You'll find all specs on the model year 2012 **Artega®GT** in Section 2.

With its **Artega SE**, the Artega GmbH & Co. KG is leading the way to true innovation in the sports car segment. Please check Section 3 for complete information.

The sporty open **Artega®GT** study shows how the next model variant of the **Artega®GT** might look like. To multiply driving pleasure with a further dimension, the classic open Roadster driving. See more information about this variant in the 4th section.

2. Artega®GT Model year 2012 Featuring extensive model revision

Changes in the 2012 **Artega®GT** are the culmination of practical experience, technical development, testing and customer feedback. The scope of revisions is extensive and the product of findings from everyday life, test kilometers and innumerable rounds on the test track.

Many of these insights were gleaned from an extraordinarily successful performance at last year's **24-Hour-Race on the legendary Nürburgring**. It was here that the **Artega®GT** proved its uncompromising quality.

A completely redesigned Infotainment System – and smaller mirrors

For 2012 the **Artega®GT** sports an extensively reengineered center console, housing its brand new, multi-function Infotainment unit. Manufactured by **Pioneer®**, the new Infotainment system is the culmination of extensive industry experience, backed by an impressive, large scale production track record. The display is now angled towards the driver, with intuitive functions resulting in remarkably user-friendly operation.

The navigation system was moved from the rear view mirror to the redesigned console, allowing for a far smaller sized mirror and markedly improved vision.

A simple touch screen controls radio, MP3-player, Bluetooth telephone system and DVD player in addition to the navigation system. The bright color display renders images delivered via optional back-up camera crisp and clear. And connecting all Bluetooth-Smartphones – like the popular **iPhone®** - is a breeze. The all-new HiFi-System will satisfy the most discriminating audio-phile. Functions for volume control, temperature, as well as climate control & fresh air intake are controlled with ease by three separate knobs.

Also redesigned was the instrument cluster featuring two coaxial needles for speed and engine speed. The previously analogue instruments, clock and stopwatch have been replaced by gages for water temperature and fuel capacity. The time and stopwatch are now integrated into the instrument cluster. Conversion of various instruments is easy via a button in the steering wheel and can be operated on the go. Infotainment system of already delivered **Artega®GT**s can be replaced.

More intuitive operation and thoughtful technical tweaks allow the driver to fully experience the pure joy of driving this dynamic sports car.



More options and even more carbon fiber components are now standard

Standard equipment for the 2012 **Artega®GT** now includes a front and rear bonnet and roof of carbon fiber. Side air intakes on both sides are lined in visible carbon and a painted interior inlay in customer's choice of color. Both side mirrors have been redesigned with an innovative housing that markedly reduces the dead angle, while simultaneously preserving total field of view.

An additional 25 colors were added to the selection of special leather Interior options allowing for personalized color schemes limited only by a customer imagination. Drilled brake discs too are now part of standard equipment, providing thermodynamic advantages in addition to the sportier look. A larger braking system and a suspension tuned specifically for the Nürburgring-Nordschleife track are optional.

Additional options for the **Artega®GT** include a sports suspension, sports brake pads, exclusive Artega forged original lightweight wheels, sports tires, **RECARO® pole position seats**; bucket seats made of ultra-light CFK/Carbon-Kevlar®Structure, weights only around 4,500 grams, available by special order are sport steering wheels with additional padding and suede grip patch combinations, and a rear-view camera.



Distinctive design

Renowned automotive design genius Henrik Fisker, whose body of work includes the BMW Z8 and the Aston Martin Vantage - among many others - created the unique Artega look by pairing the length of a small car (4,012 meters) with the width of a luxury sedan (1.88 meters). The result: A sleek design that's equally powerful and dynamic - and unmistakable Artega.

Impressive performance and low fuel consumption through consistent lightweight construction

The mid-engine concept and direct steering perfects the fun - with an average fuel consumption of only 9.6 litres per 100 km by EURO 5 standard. The use of construction materials taken from motor sport, namely the aluminum space frame and strengthened steel and carbon fibre reinforced composites means the **Artega®GT**, including extensive list of standard equipment weighs only 1.285 kilo and making this sportscar one of the lightest in its class. The V6 engine achieves an impressive output of 220 kW / 300 PS (295 bhp) from its 3.6 liter engine resulting in an impressive power to weight ratio of 4.28kg / PS (4.35 kg/bhp). This power to weight ratio and a state of the art drive train give the car a formidable agility and an impressive driving performance. Acceleration: 4.8 Seconds to 100 km/h (62 mph), Max speed: 270 km/h (167 mph)

Outstanding Performance – Confirmed by the 24-hour Race at Nürburgring

Exuberant joy and a well-deserved sense of relief were among the ContiForce-Team on 26 June 2011 at the Nürburgring. Crossing the finish line after a grueling 24 hours the Artega took 70.Place overall ranking, ranking it 11th in one of the most competitive displacement -and PS classes (SP7).

Artega CEO Peter Müller was delighted with the impressive performance - at the toughest race the world: "The performance was perfect. Other than a couple of minor incidents in the first hours, we had no problems whatever and the volatile weather conditions during much of the first phase allowed us to take full advantage of those street-approved new ContiForceContact Tires."

Highest Exclusivity

Artega has built a limited production manufacture in which each individual vehicle is produced with great care and attention to detail. The large proportion of in-house production, which includes among other things both the chassis and suspension, engine peripheral, tank- and exhaust system. Each car is built to order by highly skilled craftsmen, created by hand with pride and uncompromising attention to every detail. Step by step each automobile is fashioned in accordance with the individual wishes and specifications of the customer – it is a process that can't be rushed.

Which is why an Artega will always be a limited-edition exclusive: No more than 500 units of the sports car can be completed each year in Delbrück.

The Artega®*GT* in detail

The **Artega®*GT*** is brimming with technical highlights. It's remarkably lightweight construction is made possible by combining materials typically reserved for race cars. High strength steel and carbon fiber reinforced composite materials are used to build the aluminum-spaceframe. The modular design ensures repairs without a hitch. The structure has been optimized in extensive crash tests. The aerodynamics has been carefully honed and a rear diffuser ensures optimal down force. The sporty drive train with dual-clutch transmission optimize drive dynamics while guaranteeing maximum reliability. The well-balance design concept promises pure driving enjoyment - and best braking.

An Aluminum Space Frame Weighing Under 100 Kilo

Aviation and space standards ensure the highest quality standards throughout the production process. The aluminum space frame was developed in-house by our own Research & Development Department -it is light and stiff and constructed in a modular fashion. Production takes place at our new manufacturing facility in the Westphalia district of Germany. The space frame consists of extruded sections - specifically designed for the Artega - which are MIG welded to form a reinforced frame structure designed to provide the best possible torsional rigidity. All in-house construction processes meet the strictest aviation and space standards (DIN 29595). Equally high standards are maintained in selecting quality construction materials. The aluminum alloy (AlMgSi 0.5 T6) is completely resistant to salt and sea water damage. "You could immerse the entire frame into sea water without risking any damage" explains Artega's Assembly Manager Martin von der Lieth referring to the longevity of the space frame.

Highest Quality Steel Alloys

Another important component of our lightweight construction concept is a tubular space frame of tensile steel for the rear module. It is constructed of a high tensile steel alloy with a proven in track record in motor sports (25CRMo4), and has been specially treated to permanently prevent rust. Prior to final assembly, the space frame chassis and tubular space frame for the engine and gearbox are mounted together.

Honeycomb structure on the underside of the car

The floor of the Artega is made of an aluminum honeycomb structure, for minimum weight while retaining exceptional stiffness. The floor is bonded to the space frame to complete the package. This lightweight and extremely solid sandwich-structure was first used in aircraft design.

Uncompromising light weight construction with a unique body shell

The **Artega®GT** is one of the very first vehicles in the world featuring an outer body shell made from carbon fibre reinforced polyurethane (PUR) which was developed in conjunction with Elastrogen, a subsidiary of BASF. The combination of different PUR construction materials with ideal mechanical properties make the **Artega®GT** a genuine welterweight while offering significant advantages in the areas of cost and security. The fenders, front-rear and side panels of the car are made of fibre reinforced micro-cellular construction material 'Elastolit' - offering high strength and impressive impact resistance even under extremely cold weather conditions. The low coefficient of thermal expansion of the carbon fiber reinforced PUR system ensures a fit of unrivaled accuracy of fit and extreme resistance to heat distortion. The resulting superior quality of the surface finish and light weight construction materials is ideally suited for a perfect paint application on visible surfaces.

Standard equipment on all Artega models now includes a front- and rear bonnet and roof made of carbon fiber. In addition, the side air intakes are lined in visible carbon fiber .resulting in a significant gain in rigidity, at the lowest possible weight.

Crash Tests

Extensive and costly crash tests are legally mandated only for vehicles in large scale production. Nonetheless, Artega pro-actively conducts these rigorous crash tests on a voluntary basis - committed to provide our customers with the very best safety measures available to date.

Since the earliest stages of development, our engineers have worked to incorporate advanced safety characteristics into the layout of the vehicle structure. So called 'Load Paths' were used to determine the distribution of impact energy in the event of an impact.

Excess joints were avoided - the necessary ones were executed in particularly strong materials and bolstered with special reinforcements. Energy absorbing components were incorporated wherever possible.

The prototypes proved that the structure corresponded with theoretical measurements when crash tested. Next, the **Artega®GT** was outfitted state-of-the-art seat belt pretensioners. Force tensioners were added seat belt mounting points calculated, and seat belt safety properties specified. The integration and calibration of two full size front impact airbags and two full side fitted airbags followed. The doors received reinforced impact protection bars (15 CDV 6) and the roof was reinforced, providing a safety cage to compensate for the missing B pillars.

All components, once assembled were subjected yet again to rigorous crash testing to prove that they worked in the **Artega®GT**. The result of these elaborate procedures is a driver's cell which is light but retains its torsional stiffness for maximum safety. If the worst happens, strategically placed crash protection elements distribute the force of the impact so that energy will be delivered to the most stable part of the vehicle, which is the main frame. The main frame is divided into 3 parts: the central tunnel, and the left and right side members which together make up the safety cell for the driver and passenger. This ensures that even the highest impact pressures are absorbed. Yet again, Artega far exceeds all industry standards of quality and safety for small manufacturers.

Sophisticated aerodynamics featuring an innovative rear diffuser

Knowledge gained from motor sport and the results of extensive wind tunnel testing were essential in developing the exceptional aerodynamic properties of the **Artega®GT**. The underbody is completely enclosed, greatly reducing air turbulence. A rear air diffuser is mounted to the underbody, with a rather stunning effect on the car's handling: mimicking the airflow over an upside down aircraft wing - with air streaming more quickly underneath – the **Artega®GT** is quite literally sucked onto the surface of the road by the resulting "down force".

A chassis for sport - and every day

You can have both – and without any half hearted compromises: Owing to the combination of a wide track with a short wheelbase, **Artega®GT** provides comfortably neutral handling for everyday use – and adrenaline-pumping thrills for the sports car enthusiast.

These qualities are clearly evident on the race track. Here the Artega's chassis minimizes pitch and roll while providing the driver with instant feedback. Steady road contact maintained by all wheels at all times communicates longitudinal and transverse forces to the driver as a direct and physical experience.

Meanwhile the **Artega®GT**'s suspension never comes across as too firm. Developed with motor sport specialists Bilstein the professional set up produces maximum traction and stability, securing a safe path through curves.

Additionally optimized to prevent tipping during heavy acceleration and braking maneuvers, the **Artega®GT** embodies the perfect characteristics for stress free, comfortable travel: It's the sports car you can enjoy driving every day.

Extremely Light Option Wheels

Working with the alloy wheel specialists of APP Tech in Italy, Artega developed one of the world's lightest nineteen inch forged wheels for the its GT. The goal was to combine optimal performance with a sporty yet elegant design and the lowest possible weight. The collaboration created a stunningly sleek and extremely light forged alloy wheel - an **Artega®GT** exclusive produced by APP and available as an add-on option.

Compared to aluminum casting, forging results in a thinner side wall and increased safety while retaining strength and stability. Furthermore, forging can reduce un-sprung weight by as much as 35% - a weight decrease that greatly improves driving comfort while lowering stress on springs, dampers and suspension, which in turn extends the longevity of these components. In addition, light weight alloys provide the car with a sporty, more agile feel, contribute to improved fuel economy , shorten the braking distance , reduce wear and tear on other components – and all of these factors contribute to improved passive security.

Technical data - option wheel

Dimension front: 8 "x 19" with 235 / 35 tires

Dimension rear: 10.5 "x 19" with 305 / 30 tires

Front weight: 8.6 kg

Rear weight: 9.8 kg

Bolt pattern: 5 x 112 mm

Offset: FA 43 mm, RA 45 mm

Technical data - series wheel

Dimension front: 8 "x 19" with 235 / 35 tires

Dimension rear: 9.5 "x 19" with 285 / 30 tires

Front weight: 9.1 kg

Rear weight: 9.7 kg

Bolt pattern: 5 x 112 mm

Offset: FA 43 mm, RA 45 mm

The Large-Production Engine guarantees reliability and service ability

The **Artega®GT** engine is a product of the Volkswagen Group. The six-cylinder in V-arrangement draws its power from an engine capacity of 3.597 cubic centimeters. 300 HP (220 kW) provide solid acceleration: 4.8 seconds from zero to 100 km/h. Maximum speed is 270 kilometers per hour.

The most advanced double clutch gearbox available.

The double clutch gearbox provides a fully automated gear change without interrupting traction. This modern transmission setup, frequently referred to as a 'direct shift gearbox' has been refined through years of practical motor sport experience.

A sophisticated electronics package controls shift changes between the two gearboxes and the double clutch. When changing gear, the unused gearbox - which normally carries no load - is able to 'bridge' the period of the gear change, thus preventing loss of torque during the process. Once the gear change has been completed, torque is redirected to the selected gear. Gear changes may be controlled manually either by using the paddle shift system located at the steering wheel, or by using the gear shifter on the centre console. Alternatively the gear selection can be switched to fully automated.

The double clutch gearbox is the most advanced system available for production cars today. It offers the quickest possible gear change combined with the option to switch to automatic mode providing the most operational available in a sports car. In addition, the optimized shift points in automatic mode result in noticeable reduction in fuel consumption.

A top performer with everyday applications

The **Artega®GT** is proof positive that a sports car can be fast, lightweight and comfortable equipped. The above crash modules and the excellent brake system ensure the safety of the occupants. In contrast to pure driving machine which has **Artega®GT** also due to its large interior that significantly increases the comfort when driving on a high for everyday use.

Contemporary environmental performance

The low power to weight ratio of **the Artega®GT** combines a progressive environmental stance with amazing fuel economy. Average consumption based on the EURO 5 Standard is about 9.6 liters per 100 km – an outstanding average for a sports car. The low fuel consumption also translates into an impressive range of more than 650 kilometers on just one tank, contributing to traveling comfort on longer trips. Resource-preserving production and a high recycling rate add to the environmentally sound performance of **Artega®GT** to.

The technical data of Artega®GT

Motor	Direct injection V6
Capacity	3597ccm
Power	220kw, 300 PS, 295 bhp
Din Weight	1285 kgs
Total Gross weight	1495 kgs
Power to weight ratio	4.28 kgs / ps (4.35 kgs / bhp)
Gearbox	6-Speed DSG (dircet shifting gearbox)
Acceleration 0-100km/h	4.8 seconds
Maximum speed	270 km/h (167 mph)
Fuel consumption	9.6l/100km (28.9 mpg combined cycle)
Urban	13,7l/100km
Outside twons	7,2l/100km
CO2 emissions	223g/km
Maximum Range	660 km (410 miles)
Frame	Aluminium space frame, tubular rear sub frame constructed from reinforced steel
Body	Carbon fibre reinforced polymer panels, Carbon front- and rear bonnet and roof.
Dimensions (L x W x H)	4015 x 1882 x 1180 mm
Luggage space	300 litres

3. The Artega SE

The brand new electro-powered Artega - combining the pure joy and excitement of the sports car with progressive environmental awareness. Developed by Artega, this entirely electric E Sports Car is based on the same lightweight construction concept as its older sibling, the **Artega®GT**, ensuring superior performance and technical know-how right out of the gate

Uncompromising power – zero emissions

Powering the rear axles are two powerful electric motors which together produce 280 KW (380 PS or 375 BHP) of power providing remarkable propulsion. Each motor independently drives one of the back wheels. The gear box unit is supplied by Formula One supplier Cima, Bologna (ITA). The **Artega SE** accelerates from 0-100km/h (0-62mp/h) in a mere 3.9 seconds which, when compared with the normal combustion engine figures of 4.8 seconds is truly impressive. Power delivery to the wheels from the electric motors is provided in a linear fashion without delay as opposed to the combustion engine. The maximum speed of the e-drive model is at least 205 km/h (126.5 mph). km/h. The entire electric drive train weighs just under 150kgs. The efficiency of the electric drive motor is measured at over 90% which is extremely high.

The most modern battery technology available

The Artega SE Battery System is based on 16 integrated Lithium-Ion-Polymer Battery modules. The 12 high performance Lithium-Ion-Polymer cells per module provide high energy and power density, for a storage capacity of 37 kilowatt hours at a nominal voltage of 350 volts, A high performance liquid cooling system ensures safe operations of the 300kW array. The compact design weighs in at only 3120 kilograms. According to the NEDC standard, the Artega SE has a range of about 300 kilometers. In practice, and based on average driving conditions this translates to a still comfortable 200 kilometers. The battery port at the rear of the vehicle can be recharged at any grounded household electrical outlet. The load time can be shortened to a low 90 minutes at Park & Ride stations and similar venues.

Little additional weight through acquisition of lightweight concept of Artega®GT

The mid-engine concept of the **Artega®GT** offers the perfect prerequisites for inclusion of an electric drive. The **Artega SE** weighs in at approximately 1,460 kg, just 10 percent higher than his conventionally-powered brother. Thus the handling and braking characteristics closely match those of the **Artega** and unanimously praised by the industry with brakes and shocks adjusted for the stronger E-version, the SE offers an effective performance increase of 59 KW (80) over its sibling.

An innovative recuperation technique

Using the shift paddle system located at the steering wheel the driver is in complete control of recuperation, allowing him to change the level according to road conditions or to suit his personal style and preferences. Settings for recuperation range from a maximum of 75 KW to 0 (when coasting).

Targeting

The market is ready for high quality electric automobiles, and demand for alternatives to traditional engines is growing.

Management consultancy firm Mc Kinsey studied the market potential for electric drive vehicles extensively and published the results in February 2011 in their quarterly report. According to the report potential customer's demand for sole electric drive and hybrid versions especially in congested urban areas such as New York, Paris and Shanghai lies at around 16%. This interest in the product is independent from other factors such as the availability of special charging stations and government funded initiatives. Consumer interested in electric-drive vehicles can be sub divided into institutions and companies wishing to contribute to pro-environment initiatives and the so called 'Early Adopters' - a segment of the population, generally living in big cities and likely to invest money into new technologies. As a rule this target group has a second vehicle at their disposal and range limitations for example do not play a significant role in investment decisions. Our preliminary estimates suggest an attractive price point of 150.000 Euros net, positioning the **Artega SE** between the price of already existing 1st generation e-drive sports cars and prices estimated or advertised by established electric car manufacturers for their next range of e-sports cars.

Social acceptance

We expect the **Artega SE** to significantly contribute to the social acceptance of a new breed of sports cars. It represents the art of German engineering, produced by hand, and customized according to individual customer requirements. The small series production provides the flexibility to implement many promising new technologies. Artega - whether with electric or internal combustion engine - is dedicated to genuine innovation, and that sets us apart from other vehicles.

4. Artega®GT Study with panoramic roof - world premiere in Geneva

As a world premiere to the Geneva car salon, Artega shows the study of **Artega®GT** with removable glass roof. With this equipment details, the German manufacturer of small series once again proves the artisanal competence. Equipped with all the technical merits of the Coupé, this study goes a step further and opened another dimension to its passengers. Thanks to the easily removable roof, the driver cockpit is open pleasure for all those who want to experience even more driving dynamic stimuli. Stowage keeps the roof safe in a softbag behind the seats.

We describe the first driving impressions of **Artega®GT** with panoramic roof with following concepts - open for even more driving pleasure multiplied by a further dimension. At present sufficient orders, no prototype will remain this vehicle. The current design study is a ready-to-drive test car with the factory now meets many customer requests.

To respond to these requests is a factory like Artega process possible. The short distances between the client's request, sales, development, and production offer opportunities that are hardly so quickly to implement in large series. An available option is enough pre-orders or mandatory requests from this study. A company is probably still within 2012.

5. Artega - the 2012 sports car manufacturer

The year 2012 is already extremely positive run for the Artega GmbH last January and February. With currently 15 sold vehicles in the first two months, the rising trend of last year is continuing. Since the series started over 100 sportscar to enthusiastic customers could be delivered. Also the European is not entirely innocent in this outstanding development and worldwide active traders who are very helpful for the awareness of the young brand. Alone the dealer coverage of the Switzerland already amounted to six distributors.

Artega dealer network will be further expanded in 2012.

To achieve an even better distribution & service coverage, an extension of the Artega dealer network is planned in 2012. Japan, Singapore, Malaysia, and China are as strong growth markets of course strongly in the sales focus by Artega. Currently, Munich, Berlin and Düsseldorf are as open areas for more distribution centers in Germany.

Throughout Europe, the dealer network to Italy, France, Austria, and the BeNeLux countries will be expanded.

6. Impressions

On this USB stick folder of photos more see three. Herein we provide unrestricted product photos of all available models. For further questions you get directly in contact with our Press Office.

7. Press contact

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