



apollo

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“The most exciting car to ever wear number plates.” (Autocar Magazine 22 / 2005)

Apollo: son of the Greek god Zeus, responsible for victory, and symbol of masculine beauty, today an inspiration for the breathtakingly uncompromising super sports car that unites aesthetics and function like no other. Get to know the *apollo* on the following pages – the most exciting car to ever wear number plates.

The new and striking brand is characterised by the griffin: this mythological creature – half lion, half eagle – is a symbol of strength and speed, and not least a symbol of earth and air.





A NEW REALITY BORN OF A VISION.



"It has always been my dream to have a car with so much downforce, such aero-dynamic efficiency that you could drive on the roof of a tunnel at high speed. This car can do it."

Roland Green part

Our engineers strive constantly to push the boundaries of what is feasible. The results are technical masterpieces that bring us a little closer to the thrill of speed and the dream of flying and driving.

We strive to fulfil our customers' dreams of a powerful, exclusive and unique sports car. A car that provides its driver with a breathtaking driving experience while possessing the potential to win on race tracks across the world.

The **apollo** makes this dream come true.



EXCLUSIVITY IS EXPRESSED IN UNIQUENESS.

The production process is the one part of the manufacture philosophy in which exclusivity and precision are paramount to speed. Gumpert Sportwagenmanufaktur associates the term ‚manufacture‘ with it’s the commitment to achieve quality and luxury by means of craftsmanship and hand-made production.

Roland Gumpert, founder, managing director and the driving force behind Sportwagenmanufaktur, has created a manufacturing environment that combines engineering excellence with a broad automotive and racing competence. Experts within the motor-sports scene are all familiar with the name Gumpert: In the mid 1970s, the long-standing AUDI manager was the driving force behind the development of the four-wheel drive "Iltis", the original predecessor of today's "Quattro". In 1979 he not only succeeded in preparing the gnarled four-wheel drive "Iltis" for the Paris-Dakar rally, but also achieved victory. In the years that followed under his management, AUDI Sport won a total of 25 World Rally Championship races and was the 4-time winner of the World Rally Championship. Gumpert's professional success is distinguished by his ability to combine innovative ideas with proven technology effectively and successfully.

A team of automotive and motor sports specialists joined forces to pool their enthusiasm and energy into developing and creating the **apollo**. Their abilities create the space for the finest workmanship and utmost individuality, with the use of high-tech processes and integration of proven standard components securing the technical basis.

With the **apollo** we are providing a select clientele of ambitious sports drivers and car enthusiasts with the opportunity of experiencing the unique synergy between hand-made high-end components optimised for performance on the road and the track, and of distinguishing themselves from the remainder of the world of sports cars. Up to 100 vehicles will leave the factory each year – just enough to ensure that these exceptional vehicles retain their exclusive status.

Gumpert Sportwagenmanufaktur is an independent, privately financed company. The financial stability of the company is being secured by well-known investors. Their operative commitment will also promote the international sales and distribution of **apollo**.



”This is one **apollo** that wont make it to the moon –
but it still goes like a rocket.” (News of the world 02 / 2005)

DESIGN EQUALS DRIVING DYNAMICS.



The challenge was to develop an exceptional design that combined the extreme aerodynamic requirements of a performance-oriented, purist super sports car with the aesthetic design of an exclusive vehicle. We wanted to achieve the perfect synthesis of design and function. Without compromising. And we have succeeded with **apollo**: its silhouette, optimised in numerous wind tunnel tests, reflects its by far superior capabilities.

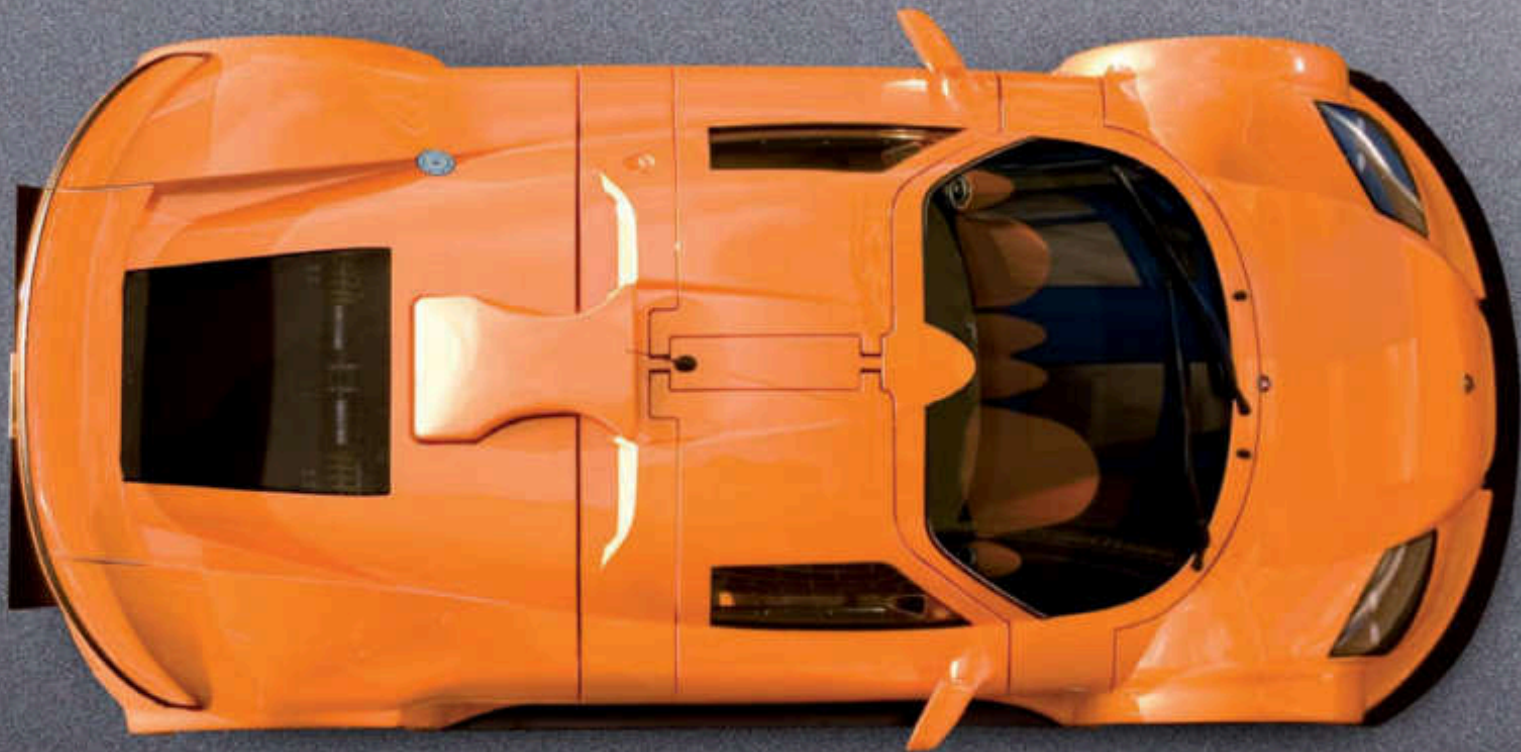
In its profile, the **apollo** dynamic appearance is further enhanced by its dimensions (4.46 m length, almost 2 m width and 1.24 m height) and its streamlined, long and wide shoulder lines. The mid-engine layout is emphasised by the cockpit, which is clearly located toward the front of the vehicle, and the long wheel base; both factors ensure optimum driving qualities. Massive air inlets and outlets in the front and on the side in front of and behind the doors leave no doubt about its potency. Above all, though, they supply the two turbo-chargers and the high-performance braking system with enough



fresh air to ensure optimum operation for the duration of a race. The high-set air intake for the engine is reminiscent of Formula 1 vehicles and emphasises **apollo** racing character. The dominant rear provides a view of the diffuser and the underbody, encased completely in carbon, – which, combined with the front diffuser and flow channels, achieves an exceptionally high negative lift for a road vehicle.

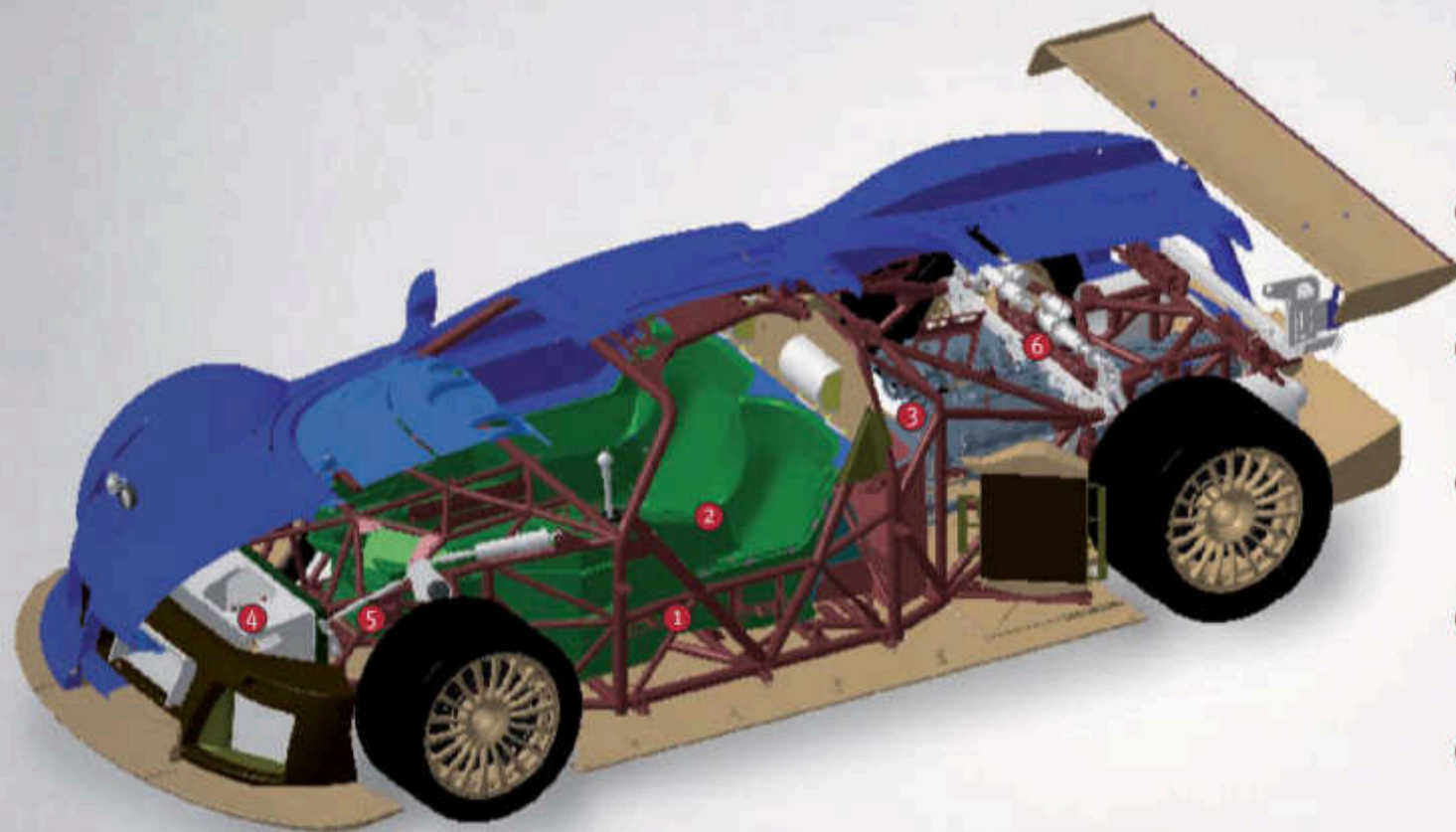
apollo leaves a lasting impression on anyone who sees it:

It symbolises unusual power, dynamism and sportiness. It reflects above-average performance capability paired with timeless elegance, and even when it is not moving, shows that the design can only adhere to function: driving dynamics.



08
09





- 1 The 98 kg (216 lbs.) light-weight frame made of high-strength chrome-molybdenum-steel forms the torsion-resistant base.
- 2 The carbon monocoque with integrated seat mould provides optimum passenger protection whilst only weighing 23 kg (50.7 lbs.)
- 3 The 120 l (26.4 gall. U.K.) stainless steel fuel tank is positioned behind the passenger cell ensuring optimum weight distribution and high crash safety.
- 4 Based on the Formula 1 principle, the crashbox in the front section of the car absorbs the impact energy in case of a crash and also improves the passive safety.
- 5 The suspension elements are linked to the main frame and ensure a responsive reaction and precise handling.
- 6 The drive unit is screwed firmly to the frame, reducing the irritating effects of vibration.

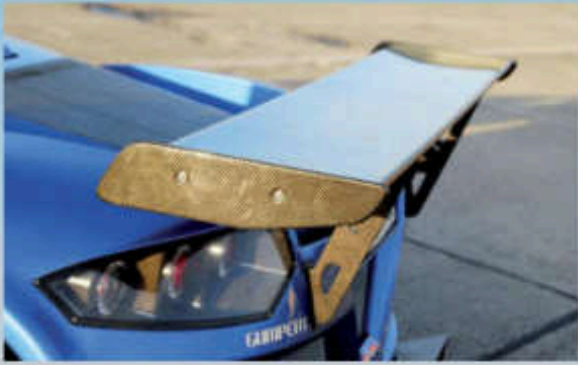
DEVELOPING MAXIMUM STABILITY AND SAFETY WITH EASE.



The secret of **apollo** is an innovative design concept from racing car engineering. The base and symbolic backbone of **apollo** consists a round tube frame made of top-quality and highly stable chrome-molybdenum-steel with an integrated monocoque safety cell made of high quality carbon fibre screwed directly onto the frame. The 161 kg (355 lbs.) construction design is so effective, so torsion proof and bend resistant that it complies



with both the specifications of the European MOT approval and the international manufacture specifications of motor sports (see annex J) of the FIA regulations). **apollo** succeeds in combining low weight with the rigidity of a racing car, finest driving dynamics and maximum safety. The **apollo** is one of the safest and most agile vehicles of its class.



The **apollo** is the perfect synthesis between road vehicle and racing car. It exceeds all expectations with its passion and maximum driving fun. 650 HP, up to 360 km/h top-speed ¹⁾ and an acceleration of 0 to 100 km/h in just 3.0 seconds make it a full-blooded super sports car to which there is no alternative. The complete package is available at a cost-performance ratio unequalled in this exclusive vehicle class.



PERFORMANCE IN A NEW DIMENSION.

The **apollo** is not the only sports car on the market; however its concept is so unique and realised so consistently that it aspires to redefine the standard for this vehicle class. The **apollo** has more to offer:

- Approved both for use on the road and on the track
- Maximum safety in accordance with the international motor racing standards
- Low curb weight of below 1,200 kg (2,645 lbs.) ²⁾
- Perfect road-holding and ultra-precise handling
- Maximum driving pleasure and unbeatable driving performance
- Excellent aerodynamic efficiency and driving dynamics
- Synthesis of reliable racing and series technology
- Unique, futuristic, and striking design
- Best cost-benefit ratio

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Despite the series production process, every **apollo** is unique. It is customized to the owner's wishes and needs and proudly bears his touch. We can also offer you:

- Luxury package with air conditioning, navigation radio with DVD/CD-Player and backwards facing camera with rear-view mirror function
- Car body made of fibreglass (GFK) or carbon-fibre (CFK)
- Carbon fibre for various components and car body parts
- Design variants created by use of different air intakes for the engine
- Carbon rear wing (optional available)
- Engine variants with 650 / 700 / 800 HP output

In addition to these different options and equipment packages, we can of course also accommodate any other special requests made by our customers. Just talk to us.

¹⁾ Depending on the aerodynamic packages used, nominal output and gear ratios.

²⁾ The curb weight is for cars with standard equipment. Special equipment may increase this value.



The consistent achievement of maximum driving dynamics and uncompromising functionality is also visible in the interior design: Every detail was designed according to functional viewpoints equivalent to those of a racing car, yet without neglecting the required amount of comfort and quality.





TAILOR-MADE PURISM AND LUXURY.

Light weight was the top priority and has been achieved through the exclusive use of high-tech materials. The instrument panel, like the monocoque it is integrated into, is made of carbon fibre. The seat buckets, too, are fitted into the monocoque – although you will not find seats in the conventional meaning in the **apollo**. The seat position is adjusted to each customer individually, using padding, upholstery, adjustable pedals, and the steering column. Yet you are not required to forgo proven technology in the **apollo**: air conditioning, high-end navigation system with an integrated reverse camera, CD/DV player and much more are available.

The **apollo** is a tailor-made sports car, and individual masterpiece. In line with this principle, customers can design the interior to meet their preferences, be it pure performance or somewhat more luxurious. Decide the colours and designs yourself, whether leather, seams or embroideries are concerned. We guarantee you a car that will fulfil all of your requirements. Just talk to us.

READY FOR RACETRACK.

A sports car's supremacy is not defined by pure engine power alone: only a car that can put this power on the asphalt and create a balance between all occurring internal and external forces will leave the contestants behind, on the road and the race track. The chassis is the key to this supremacy – and *apollo* has already proven itself spectacularly under the toughest testing conditions on various test tracks, public roads and real racing tracks such as Hockenheim, Imola and the historical "Nordschleife".

The *apollo* is built as a racing car according to FIA GT and ACO regulations upon request.





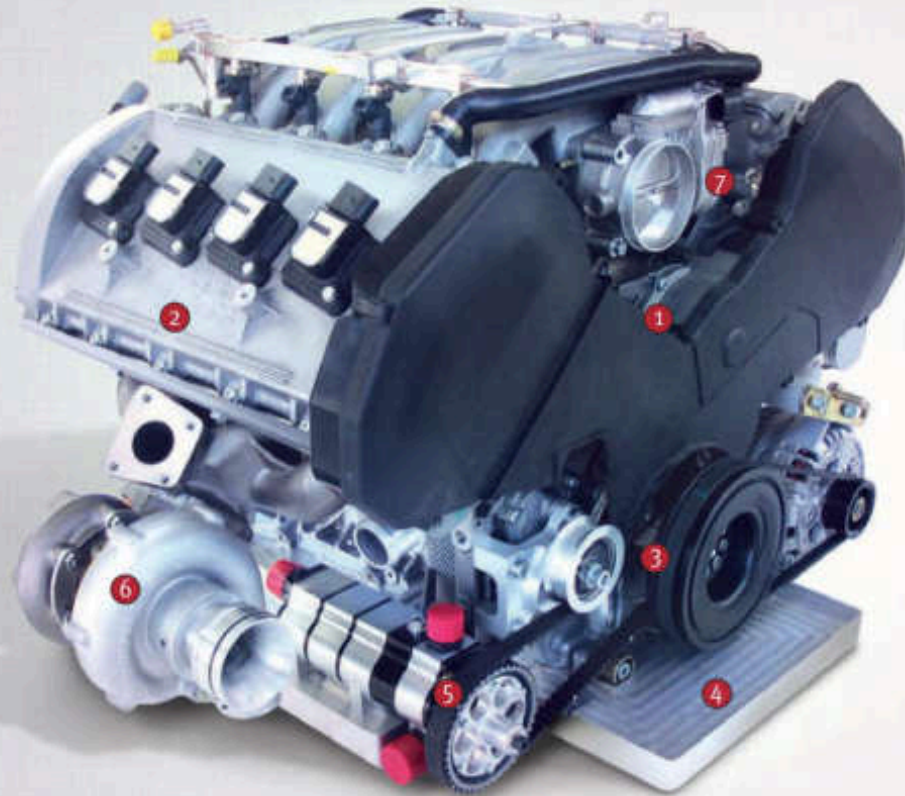
"The *apollo* explodes forwards with sufficient force to send a momentary jolt of fear through your buzzing nervous system." (EVO, 11 / 2007)

Success is one of Gumpert Sportwagenmanufaktur's clearly defined objectives in racing. Naturally the factory benefits from the years of experience in motor sports and the remarkable successes of company owner Roland Gumpert.

The *apollo* made a great third place with the Belgian racing driver, Ruben Maes, in the cockpit at its racing debut at the Divinol Cup in Hockenheim in April 2005.



PROVEN PERFORMANCE IN A NEW DIMENSION.



With its amazing power, the *apollo's* motor fulfils all requirements for the race track, while also meeting all requirements of a driver for the suitability for everyday use of an exclusive sports car.



- 1 The engine block is made of light metal with a cylinder angle of 90°.
- 2 High performance connecting rods and forged pistons are installed in the engine block.
- 3 The forged crankshaft is especially torsion-resistant and has a very low mass inertia.
- 4 The dry sump is racing technology at its best and, together with the oil pressure pump, ensures uninterrupted lubrication.
- 5 The oil pressure pump ensures optimum lubrication of the crankshaft, pistons and connecting rods even in extreme driving situations with high lateral acceleration forces.
- 6 The exhaust gas turbocharger supplies the eight cylinders with compressed fresh air that has been previously cooled to the ideal temperature by two immense intercoolers.
- 7 There are three different engine models available (650 / 700 / 800 HP).



The impressive power of the high-performance eight cylinder engine is based on proven V8-high-performance aggregates from AUDI. In the standard configuration this engine is optimised for use in racing and road vehicles and produces 650HP as a Biturbo engine. Weighing only 196 kg (432 lbs.), it plays a major role in ensuring the ideal weight and fascinating driving dynamics of **apollo**. An angle of 90° between the two cylinder banks is a sign of a classic 8-cylinder engine. Efficient utilisation of its remarkable energy in the back wheels guarantees the fully-synchronised, sequential six-speed transmission that incorporates Formula 1 know-how. The short gear paths allow high speed gear changes. The arrangement of the gears in a longitudinal direction in the path of travel ensures a very low centre of gravity and optimum weight distribution. The characteristic sound of the double-flow exhaust system of the **apollo** with its 3-way catalytic converters says it best – the **apollo** is pure, unbeatable performance as reflected in the data. Like a comet, the **apollo** catapults its pilot from 0 to 100 km/h (0-62 mph) in just 3.0 seconds and only requires 8.9 seconds from 0 to 200 km/h (0-124 mph).

For connoisseurs from whom driving fun does not necessarily equal maximum motor performance and ultimate acceleration, the engine is also ideally suited for day-to-day driving at lower speeds.

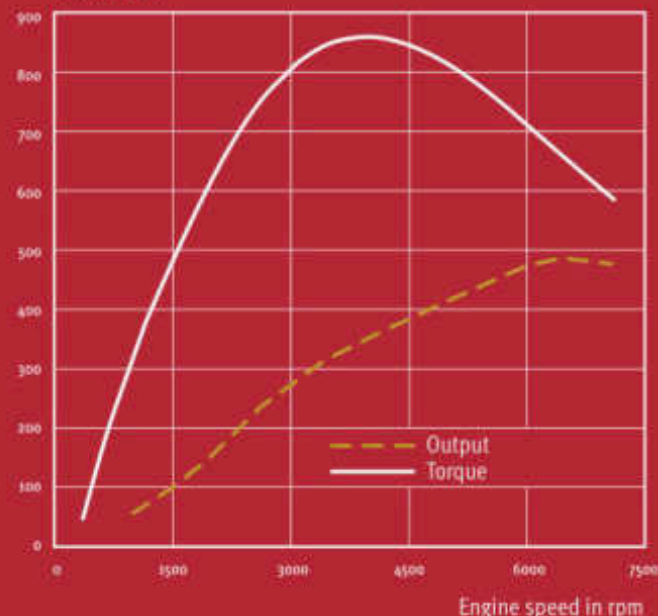
apollo PERFORMANCE DATA

V8-BITURBO

Nominal output kW / HP	478 (650)
Max. torque Nm / lb ft	850 / 626.9
0-100 km/h / 0-62 mph	3.0 s
0-200 km/h / 0-124 mph	8.9 s

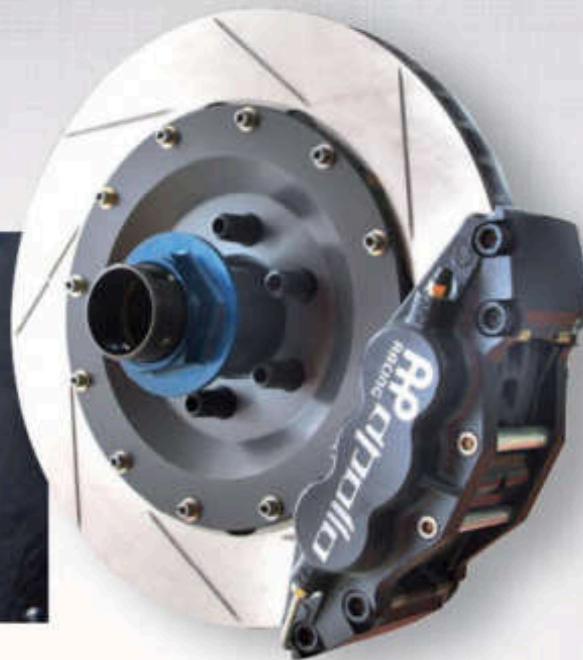
Vmax 360 km/h / 224 mph¹⁾

Output, kW
Torque, Nm



¹⁾ Depending on the aerodynamic packages used, nominal engine output and gear ratios.

DRIVING DYNAMICS REDEFINED.



The **apollo**'s suspension was developed to ideally complement the body's sophisticated aerodynamics. The resulting is unusual driving dynamics. The **apollo** is taut but not hard and provides driver and passenger with an extraordinary level of comfort for a car designed purely for performance. It demands the pilot's unswerving attention, yet due to its ultra-precise and predictable driving characteristics does not overwhelm, even at top speed.

An ideal weight balance of 42 to 58 percent between the front and rear axis rounds it off: It provides optimum traction during acceleration, whilst ensuring stable control even when braking in critical situations.

The **apollo** owes the finely tuned sensitivity of the suspension system and the optimised exertion of power to its double transverse control arm pushrod configuration at the front and back. The double transverse control arms ensure that the tires maintain optimum contact with the road surface, independent of the bound rate of suspension system.

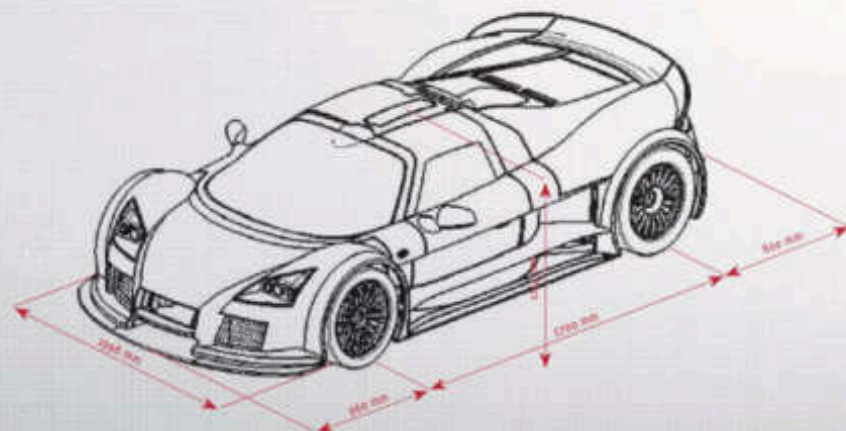
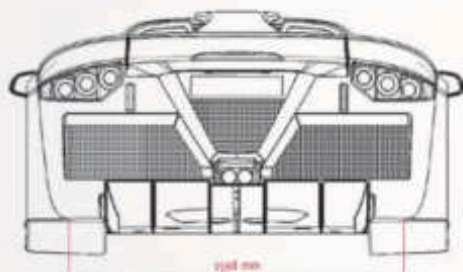
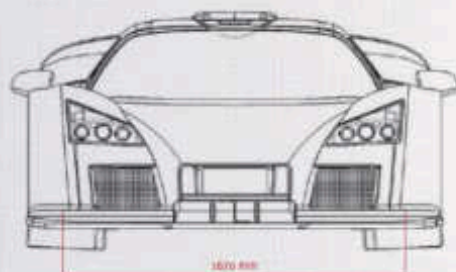
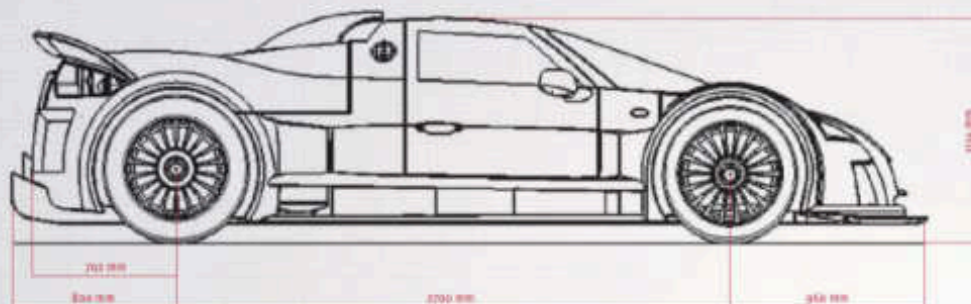
The suspension system allows the owner to seamlessly set the ground clearance in a range between 40 and 120 mm (1.57-4.72 in). Sealed uniball joints ensure that the forces are transferred precisely and with little friction. Stabilisers support the efficiency of the

suspension and pitch compensation prevents the vehicle from diving during braking and lifting during accelerating. Despite its low trim, the **apollo** provides long wheel travel in compression and rebound, facilitating the finely-tuned and precise functioning of the absorbers and springs.

The high level of driving dynamics is supported by an agile electro-hydraulic power steering system that provides the driver with direct feedback. In order to securely transfer the 850 nm torque to the road, **apollo** has a traction control system (TCS) used in motor sports. Developed together with the company Racelogic, the permitted slip can be accurately set on the rear axle – according to the drivers wishes. An optional launch control, adjusted to the **apollo** especially, ensures swift starts like those of Formula 1. The **apollo**'s driving performance is controlled with a 2-circuit high-performance braking system with adjustable 3-level Bosch-ABS, 378 mm (14.9 in) ventilated discs, and 6-piston callipers on the front and rear axle.

All of these are primary technical principles, the sportive orientation of which could not be clearer. Thanks to its suspension, the **apollo** proves itself in every curve: it redefines the term 'driving dynamics'.

TECHNICAL DATA



2-seater sports car with a mid-engine arrangement chrome-molybdenum steel chassis with an integrated carbon monocoque as safety cell, gullwing doors, fibreglass body, 120 l (36.4 gall., U.K.) stainless steel tank behind the passenger cell with integrated catch tank, long and pushrod-operated double transverse control arm suspension with fully adjustable dampers front and rear and anti roll bar in front, ground clearance adjustable between 40 and 120 mm / 1.57-4.72 in, two circuit Bosch-ABS brake system with six piston callipers, inside ventilated discs (378 x 32 mm / 14.9 x 1.26 in) all around, brake cooling system in the front, and presets for wet, dry, and race conditions

DIMENSIONS

Length	mm / in	4,460 / 175.6
Width	mm / in	1,998 / 78.6
Height	mm / in	1,116 / 43.8
Wheel base	mm / in	2,700 / 106.3
Wheel gauge front - back	mm / in	1,670 / 65.7 - 1,598 / 62.9
Boot volume	l	100

WEIGHT

Kerb weight ¹⁾	kg / lbs	below 1,200 / 2,645
Allowed total weight	kg / lbs	1,500 / 3,306
Approved axle load front - back	kg / lbs	650 / 1,452 - 900 / 1,984

MOTOR

VB-cylinder Biturbomotor with 90° cylinder angle, Closed Deck light metal crankcase, light metal cylinder heads with five valves per cylinder, four overhead camshafts, variable time of ignition (Vario Cam direct) on the intake, hydraulic valve clearance compensation, dry sump lubrication, double-flow exhaust system with 3-way catalytic converter, four Lambda probes for gas mixture and diagnostics, On-board diagnostic system, Intercooler, engine management ME7.1.1, electronic ignition with a rested ignition distribution (eight ignition coils), sequential multipoint fuel injection, electronic accelerator system (drive-by-wire)

Cylinder / type / valves per cylinder		8 / 90° - V / 5
Cubic capacity	cm ³ / in ³	4,365 / 254
Stroke - bore	mm / in	93/3.66 - 84.5/3.32
Nominal output	kW/HP at rev/min	478/650 at 6,500
Maximum torque	Nm/lb ft at rev/min	180/626.9 at 4,000 Already 820 Nm at 2700 rev/min
Maximum rev	rev/min	7,200
litre performance	kW/l / HP/l	114.8 / 156
Compression ratio / recommended fuel type		9.3/1 / 98 ROZ / 88 MOZ
Emission standard		Euro 4

GEARBOX

Sequential six-speed gear box with synchronisation and oil cooling, twin plate clutch configuration (diameter 200 mm / 7.87 in each), Differential lock by Torsen, custom-made gear ratios

PERFORMANCE FIGURES

Top speed ²⁾	km/h / mph	max. 360 / 224
Acceleration 0 - 100 km/h / 0 - 62 mph	s	3.0
Acceleration 0 - 200 km/h / 0 - 124 mph	s	8.9

WHEELS

Tire dimension front / back		255/35ZR19 / 345/35ZR19
Wheel dimension front / back		101 x 19 / 131 x 19
Wheel rim type		Aluminium cast wheels with centre lock

1) The kerb weight is for cars with standard equipment. Special equipment may increase this value.

2) Depending on the aerodynamic packages used, nominal engine output and gear ratios.

OUR PARTNERS

Apollo Germany Limited

APOLLO GERMANY LIMITED www.apollo-germany.de

The company Apollo Germany Limited is our reliable partner for top-quality car paints and competent repair service management.



ATS www.ats-wheels.com

The ATS group is one of the leading specialists for the development and production of light metal wheels for series vehicles and for motor sports.



BFFT www.bfft.de

The spectrum ranges from process support in all development areas to the takeover of complete projects regarding future technology for the automobile and aviation industries. We work closely with BFFT in the technical support for automotive electronics and electrical system.



BOSCH

BOSCH www.bosch.de

The Bosch group is a leading international manufacturer of automobile components and systems and cooperates with us on ABS / TCS systems.



EIBACH www.eibach.de

For decades, Eibach has set itself the task of combining 'tradition and attraction' in the sports chassis market, i.e. optimum handling in the required look using high-quality technologies.



HS GENION www.hsgenion.de

HS GENION www.hsgenion.de

This company of the Webasto group has successfully proven many times that it is capable of realising innovative ideas for tomorrow's cars.

KBF

Kabelbaumfertigung GmbH www.kabelbaumfertigung.de

KBF Kabelbaumfertigung GmbH provides many nationally and internationally renowned manufacturers of the automotive and commercial vehicle industry with its products and services. The **apollo's** cabling measures 4,2 km. It was developed in close collaboration and is supplied by KBF now.



KW www.kw-gmbh.de

KW automotive GmbH is one of the leading manufacturers for sport suspension systems (suspension / absorption). Today the company has the largest selection of adjustable suspensions and is a market leader.



MERO TSK www.mero.de

Born of an idea that aimed to provide the construction sector with economic and innovative individual solutions using industrial prefabricated series elements, Dr. Max Mengerhausen developed the Mengerhausen tube system.



PIRELLI www.pirelli.de

The world brand Pirelli is one of the absolute market leaders in the tire segment and is an innovator for road and racing tires.



TRW www.trw.de

TRW is the world market leader and specialist for active and passive vehicle safety systems. We work closely with this company to develop our steering and braking systems.



TU MÜNCHEN www.mw.tu-muenchen.de

The driving technology chair at the Technical university of Munich held by Professor Bernd Heißing is one of the leading chairs in the fields of virtual prototyping, vibration technology and driver-vehicle interaction.



WIDOS www.widos.de

WIDOS has been a leading supplier in welding plastic tubing and moulded parts for a long time.



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Some of the vehicles shown in this catalogue are fitted with special accessories at an extra charge. The information relating to the delivery scope, measurements and weights, fuel consumption and operating costs of the vehicles are valid at the time of printing. The same applies to all illustrations. Data may be subject to changes.

All information is dated February 2008

