



SPANO

GTA Spano

“A date with history”

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Introduction

“There was a time without time, where the moon shone high in the sky. One night, absent-mindedly, she approached the Earth and got caught in the branches of a tree.

From the Darkness, a wolf appeared, projecting its Majestic shadow on to the hill. Howls and moonlight were witnesses of their relationship. But all stories come to an end, and the wolf returned to the wood while the Moon climbed back up into the sky”.

As legend has it on this magical night, the wolf caught the shining of the moon in its eyes, and the moon stole the wolf’s shadow to be dressed at night. Since that time, the wolf howls at the Moon for it to return his shadow.”

Following the example of the large automobile industry companies, an animale figure was chosen as the GTA symbol, in this case the wolf being a symbol of light which represents the qualities of strength and courage. Besides, this animal happens to be the symbol of the coat of arms of the founder’s and company owner’s surname, Domingo Ochoa. Of aquitano origin, the surname Ochoa comes from Otxoa, and from the word Otsoa, meaning wolf. The logotype also depicts a red and white chequeres flag, these being the distinguishing marks of GTA Motor with more than 15 years’ motorsport competition behind it.

With the Spano’s construction, GTA Motor intended to go down in history in Spain and around the world, by following with the legend of sports cars manufactured by other Spanish mythical makes. Nowadays they are considered masterpieces, and are very much appreciated by collectors and at times, are of an incalculable value. Spano was born as the fastest and most powerful automobile ever built in Spain for commercial purposes. In short, it is the car that will mark an era.

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Main features

- **Amazing design**
- ***Development of several world patents***
- ***Chassis made out of carbon fibre, titanium and Kevlar***
- ***The only car in the world, built from materials based on aeronautical technology***
- ***The fastest and most powerful automobile built in Spain for commercial purposes***
- ***Glass roof with its exclusive lighting and opaqueness system***
- ***V10 Engine, 8,3 litres and 780 hp, and 840 hp in the bioethanol version (optional)***
- ***Fully equipped***
- ***Manual sequence gearbox, automatic sequential with paddle shift or manual in H***
- ***Exclusively guaranteed with only 99 models manufactured***

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Project

After 15 years of top automobile motorsport, five years ago GTA Motor decided to go one step forward and make director Domingo Ochoa's dream come true; build a super sports car that combines all the automobile technology with perfect, sportsmanship, elegance and exclusivity.

So, Ochoa, with more than 30 years' experience in the automobile sector, Ochoa set the basis to accomplish his project, a leading Spanish super sport car in an attempt to combine the select and reduced club of handicraft constructors.

The technological experience and the development of applied innovations, became the basic factor of this project, and contributed revolutionary technical solutions in the automobile sector.

The use of new technologies in several components led to a more ecological product than other, similar products presently in the market. GTA intends to convert this technological transfer into a launching point for a new pioneering automobile industry in Spain.

Designed by GTA Motor's engineering director, Valencian-born Sento Pallardó, the GTA Spano boasts the most advanced technology, innovative aesthetics, studied aerodynamics and a good number of solutions for the future, all of which are capable of competing with international prestigious brands in terms of image and performance.

As a sign of its exclusivity, only 99 models of this extraordinary super sport car will be built to order and several world patents have been obtained. Indeed it is a car that is the beginning of an industry which leads to job creation and also to the transfer of the resulting technology to other sectors of society.

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Design

GTA Motor's design department, directed by Sento Pallardó, has strived to create a unique automobile that does not resemble other cars in any way. In this way, a preliminary design has been evolving until the present-day, which has succeeded in combining sportsmanship, elegance and exclusivity in a single concept. In other words, a very different style to that which currently exists in the international automobile scene.

One of Spano's main distinguishing characteristics lies in its lateral view, where the doors fit perfectly into the air intakes, which apart from performing an aerodynamic function, refrigerate elements such as oil coolers, power-assisted steering and brakes, among others. Its design is original, never seen to date, this being yet another distinguishing mark of Concept. As in all true sports cars, the doors have no doorframes.

Access to the interior is accomplished by pressing the GTA logotype, rendering it a more elegant design without the traditional handles.

In its frontal view it affords it with a strong personality along with its two large lateral air intakes and its convex bonnet, completed with an aerodynamic streamlining zone to facilitate the air flow, providing it with an athletic look.

At the rear, the design department has attempted to create the best way to channel the air that flows under the car. The resulting effect is a rear design with plenty of character, marked by the use of glass, which has small openings that perform a refrigeration function for the engine. The wing fits perfectly into the design with under-air channelling, while the two air intakes and the twin exhaust system emphasise the vehicle's sport character. There is a rear barrel to channel air and to improve the aerodynamic load.

The design for the wing mirrors has been a framework with carbon fibre finished with a wing-like airm, built in aeronautical mechanised aluminium.

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The large glazed surface, affords the vehicle a strong quality, which is another of its distinguishing traits. The vehicle has a patented system of interior lighting and liquid crystal shading and the degree of light required inside may be regulated. Its completely novel sun visors are set into the glass and boast the same technology.

The electrically operated windows have been made according to the latest technology, in such a way that the tracks are maintenance free and work problem free at various temperatures.

The wheels, in 19" at the front and 20" at the rear, are characterised by their angular shape. They have been designed specifically for this model. Their design is exclusive for this car with offers a continuousness effect, with the chassis. There is a flat exterior part that performs an aerodynamical function, offering greater resistance and involving less weight.

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Interior Design

The interior design has been one of the best kept secrets of the project. High quality materials such as leather and carbon fibre, aluminium and titanium have been used. Ample space is another of its characteristics and a person over 2 meters in height can be seated without problems.

The design of the dashboard feigns the lateral part of the car, and provides the interior with much character. The instrument panel is distinguished by an LCD screen, which can be personalised according to the customer's requirements and provides all the necessary information. The steering wheel is made out of carbon sportsmanship of this vehicle. A joystick is located behind the steering wheel to operate elements such as lights wipers and indicators.

One of Spano's innovations is that it has no central rear-view mirror, rather a rear camera that projects on to an LCD screen which is perfectly located on the dashboard. It also has a large angular camera to facilitate parking manoeuvres. This camera automatically connects after locking the rear gear. The interior lights also use LED technology.

The GTA has two boots, one 100 litre one at the front and one 200 litre one at the rear, which are certainly not out of place for an automobile of such characteristics. The front boot has a reverse opening system to make the task of entering luggage easier.

There are also two glove compartments, one located on the co-driver's side and the other smaller one in the centre compartment. It also has practical compartments in both doors.

The interior colours range varies according to the customer's preferences.

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Equipment

Quality and elegance are the main characteristics of the GTA interior design which is also fully equipped.

- Sport seats
- Electronically regulating seats, with a heating and refrigeration system
- Leather trimmings with GTA anagrams
- ABS
- Wheel driving Control
- An active suspension control system which electronically self regulates and programmes the height of the suspension
- Electronic system powerful control
- Exclusive digital dashboard
- Xenon
- Navigator
- CD charger with MP3
- iPod Connection
- Bluetooth
- Electronically regulating windows
- Air conditioning
- 19" wheels at the front and 20" at the rear
- Exclusively designed 255/35 tyres at the front and 335/30 at the rear
- Carbon ceramic manufactured AP Racing brakes system with 6 piston callipers
- Self-regulation rear wing
- LED Technology
- Electrically regulated of exterior rear view
- Steering wheel with three carbon-made spokes
- Central locking
- Electrical handbrake
- Glass roof with patented lighting and opaqueness system
- Electrical sun visor
- Angular camera for parking manoeuvres
- Laminated windscreen and non-frost glass
- Anti theft alarm and GPS location system
- Central locking with distance control
- Remote-controlled boot opening
- Reverse boot opening trunk to make placing luggage inside easier
- Exclusively designed suitcases with GTA anagrams

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Engine

GTA has developed a special engine for this car, and has opted for a V10, 8,3 litre engine placed in a longitudinal rear position. It has 780 horsepower and 920 Nm torque. As an extra option, the Concept is also available in a Bioethanol version, which increases the power to 840 hp.

The GTA technicians have worked hard to enhance the compressor, so that GTA achieves amazing performances, at a top speed of over 350 km/h with acceleration from 0 to 100 Km/h in under three seconds. These figures place it directly among the five fastest cars commercialised in the world. The precision of the engine's control unit helps the engine to offer and increase in power progressively under all circumstances.

Spano also has an electronic power control system, provided according to customer's wishes, which regulates power from a minimum of 450 cv to the maximum power.

The gearbox is available in three options, all of which have seven gears: automatically sequential or automatically sequential with a paddle shift steering wheel or manual in H.

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Chasis and dinamyc performance

The chassis has been one of aspects on wich special emphasis has been places while constructing Spano. The most state of the art technologies has been applied to the automobile world, thus achieving Spano to be the first car in the wold with aeronautical components, which makes it a reference in the automobile scene.

The chassis has been built completely out of carbon fibre, titanium and Kevlar, whose a rigidity is four times greater than that of many of the presently commercialised super cars, which offers the best safety level. With this technology, the weight of the monocasc is only 56 kg, while the total weigh is 1350 kg, with all the liquids and the most convenient equipment on board.

Aerodynamics is another of the most important factors to be taken into account when designing GTA. With a CX of 0,35 and a CL of 2,35 with the set rear wing,GTA is one of the best available in this section.

Thanks to its especial chassis outline and the materials used, GTA has a large traction capacity and is easy to drive, which is unlike what one might think of a car whose power is close to 800 hp. In this case, it offers a turn ratio of 10,8 meters to assist driving which makes very impressive manoeuvrability.

To bring this huge potential to a standstill, GTA's braking system includes 380 mm diameter carbon ceramic ventilated disc brakes and 6 piston callipers supplied by AP Racing, with pneumatic assistance and ABS. GTA Spano also has a sophisticated traction control system.

The tyres are manufactured exclusively for this car by Pirelli: 255/35 on a 19" front wheel and 330/35 on a 20" rear wheel .

Spano also offers an electronic, programmable self-regulating absorption assistance, whic is capable of raising the car by up to 8 cm, to avoid irritating potholes and the regular speed bumps on roads. It also has a twin trapezium suspension, which enables all kinds of regulations.

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Distribution

GTA has come to distribution agreements with the most important companies in the world automobile scene. GTA has dealers in countries such as China, United Arab Emirates, USA, Russia, Germany and Italy. Nowadays, pre-agreements in another countries exist with a view to increasing and consolidating the distribution chain.

GTA's maintenance and after-sales service exclusivity are defined by firms with ample experience wich fulfil all the requirements expected by GTA. In short it has sought the maximum quality in all the brand's actions with no discrimination per geographical area.

Partners

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Technical data

ENGINE

Position: Central rear longitudinal

Number of cylinders: . GTA supercharged V10

Cylinder capacity:8.300 cm³

Feed: fuel

Maximun powerful:hp/rpm: 780/6300 840/6250 (Bioetanol)

Torque (nw): 920

CHASIS AND BODYWORK

Structural monocoque used carbon fibre,honeycomb,Kevlar and titanium

Carbon fibre bodywork

Official weight: 1350

Fuel tank (litres):120

Boot: 100 (front) 200 (rear)

DIMENSIONS

Length/Width/Height/Gauge (metres):4,65/1,98/1,20/2,8

TRANSMISSION

Traction: Rear wheel driving

Gearbox: manual sequential with 7 speed, automatically sequential with paddle shift or manual in H,

SUSPENSION

Double wishbone configuration

Regulating geometrical system

Electronically regulated wing

Wheels: 19 x10 front/20x 13 rear

Tyres; 255/35 ZR19 and 330/35 ZR20

Electronic shock absorber with height regulation

Vehicle height regulation

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BRAKES

Carbon-ceramic brake system
Forced ventilation system
6 piston callipers AP Racing
ABS system

AERODYNAMICS

Wind Tunnel Developer ¼ scale model
Floor with lower Venturi tunnels
Maximum stability with minimum cx

PERFORMANCE

Maximum Speed of more than 350 Km/h
Acceleration from 0 to 100 km/h in 2,9 seconds

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