



## Press Release

### Lamborghini Reventón Roadster - ultimately open

#### Designer piece with uncompromising performance

Sant'Agata Bolognese, 14<sup>th</sup> September 2009 - Lamborghini presents the ultimate driving machine among open-top two-seaters - the Reventón Roadster is a sports car of breathtaking fascination, menacing power and uncompromising performance. The 6.5 liter twelve-cylinder generates 493 kW (670 PS), catapulting the Roadster from 0 to 100 Km/h (0 to 62 mph) in 3.4 seconds and onwards to a top speed of 330 KM/h (205 mph). The open-top Reventón is not only one of the fastest, but also one of the most exclusive cars in the world - Lamborghini has limited the series.

The Lamborghini Reventón is not destined to remain a one-off. Less than 20 Lamborghini friends and collectors will be able to own this extraordinary car and, naturally, enjoy the incomparable pleasure of driving it.

Each Reventón Roadster will be sold for 1.1 Million Euro (without taxes). Deliveries will begin October 2009.

"The Reventón is the most extreme car in the history of the brand," comments Stephan Winkelmann, President and CEO of Automobili Lamborghini S.p.A. "The new Roadster adds an extra emotional component to our combined technological expertise - it unites superior performance with the sensual fascination of open-top driving." The Reventón Coupé was presented at the 2007 IAA in Frankfurt and was sold out immediately.

Open-top sports cars are a tradition at Lamborghini that stretches back over 40 years. In 1968, the company from Sant'Agata Bolognese built a Miura without a fixed roof as a one-off. The Diablo Roadster appeared in 1995 with its targa roof anchored to the engine cover.

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## **Sculpture with extreme dynamics**

All Lamborghinis are created with an avantgarde approach to design; a fast-moving technical sculpture. The Reventón Roadster is derived from the same creative thinking as the Coupé. Its designers found their inspiration in aviation - the aggressive wedge shape evokes images of fighter jets.

The powerful arrowhead form at the front, the mighty air intakes pulled way forward, the broad side skirts, the upwards opening scissor doors and the rear end with its menacing edges - the Roadster is clad in a design of maximum functionality and spectacular clarity. Details set stylish accents, such as headlamps featuring bi-xenon units with LEDs forming the daytime running lights and indicators. The rear lamps are also equipped with LEDs.

Like the Coupé, the Reventón Roadster measures 4700 mm (185 in.) long. It has a wheelbase of 2665 mm (105 in.) and is 2058 mm (81 in.) wide and 1132 mm (45 in.) high. The driver and passenger seating positions are low and sporty, separated by a substantial central tunnel.

Behind the two seats are two hidden pop-up bars that deploy upwards in just a few hundredths of a second in the event of an imminent rollover. A fixed, horizontal wing-shaped member behind the seats bears the third brake light. The design of the Roadster's long back is also quite distinct from that of the Coupé. The engine bonnet is virtually horizontal and a total of four windows made from glass provide a view of the mighty V12 in all its technical elegance.

## **Stiff bodyshell base**

The base bodyshell of the Reventón is already so stiff that the Roadster requires only minimal reinforcement. It has a dry weight of only 1690 Kg (3,725 lbs.), just 25 Kg, (55 lbs.) more than the Coupé.

Like the Coupé, the cell of the Roadster is made from high-strength steel profile and carbon components joined with specialist adhesive and rivets. The bodyshell is made almost entirely from carbon fiber elements, with sheet steel used only for the outer door skins.



## Exclusive grey paintwork

A unique paint finish completes the razor sharp design language of the Lamborghini Reventón Roadster. For this exclusive special edition, designers have created a new shade of matt grey called Reventón Grey. As for the Reventón Coupé, which is a slightly different shade of grey, this is a matt paint finish that, in the sunlight, displays an unexpected impression of depth thanks to its special metal particles.

The wheels of the Reventón Roadster also incorporate the interplay of matt and glossy elements. The five spokes of the rims each bear a Y-form, and on each spoke are mounted small crescent-shaped wings made from matte carbon. These provide not only an unusual visual impact, but also a turbine effect that further improves cooling of the mighty ceramic brake discs.

## Aircraft-style displays

The interior of the Reventón Roadster conveys the same powerful design as the exterior. The cockpit is structured with technical clarity, the interfaces arranged for functionality. Like a modern aircraft, the open two-seater no longer has classic analogue instrumentation - instead, information is delivered via two transreflective and one transmissive liquid-crystal displays.

The driver can switch between two modes at the touch of a button - one digital view with illuminated bars and one level with classic round dials, albeit with changing color graphics. Centrally located at the top of the display is the G-force meter. It represents the intensity of the forces acting on the Reventón Roadster under acceleration, braking and heavy cornering; the same format used in Formula 1.

The instruments are mounted in a casing machined from solid aluminum which is housed in a carbon fiber dashboard. The interior displays uncompromisingly clean craftsmanship and features a host of carbon fiber applications - e.g. on the center tunnel - aluminum, Alcantara and leather. The central panels and the seat cushions are perforated, with precision stitching gracing their outer edges.

Lamborghini has equipped the Reventón Roadster with full options.



## **An icon of engine design**

The twelve-cylinder engine that powers the Reventón Roadster is a Lamborghini icon - and the technical feature that defines the character of the car. It is one of the world's most powerful naturally-aspirated engines. With a compression ratio of 11 : 1 and a displacement of 6496 cc (396.41 in<sup>3</sup>), it generates 670 PS (493 kW) at 8,000 rpm. Its maximum torque of 660 Nm (487 lb-ft) kicks in at 6,000 rpm.

The V12 engine is a masterpiece of Italian engineering. Two chains drive its four camshafts that, in turn, operate the 48 valves. Together with the three-phase adjustable intake manifold, the variable valve timing delivers a meaty torque build-up. Dry sump lubrication ensures that the hi-tech power unit has a constant supply of oil, even under heavy lateral acceleration. The absence of the oil sump means a low mounting position - benefitting the car's outstanding handling characteristics.

The V12 catapults the Reventón Roadster from 0 to 100 Km/h (0 to 62 mph) in 3.4 seconds and onwards to a top speed of 330 Km/h (205 mph). It reacts with the eagerness of a racing engine to input from the right foot, revving to 8,000 rpm and beyond, and performing a symphony that sends shudders along the spine. The deep booming bass, the powerful mid-range and the exultant horn section play music that, once heard, can never be forgotten.

## **All-wheel drive for maximum traction**

In classic Lamborghini style, the aluminum engine is mounted longitudinally in front of the rear axle, with the transmission ahead of it beneath the center tunnel. This layout results in 58 percent of the overall weight being borne by the rear wheels - ideal for a powerful sports car.

This layout accommodates the Viscous Traction permanent all-wheel drive. Under normal conditions, it sends the vast majority of the driving force to the rear wheels. Should they begin to spin, the central viscous coupling sends up to 35 percent of the power via an additional shaft to the front axle. Limited-slip differentials are located there and at the rear axle with 25 and 45 percent lock respectively.

Lamborghini introduced the all-wheel drive principle with the Diablo. The reason back then was just as clear as it is today - four driven wheels grip far better than



two, and the more powerful the engine, the greater the impact of this fundamental law of physics.

Also standard on the Reventón Roadster is the e.gear automated six-speed sequential manual transmission. The driver controls the gear shift, which is activated hydraulically via two steering wheel paddles. In addition to the "Normal" mode, the system offers a "Corsa" and a "low adherence" mode. The driver just has to keep his foot to the floor - the rest is handled by e.gear.

### **Running gear layout from motorsport**

The Reventón Roadster keeps the extreme power of its engine in check with a running gear layout derived directly from motorsport. Each wheel boasts double wishbone suspension, with one spring strut on each side of the front axle and two each at the rear. The front end of the car can be raised by 40 mm (about 1.6 in.) to protect the underside of the vehicle over potholes or on steep entrances into underground garages.

The open two-seater runs on 18-inch wheels. The front tires measure 245/35, while the rears are 335/30. Dedicated air channels in the bodyshell cool the four wheel brakes. Carbon-fiber ceramic discs are standard - they have an extremely lightweight construction, operate with virtually no fade, are corrosion-free and achieve the highest service life. Each disc has a diameter of 380 mm (~15 in.) and is gripped by six-piston calipers.

As fast as the open two-seater may be, its road manners are impeccable. Its performance limits are extremely high, yet effortless to control. And, on exiting a bend, all four wheels stick tenaciously to the asphalt. The permanent all-wheel drive dovetails the car firmly with the road, delivering decisive benefits in traction and stability.

### **High-performance aerodynamics**

A further distinctive characteristic of the Reventón Roadster is its calm directional stability even at extremely high speeds - a feature that also turns fast highway stretches into sheer joy. Alongside the bodyshell design and the smooth underbody, which culminates in a powerfully formed diffuser, the rear spoiler carries responsibility for downforce. It deploys from the rear edge at about 130 Km/h (80 mph) and adopts an even steeper angle as of about 220 Km/h (136



mph). The entire aerodynamic concept - around and through the car - is radically laid out for performance.

### **State-of the-art development techniques**

Lamborghini used state-of-the-art, highly networked processes to bring the Reventón Roadster to life. The design, CAD work and model making that took place in the Centro Stile, which opened in 2004, were accompanied continuously by specialists and test engineers from the Research & Development Department.

The Design Department is directly linked to the neighbouring Ufficio Tecnico, ensuring rapid implementation of ideas. Lamborghini's capabilities also include the independent development of the complete electronic platform. This incorporates all control units - including those for the V12 and the innovative cockpit displays.

All units of the Reventón Roadster are being built on the Sant'Agata Bolognese production line, with perfect craftsmanship and to the highest levels of quality.



## Technical Data

### Frame

High strength tubular steel structure with carbon fibre components.

### Bodywork

In carbon fibre, except door external panels (steel)

### Steering

Type	Mechanical (rack and pinion) power-assisted
Right-hand turning circle	12.55 m (41.17 ft)

### Wheels and tyres

Front	245/35 ZR 18
Rear	335/30 ZR 18

### Engine

Type	12 cylinders at 60°
Bore and stroke	88 mm x 89 mm (3.46 in x 3.50 in)
Displacement	6496 cc (396.41 in <sup>3</sup> )
Compression ratio	(11 ± 0.2):1
Maximum power	670 PS, 493 kW at 8000 rpm (guaranteed through the engine selection)
Maximum torque	660 Nm (487 lb-ft) at 6000 rpm
Engine position in vehicle	Longitudinal central-rear
Cylinder heads and engine block	Aluminium
Intake system	Variable geometry with 3 operating modes

### Timing

4 valves per cylinder, 4 overhead camshafts	
Timing gear transmission	2 chains
Continuous timing variation (int. and ex.)	Electronically controlled

### Ignition system

Static type ignition system with individual coils (one for each spark plug).

Firing sequence 1-7-4-10-2-8-6-12-3-9-5-11



### Fuel system/injection

Lamborghini LIE electronic engine control unit, multipoint, sequential timed, DRIVE BY WIRE
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### Lubrication system

Type	Dry sump
Scavenging pumps	2 gear pumps
Delivery pump (high pressure)	1 gear pump

### Cooling system

Type	Liquid cooled, with pressurized circuit
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### Transmission

Type of transmission	Permanent all-wheel drive with Viscous Traction system
Gearbox	E-gear
Clutch	Dry single disc
Clutch disc diameter	272 mm (10.7 in)
Disengagement	With self-adjusting hydraulic control

### Transmission ratios

Gearbox:	
I <sup>st</sup>	1:3.091
II <sup>nd</sup>	1:2.105
III <sup>rd</sup>	1:1.565
IV <sup>th</sup>	1:1.241
V <sup>th</sup>	1:1.065
VI <sup>th</sup>	1:0.939
Reverse	1:2.692

### Brakes

4 self-ventilated rotors with pedal control, hydraulic transmission with dual independent circuits, one for each axle with vacuum servo. ABS antilock device + DRP function.	
Handbrake	Mechanical, acting on rear wheels
Ceramic rotors system	
Front rotor	Ø 380 x 38 mm (Ø 14.96 in x 1.5 in)
Front calliper cylinders	N. 6 (32-36-38 mm) (1.26 in-1.42 in-1.5in)
Rear rotor	Ø 380 x 38 mm (Ø 14.96 in x 1.5 in)
Rear calliper cylinders	N. 6 (32-36-38 mm) (1.26 in-1.42 in-1.5in)



## Suspension

4-wheel independent articulated quadrilateral system. Hydraulic shock absorbers and coaxial coil springs. Suspension with dual front and rear struts, anti-roll, anti-dive and anti-squat bar.

## Performance data

Top speed	330 km/h (205 mph)
Acceleration 0-100 km/h (0-62 mph)	3.4 s

## Dimensions

Wheelbase	2665 mm (104.92 in)
Total length	4700 mm (185.04 in)
Total width	2058 mm (81.02 in)
Total height	1132 mm (44.57 in) (without roof) 1134 mm (44.64 in) (with roof)
Dry weight (no fuel)	1690 kg (3725.8 lb)
Front track width	1635 mm (64.37 in)
Rear track width	1695 mm (66.73 in)
Front overhang	1080 mm (46.46 in)
Rear overhang	955 mm (37.60 in)
Maximum overall width with external rear-view mirrors	2240 mm (88.19 in)

## Liquid capacities (litres)

Fuel tank	100 litres (26.4 gal)
Engine oil	12 litres (3.17 gal)
Gearbox oil	3.5 litres (0.92 gal)
Front differential oil	1 litre (0.26 gal)
Rear differential oil	2.5 litres (0.66 gal)
Cooling circuit	15 litres (3.96 gal)

## Consumption (according to DIR 2004/3/CE)

Urban	32,3 l/100km
Extra-urban	15,0 l/100 km
Combined	21,3 l/100 km
CO2 emissions	495 g/km

(following EPA regulation)	e.gear only	City	10 mpg
		Highway	16 mpg
		Combined	12 mpg