



## Press Release

### The Lamborghini Aventador LP 750-4 Superveloce The purest essence of a Lamborghini super sports car

Automobili Lamborghini S.p.A.

- **More power: enhanced V12 naturally aspirated engine with 750 hp at 8.400 rpm**
- **Less weight: 50 kg reduction through lightweight engineering solutions, with substantial use of carbon fiber**
- **A new dimension in performance and driving dynamics:**
  - **Improved drivability through further optimized aerodynamic balance**
  - **Perfect control through pushrod suspension with magneto-rheological dampers and Lamborghini dynamic steering**
  - **Acceleration 0-100 km/h in 2.8 seconds, top speed of more than 350 km/h**
- **Result: the fastest and most emotional series production Lamborghini**

*Sant'Agata Bolognese / Geneva, 02.03.2015* - Automobili Lamborghini presents the Lamborghini LP 750-4 Superveloce at the Salon de l'Automobile in Geneva.

With increased power, lower weight, improved aerodynamics and innovative technologies the Lamborghini Aventador LP 750-4 Superveloce is the most pure incarnation of a Lamborghini to date: unmistakable Lamborghini super sports car DNA, dynamic superiority and exceptional driving precision. A focus on weight reduction while incorporating innovative technologies has resulted in the most sports-oriented, fastest and most emotional series production Lamborghini ever. The weight has been further reduced by 50 kg through enhanced lightweight engineering including significant use of carbon fiber. The naturally aspirated V12 engine's power is increased to 552 kW/750 hp. This results in a power-to-weight-ratio of 2,03 kg/hp. The Superveloce accelerates

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from 0 to 100 km/h (62 mph) in 2.8 seconds and powers on to reach a top speed of more than 350 km/h (more than 217 mph).

“The new Aventador Superveloce continues the Lamborghini tradition of SV models, pushing the boundaries in terms of performance and pure driving emotion,” says Stephan Winkelmann, President and CEO of Automobili Lamborghini. “The original Aventador was presented four years ago, and the Superveloce pays homage to its passionate owners, as well as the fan community, whose enthusiasm has resulted in the biggest commercial success ever of a Lamborghini V12 super sports car. In the Superveloce Lamborghini’s expertise in lightweight engineering is clearly evident. With technological features which, combined with design, quality standards and craftsmanship, the Superveloce results in the most exclusive, pure and emotional production model in the history of our brand.”

### **Power-to-weight**

Every single detail of the Aventador Superveloce has been optimized to achieve the lowest possible weight, whilst including new technologies to enhance dynamics and the driving experience. The Aventador’s carbon fiber monocoque with lightweight aluminum frames is being serially produced for the Superveloce. Together with other carbon fiber components such as new door panels and new rockers and fenders in SMC superlight, it provides low weight with maximum rigidity. Also in carbon fiber are the new rear wing, and the fixed air intakes.

The interior has also been completely revised with a clear focus on weight reduction. The new sports bucket seats and the door panels are made of carbon and the interior’s lightweight design excludes an infotainment system (available as no cost option), carpets and certain noise insulation parts.



In this way the weight of the Superveloce has been reduced by 50 kg (110 lbs) to 1,525 kilograms (3.362 lbs). Combined with the increased power, the power-to-weight ratio has been improved by ten per cent, to 2,03 kg/hp, contributing to not only the phenomenal acceleration figure but enhancing both lateral dynamics and braking. The Superveloce is amazingly powerful, but equally light-footed and precise.

### **Driving Dynamics**

Introduced on the Aventador, Lamborghini's pushrod suspension system incorporates adaptive Magneto Rheological Suspension (MRS) on the Superveloce, responding immediately to road conditions and driving style: wheel damping is adjusted individually during cornering, largely suppressing body roll and making the steering and handling even more responsive. The adaptive damping also counteracts brake diving.

Also new is the electromechanical Lamborghini Dynamic Steering (LDS), which variably adapts the steering ratio to road speed and to the dynamic mode selected. Specially tuned for the Superveloce, it ensures even greater stability at high speed, while making it significantly easier to maneuver at low speed.

The Superveloce's lightweight forged rims in matt black measure 20 inches at the front and 21 inches at the rear and are optionally equipped with central locking mounts, as in motorsport. The standard-fit Pirelli P Zero Corsa sports tires ensure maximum grip, with Carbon Ceramic Brakes as standard.

### **Pure performance**

The 6.5 liter, naturally aspirated V12 engine in the Lamborghini Aventador has been redesigned for the Superveloce and equipped with a completely new lightweight exhaust system. Improving the engine responsiveness of the original Aventador, maximum power output now reaches 552 kW / 750 hp at 8,400 rpm.



In order to achieve an enriched torque curve especially at high revs, both Variable Valve Timing and Variable Intake System have been optimized. The maximum torque is 690 Nm at 5,500 rpm, with an increased maximum engine speed of 8,500 rpm.

The newly engineered exhaust system not only lowers back pressure, it also delivers all the music of the mighty twelve-cylinder engine - from a moderate rumble when rolling through the city at low revs to the screaming crescendo of gears spinning at top speed. The highly innovative Lamborghini ISR transmission is the perfect match for this engine. It is the fastest automated manual gearbox in the world and delivers an incomparably emotional gear shift.

The permanent all-wheel drive of the Lamborghini Aventador LP 750-4 Superveloce - denoted by the '4' in its name - uses a Haldex Generation IV electronically controlled coupling system to distribute torque between front and rear. This coupling matches the torque distribution perfectly to the dynamic situation in a matter of milliseconds. A self-locking differential at the rear axle and an electronic differential lock at the front is controlled by the ESP, lifting the dynamic performance even further. Vehicle characteristics (engine, transmission, differential, dampers, steering) can all be adapted to individual driver preferences using the three settings of the Drive Select system - Strada (road), Sport and Corsa (race track).

### **Form follows function**

The design of the Lamborghini Aventador LP 750-4 Superveloce embodies aggressive power alongside technical superiority. In creating the Superveloce, from the very beginning the aerodynamic engineers worked closely with the designers of Lamborghini Centro Stile with the objective of ensuring an optimum aerodynamic balance. The goal was to improve both vertical downforce and aerodynamic efficiency without having evident impact on the drag coefficient.



Overall aerodynamics have been optimized by 150% in term of efficiency and gained a considerably higher downforce of 170% over the standard Aventador. Thus every single line of the Superveloce has a clear function: to further improve the performance of this super sports car.

The most obvious new element is a large racing-style rear wing which improves aerodynamic efficiency and generates additional downforce. It can be manually adjusted to three different positions to suit a driving style. The wing can be regulated to allow for a change of 15% in the aerodynamic balance of the car. In this way the best set-up is guaranteed in every driving condition, both on the road and on the track in order to reach maximum downforce or speed.

The front end of the car has been redesigned completely: a more 'open' view, with the forward-stretched line of the front skirt and two front wings - one in black carbon fiber and one in the car's colour - generating significant downforce in the front of the car. This improves handling and stability, gives even more precise turn-in at high speeds and, in conjunction with the ABS, ensures a sensitive and accurate feedback from the steering. Larger front air intakes reflect the SV's additional 50 hp and optimize brake cooling.

The rear of the car is redesigned with an open, exposed feel. Carbon fiber parts, many in visible black colour, contribute to weight reduction. The Superveloce's extreme, lightweight character is immediately evident, with the complexity of the design clearly visible from both behind and above the car. A large rear diffuser on the underside and vertical fins improve the air flow from the optimized underbody.

A large mesh structure at the rear ensures heat dissipation from the 6.5-liter V12 engine. The muffler design is in a special lightweight material, with a naked four-pipe exhaust.



The cooling air ducts above the rear wheels, which are movable on the standard Aventador, are fixed on the Superveloce.

### **The interior - purist and authentic**

The exclusive position of the Superveloce is emphasized by its considerably sharpened design and the unique interior. This is the first production car to feature Lamborghini's innovative Carbon Skin® material. A significant example of Automobili Lamborghini's leading position in the research, development and production of CFRP materials, this material is the lightest available and it is flexible and robust. Incorporating a highly specialized resin, the woven carbon fiber fabric is extremely soft to the touch, yet very hard-wearing. The Superveloce's inner roof and parts of the cockpit are clad in this highly exclusive material.

The carbon fiber monocoque of the Aventador is rarely seen, but reflecting the dominance of this lightweight material in the Superveloce, also features in the car's interior. The carbon fiber monocoque is now visible in several places, including the center tunnel and the sills, giving the entire interior a very purist look. The shells of the newly-developed sports seats are also made from carbon fiber with an upholstery in alcantara and y-shaped leather inserts.

The instrument cluster is entirely new. The new TFT screen is dominated by the color yellow, with an RPM shifting indicator in light blue, and a G-force indicator in the lower part of the cluster similar to racing cars.

The launch color of the Lamborghini Aventador LP 750-4 is the specially developed Rosso Bia, with black Alcantara in the interior. Five further colors are available with owners able to specify their cars to their own individual tastes,



with virtually unlimited options under Lamborghini's Ad Personam personalization program.

The price of the Aventador Superveloce in Europe is 327,190.00 Euro w/o VAT, and the car will have its market introduction in late spring 2015.

### Lamborghini Aventador LP 750-4 Superveloce – Technical Data

#### CHASSIS AND BODY

Frame	Carbon fiber monocoque with aluminium front and rear frames
Body	Carbon fiber engine bonnet, rear spoiler and side air inlets; Aluminium front bonnet, front fenders and doors; SMC superlight rear fender and rocker covers
Suspension	Front and rear horizontal magneto-rheological damper with push-rod system
ESP	ESP/ ABS with different ESP characteristics managed by drive select mode
Brakes	Dual hydraulic circuit brake system with vacuum brake booster; front and rear CCB, (6-cylinder brake callipers, 4-cylinder brake callipers)
Ventilated discs (front – rear)	Ø 400 x 38 mm – Ø 380 x 38 mm
Steering	Steering Gear with 3 different servotronic characteristics coupled with Lamborghini dynamic steering (LDS), managed by drive select mode



Tires (front – rear)	Pirelli P0 Corsa 255/35 ZR20 – 355/25 ZR21
Wheels (front – rear)	9" JX20" H2 ET 32.2 – 13" JX21" H2 ET 66.7
Kerb-to-kerb turning circle	12.5 m (41,01 ft.)
Mirrors	External mirrors heated, electrically adjustable and foldable
Rear spoiler	Fixed spoiler in carbon fiber, manually adjustable in three positions (high-mid-low downforce)
Airbags	Front dual stage driver airbag and front adaptive passenger airbag; seats with side "head-thorax" airbag, passenger and driver knee airbags

## ENGINE

Type	V12, 60°, MPI
Displacement	6498 cc
Bore and stroke	Ø 95 mm x 76,4 mm
Valve gear	Variable valve timing electronically controlled
Compression ratio	11.8 ± 0.2
Maximum power	750 hp (552 kW) at 8.400 rpm
Maximum torque	690 Nm at 5.500 rpm
Maximum Engine speed	8.500 rpm
Power to weight ratio	2 kg/hp





Emission class	EURO 6 - LEV 2
Emission control system	Catalytic converters with lambda sensors
Cooling system	Water and oil cross flow cooling system in the rear with fixed air inlets
Engine management system	Lamborghini Iniezione Elettronica (LIE) with Ion current analysis
Lubrication system	Dry sump

## DRIVETRAIN

Type of transmission	4WD with Haldex generation IV
Gearbox	7 speed ISR, shifting characteristic depending on drive select mode
Standard	AMT
Clutch	Dry double plate clutch, Ø 235 mm (9,25 in.)

## PERFORMANCE

Top speed	Over 350 km/h
Acceleration 0-100 km/h [0-62 mph]	2,8 sec.
Acceleration 0-200 km/h [0-124 mph]	8,6 sec.
Acceleration 0-300 km/h [0-186 mph]	24,0 sec.
Braking 100-0 km/h [62-0 mph]	30 m

## DIMENSIONS

Wheelbase	2700 mm (106.29 in.)
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Overall length	4835 mm (190.35 in.)
Overall width (excluding mirrors)	2030 mm (79.92 in.)
Overall height	1136 mm (44.72 in.)
Track (front – rear)	1720 mm (67.71 in) – 1680 mm (66.14 in.)
Dry weight	1525 Kg (3362 lb)
Weight distribution (front – rear)	43% - 57%

#### TANK CAPACITIES

Fuel tank	90 litres
Engine oil	13 litres
Engine coolant	25 litres

#### CONSUMPTION\*

Urban cycle	24,7 l/100km
Extra urban cycle	10,7 l/100km
Combined	16,0 l/100 km
CO <sub>2</sub> emission	370 g/km

*\* In accordance with  
Dir. CE 715/2007*



## **Automobili Lamborghini S.p.A.**

Founded in 1963, Automobili Lamborghini is headquartered in Sant'Agata Bolognese, in North-eastern Italy. The Lamborghini Huracán LP 610-4, which made its world debut at the Geneva Motor Show in 2014, is the successor to the iconic Gallardo and, with its innovative technology and exceptional performance, it redefines the driving experience of luxury super sports cars. The Coupé and Roadster versions of the Aventador LP 700-4 are the new benchmark in the world of luxury super sports cars with the V12 engine. With 130 dealerships throughout the world, Automobili Lamborghini, in half a century, has created a continuous series of dream cars, including the 350 GT, Miura, Espada, Countach, Diablo, Murciélago, and limited series including Reventón, Sesto Elemento and Aventador J. The Veneno Coupé, Egoista and Veneno Roadster were produced to celebrate the 50<sup>th</sup> birthday of the company in 2013.

For other photos and video material, please visit our websites:

[www.lamborghini.com/press](http://www.lamborghini.com/press) and [www.thenewsmarket.com/lamborghini](http://www.thenewsmarket.com/lamborghini)

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