Production Begins for Bugatti Veyron 16.4 Grand Sport Vitesse

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"The rapid success of the Super Sport convinced us to increase the performance of the Bugatti roadster. Once again our engineers worked hard to demonstrate that Bugatti is able to constantly redefine the boundaries of what is technically feasible," reveals Bugatti President Wolfgang Dürheimer. "We gave our all to transfer the achievements of the Super Sport over to the Grand Sport, thereby turning open-top driving itself into an extraordinary experience at high speed."

Dynamics in numbers.

The new Bugatti Veyron 16.4 Grand Sport Vitesse boasts a remarkable maximum torque of 1,500 Nm (at 3,000-5,000 rpm) from the 7.9-liter capacity of its W16 engine. The maximum output (1,200 hp) is reached at 6,400 rpm. These figures allow the car to reach 100 km/h (62 mph) from standing in unbelievable 2.6 seconds. The top speed of 410 km/h (255 mph) makes the four-wheel drive Vitesse the fastest production roadster ever. The maximum speed is reached on closed tracks with special safety precautions. In "normal" handling mode, the Vitesse is electronically limited to 375 km/h (233 mph).

Optimized drive system.

The 199 hp increase over the Grand Sport has been mainly achieved by using four larger turbochargers with new intercoolers. Furthermore, Bugatti has extensively reinforced all drive train components in order to safely transfer the immense forces at all times. The gearing of the seven-speed dual-clutch gearbox (DSG) in particular has been adapted to the new requirements. In this context, as on the Super Sport, Bugatti has also modified the air ducting in the area of the drive train. As a consequence of the larger turbochargers and the overall reduced back pressure, it was even possible to reduce the fuel consumption slightly despite the increased output. The fuel system, with a four-pump tank, has been taken from the Super Sport.

Chassis.

In order to put the unrivalled power onto the road absolutely safely and masterfully, the engineers have reconfigured the chassis of the Vitesse. Thanks to the quick-responding dampers that have been adapted from motor racing, the control of the vehicle has been further improved and perfectly balanced. Body roll and pitching during hard acceleration and braking are now virtually imperceptible. Optimized wheel-load fluctuations have further reduced under steer and allow a maximum level of active safety. In addition to the incomparable lateral acceleration of up to 1.4 g, the precise interaction of the tires (on all-new, lighter 20-inch "Vitesse"-type alloy wheels), together with the intelligent all-wheel-drive system, ensures extremely good handling.

The chassis, all-wheel drive system and the revised ESP form a dynamic alliance: since the reconfigured ESP kicks in slightly later, for example when you accelerate out of corners, the Vitesse also provides a more dynamic performance in these situations. It goes without saying that Bugatti has adapted the brake-cooling system to account for the even higher engine output. The brakes, which are unparalleled in terms of stability and performance, now have additional and larger air intakes.

In general, it can be said that the Vitesse is even sportier than the 1,001 hp Grand Sport, but at the same time it has not been turned into a full-blown racing car. It therefore remains easy to master for the driver. In this context, it is simply astounding that Bugatti managed to increase comfort in the chassis area by reducing the dynamic natural frequency.

Body.

Bugatti has developed a new roof spoiler for the Vitesse that significantly reduces wind noise and buffeting in the interior. Furthermore, there will be a new windbreak for the roadster that can be stored away compactly in the luggage compartment when not in use. Both details will also be available for the Grand Sport. Together, they allow extremely relaxed, open-top driving even at speeds of around 200 km/h (124 mph).

Numerous aerodynamic measures at the front and rear that appeared on the Super Sport have been adapted for the Vitesse. The front end is therefore characterised by

larger air intakes; the two central air intakes to the left and right of the Bugatti radiator grille are divided horizontally by a bar. The bottom air vent stretches sideways into the wheel housing and gives this exceptional sports car an extremely masterful appearance. Immediately below this air intake, you will see a new, visually refined front spoiler that has been designed in a similar way to the splitters used in motor racing. The improved xenon headlights from the Super Sport, which are now framed in black, are also new. The rear end, which is also derived from the Super Sport, is characterised by a double diffusor and a centrally positioned twin tailpipe. A new Park Distance Control system (PDC) watches over the front and the rear.

The two air scoops on the left and right of the engine cover (redesigned for the Vitesse) are a characteristic of the Grand Sport and thus also of the Vitesse. These air scoops fulfill two tasks on the roadster. On the one hand, they pull in air for the engine, and on the other, they are an elegantly integrated part of the anti-roll protection system. As on the Super Sport, a full-carbon-fibre monocoque, which allows an extremely high torsional rigidity combined with maximum passive safety, is also used on the Vitesse. The outer skin is also made completely from carbon fibre and, consequently, the new Bugatti Veyron 16.4 Grand Sport Vitesse is available in clear-coated visible carbon.

Interior.

Carbon fibre is (along with stainless metals such as Aluminium and Magnesium) also the dominant material in the interior of the Vitesse. Numerous interior parts are now made from carbon fibre in the 1,200 hp roadster. This includes the centre console extension, a cover with EB logo in the rear-bulkhead leather trim (between the seat backrests) and the belt outlet covers on the seats. The décor on the centre console, the door inserts and the adjoining trim on the instrument panel are also made from carbon fibre. The bi-color black trim parts (for example, in the roof console) are also new in the Grand Sport version, as is a special seat design for the Vitesse. The two-tone leather seat covers are enhanced by contrasting stitching between the seat base and the side sections. Contrasting stitching is also featured on the leather armrest between the seats, which comes without the typical quilting. Also new: knee pads in the centre tunnel area, an additional 12V socket (in the glove compartment), the restraint systems, the illuminated start and parking lock button (same as Super Sport), an instrument cluster with shift-up information and - as a matter of honour - the power gauge that now goes up to 1,200 hp.

The Bugatti brand was founded in 1909 by the educated artist and engineer Ettore Bugatti. His cars were well known for the beauty of their designs, their lightness and advanced technology. In the 1920s and 30s they won more races than any of their competitors. Closed down in 1957 the company was bought and revived by the Volkswagen Group in 1998. The first Bugatti Veyron 16.4 was produced in 2005, the final of the series, limited to 300 units was sold in June 2011. At the moment the brand offers the 1,001 hp roadster Grand Sport and its stronger brother the 1,200 hp roadster Vitesse limited to 150 units combined, of which so far 69 have been ordered.