



## New 911 RSR for Le Mans

**16/11/2016** The most spectacular nine-eleven ever: Porsche will tackle the 2017 racing season with an all-out newly developed GT racer.

The new 911 RSR makes full use of the breadth of the Le Mans 24 Hours GT regulations, and in addition to systematic lightweight design, features the ultra-modern, flat-six unit positioned in front of the rear axle. The four-litre, extremely light aggregate features direct fuel injection as well as a rigid valve drive and is characterised by outstanding efficiency. The new 911 RSR will make its debut at the Daytona 24-hour race in January 2017.

“While retaining the typical 911 design, this is the biggest evolution by now in the history of our top GT model,” says Head of Porsche Motorsport Dr Frank-Steffen Walliser. The new 911 RSR is a completely new development: the suspension, body structure, aerodynamic concept, engine and transmission have all been designed from scratch. The engine concept has enabled the designers to install a particularly large rear diffuser. Combined with a top-mounted rear wing adopted from the LMP1 race car, the 919 Hybrid, the level of downforce and the aerodynamic efficiency were significantly improved.

## **Porsche 911 RSR is powered by six-cylinder boxer engine family**

“For the 911 RSR, we deliberately focussed on a particularly modern and light normally-aspirated engine, as this gave our engineers immense latitude in developing the vehicle,” explains Dr Walliser. “Apart from that, in principle, the LM-GTE regulations stipulate the absolute equality of various drive concepts, as the torque characteristics of turbo and normally aspirated engines are aligned.” Depending on the size of the restrictor, the new normally-aspirated unit puts out around 375 kW (510 hp).

Shift paddles on the steering wheel actuate the sequential six-speed gearbox with a magnesium housing, which delivers power to the 31-centimetre-wide rear wheels. The changeover to the new engine generation is now complete. After the 911 GT3 R and the 911 GT3 Cup, the spearhead of Porsche GT racing cars is now also powered by the same cutting-edge six-cylinder boxer engine family.

## **For the first time, the GT racer bears the new factory design**

In the past, Porsche has already thoroughly pushed the limits with the concept of the 911 – in 1996 with the 911 GT1. With great success: In 1998 the 911 GT1 achieved the 16th overall victory for Porsche at the Le Mans 24-hour race. Back then, the fastest vehicle in the field emerged from the GT1 class.

For the first time, a Porsche GT race car features state-of-the-art assistance systems: the new 911 RSR is equipped with a radar-supported collision warning system, the so-called “Collision Avoid System”. Even in the dark, the faster LMP prototypes are detected early enough and misunderstandings can be avoided. A new safety cage concept and a new, rigidly-mounted racing seat enhance driver safety. With the seat fixed to the chassis, the pedalry can now be moved and adjusted to fit the driver.

The new 911 RSR’s serviceability has also been significantly improved: Entire elements of the carbon-fibre body can be exchanged completely in a very short time thanks to clever quick-release fasteners. Moreover, changes to the suspension setup can be performed much more quickly and easily.

With the look of the body wrapping, the 911 RSR is striking out in a new direction: For the first time, the GT racer bears the new factory design that has further developed the clear and dynamic design language of Porsche Motorsport. From a bird’s eye view, a hint of the Porsche emblem silhouette can be seen. The basic colours remain white, red and black.

In the 2017 season, the factory is expected to run the new 911 RSR at 19 outings which equates to more than 140 hours of racing. With two factory-entries, Porsche will tackle the FIA World Endurance Championship (WEC) including the 24 Hours of Le Mans as well as the American IMSA Weathertech Championship. The new racer will celebrate its debut under the toughest conditions at the IMSA season opener in Daytona on 28-29 January. “We’re very well prepared for this,” says Marco Ujhasi, Head of GT

Works Sport. "Since its first rollout in Weissach in March this year we've covered 35,000 test kilometres on racetracks in Europe and North America – that's more than in the development of any other Porsche GT racer."

## Body

Weight-optimised chassis in combined aluminium steel design; removable roof hatch for cockpit access; lifting bushes integrated in the roof; FT3 fuel cell in front of the car; welded-in roll cage; seat pursuant to FIA 8862-2009; rigidly mounted to the chassis; six-point safety harness for use with HANS; longitudinally adjustable pedalry; bodywork made of CFRP, quick-change; rear wing with "swan neck" mounts; four-post air jack system with safety pressure valve; electronically activated fire extinguisher system; heated windscreen.

## Suspension

Front axle: double wishbone front axle; four-way vibration damper; twin coil spring setup (main and helper spring); anti-roll bars, adjustable by blade positions; electro-hydraulic power steering

Rear axle: integrated rear axle subframe with double wishbone axle; four-way vibration damper; twin coil spring setup (main and helper spring); anti-roll bars, adjustable by blade positions; electro-hydraulic power steering; tripod drive shafts.

## Brakes

Two independent brake circuits for front and rear axle, adjustable via balance bar.

Front axle: One piece aluminium six-piston racing callipers with quick coupling; internally ventilated steel brake discs, 390 mm diameter; race brake pads; optimised brake cooling ducts.

Rear axle: One piece aluminium four-piston racing callipers with quick coupling; internally ventilated steel brake discs, 355 mm diameter; race brake pads; optimised brake cooling ducts.

## Wheels/tyres

Front axle: One piece forged light alloy wheels, 12.5Jx18 offset 25 with centre lock nut; Michelin slick 30/68-18.

Rear axle: One piece forged light alloy wheels, 13Jx18 offset 37 with centre lock nut; Michelin slick 31/71-18.

## Electrics

Cosworth Central Logger Unit; CFRP multi-functional steering wheel with integrated display; shift paddles and quick release; Collision Avoidance System; controlled alternator in connection with LiFePo4 battery; LED headlights; LED taillights plus rain light; illuminated car number and leader light system; black light inside cockpit; electric adjustable wing mirrors with memory function; tyre pressure monitoring system (TPMS); drink system; air conditioning system; membrane switch panel on centre console with fluorescent labelling.

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