

# Porsche 911gt3 flywheel energy storage

Was the 911 GT3 R A 'flywheel hybrid'?

Hybrid street cars were becoming mainstream, and "road relevance" was repeatedly cited by Oge along with energy independence and low carbon emissions as EPA imperatives. But, like its similarly new Formula One hybrid race car cousins, this special 911 GT3 R was not a street-going hybrid. This was a "flywheel hybrid."

What type of flywheel does a Porsche GT3 use?

In the GT3 R Hybrid, it was reserved for the flywheel. Porsche In the 911 GT3 R, the flywheel motor used a carbon-fiber composite flywheel with a 16-inch (406mm) diameter.

How does a 911 GT3 R flywheel motor work?

In the 911 GT3 R, the flywheel motor used a carbon-fiber composite flywheel with a 16-inch (406mm) diameter. Mounted in a carbon fiber box where the passenger seat would be in a road-going 911, the flywheel motor received power from, and sent power to, an 80hp (60kW) electric motor/generator at each front wheel.

What kind of engine does a Porsche 911 use?

Instead of parallel gasoline engine/electric motor drive systems combined with a battery, the 911 racer paired an internal combustion flat-six cylinder with an electro-mechanical flywheel energy storage system. Porsche motorsports engineers began researching hybrid systems for racing in 2007.

Is the Gyrodrive flywheel a good choice for a bus?

The system, and subsequent variations, have seen use in buses from UK manufacturer Alexander Dennis in both single and double-decker bus models. However, the Gyrodrive flywheel system was considered too large and expensive for urban-use cars (taxis), which adopted various battery strategies.

The document discusses flywheel energy storage systems (FESS). It first provides an introduction to energy storage and defines FESS. It then reviews literature on FESS technology and applications. ... The 24-hour Nurburgring race this May is all set to welcome Porsche's new 911 GT3 R Hybrid vehicle powered by an electric engine and a 480 hp ...

Installing double-mass flywheel Note Before re-installation, clean the friction surface of the flywheel with a clean lint-free cloth that has been soaked in solvent naphtha or acetone. 1. Position double-mass flywheel on the crankshaft's dowel pin and press on to the crankshaft flange. Insert all fastening screws (8). 2.

Porsche 911 GT3 R Hybrid Using 160hp Flywheel for Its Electric Motors. By. Ovidiu Sandru. Modified date: February 14, 2010. 433. 5. Share. Facebook. Twitter. ... Energy Storage. 8 Ways to Maximize Your Smartphone Battery's Lifespan. Hybrid vehicles. New Hyundai Sonata Hybrid Goes 1,300km a Year on Its Solar Panel Alone.

"Flywheel Energy Storage System Specifications". The questionnaire was sent to organizations ... Porsche had significant success in the 2010 season racing its 911 GT3 R hybrid racer with a hybrid powertrain using a ... unveiled its new 918 RSR flywheel hybrid racer based on the 911 GT3 R developments. . - ...

Dr. Ing. h.c. F. Porsche AG Press Database. Toggle navigation. Current Archive. Contact Register. Login . Forgot password ... Electrical flywheel energy reservoir of the 911 ...

The new Porsche 911 GT3 with Touring Package can be ordered from the end of this year. The new Porsche 911 GT3 can be ordered from the end of this year. \* Manufacturer's Suggested Retail Price. Excludes options; taxes; title; registration; delivery, processing and handling fee; dealer charges. Dealer sets actual selling price.

Williams Hybrid Power Limited is pleased to confirm that the energy storage system as part of the new Porsche 911 GT3 R Hybrid, which was announced today by Dr. Ing. h.c. F. Porsche AG, Stuttgart ...

Flywheel energy storage (FES) works by accelerating a rotor (flywheel) to a very high speed and maintaining the energy in the system as rotational energy. ... [43] have supplied Porsche and Audi with flywheel based hybrid system for Porsche's 911 GT3 R Hybrid [44] and Audi's R18 e-Tron Quattro. [45] Audi's victory in 2012 24 Hours of Le Mans is ...

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Need a Porsche Flywheel? We've got you covered with every type under the sun! In-house, we design & manufacture proprietary lightweight street / sport / race / RS / RSR / performance / engine & transmission conversion flywheels. We also stock the major name brand factory original equipment flywheels from Porsche

The electrical flywheel storage unit stores the electrical energy recovered during braking in kinetic form, as kinetic energy. The storage unit consists of safety housing made of ...

Porsche 911 GT3 Touring vs. Porsche 911 S/T: Road Test ... The flywheel provides rotational inertia that keeps the engine running at very low throttle, such as taking off from a traffic light or ...

911 GT3 R Hybrid Image: Porsche. ... The car added a pair of 60 kW electric motors to the front axle and a then-revolutionary KERS-style flywheel energy storage unit, supplied by Williams ...

Porsche 911 GT3 R Hybrid Flywheel Electric Storage Racing Prototype 2010 - this site contains cars pictures and reviews from the beginning of automobile up to concept prefiguring which we will drive tomorrow . ... the driver is able to call up extra energy from the charged flywheel generator, the flywheel being slowed down

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electromagnetically ...

The Porsche 918 RSR is a high-end synthesis of successful Porsche hybrid concepts: a medium-sized coupe: it's got kinetic energy storage. Porsche AG, Stuttgart, is continuing to extend its performance and high efficiency competence via intensive development work in the field of hybrid technology.

- Instead of the usual batteries in a hybrid road car, an electrical flywheel power generator fitted in the interior next to the driver delivers energy to the electric motors. - Rotor ...

Flywheel energy storage performance figures. Full size image. The only parts of the flywheel system susceptible to wear are the rotor's ceramic bearings in the housing. These are the only parts that ever have to be overhauled. ... The software's development and testing is integrated into the Porsche 911 GT3 R Hybrid's development process.

By definition, the 991.2-gen Porsche 911 GT3 is all about p-e-r-f-o-r-m-a-n-c-e. After all, it was developed on the experience and trials by fire of every race that Porsche Motorsport has contested round the world. So here are some noteworthy performance stats of the 2018 and 2019 991.2-gen Porsche 911 GT3: 339 lb.-ft. of torque; 500 horsepower

Porsche will show a Porsche 911 GT3 R with hybrid drive at Geneva Motor Show - the two 60 kW electric motors are supplied with power by an electrical flywheel power generator ... The energy storage ...

The Porsche 911 GT3 R Hybrid completed the recent 1,000 km of Zhuhai in China ahead of all other GT cars and with fewer stops for gasoline. At the core of the hybrid system is Williams Hybrid Power's (WHP) flywheel energy storage unit. (Earlier post.) WHP's patented Magnetically Loaded Composite...

PDF | A review of flywheel energy storage technology was made, with a special focus on the progress in automotive applications. ... In 2010, Porsche launched the racing car Porsche 911 GT3 RS ...

Energy storage technology is shaping electric mobility. A limiting factor in hybrid and all-electric drive systems is the technology for storing the electrical energy. Flywheel storage devices (Audi, Nissan), ultracaps (electrochemical supercapacitors - Toyota) and lithium-ion batteries (Porsche) are currently used in the WEC.

Porsche Lightweight Flywheel Clutch Upgrade Kit for 996 / 997 / 997.2 GT3 / RS / 4.0 / 964. Product type: ... 911 GT3 RS - 997.2; 911 GT3 RS - 997; More; 911 GT3 - 997.2; 911 GT3 - 997; 911 GT3 - 996; 911 (964) - 964; price \$3795. Include Factory 997.2 Underdrive Crank Pulley Kit with Belt for 997.1 GT3 & RS

Porsche designed a new customer racer for GT3 series worldwide from 2019 based on the 911 GT3 RS\* production sports car, which was launched in March 2018: the 911 GT3 R. During the development of the now more than 404 kW (550 hp)\*\* racing nine-eleven, special attention was paid to particularly efficient aerodynamics, improved handling, further ...

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Designed and built by Porsche R& D, the general layout of the 2011 911 GT3 R Hybrid remains quite similar to that of the 2010 model - a portal axle with two electric motors drives the front wheels ...

MikeChino writes &quot;Porsche has just unveiled its 911 GT3 R Hybrid, a 480 horsepower track vehicle ready to rock the 24-hour Nurburgring race this May. Porsche's latest supercar will use the same 911 production platform available to consumers today, with a few race-ready features including front-wheel...

Porsche 911 GT3 R Hybrid to Race in the USA and China. ... Under braking, the 911 GT3 R Hybrid converts kinetic energy into electrical energy and stores it in a flywheel. During acceleration, this ...

Energy storage - flywheel. By Lu&#237;s de Sousa, originally published by The Oil Drum. October 5, 2011. ... The Porsche 911 GT3 R Hybrid features two electric wheels at the front axle complementing the traditional 6 cylinder engine plus a ...

The Porsche 911 GT3 R Hybrid uses a flywheel instead of a battery to store energy: here's how it works 14 February 2010 Formula 1 might have turned its back on hybrids - for the moment, at least - but the technology is still alive and well, and it returns to racing in 2010 in Porsche's 911 GT3 R Hybrid.

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