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 flywheelwith 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 cylinderwith 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 expensivefor urban-use cars (taxis),which adopted various battery strategies.

The Porsche 911 GT3 is a high-performance homologation model of the Porsche 911 sports car. It is a line of high-performance models, which began with the 1973 911 Carrera RS.The GT3 has had a successful racing career in the one-make national and regional Porsche Carrera Cup and GT3 Cup Challenge series, as well as the international Porsche Supercup supporting the FIA ...

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.

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.

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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 ...

We have developed & sold Porsche 901, 911, 914, 915, 930, G50 964 & 993 flywheel & clutch solutions since 1989. In-house, we machine billet flywheels and transaxle conversion kits for your Porsche. We also stock parts from Sachs, Sachs Performance, Sachs Race Engineering, Sebro, Centerforce, Kennedy Engineering, and many more. Let us know how we can help you! Learn ...

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.

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.

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.

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.

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

MikeChino writes "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...

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...

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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 electromagnetically ...

A review of flywheel energy storage technology was made, with a special focus on the progress in automotive applications. We found that there are at least 26 university research groups and 27 companies contributing to flywheel technology development. Flywheels are seen to excel in high-power applications, placing them closer in functionality to supercapacitors than to ...

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