

RG engine

SCIENTIFIC TECHNOLOGIES

RC
ENGINE

CITY FLYING CAR

STARTUP

www.cityflyingcar.com



**RG Engine company introduces the first startup
City Flying Car with V.T.O.L.**

Official startup page www.cityflyingcar.com

Video presentation www.youtube.com/watch?v=WvWHhTZIXg0

In our startup to create the first concept - City Flying Car with V.T.O.L.,
the scientific research and development that we conducted for 18 years was used.
Including two-rotor hybrid installation, drive of propulsion device and speed variator.
Without the well-known, familiar to us, propellers and wings. Allowing to take off from a
place vertically, creating a great force, "opposing" the gravitational pull of the Earth!

City Flying Car

General Description



One two-rotor hybrid installation.

Uses fuel - gasoline, source of electricity.

Drive of propulsion device

Drive of propulsion device, powered by a two-rotor hybrid installation and creating traction.

Four hybrid installation

The hybrid installation is based on a new, early unknown physical phenomenon found in the "chaotic" movement of gas-air molecules (Brownian motion).

Vertical takeoff and landing vehicles (VTOL)

Vertical takeoff and landing.

Lasts Long

One charge of the car battery at a speed of 500 km / h is enough for up to 10 hours of operation.

Variable Speed

The propulsion devices with significant new features allow both on Earth and in the air, vary the speed of the vehicle in a wide range without the speed variator, which is familiar to everyone.

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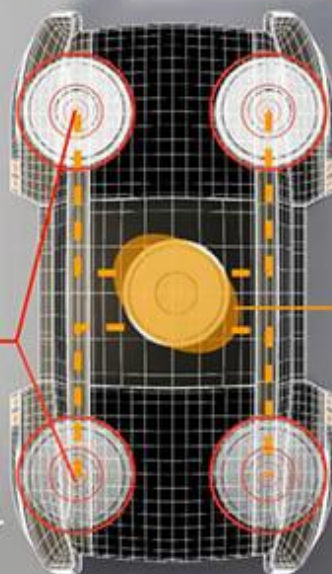
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The propulsions device for orientation in space

Direct propulsors, powered by a twin-rotor hybrid installation and creating traction
Having the opportunity due to its orientation in space, to set any direction of the car and move it in the given direction



Twin-rotor hybrid plant







About us

RG Engine includes more than 50 scientists of Physicists, Mathematicians and Mechanics who develop the theoretical foundations of machines and machine mechanisms, namely internal combustion engines and transmissions of vehicles - bicycles and cars. Also specialists in designing, researchers, experimenters of Leading Institutes, Universities and Plants of Western European and Eurasian countries.

RG Engine have 18 years of experience in cooperation with such companies as

- Mitsubishi Research Institute (MRI),
- General Motors (GM)
- Antoro-US,
- BRD and Dallara - Italy,
- Orbit Motors and Perkins - Great Britain,
- Dubai Motors- UAE,
- Studio Design France (Franco Sbarro), and technically, the list supersedes these few.

Our developments were exhibited at Engine Expo in Stuttgart in 2017, 2013 and 2008.



Currently, scientists and specialists together with other countries are preparing a new generation of fuel engines, bicycle vehicles using the process of pedaling. We are working to change the concept of cars, motorcycles and bicycles, as on land vehicles. It is planned to create direct drive propulsion device allowing to take off from the place vertically without dispersal on the said vehicles, creating a great force, "opposing" the gravitational force of the Earth's attraction!

Official page RG Engine

www.rgengine.com

Competitive advantage

Many companies call their Quadcopter a flying car, but in fact they are not. The Quadcopter consists of life-threatening mechanisms, such as propeller blades. Quadcopter can not easily integrate into the urban environment.

Our City Flying Car is deprived of all these shortcomings:

There are no propeller blades.

City Flying Car will not blow up dust, as Helicopters and Quadcopter do.

Easily integrated with computer control systems In urban conditions, it allows you to fly in multi-tier mode as in the film – **“The fifth element”**



We have done the following.

1. For 18 years, more than 20 inventions and patents for internal combustion engines without a crankshaft have been developed and patented. Unique experimental prototypes of ten engines have been created, which demonstrate the suitability - viability and efficiency with high specific power. The values of the specific power of these engines are fixed up to 5 hp / kg. These engines, because of the high specific power values with repeatedly high efficiency, are applicable to the creation of the lifting force of the apparatus, since they are capable of creating a traction force many times exceeding the weight of the engine itself.
2. Over the past 10 years, the mechanism of a direct drive propulsion device has been developed, in which neither the screw nor the wing of the aircraft is the leading, creating traction force, elements. Our mechanism is unique in that it uses atmospheric pressure with greater efficiency with a minimum propulsion area. In this construction, there is no need to create a lifting wing. The wing can be used only to control the direction of motion of the aerial vehicles, and the screw smoothing its motion. This mechanism is theoretically justified and experimentally confirmed. At this time, this mechanism is the subject of know-how.
3. The direct drive of propulsion device have been developed with essential new features that allow both on the Earth and in the air to vary the speed of the vehicle in a wide range without the usual speed variator.

What remains to be done.

1. We carry out research and design work on modeling the objects we have developed: rotary engines, which show high values of torque and power for a given number of cylinders - the volume, respectively, and the weight of the engine; model of the mechanism of the direct drive of propulsion device, which demonstratively shows the lightness and dynamism of the aircraft, for example the car. Industrial designs of rotary engines and the drive mechanism are being created.
2. The speed variator was tested. His industrial design is being created.

We are creating a new category - flying transport without propellers and wings . And we are sure that our City Flying Car should not have wings, wheels or propeller blades. It should not have been with the old technologies of the last century. It should be simple and convenient, with a small amount of detail, It is easy to integrate into all spheres of our life.

To complete the creation of the first prototype City Flying Car for 2 years, we need:

1 year for:

- 1 - Scientific research and conducting direct experiments.
- 2 - Layout and testing.

NAME OF MAIN COSTS
MAIN THING - CHOOSING THE MODEL
Development of a special construction. - \$ 2,000,000.00
To make technical drawings and their software for the kinematic model, detailing. - \$ 4,000,000.00
To make a model of the kinematic model, it was tested. - \$ 1,000,000.00
Conduct R & D to develop a dynamic model of a new design.
To produce drives of four direct propulsion devices - \$ 5,000,000.00

To test the experimental model of the dynamic model of the apparatus. - \$ 1,000,000.00
Carry out design work to improve the dynamics of the device. - \$ 1,000,000.00
Build a demonstration model of a flying car. - \$ 1,000,000.00

1 year for:

3 - Finalize the industrial design and electronic components of the system.

3 - Creating an industrial prototype layout and testing.

The exact price of costs depends on agreements with companies that will participate in the development of the project.

Approximately 130 to 150 million \$.

Design

The presented design of the City Flying Car is conditional and will be changed for the better.

We intend to invite to create an industrial design.



ItalDesign (Lamborghini Holding) - an engineering company, which is mainly known as a designer of car design and bodybuilding company. It is located in Turin (Italy). ItalDesign also engages in automotive engineering, prototyping and testing services and project management.



Italdesign and Airbus Project flying car Quadcopter





The auto car, as we all know, is a very complex technology. This requires great knowledge, effort and perseverance. But we have repeatedly argued that we can make the most complex engines in harmony with laws of physics, environmentally friendly and economical use of fuel, with more than conventional efficiency engines with crankshaft.

For such an incredible project as City Flying Car, we strive to create the first prototype in 2019 and with sufficient financing in 2020 to start industrial production.

Representation of the prototype can be performed possibly in these cities - Dubai, New York, Paris, London.

Expected date of presentation in 2020 year.

OFFICIAL PAGE OF OUR
STARTUP

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