

The Dual Fuel Diesel hybrid that guarantees to heavy vehicles the reduction up to 40% of diesel consumption.

The system is adopted by our customers all over the world:
Germany, Spain,
United Kingdom,
Greece, Poland,
Thailandia,
Russia,
Belarus

...

SPARK
sistemi autogas



**DIESEL MIX-FUEL
SYSTEM**

DEDICATED CONVERSIONS

**AUTOBUS
MINIBUS
VAN**

**AGRICULTURAL
VEHICLES**

**TRUCKS & HEAVY
COMMERCIAL
VEHICLES**

**PLATFORMS
WITH BASKET**

**BUILDING
VEHICLES**

**BOATS &
FISHING BOATS**

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**DIESEL MIX-FUEL
SYSTEM**

DIESEL MIX-FUEL SYSTEM

**20% CO2
REDUCING**

**UP TO 40%
DIESEL FUEL
SAVING**



NEW LIFE FOR THE ENGINE

Diesel-LPG mix-fueling technology has been present on the market for 10 years. The SPARK Mix Fuel system combines Diesel and LPG in the combustion chamber of the converted engine, producing pure energy and solving the high temperature problems typical of DPF.

Combustion keeps DPF clean without ever replacing it, as well as the engine itself, reducing maintenance costs. The increase in engine power and its torque increases the longevity of the engine and improves performance.

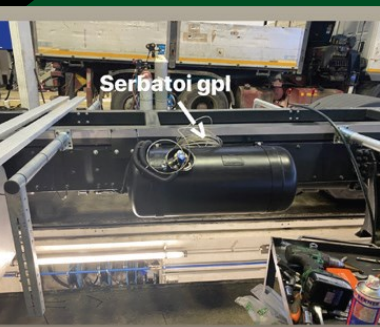
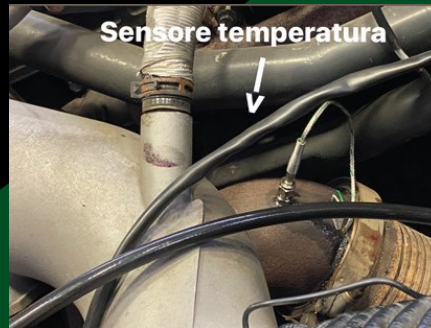
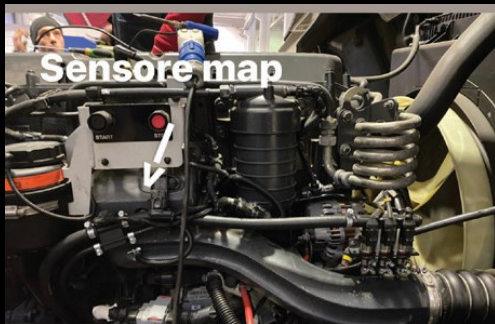
DEDICATED INSTALLATIONS

SPARK MIX-FUEL conversion kit use the most technologically advanced electronic system for controlling and dose the fuels injection, correctly mixed between diesel and LPG. We use mechanical components, LPG reducers and injectors of most known manufacturers for best performances and durability.

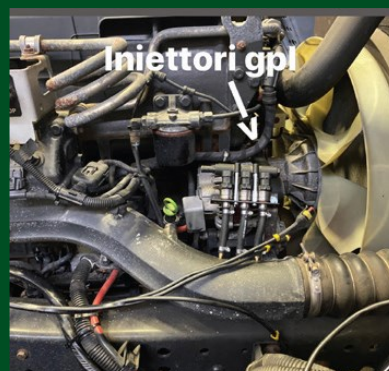
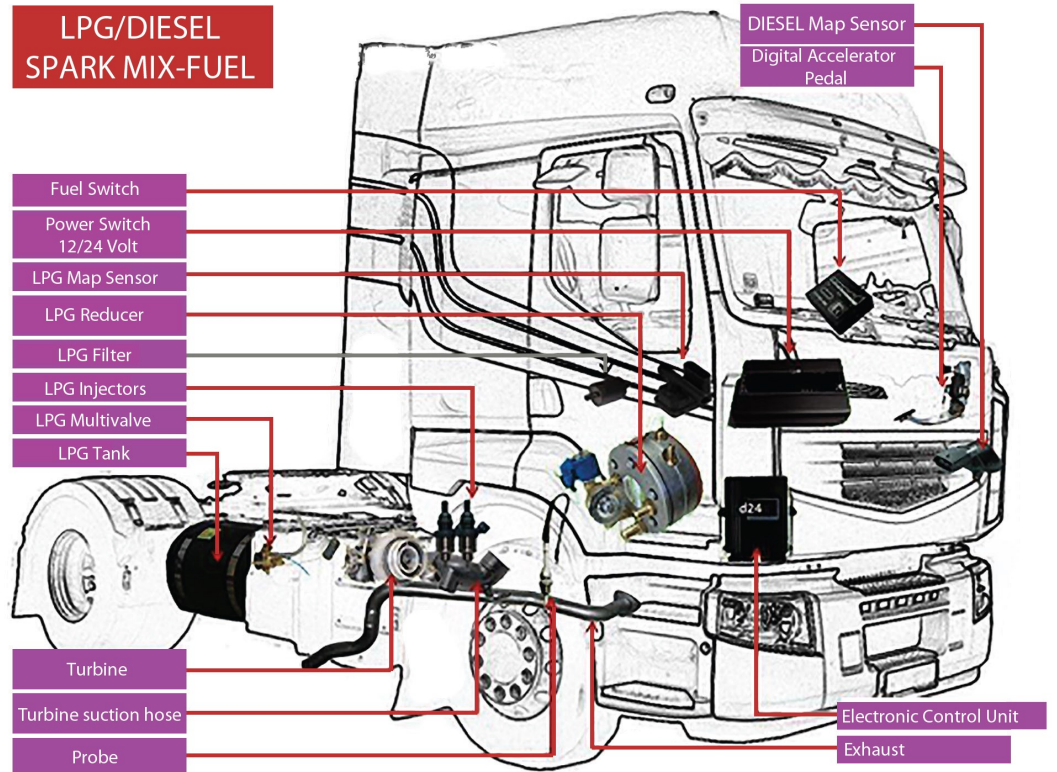
The control of the gas injectors is electronic and is based on information on the load, the rotation speed of the crankshaft and the temperature of the exhaust system. The installation, therefore, is dedicated for vans, trucks, boats and all vehicles with diesel engines. As well as for cars and medium and light commercial vehicles.



DIESEL MIX-FUEL SYSTEM



LPG/DIESEL SPARK MIX-FUEL



THE GREEN SOLUTION

	PETROL	DIESEL	LPG
BENZENE	32.7 mg/Km	2.1 mg/Km	0 mg/Km
So2 (SULFUR DIOXIDE)	560 mg/Km	379 mg/Km	189 mg/Km
Particulate PM10	5 mg/Km	51.1 mg/Km	2 mg/Km
NH3 (Ammonia)	70 mg/Km	1 mg/Km	0 mg/Km

The SPARK Mix-Fuel Diesel-LPG cuts 20% on the CO2 emissions, and practically zeroes the fine dust emissions (PM10, PM2 / 3) harmful to health and which often cause the traffic blockade in urban areas.

The installation of the system SPARK Mix-Fuel allows you to associate percentages from 60% Diesel and 40% LPG, up to a maximum of 52% diesel and 48% LPG.

A tractor trailer burns on average 30L diesel / 100km: replacing 40% of diesel fuel with LPG, they save about 7,5-12 euros per 100 km. With a average of 10.000 km per month, savings per vehicle amounts to an average of 1.000 euros per month.



**DIESEL MIX-FUEL
SYSTEM**

ECONOMIC BENEFITS

Before being put on the market, the SPARK Mix-Fuel was tested on more than 100 vehicles from an important Logistic Company in Italy, which become also our partner in the territory. Millions of km traveled and hundreds of thousands of Euros saved.

In the table the results of some of Logistic vehicles, of different brands and models, with the real savings results.

Brand	Diesel	Diesel / LPG	LPG	Diesel Cost over 100 km	Diesel / LPG cost over 100 km	Savings over 100 km	Savings over 10.000 km total/ monthly
Volvo FH16	31lt	18lt	13lt	€46,035	€35,063	€10,972	1.097,20
Volvo FH13 Cysterna	39lt	24lt	16lt	€57,915	€45,896	€12,019	€1.201,90
Renault Magnum 480	34lt	20lt	14lt	€50,490	€38,674	€11,816	€1.181,60
Renault Premium 460	34lt	20lt	15lt	€50,490	€39,315	€11,175	€1.117,50
Renault Midlum	22lt	14lt	8lt	€32,670	€25,918	€6,752	€675,20
Iveco Eurocargo	22lt	14lt	8lt	€32,670	€25,918	€6,752	€675,20
MAN TGA	35lt	25lt	12lt	€51,975	€44,817	€7,158	€715,80
DAF XF	32lt	20lt	12lt	€47,520	€37,392	€10,128	€1.012,80
Scania R420	34lt	25lt	9lt	€50,490	€42,894	€7,596	€759,60
Scania R500	38lt	28lt	10lt	€56,430	€47,990	€8,440	€844,00

ATTENTION: the savings calculations over 10000 Km are approximate and may vary based on fuel costs

Prices recorded in Italy in January 2020, Diesel = 1,485 €/L LPG = 0,641 €/L

FAQ

Where it is installed the system?

Each vehicle is installed differently, after viewing and analyze the spaces, we are able to indicate where to install it.

How much time require the installation?

Installation of the complete conversion system require between 2 to 3 days, depending on the vehicle.

I have a vehicle approved for transportation of goods dangerous ADR?

The kit is designed for the dedicated installation also on homologated vehicles for transport of dangerous ADR goods.

Does it change the EURO classification of the vehicle?

Absolutely not! Once the system has been installed, the regulations for which the vehicle has been homologated remains unchanged. If the vehicle was born as Euro 3 remains Euro 3, with an important one advantage: registration certificate comes updated as vehicle LPG regulation R67 / 01. It can regularly circulate without blocking or restriction.

Running on LPG does the vehicle loose power?

No! By mixing Diesel / LPG it increases the torque and consequently the power, you will get a more performing vehicle, ecological, economic and you will enjoy all the benefits of LPG.

In case LPG finish will the vehicle stop to run?

No! The kit is set in the auto exclusion in case of lack of fuel, heating engine, electronics malfunction, the vehicle automatically switches to solo Diesel.

Does the system interferes with the original electronic of the vehicle?

The system in any case interferes with the original electronic.

Does the original vehicle engine be modified?

The system is not invasive and no original parts are modified.

DIESEL MIX-FUEL SYSTEM



**BEFORE
SPARK MIX-FUEL
SYSTEM INSTALLATION**



**AFTER
SPARK MIX-FUEL
SYSTEM INSTALLATION**

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