

WELCOME



AC SA Company Presentation 2012

AGENDA / CONTENT



the company



r&d and production



products and current projects

MISSION

To constantly improve our products in order to meet the expectations of our customers and global market in the area of advanced systems using alternative energy sources.

VISION

To become a leading global supplier of complete alternative energy systems.



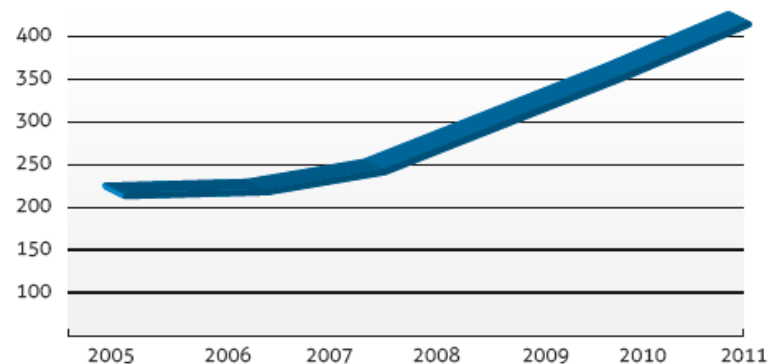


DID YOU KNOW THAT...
we are No. 1 in Poland and many other countries?

WHO WE ARE

- Polish leader and also an important world's manufacturer of automotive LPG/CNG systems under STAG brand
- **13,000 m² of floor space**, with its own research and development center,
- employs **400** full- time personnel,
- employs a team of more than **40 engineers** in its research and development division,
- develops and launches the mass production of dozens of designs and prototypes of new products every year,
- has a modern machine park,
- highly- developed distribution network, with it's own chain of Partner Service Workshops,
- works with several hundred automobile Workshops specialized in installing AC products.

Employment in the years 2005–2011



A world map with countries colored in red, blue, and grey. Red countries include Russia, China, India, and Australia. Blue countries include the United States, Canada, Brazil, and most of Africa. Grey countries include Mexico, Argentina, and several nations in Europe and Asia.

PRODUCT MILESTONES 1986–2012

1986

establishment of AC Wytwórnia Czesci Samochodowych Company (AC WCS) with the following core business profile:

- production of oil heaters for Diesel engines;
- production of spare parts and accessories for mechanical vehicles.

1995

launching cooperation with a German contractor with respect to the production and export of electrical harnesses for tow hooks.

1999

STAG line: E, G, W, L, 50, 100 – electronic injection controllers for autogas systems.

2004

new products: STAG-200 – an electronic controller for advanced autogas sequential injection systems;

2006

design and production launch of STAG-300 controllers in an aluminum casing;

2008

tripling production capacity for autogas system controllers; new product: STAG 4

2009

new product highlights:

- STAG-300 controller with a 3D presentation of mapping;
- STAG-300 Premium – new generation of autogas system controllers offering communication with any OBD system

2011

new product highlights: STAG 400 DPI, STAG-300 ISA2

2012

launching the Research & Development Center; new product highlights: STAG-4 QBOX, STAG DIESEL



WARSAW STOCK EXCHANGE

On August 11th, 2011 the company made its successful debut
on the Warsaw Stock Exchange



AWARDS

Awards and prizes that have been granted to the Company confirm the high quality of the offered products, its excellent financial standing and dynamic growth and development.



OEM and 0-km market

AC SA manufactures and supplies dedicated system for OEM 0-km car line powered by CNG or LPG. Designed systems meet **the high technical requirements provided by manufacturers**. Products supplied by AC SA recognized as high quality and reliability components have influenced us to gain customer trust and loyalty of 0-km gas equipped cars offered by dealers.

During last period due to involved parties in the project **the interest of offered models powered by gas system increased** because customers noticed benefits regarding the **characteristics and performance of AC systems** operating for a long without any problems.





DID YOU KNOW THAT...

every single minute one vehicle is fitted with LPG/CNG controller produced by AC?



R&D AND PRODUCTION

ENGINEERING AND R&D

The innovative character of products is ensured by the highly qualified and experienced team of over 40 electronic, mechanical and IT engineers.

The existing Research and Development Department significantly contributed to the fact that the company has become the leader among the manufacturers of LPG/CNG systems in Poland.

Taking a step forward in the field of research, the company created the Research and Development Centre and started work in the new building on February 2012.

In the area of more than 2000 m², the team of designers and scientists will be able to continue the R&D works related to the development of new technologies for products used for supplying engines of motor vehicles with alternative fuels.

UNIA EUROPEJSKA
EUROPEJSKI FUNDUSZ
ROZWOJU REGIONALNEGO



PRODUCTION

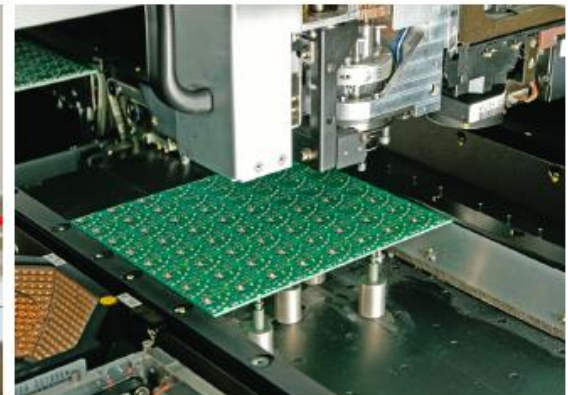
The Company owns **state of the art** machinery and equipment. Most components are made in wholly automatic, precise and **efficient** technological lines.

In order to secure its **leading position** in the industry, AC SA regularly upgrades its machines and equipment. AC SA acquired 26 modern machines for the total value of over PLN 8 million last year.

Production in AC SA is organised in four main production departments: Electronics, SMD, Electric Wire Groups and Mechanical Department.

AC SA manufactures details from polypropylene, polyamides, ABS and reinforced plastics for own production and in cooperation.

All machines have **full crimping and seal application control** as well as integrated tools for measuring the tip crimp height and tensile strength. All manufactured wire groups are **computer tested**.



WIRING HARNESSES

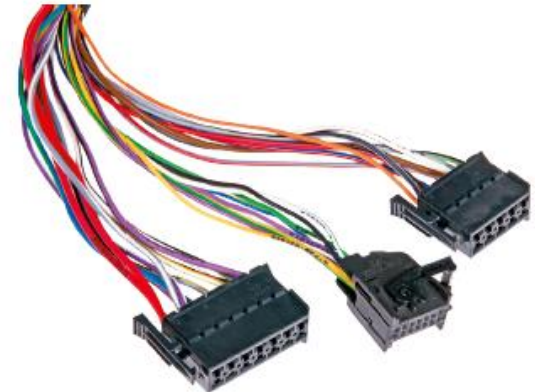
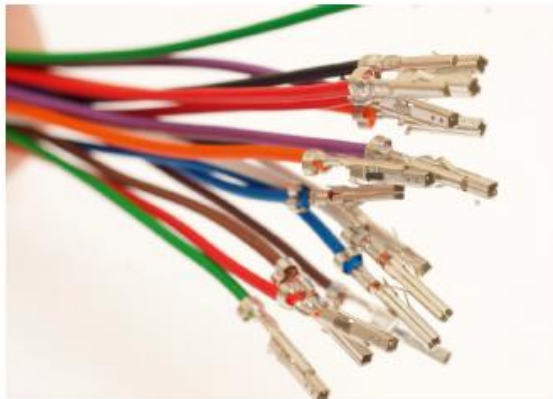
We specialise in processing wires with a cross-section of 0.35 mm² to 2.5 mm² and a length of 60 mm to 10,000 mm. The maximum size of the wires we process can be increased by adding further transporters to ampomators.

Wiring harnesses are made of wires available in about 50 colours, of which 32 are the primary colours in the separator. The selection of colours in a wiring harness depends on the customer's individual preferences.

We are able to supply approx. 50,000 wiring harnesses, each made up of over 55 wires, per month.

We make wiring harnesses for:

- towing hooks,
- battery (ground) cables,
- automotive gas systems,
- tractors,
- fork-lift trucks and motorcycles,
- special-purpose vehicles (including ambulances and fire trucks).





DID YOU KNOW THAT...

the length of the wiring harness produced by AC during one month
are enough to circle the earth 17 times?



PRODUCTS AND CURRENT PROJECTS

WIDE RANGE OF PRODUCTS

AC SA offers a wide range of products available in a number of material and design variations, as well as consulting and aftersales services.

Our range includes over 200 innovative products, the most important of which are microchip controllers, reducers and injection rails for automotive gas systems. We have developed CNG systems. STAG gas injection microchip controllers which are now the most recognizable and **most frequently purchased brand** of electronic components for LPG/CNG.

Our wide range of products for the autogas system market includes:

- gas injection controllers,
- emulators,
- reducers
- injectors
- testers,
- switches,
- fuel level indicators,
- timing advance processors,
- interfaces, including a Bluetooth interface,
- scanners.



STAG 400

DPI

STAG 400 DPI is a modern sequential injection controller. Designed for direct petrol injection engines and it is the only controller on the market guaranteeing precise gas injection within full RPM range.

STAG 400 DPI is produced based on the latest technology and top-quality electronic components. And is equipped with innovative software featuring a number of functions which makes STAG 400 DPI the most advanced and best for the direct petrol injections engines today.



Engine Code	Brand	Engine
BVY	Audi, Seat, Skoda, VW	2,0 FSI
BPY	Audi, VW	2,0 TSI
CAXA	Skoda, VW	1,4 TSI
CDA	Audi, Seat, Skoda, VW	1,8 TSI
LF3F	Mazda	2,0 DISI
BWA	Audi, Seat, Skoda, VW	2,0 TFSI, TSI
BAR	Audi, VW	4,2 FSI
CALA	Audi	3.2 FSI



STAG-4 BOX



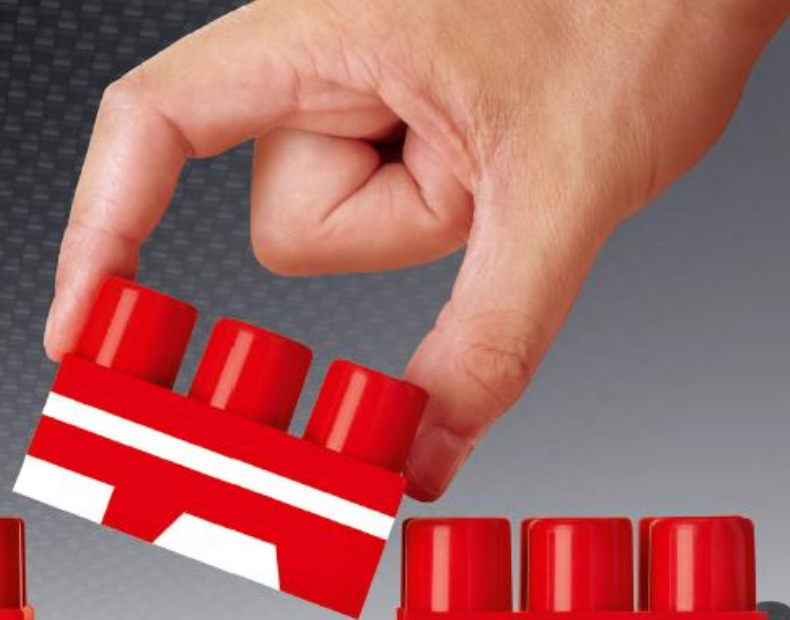
STAG
autogas systems



STAG DIESEL



STAG



THANKS FOR YOUR ATTENTION

www.ac.com.pl