

Presentation of the PEMES company

PEMES

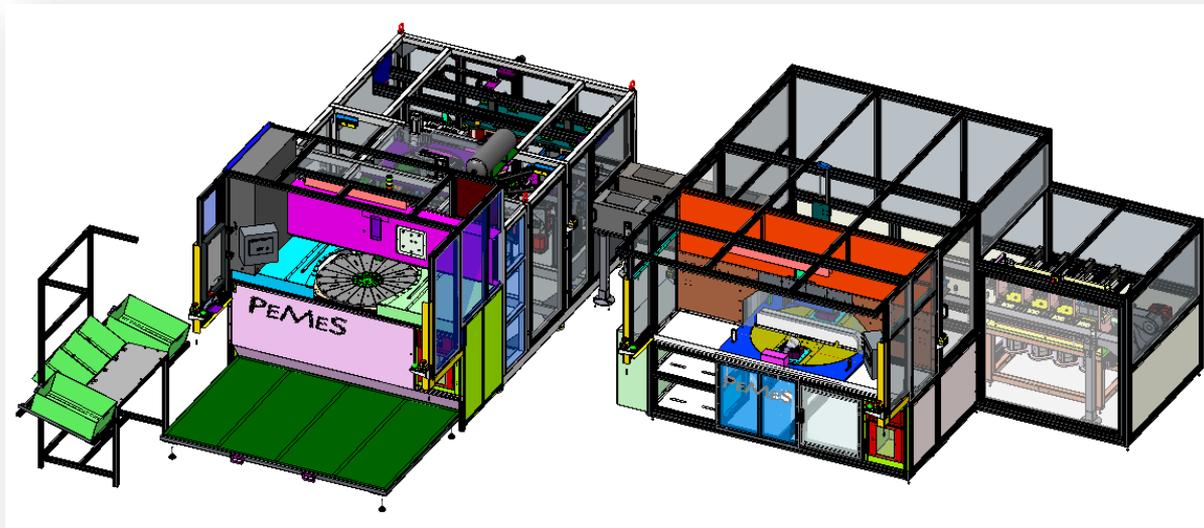


- The **PEMES** company was founded in 2010 in Warsaw;
- The company's founders have many years of experience in the construction of machines for Automotive;
- In addition, for several years Marcin Ogonowski and Pawel Gaca designed components for VW (whole cooling system for MQB platform, all air filters for MQB platform, air filter for Bugatti Veyron, air filter for Porsche etc.);
- The main customers include: **ZF-TRW, VOLKSWAGEN, NGK Ceramics, DANFOSS;**
- The other clients are **DELPHI, JOKE, ELEKTROPLAST, SETRAB;**
- Activity of the company is located in Radzymin and Stare Grochale near Warsaw;
- In 2014 **PEMES Produkcja** company was created as a wholly-owned subsidiary, dealing with the production of parts for machines and production of small series for industry (including automotive);
- Since 2010, company has been expanding very dynamically.

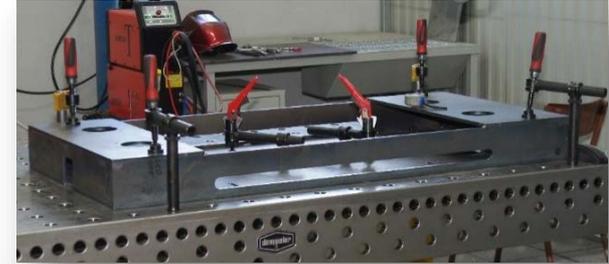
| Year | Number of projects | Number of employes |
|------|--------------------|--------------------|
| 2010 | 4 | 3 |
| 2011 | 20 | 9 |
| 2012 | 30 | 13 |
| 2013 | 22 | 21 |
| 2014 | 45 | 35 |
| 2015 | 29 | 48 |
| 2016 | 40 | 71 |
| 2017 | 53 | 90 |
| 2018 | 49 | 101 |

Company profile and our speciality

- **PEMES** is mainly engaged in assembly automatization and control of product quality. Among other things we perform:
 - assembling machines;
 - measuring or control machines;
 - specialized technology machines;
 - production lines;
- The machines are manufactured on an individual customer order.
- The main customer is Automotive industry.



- Currently in **PEMES** there are working ca. 101 employees:
 - 19 design engineers;
 - 14 automatic engineers and programmers;
 - 18 mechanics and electricians;
 - 42 people in the production of parts;
 - 8 others (Administration, HR, Purchasing);
- **PEMES** company has 18 licenses of CAD software (Creo 2 and Creo 3) and 1 license of CAM software (Creo).
- We have two plants with a total area of about 2350 m2.
- The production potential of **PEMES**:
 - 4 CNC machining centers – 2xMIKRON, KIMLA, TBI;
 - CNC Press brake bending – DURMA;
 - CNC plasma cutter - STIGO;
 - 9 conventional machines;
 - specialized welding chamber;
- We have been certified: ISO 9001:2015



System
zarządzania
ISO 9001:2015

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Pemes in 2018 built a new headquarters in Radzymin (near Warsaw).



Airbags

From the beginning **PEMES** is closely related to the production plant TRW. With the gained experience, the company has become worldwide specialist in driver airbags and curtain airbags.



Folding machines

- driver airbags;
- passenger airbags;
- side airbags;
- curtain airbags;
- knee airbags;

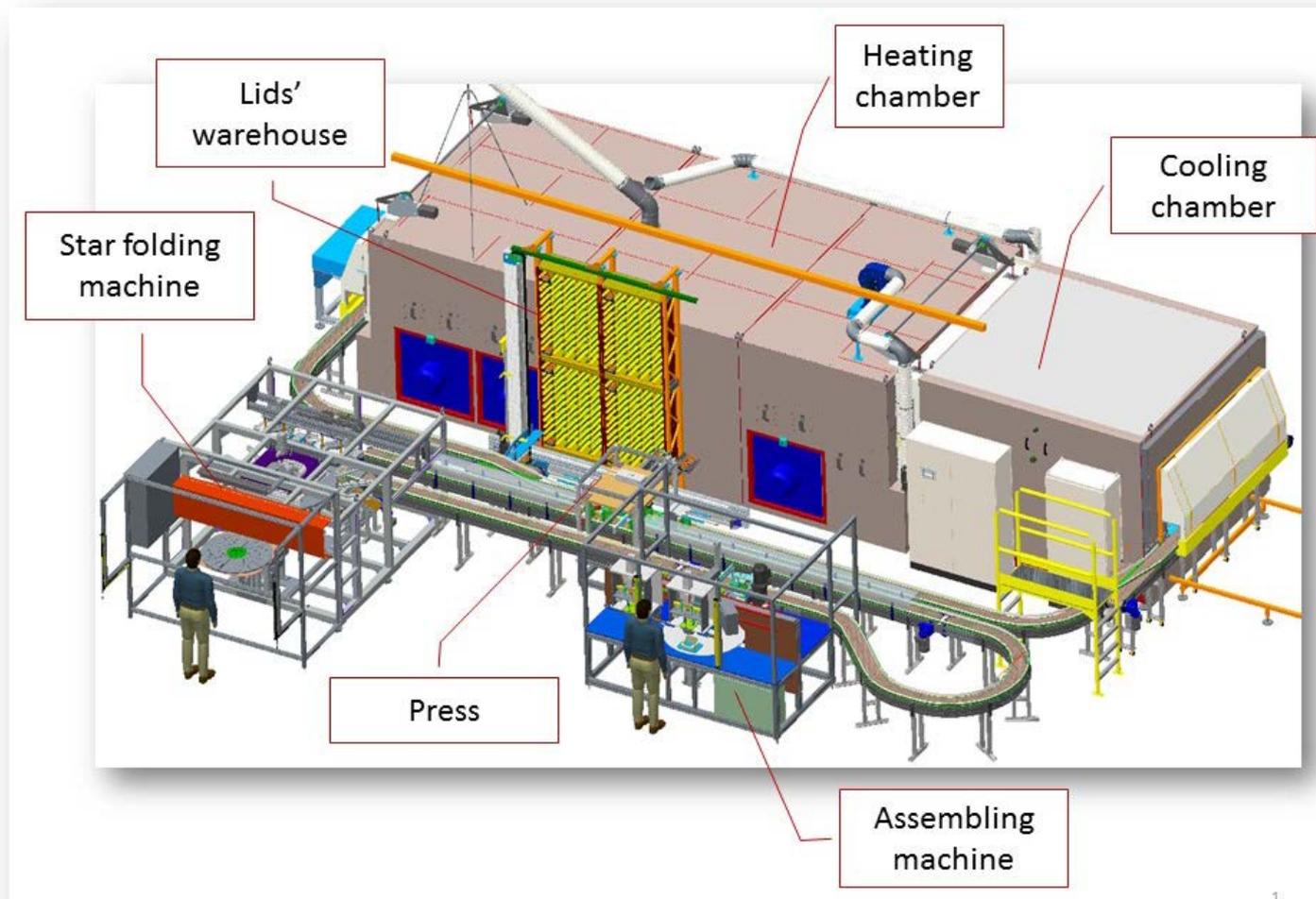
Experience: about 70 folding machines.



Automatic lines for driver airbags, knee airbags and passenger airbag

PEMES has developed an innovative automated technology for the production of driver airbags.

Experience: 9 lines



Assembly stations for airbags

- screwing;
- clamping clamps;
- Crimping;
- riveting (traditional and radial);
- closing the housing;

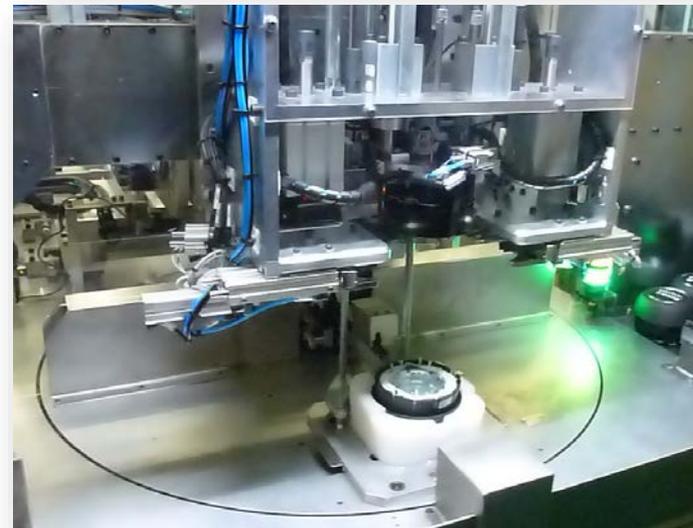
Experience: about 120 machines.



Riveting station



Crimping press

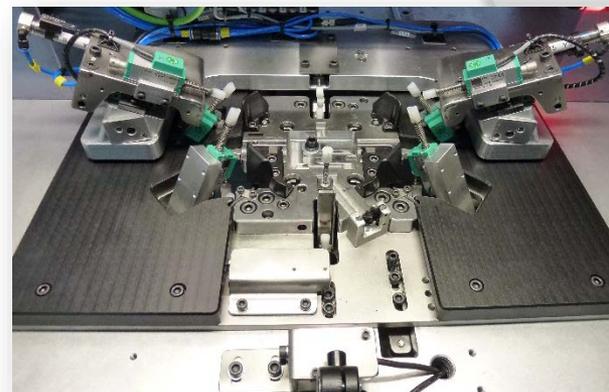


Assembly station

Control stations for airbags

- geometry measurement;
- electrical measurements;
- vision control;
- completeness assembly;
- force and torque measurement;

Experience: about 40 machines.



Geometry control station



Assembly and final control station



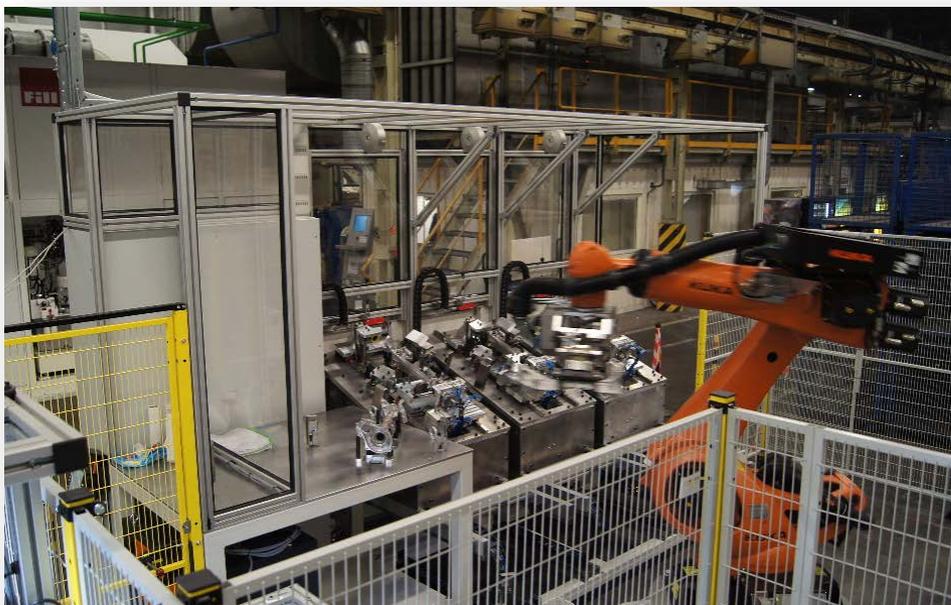
Vision control station

Control of tightness (VOLKSWAGEN)

The second important specialization of the **PEMES** company are tightness tests.

- aluminium casting test (cylinder heads, steering gear box);
- glass vials for pharmaceutical;
- cooperate with the ATEQ company;
- we make fully automated production lines;

Experience: 11 machines.



Fully automated control of tightness



Fully automated control of tightness

Automation

We automate the assembly process also other products:

- assembly seat belts;
- assembly of electrotechnical products;
- assembly coolers;

Experience: about 20 machines.



Welding station



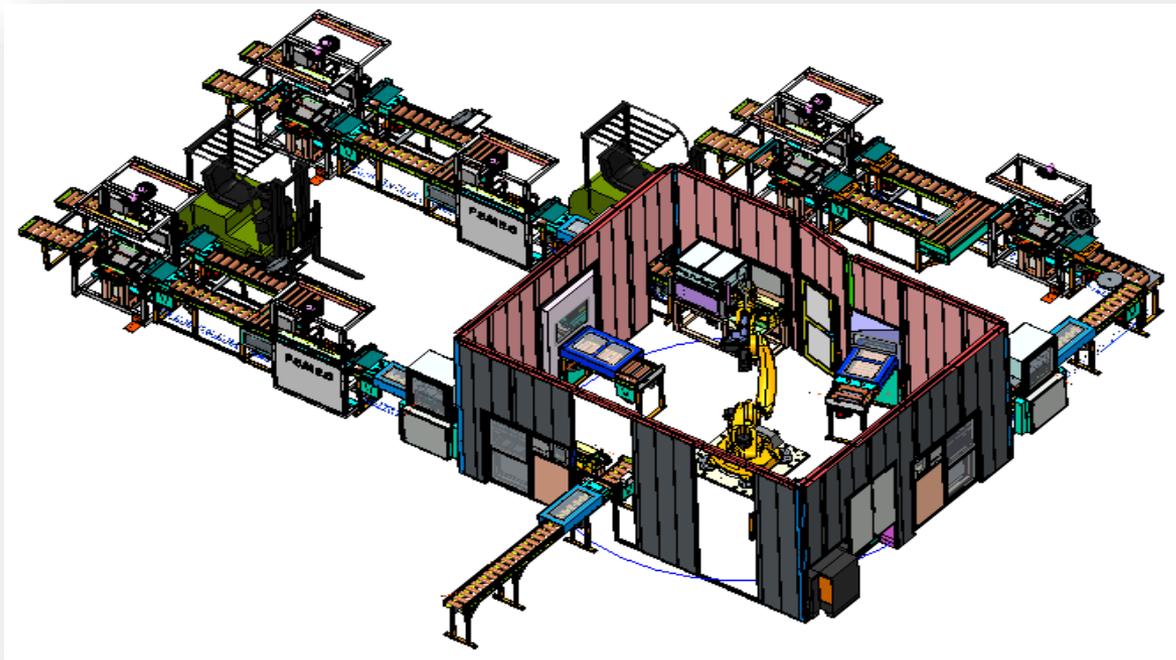
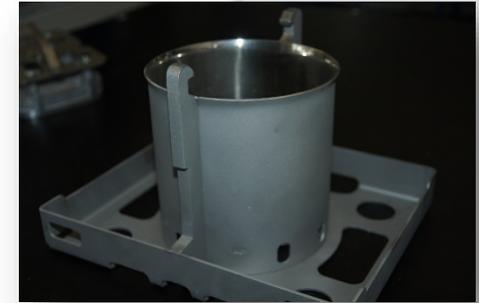
Assembly safety belt station



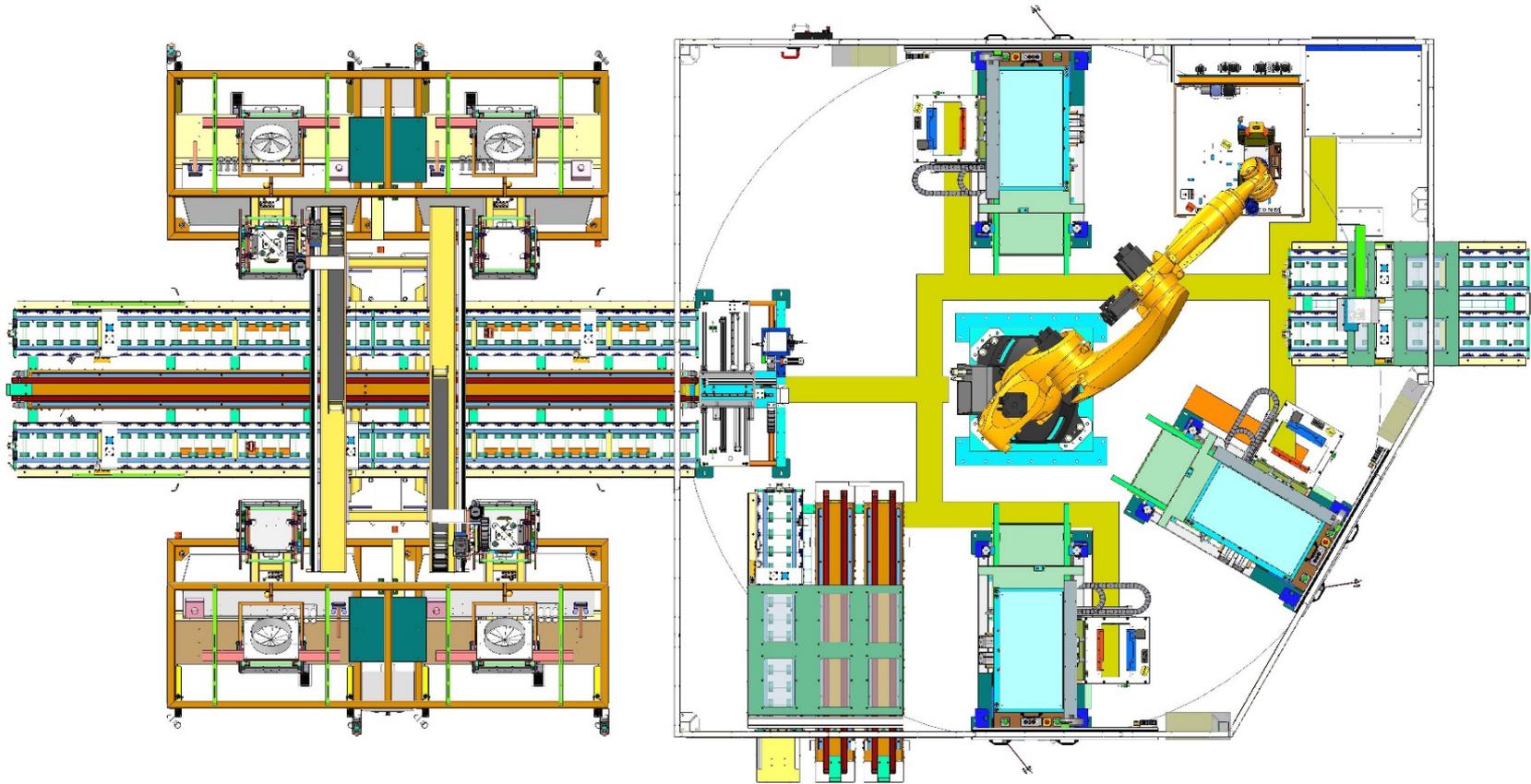
Welding station

The company's innovation

- cooperation with the customer in creation of the technological proces;
- creation of production line concepts for the customer;
- creation of innovative construction solutions;
- implementation of modern technical solutions in automation industry;
- improvement of the final product together with the customer;
- development of organisational solutions for the production line;
- continuous improvement of machines built by us.



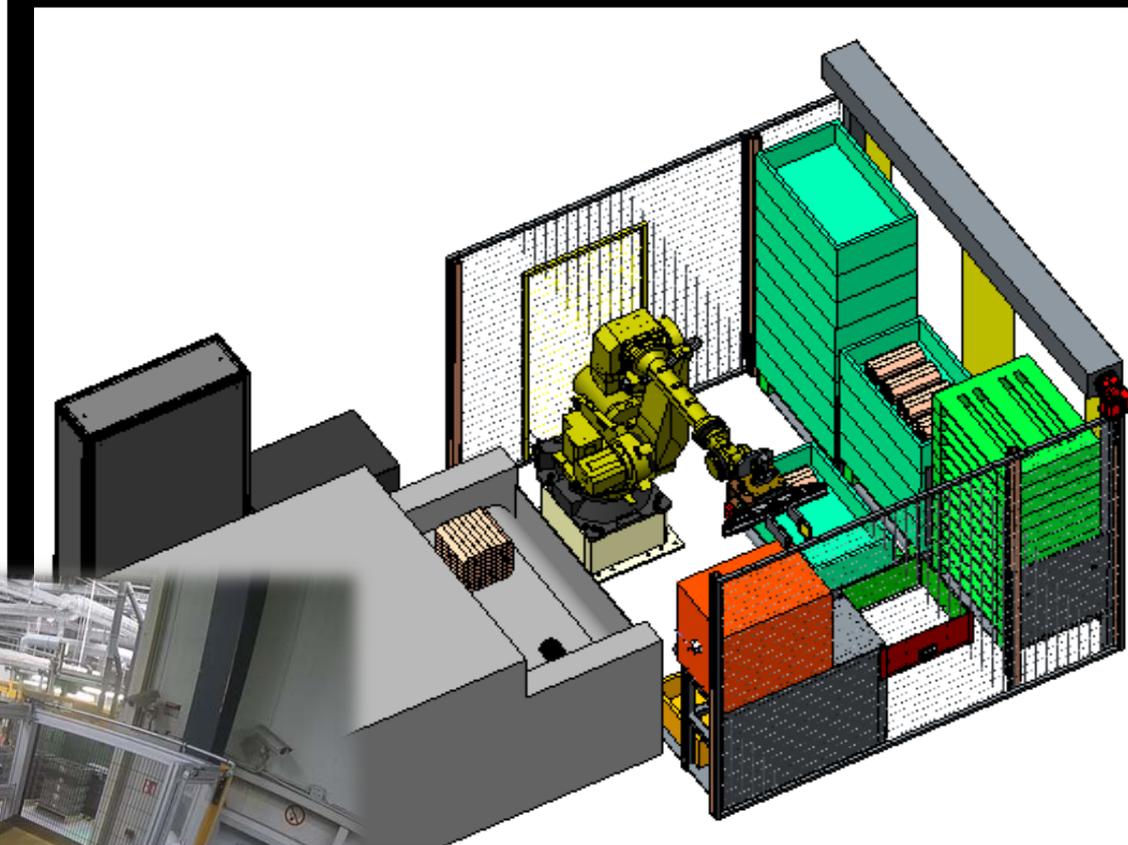
Volkswagen Polska,
Control station for air tightness of cylinder heads,
cycle time: 20sec



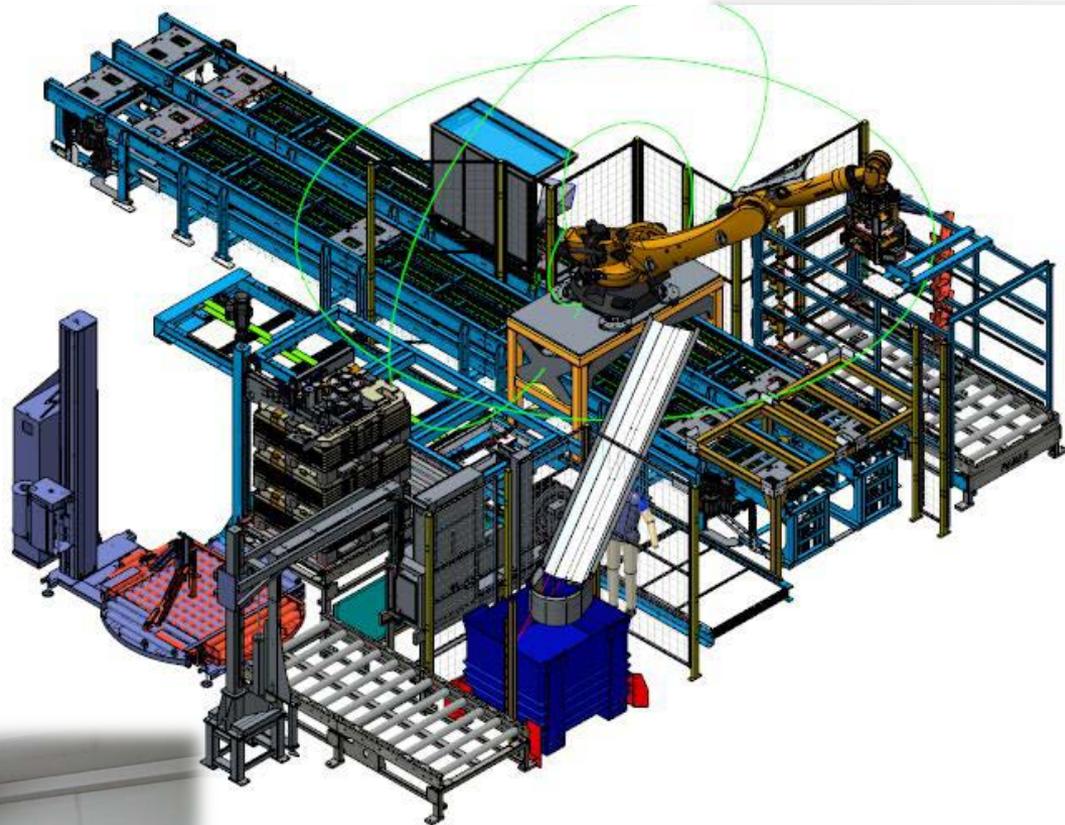
NGK CERAMICS,
Control and palletizing
station
cycle time: 40sec



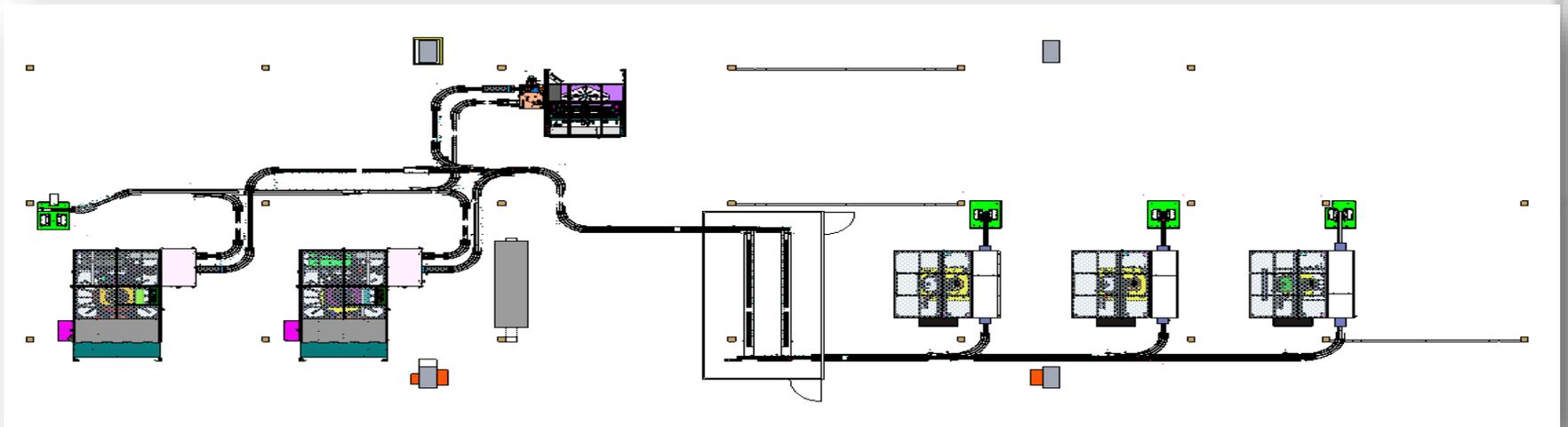
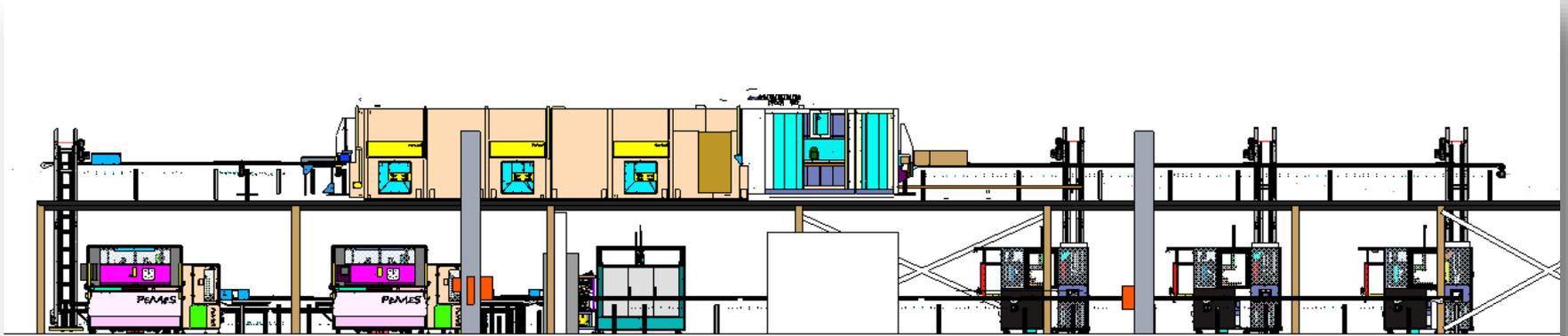
GOPR1845



Volkswagen Polska,
Palletizing station,
cycle time: 20sec



Automatic lines for driver airbags (Timisoara - Romania)

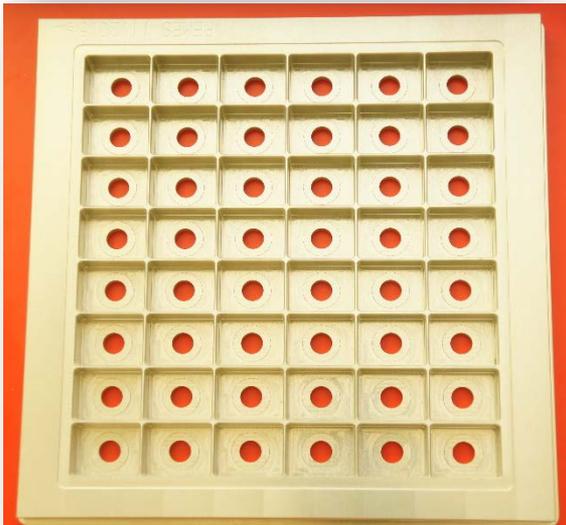
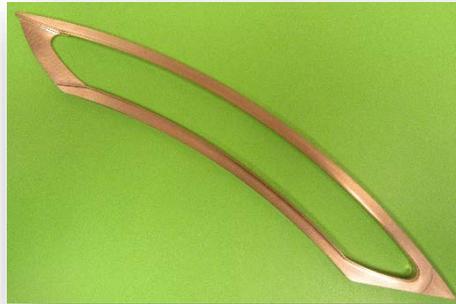


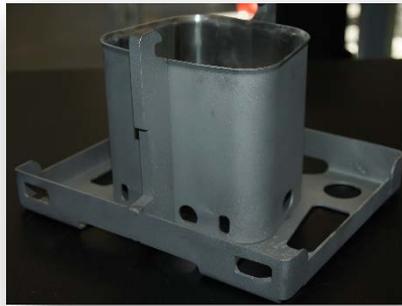
In 2014, was established a subsidiary company, which manufactures parts and welded assemblies for special devices.

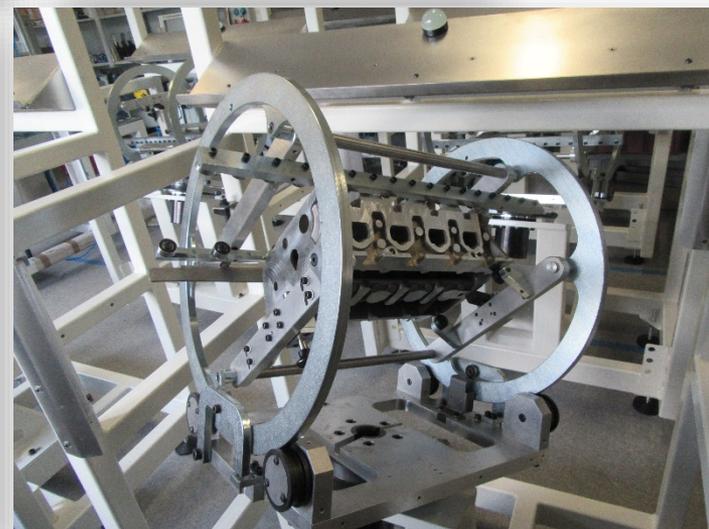
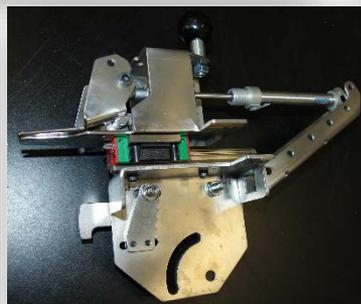
The company offers:

- welding with methods: MIG, MAG and TIG (carbon steel, stainless steel, aluminum and titanium);
- plasma, water and laser cutting;
- bending;
- milling parts;
- manual processing, powder coating, sandblasting;
- professional assembly.









Our machines produce components for cars



Thank You for Your attention.

PEMES

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