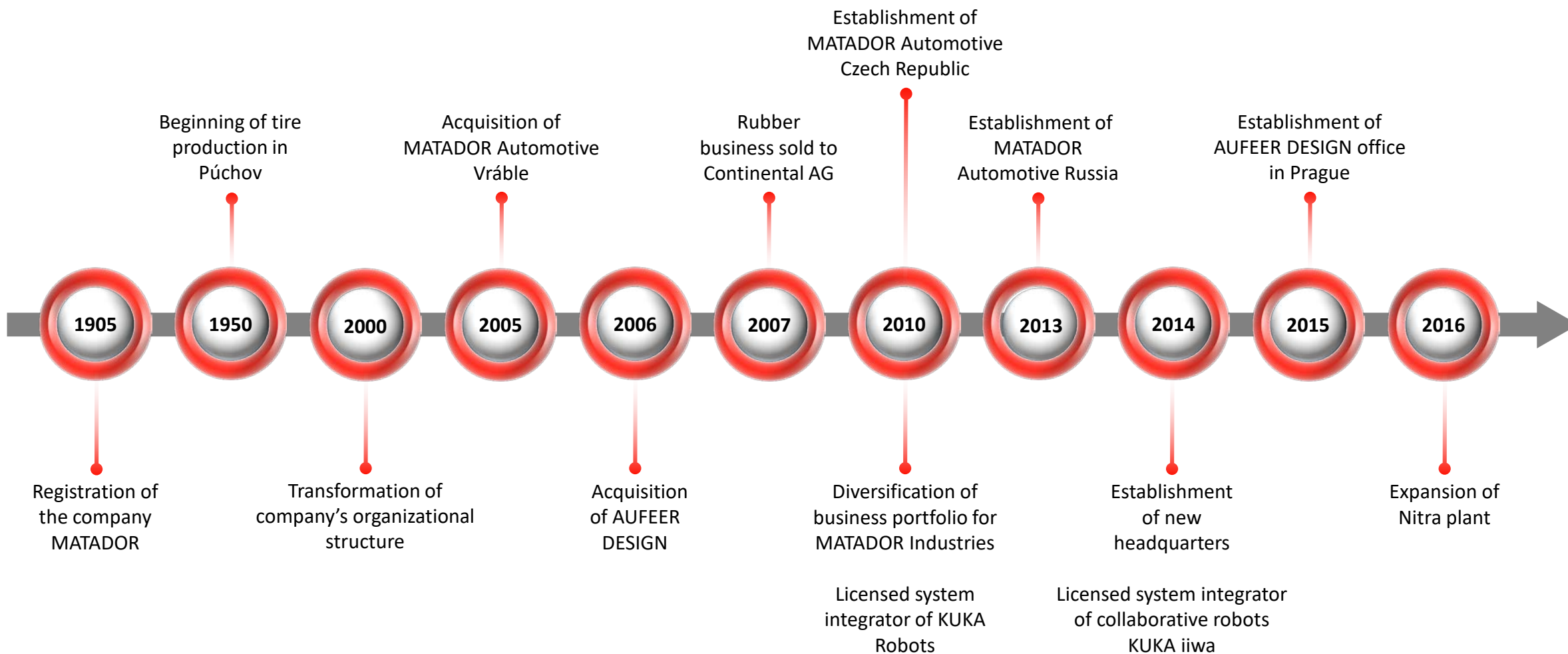




INDUSTRIAL AUTOMATION

engine for life



Engineering & development



Stamping tools



Industrial automation



Mechanical engineering



Serial production



GROUP HEADQUARTERS

SLOVAKIA Bratislava

ENGINEERING, RESEARCH & DEVELOPMENT

CZECH REPUBLIC Prague
Nový Jičín
Mladá Boleslav

SLOVAKIA Košice

SERIAL PRODUCTION

SLOVAKIA Vráble
Nitra

CZECH REPUBLIC Liberec

RUSSIA Nizhny Novgorod

FRANCE Douvrin

INDUSTRIAL AUTOMATION, STAMPING TOOLS AND MECHANICAL ENGINEERING

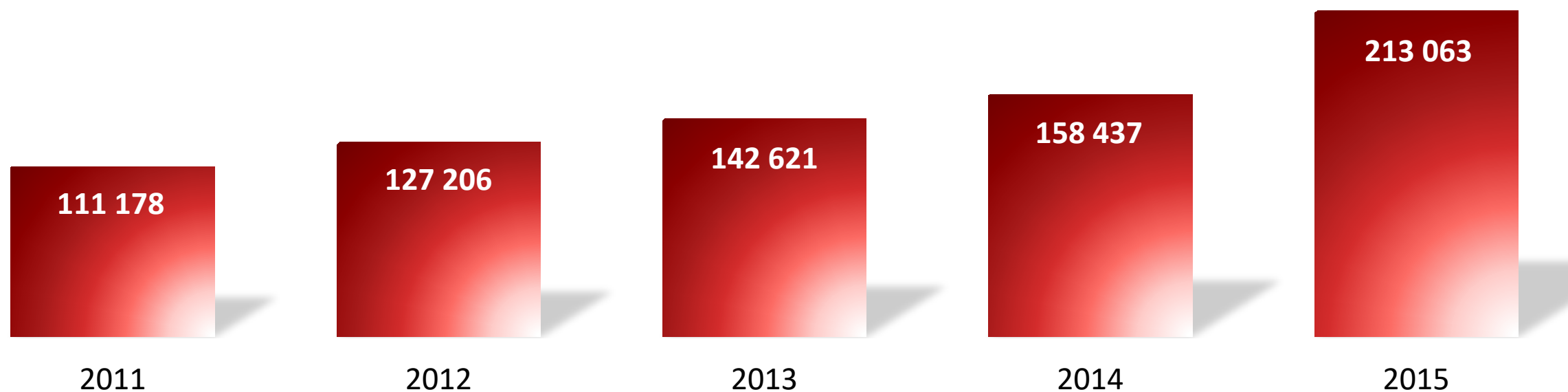
SLOVAKIA Dubnica n. Váhom



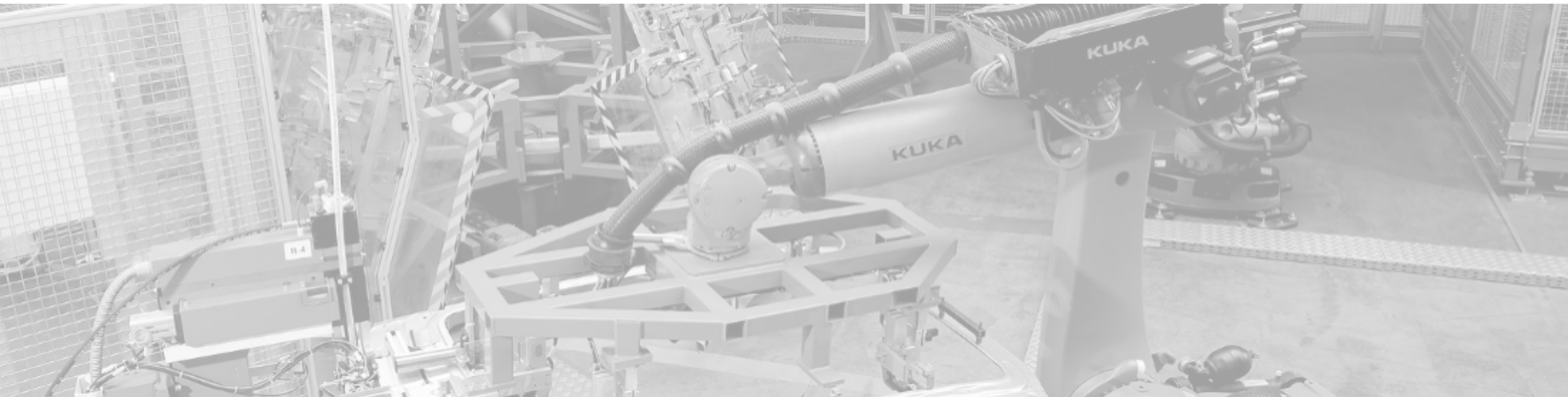


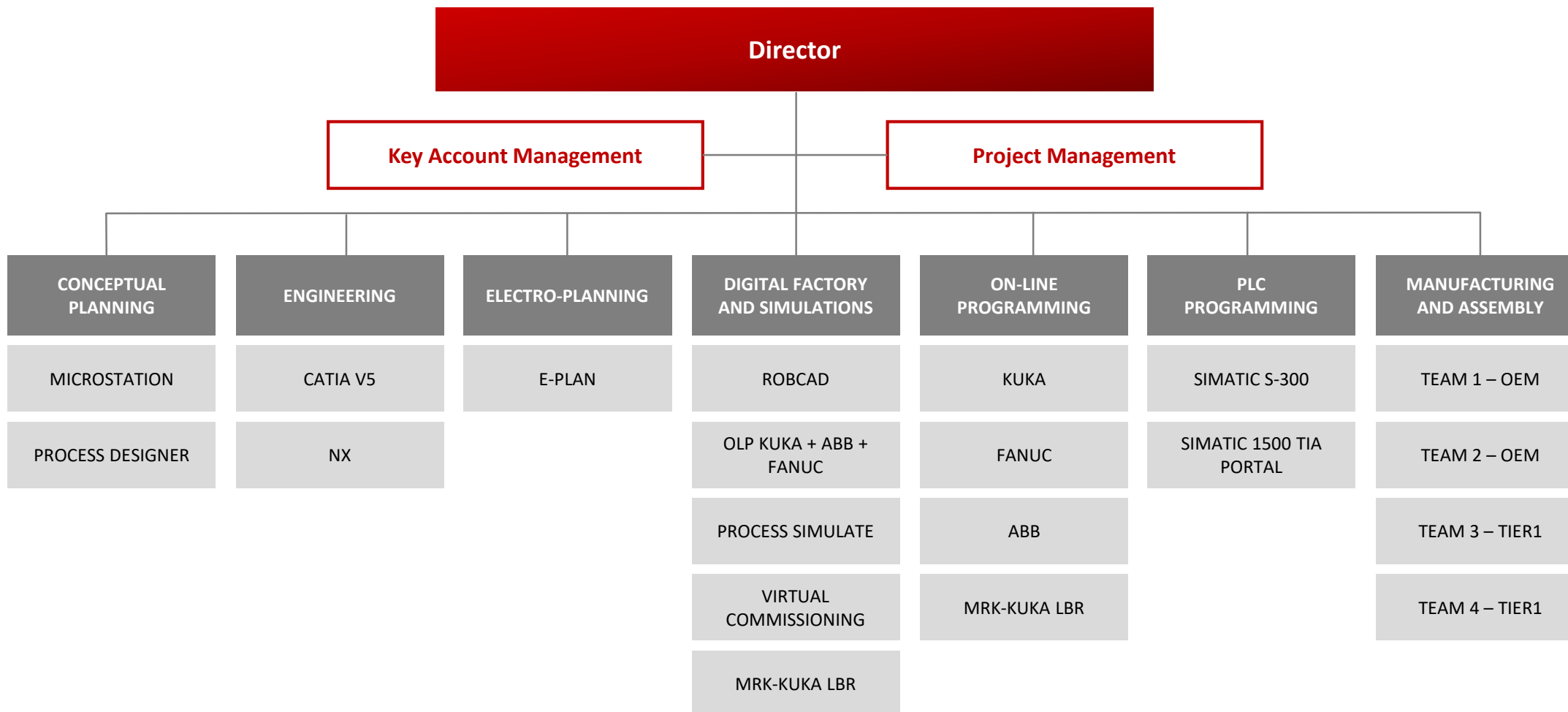
Sales (in tsd. EUR)

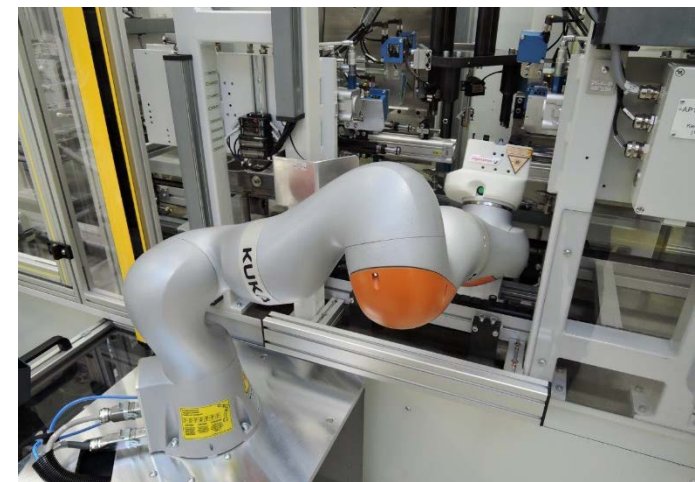
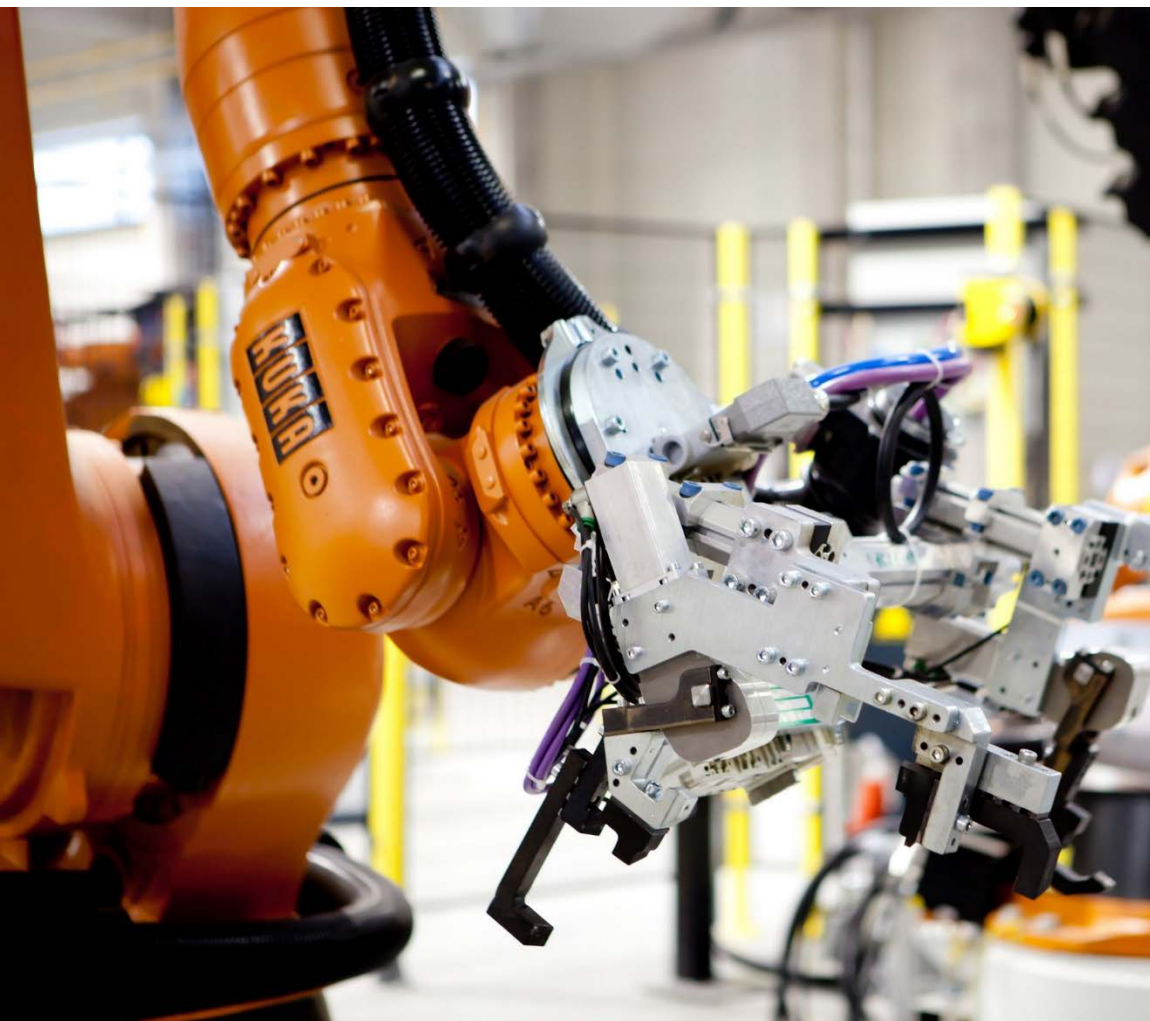
IFRS consolidated



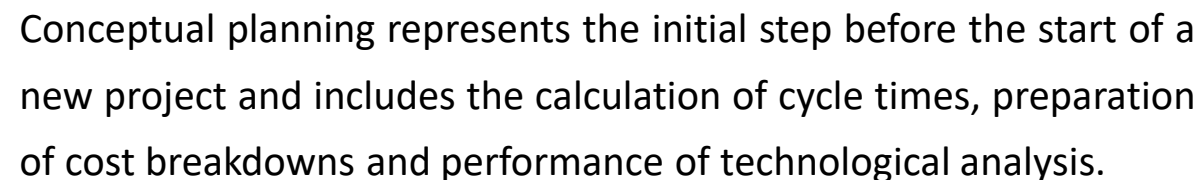
Industrial Automation



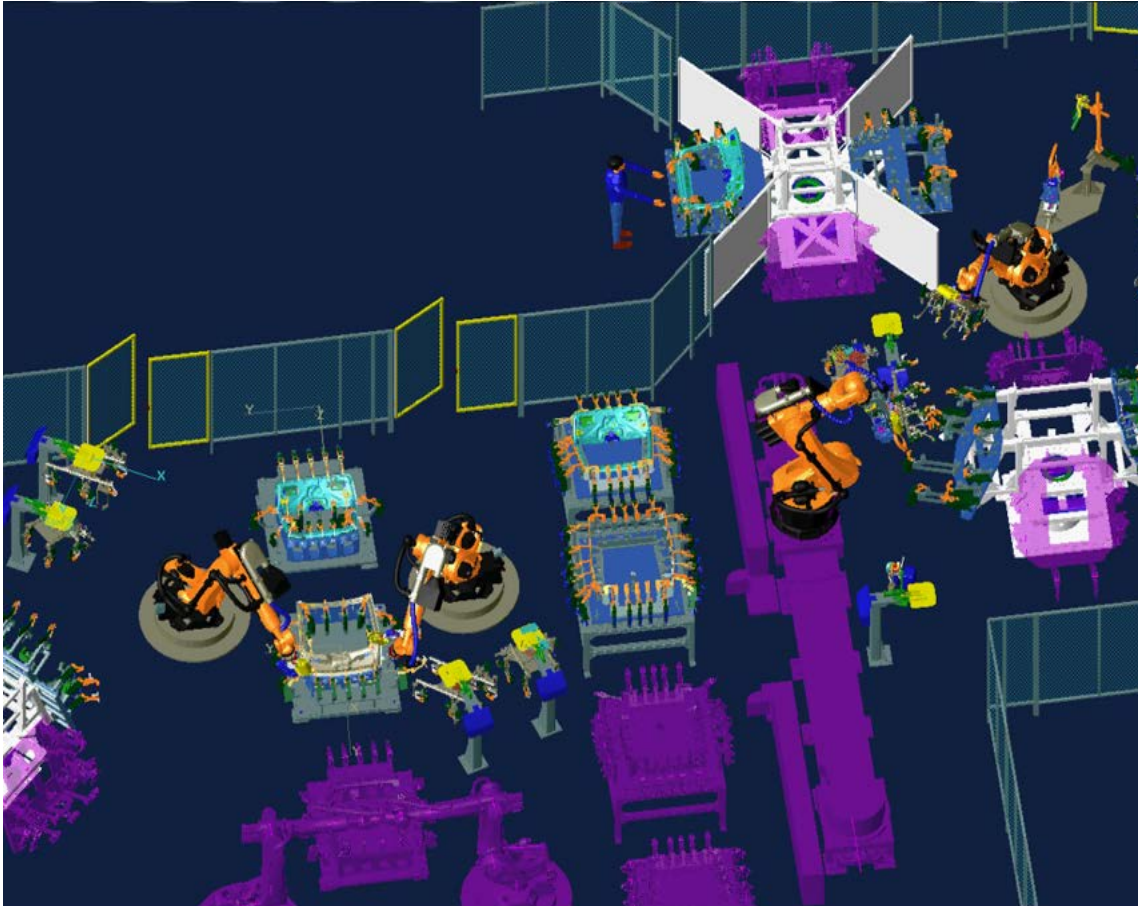




- Conceptual Planning
- Engineering, Simulations & Digital Factory
- PLC Programming
- Manufacturing & Assembly

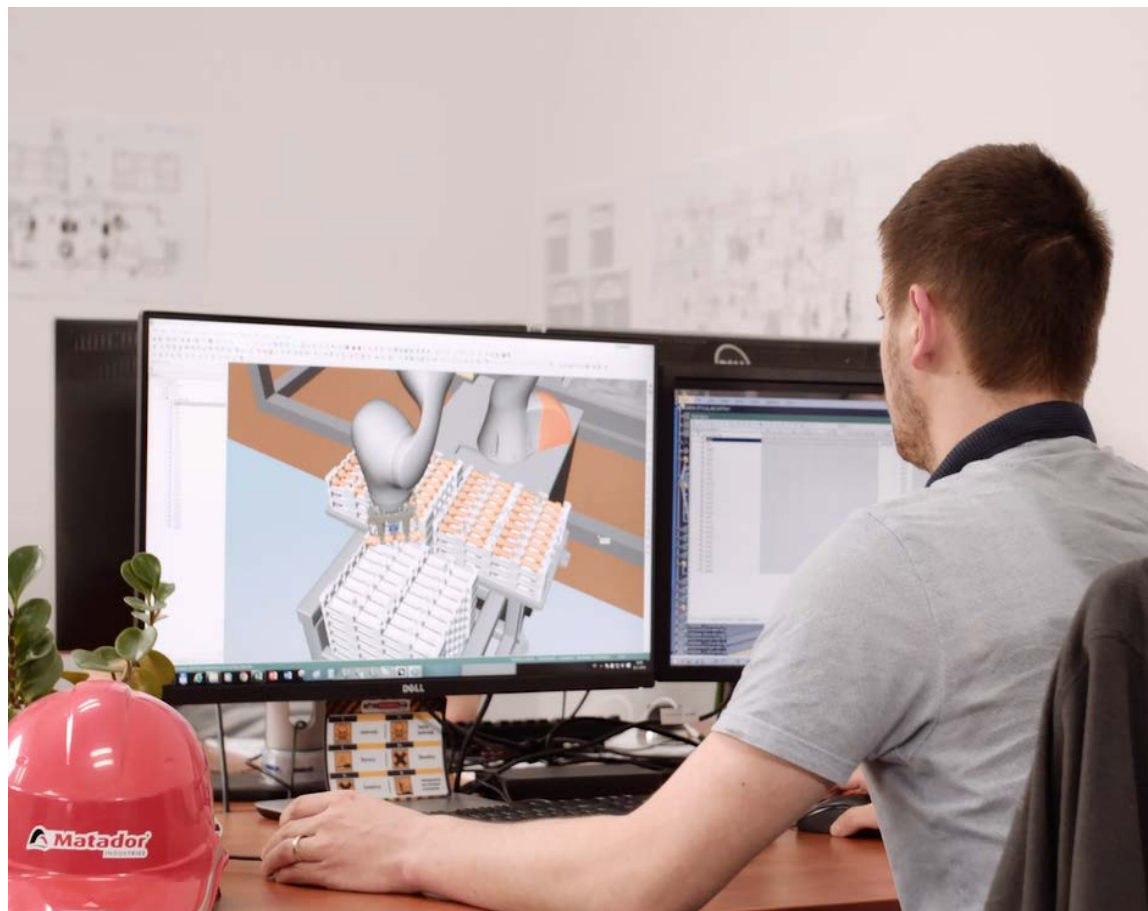


- Standardized application within each project
- Standalone service (e.g. SKODA Kodiaq in Russia – conceptual planning of all underbody automation lines and their sub-groups).



During the engineering phase we utilize a broad variety of software tools like Process Simulate, Process Designer, CATIA, AUTOCAD, MicroStation and EPLAN.

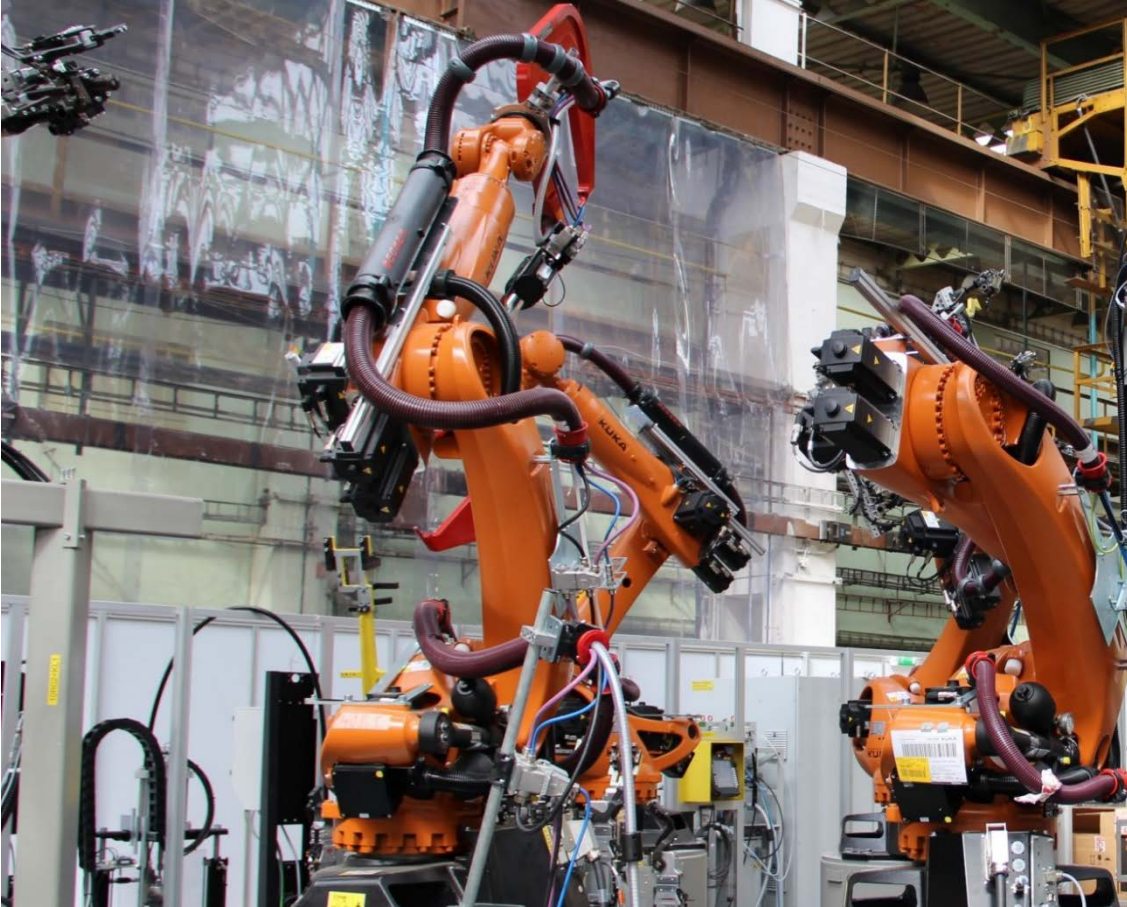
On top of that we optimize assembly processes, fine-tune commissioning times and prevent unexpected collisions during the assembly phase by means of virtual commissioning via Siemens Tecnomatix.



In-house developed PLC and robotics standards guarantee highest quality together with faultless operation.

We use the software TIA Portal and the PLC control system SIEMENS S7 - 1500 to develop and program our solutions.

During the last years we became fully proficient in object oriented programming (JAVA), which we use for our collaborative applications.



Our 2000 m² of assembly space guarantee seamless tryouts before the lines are delivered and installed at the production site of our customers.

Here our assembly teams with up to 40 people each ensure precise, efficient and failure free installations for our OEM or TIER 1 customers.



Highlights of the partnership with KUKA robotics

- 2011 – Matador became official system partner and integrator
- 2014 – First integration of KUKA LBR iiwa in Czech Republic and Slovakia

KRC

Total Implementations

More than 150 KRC robots

Reference Projects

AUDI Q7, AUDI Q8, COLORADO II, COLORADO III

Key Customers

BMW, SUZUKI, KWD, TOWER

VKRC

Total Implementations

More than 180 VKRC robots

Reference Projects

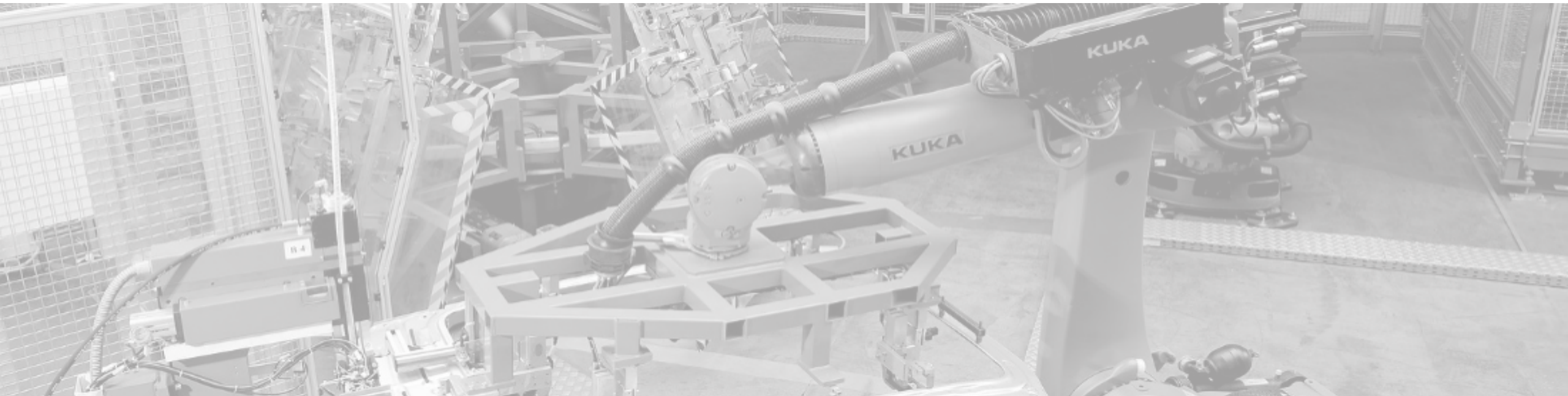
SEAT ATECA, ŠKODA KODIAQ, PORSCHE KTZ

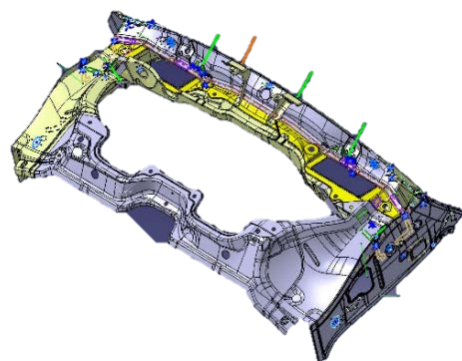
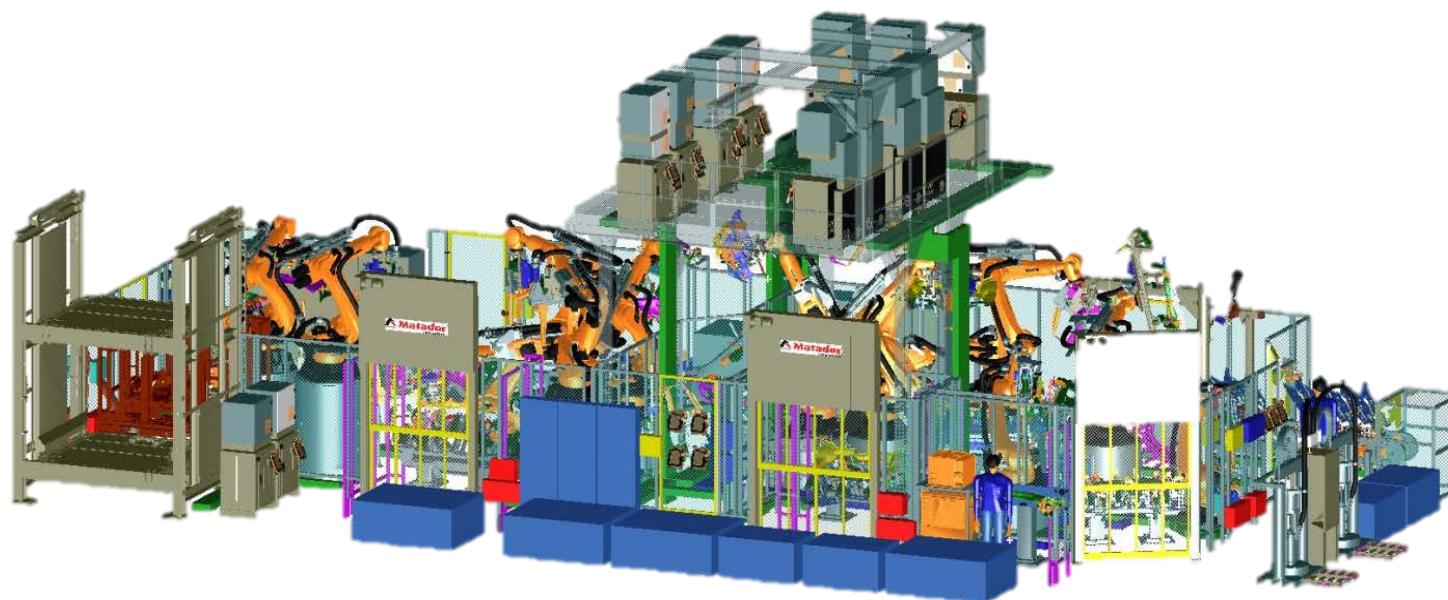
Key Customers

ŠKODA, AUDI, PORSCHE

Industrial Automation

Selection of Reference Projects





Project Highlight

Challenging space conditions in the production area made it necessary to place the welding and robotics cabinets on the second floor above the welding line.

Project

ŠKODA Fabia

Locality

Mladá Boleslav, CZ

Part

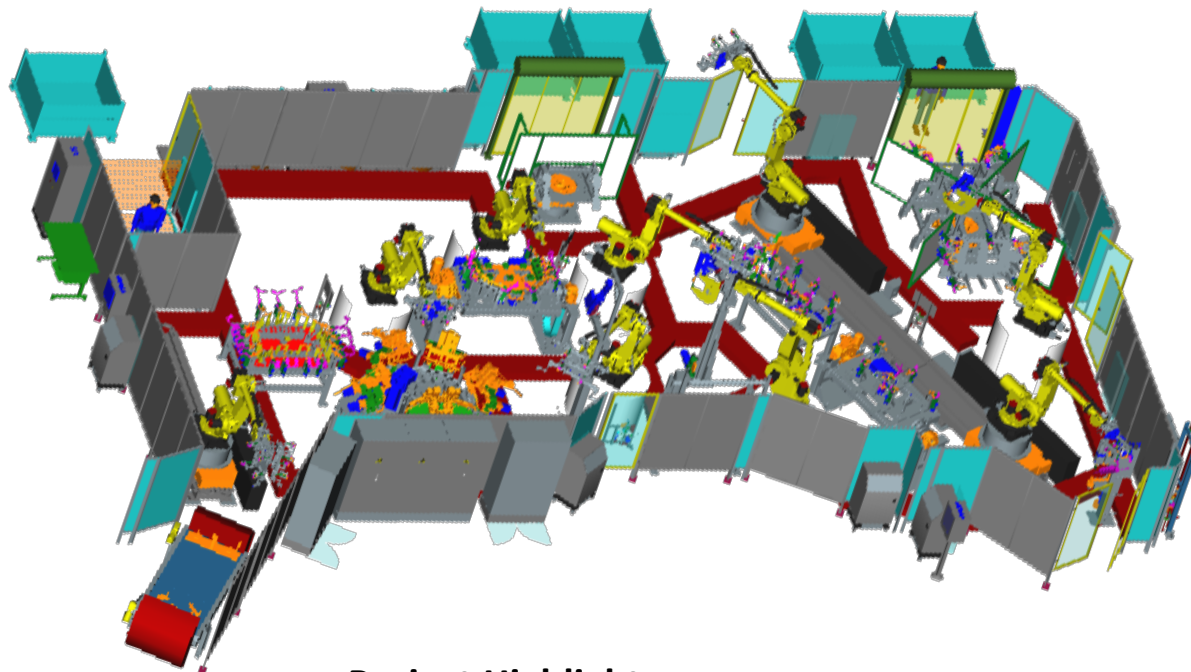
Engine compartment

Total Number of Robots

13 robots

ŠKODA





Project

ŠKODA Fabia

Locality

Mladá Boleslav, CZ

Part

Front hood

Total Number of Robots

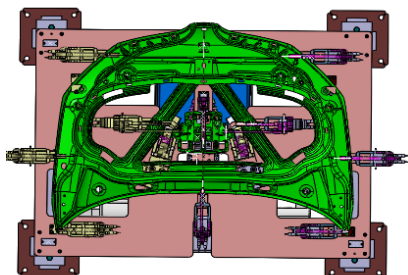
9 robots

ŠKODA



Project Highlight

First showcase of a conventional hemming operation via integration of an external stamping machine.





Project

ŠKODA Superb Combi and
Limousine

Locality

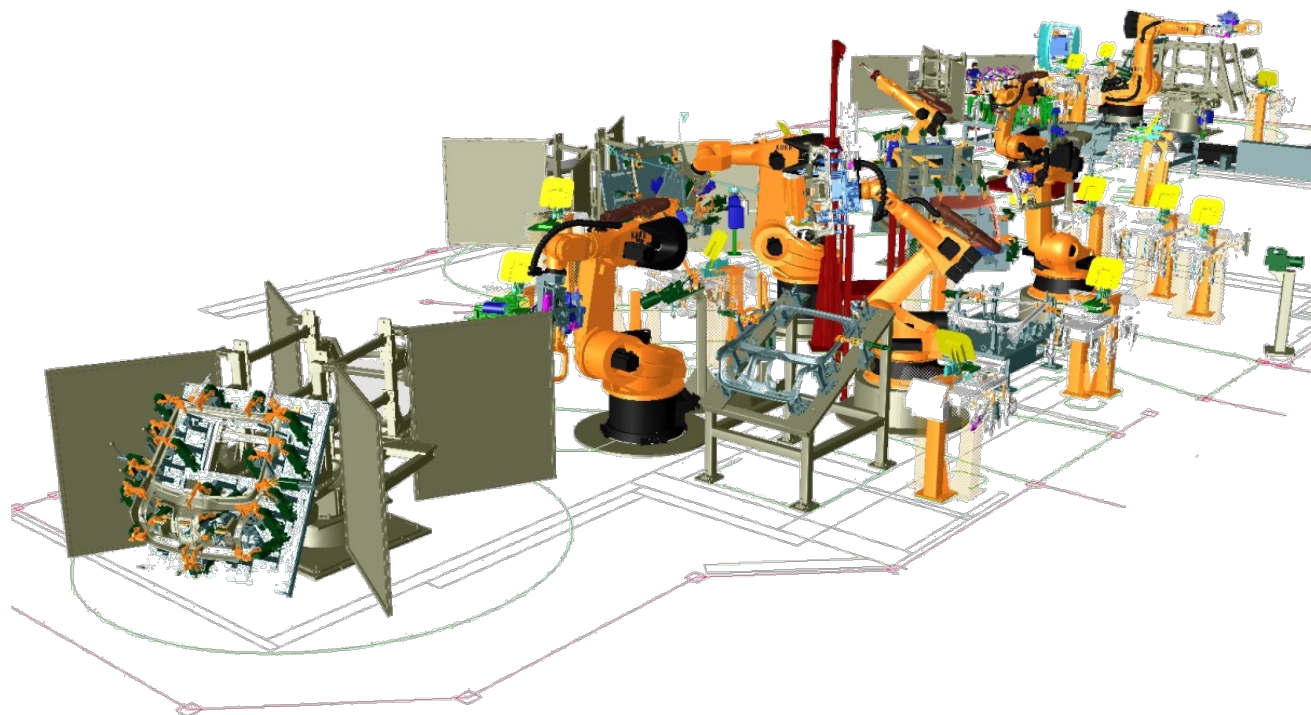
Kvasiny, CZ

Part

Tailgate

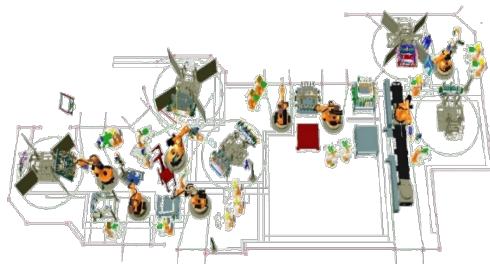
Total Number of Robots

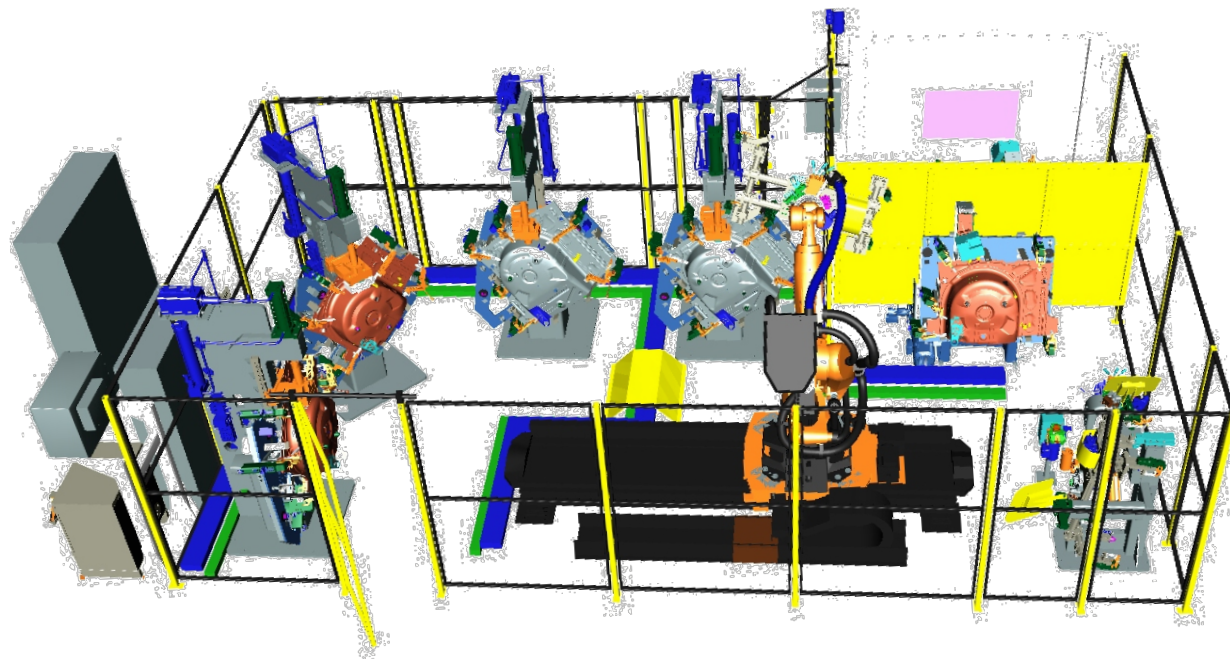
8 robots



Project Highlight

Second showcase where fully automated
roll hemming technologies were utilized.





Project

ŠKODA Rapid

Locality

Liberec, CZ

Part

Spare tyre compartment

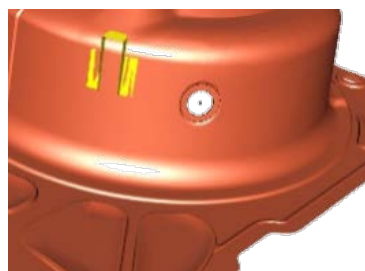
Total Number of Robots

1 robot

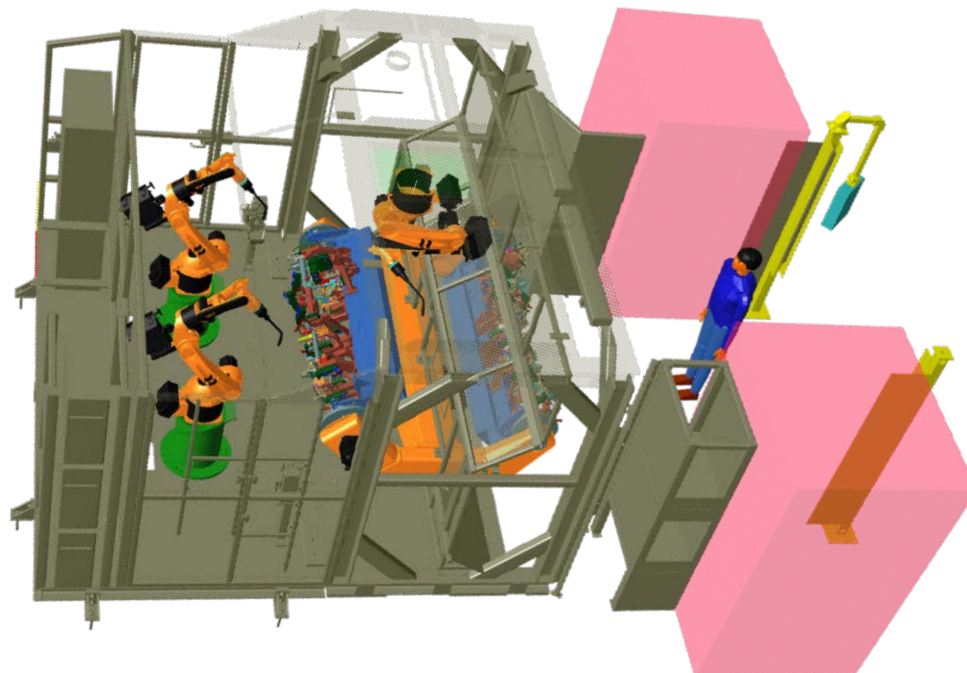
ŠKODA



Project Highlight



Changing the stamping tool during running production could be avoided – development of automated line with cutting and stamping operation.



Project Highlight

Modularization in every aspect – Cross car beam welding line solution made of standardized components - significant decrease of development and production time.

Project

ŠKODA Octavia, Yeti, Fabia, Rapid, VW Jetta, SUZUKI Swift and CITROEN C3 Picasso

Locality

Vráble, SK; Liberec, CZ and Nizhny Novgorod, RUS

Part

Cross car beam

Total Number of Robots

3 robots

ŠKODA





Project

AUDI Q7

Locality

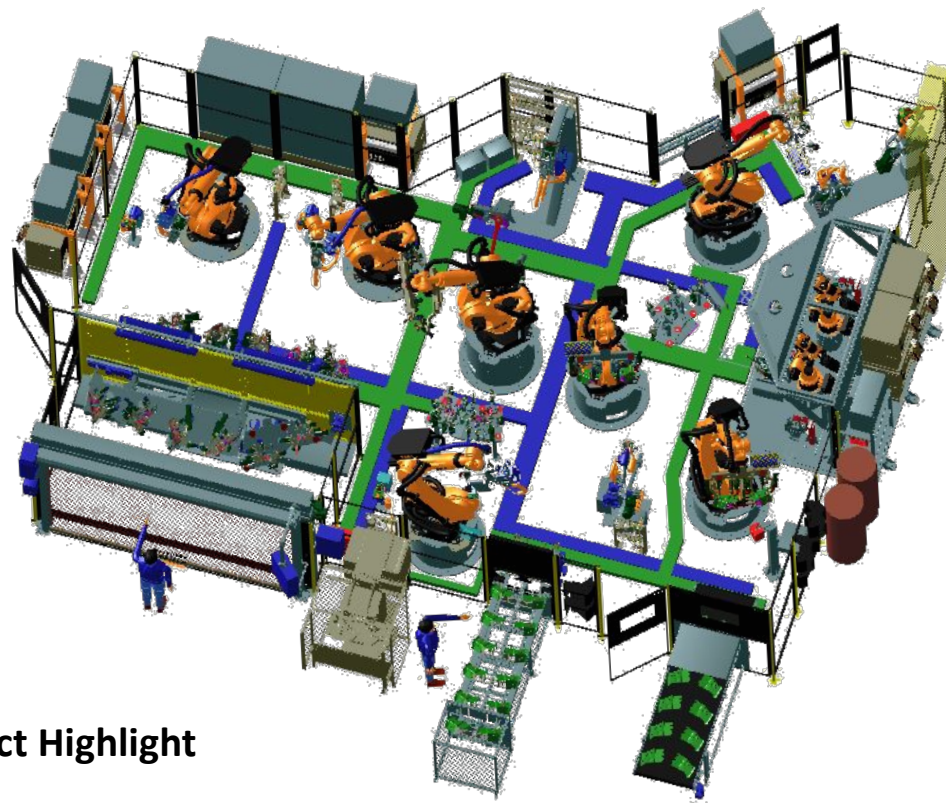
Vráble, SVK

Part

Reinforcement / structural part

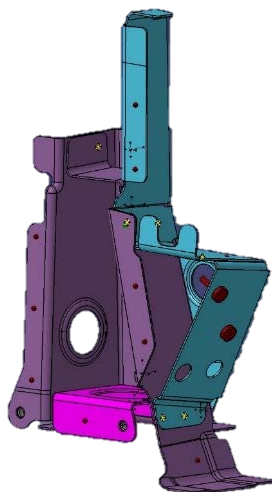
Total Number of Robots

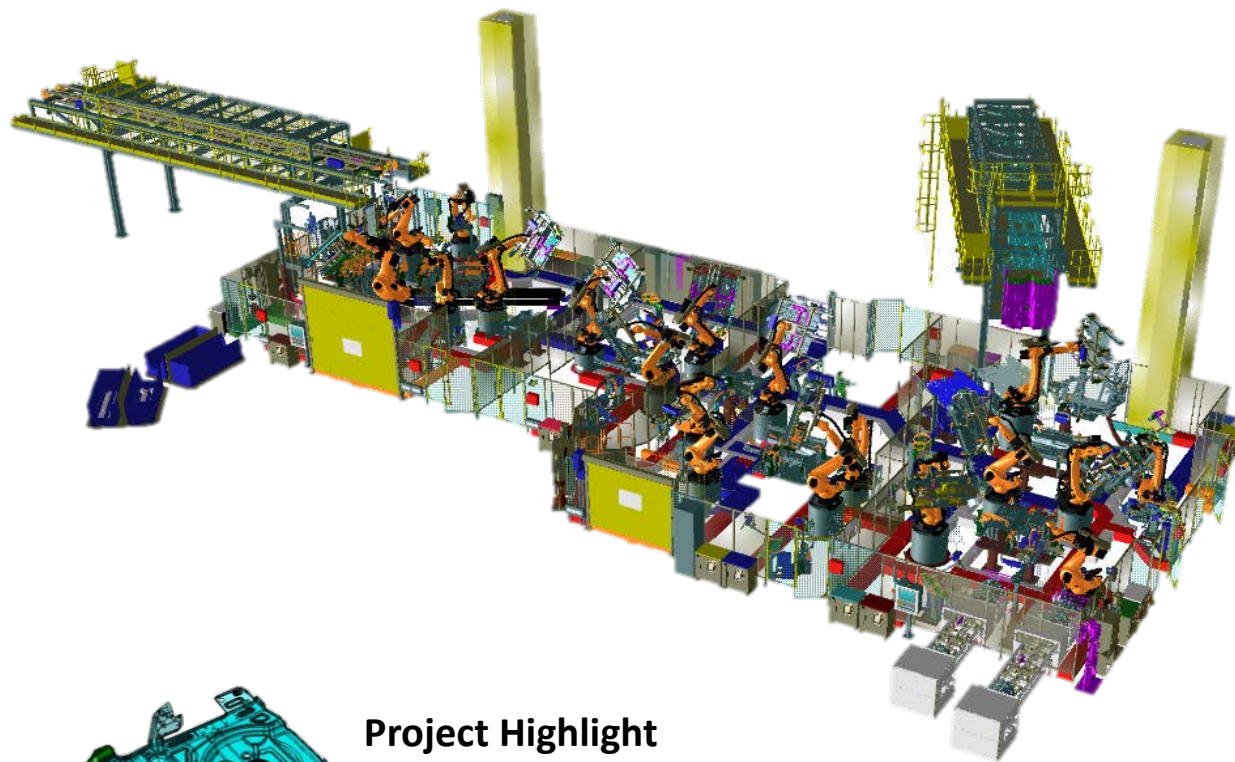
9 robots



Project Highlight

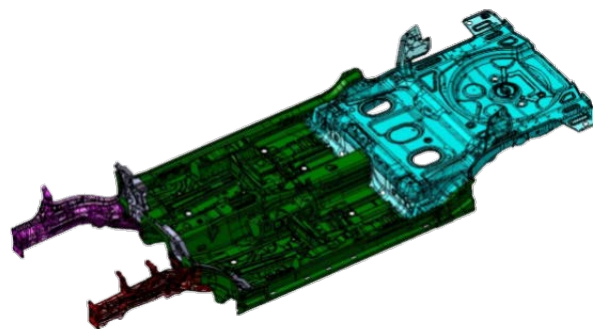
Application of state of the art joining technologies such as SPR riveting and clinching for complex aluminum respectively steel assemblies.





Project Highlight

The largest automation project in the history of the company. We have built up joining lines for the complete underbody of new SUV models of SKODA and SEAT.



Project

ŠKODA Kodiaq, SEAT Ateca and ŠKODA Yeti

Locality

Kvasiny, CZ

Part

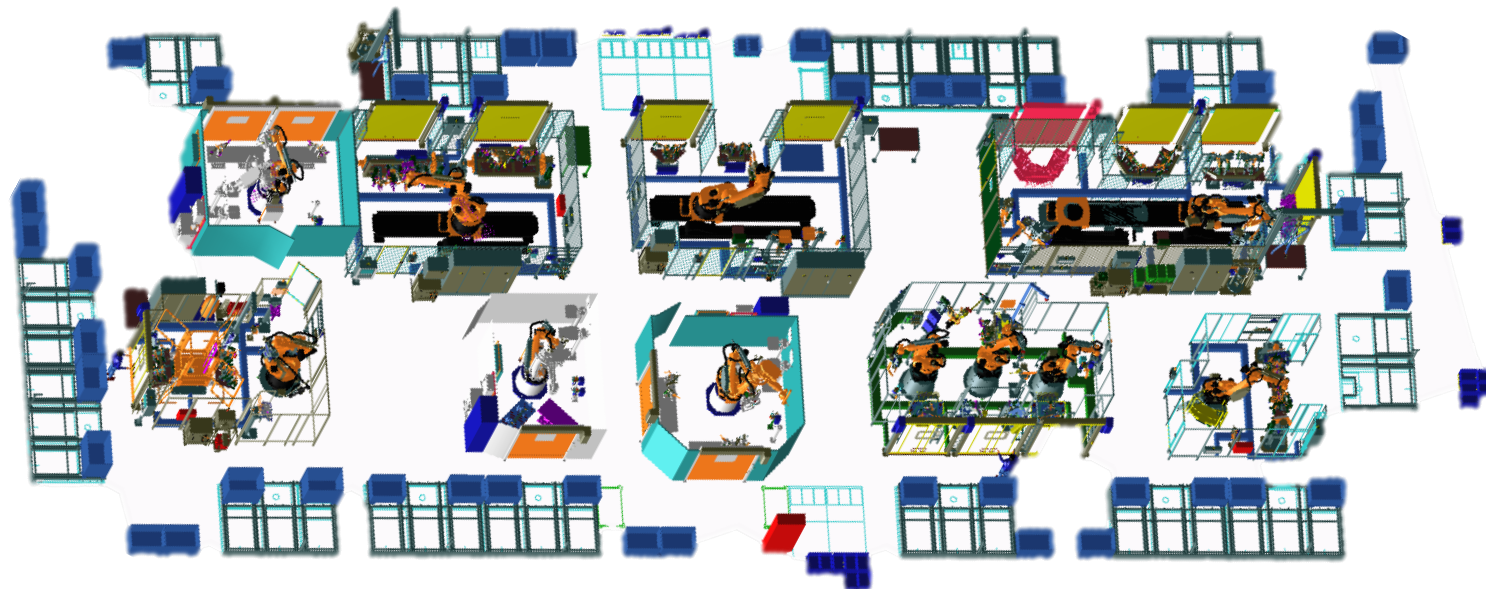
GEO UB 1.1 & UB 1.2 (rear & front floor, tunnel)

Total Number of Robots

110 robots

ŠKODA





Project

PORSCHE PANAMERA

Locality

Leipzig, DE

Part

Small parts

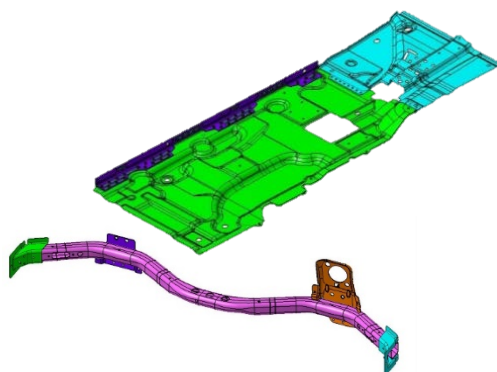
Total Number of Robots

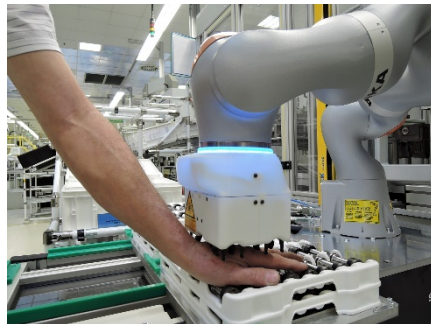
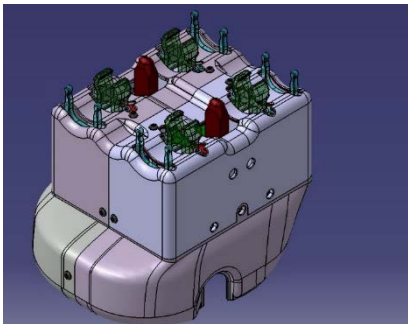
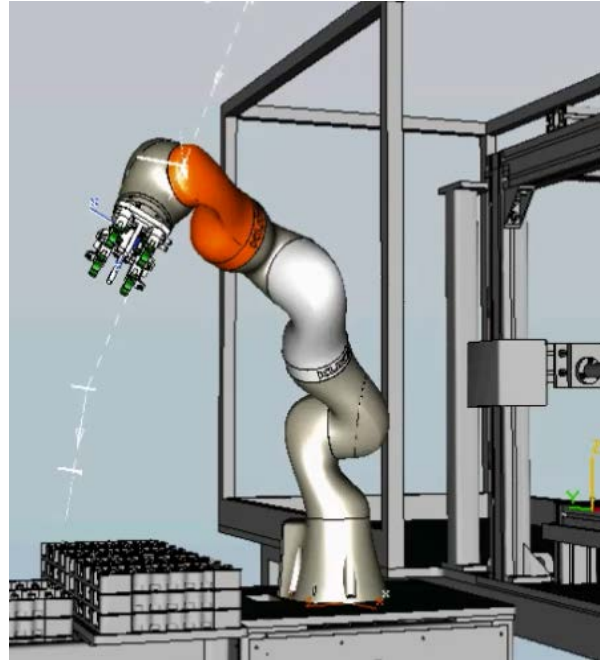
27 robots



Project Highlight

First successful project for Porsche in Leipzig to equip the Kleinteilezentrum with various state of the art joining technologies.





Project

Integration of collaborative robotics

Locality

Vrchlabí, CZ

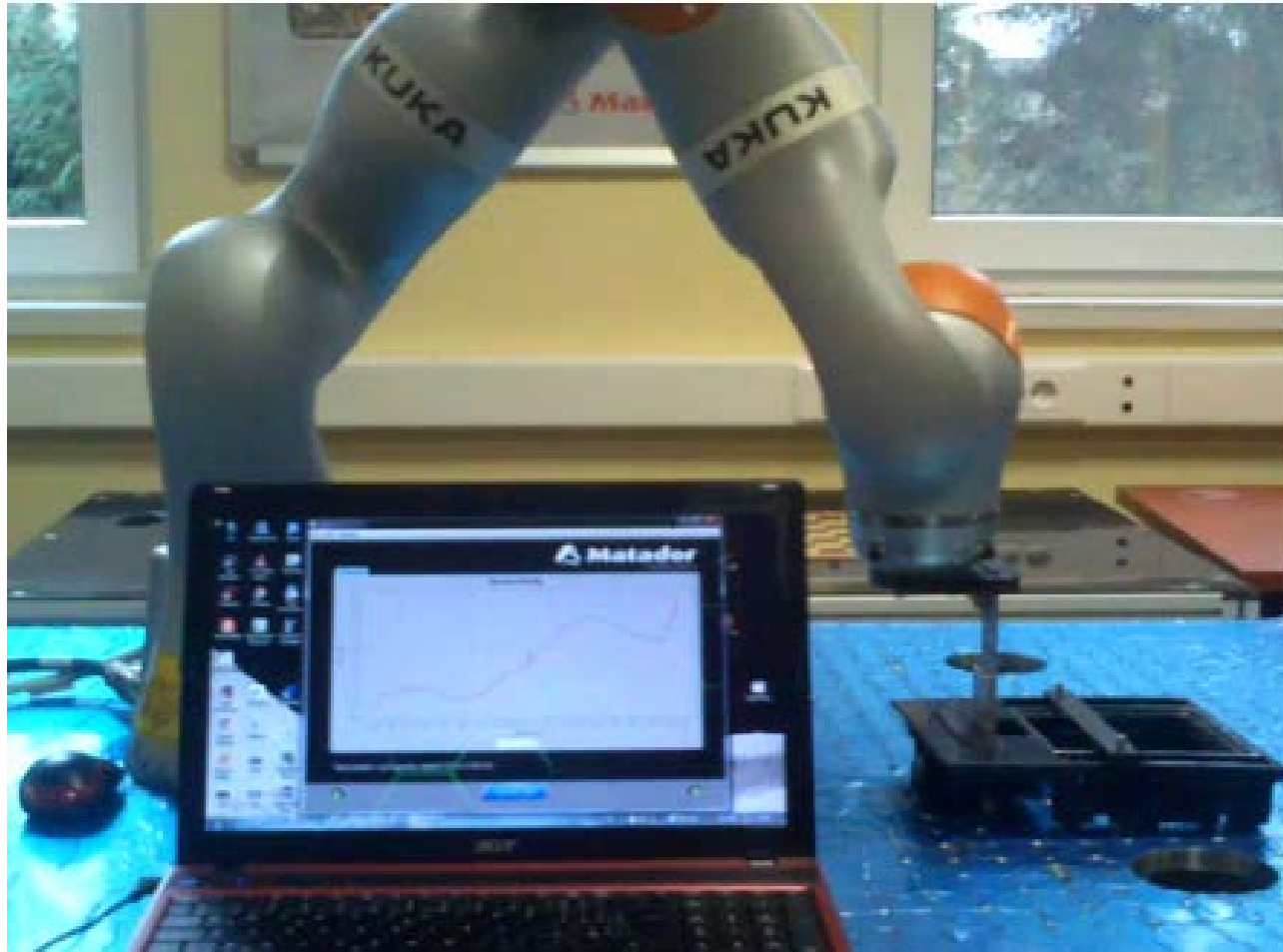
Part

Automatic gearbox DQ – 200

Project Highlight

Initial integration of collaborative robots within the VW Group. Reverse engineering of the cell, simulation and rapid prototyping secured the successful application.





Project

Collaborative quality testing application

Locality

Mladá Boleslav, CZ

Part

Parking break control switch

Project Highlight

In-house Software development for real-time evaluation of test data.





Seamless integration of KUKA, ABB or FANUC robots utilizing an in-house developed algorithm.

The 3D camera scans the “bin” before each pick up in order to determine the optimal path for the robot and to analyze the best positioned object from the upside down perspective.

In parallel the collision course of the robot, gripper and object are tracked and post processed.

FOF-11-2020: Quality control in smart manufacturing (IA)

We use the vision system to ensure quality control and monitor measurements to ensure optimal production quality.

Our interest is to engage in applied development, using and further expanding our knowledge in this field, showcase real-time data validation within an actual production line.

ICT-38-2020: Artificial intelligence for manufacturing

We prepare and work with data for prototype production, in which we use our know-how.

Our interest is in Innovative artificial Intelligence in manufacturing.

We can provide know-how in the field of simulation and human-robot interaction.

Our interest is in cognitive autonomous systems and human-robot interaction.

ICT-46-2020: Robotics in Application Areas and Coordination & Support

We focus on the secure interaction of robots – with humans, with their environments or with other robots. Dealing with the cooperative robot - human interaction, we deploy robotics in the areas of applications where we define tasks with usable configuration tools.

Our interest is to cooperate in the field of mechatronic, visual systems, quality control and optimization process.

ICT-47-2020: Research and Innovation boosting promising robotics applications

Our company deals with the speed and skill-handling of robots with objects.

We want to cooperate in the development of internally safe physically powerful robotic systems with the ability to capture distances for the tasks of human-scale cooperation and the development of variable autonomy systems that significantly expand and raise awareness of the working environment.

Our interest is also aimed at navigating robots using visual systems.



ŠKODA



KUKA