

# Fatia Group

---

**Innovation in Technology | INDUSTRY 4.0**

Robotics & Automation Solutions

Industry/Education



**FATIA**  
**G R O U P**



- **Robotics & Automation** - ready standard plug&play systems based on robots.
- **Industry & Education** - products, systems and solutions dedicated both to industry and Education.
- **Innovation in Technology** - the latest solutions for all kind of innovative technology based on Industry 4.0.

# Our Brands - Business Areas



**ALL4ROBOTS**  
ROBOTICS SOLUTIONS PROVIDER

## INTERNATIONAL

Systems for CNC Machine Tending,  
Palletizing, Welding, Painting,  
Intralogistic, Agriculture Automation



**EDU4INDUSTRY**  
ACADEMIC SYSTEMS PROVIDER

## POLAND & CEE

Solutions for Teaching and Research in  
Automation and Robotics



**EURO IN TECH**  
EUROPEAN INDUSTRIAL TECHNOLOGIES

## INTERNATIONAL

Your Expert for Innovative Education  
Solutions with long International  
Experience & Strong Industrial  
Background



# Global Cooperation

**Polish AHK member of Digitalization  
and Industry 4.0 Commision**



- AHK is the German representative office of the German Chamber of Commerce and Industry. AHK acts as a vocational training platform for many countries on a global network carries out vocational training activities and promotes vocational training cooperation and ensures the quality of vocational training activities according to German standards. and issue German professional qualifications.

**Siemens/  
Strategic Cooperation Partner**



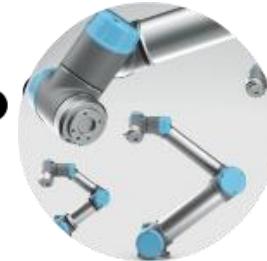
- Fatia Group along with its Global Partners is a part of long-term strategic partnership with Siemens. Both sides have collaborated extensively in the fields of smart manufacturing research, the training of mechatronics and smart manufacturing professionals, and the transformation of intelligent digital technologies to achieve the perfect integration of technology and education to provide a variety of excellent services and products for intelligent.

# Our main Partners



# Fields of Expertise

Cobotic Systems



IT for Industry



Factory Automation



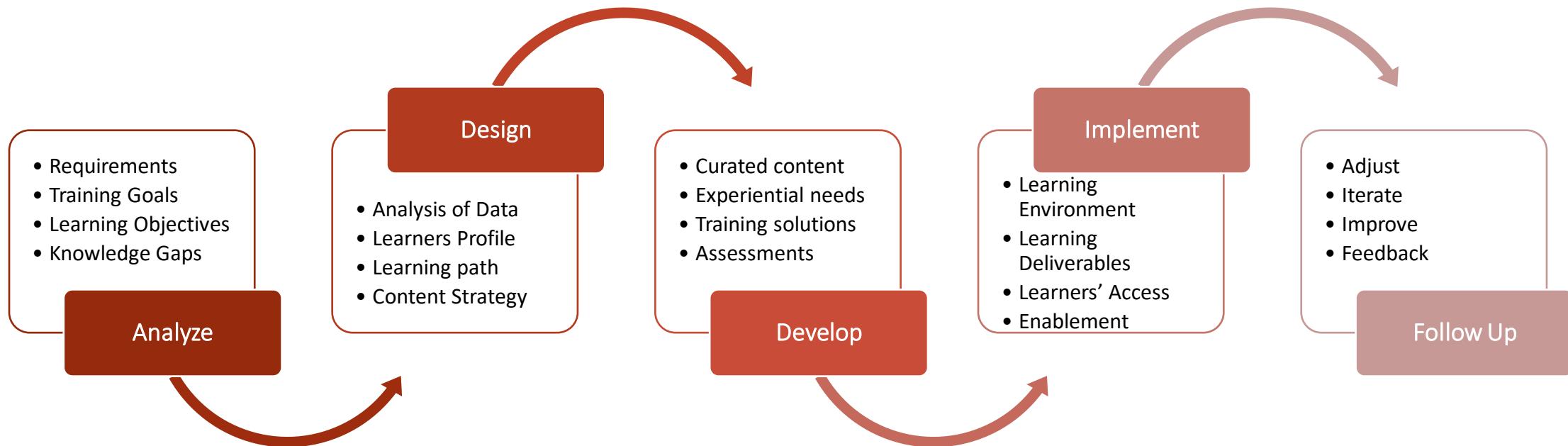
Distribution

Teaching and Research Equipment



Training

# How we Work





# Edu4Industry

---

**Solutions for Teaching and Research  
in Automation and Robotics**

# Product portfolio:



# Solutions for Universities:

Industrial  
Automation

Robotics

Telecommunication

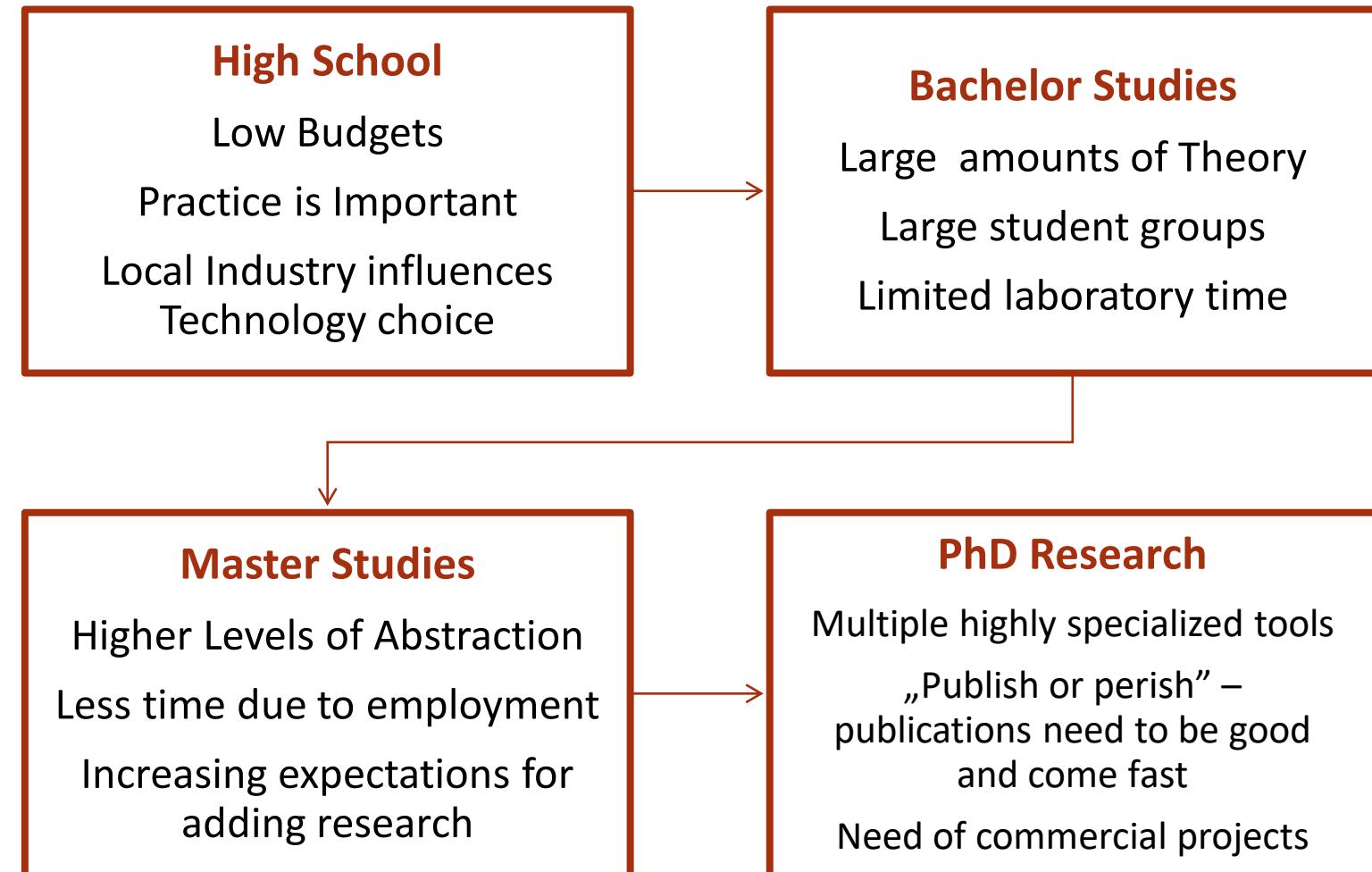
Control Theory

# Solutions for Schools:

Industrial  
automation

Robotics

# From School to Research



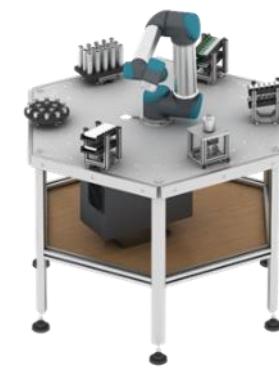
# Laboratory Equipment



High School



Bachelor studies



Master studies



PhD Research



# Mechatronics

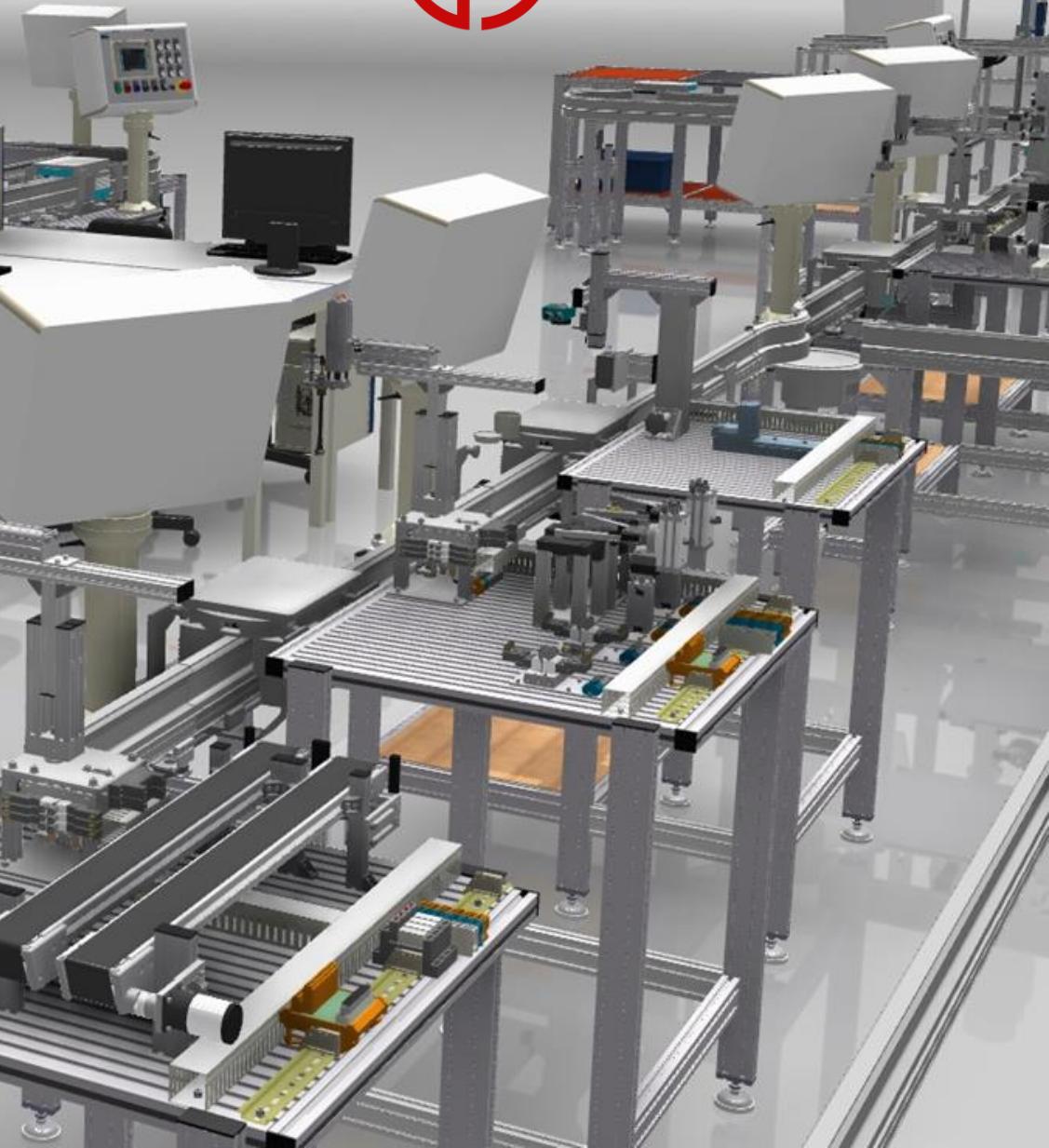
Mechatronics is part of the future. A new domain of the engineering science which combines mechanical and electronic components with elements of the information technology. And therefore to accommodate with the current development in several areas of production and economy.

## FMS Systems:

- Concerning control system of the FMS-system we can offer you a multitude of variants. The diverse types can be built in a trolley or in a rack – or quiet flexible as a single bench-top.

## Conveyer Belt LT:

- The Conveyer Belt LT is a flexible transportation system to simulate automated production operations – a classical assignment for the mechatronic technician.



# Industrial Automation

- For many industrial branches, automation technology is the key to the economic efforts of tomorrow. Even today, efficient systems are controlling complex production procedures, are simplifying extensive production processes and guarantee a complete quality assurance.
- To use the chances and possibilities of the automation technology means to know what is going on. In all ranges: Control technology, robotics, drive engineering, pneumatics, hydraulics, bus systems.....
- Encon Koester Global's didactic systems help to put the theoretic basics into practice.
  - Robot Application
  - Automation Technology
  - Single Device Mechatronics
  - Collaborative Robotics





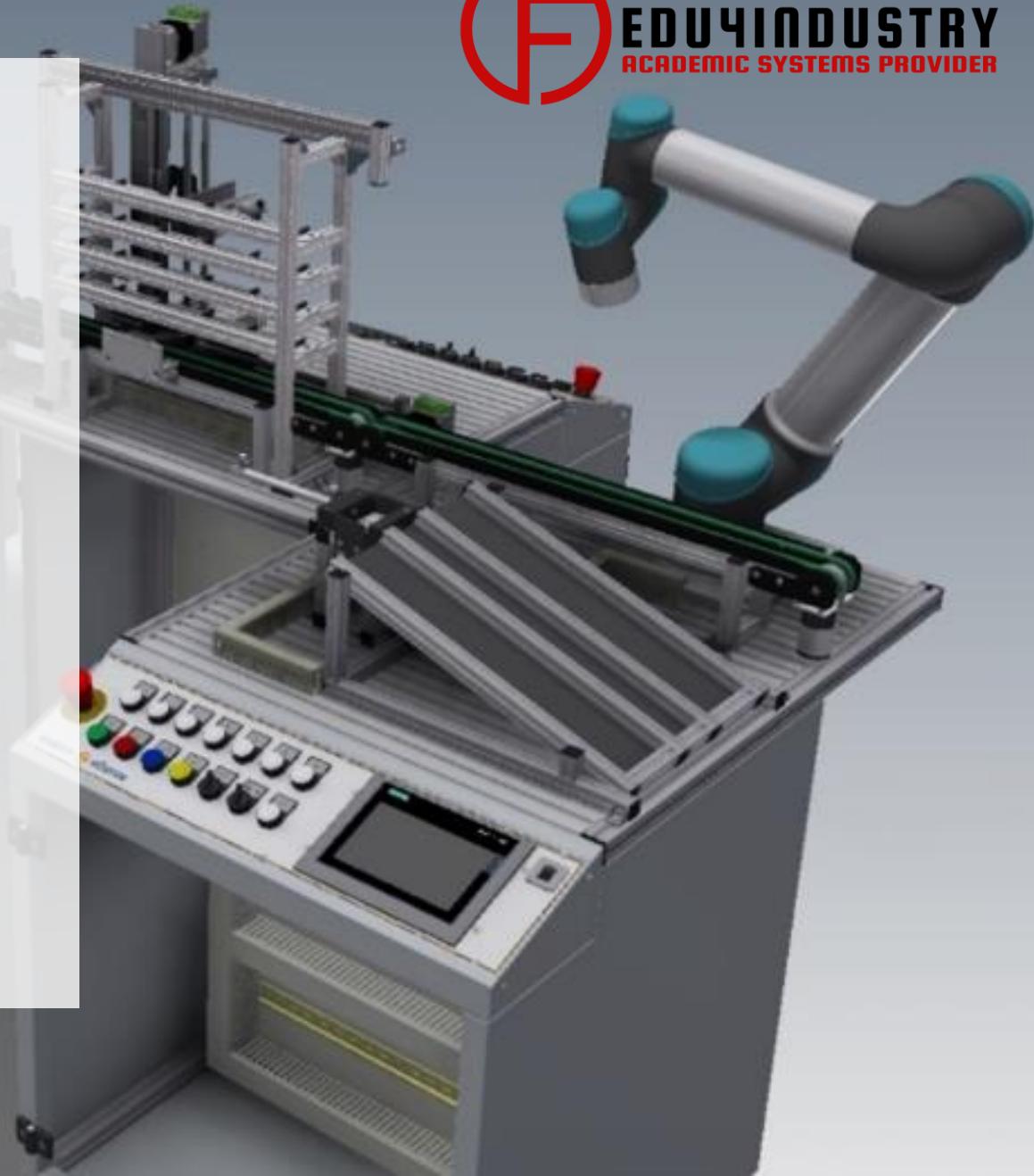
# Process Technology

- Designed for industrial flow processes. With regard to flow rate and volumes it is dimensioned that the partial processes are identifiable without difficulty from an adequate distance (teamwork).
- All stations contain at least one level and flow system. So, it results an all-pass character which forms the basis of a multi-variable control resp. ratio control.
- More complex controller types, which exceed the possibilities of simple PID-controllers, can be analyzed with additional processes as pressure regulation, guide value regulation, temperature control, volume control, mixing control, regulation of refrigerating machine or saturator control. With the delivered modules for sinusoidal-, square-wave- and saw-tooth functions, already programmed in TIA (STEP 7), disturbances and specified values can be feedforwarded.

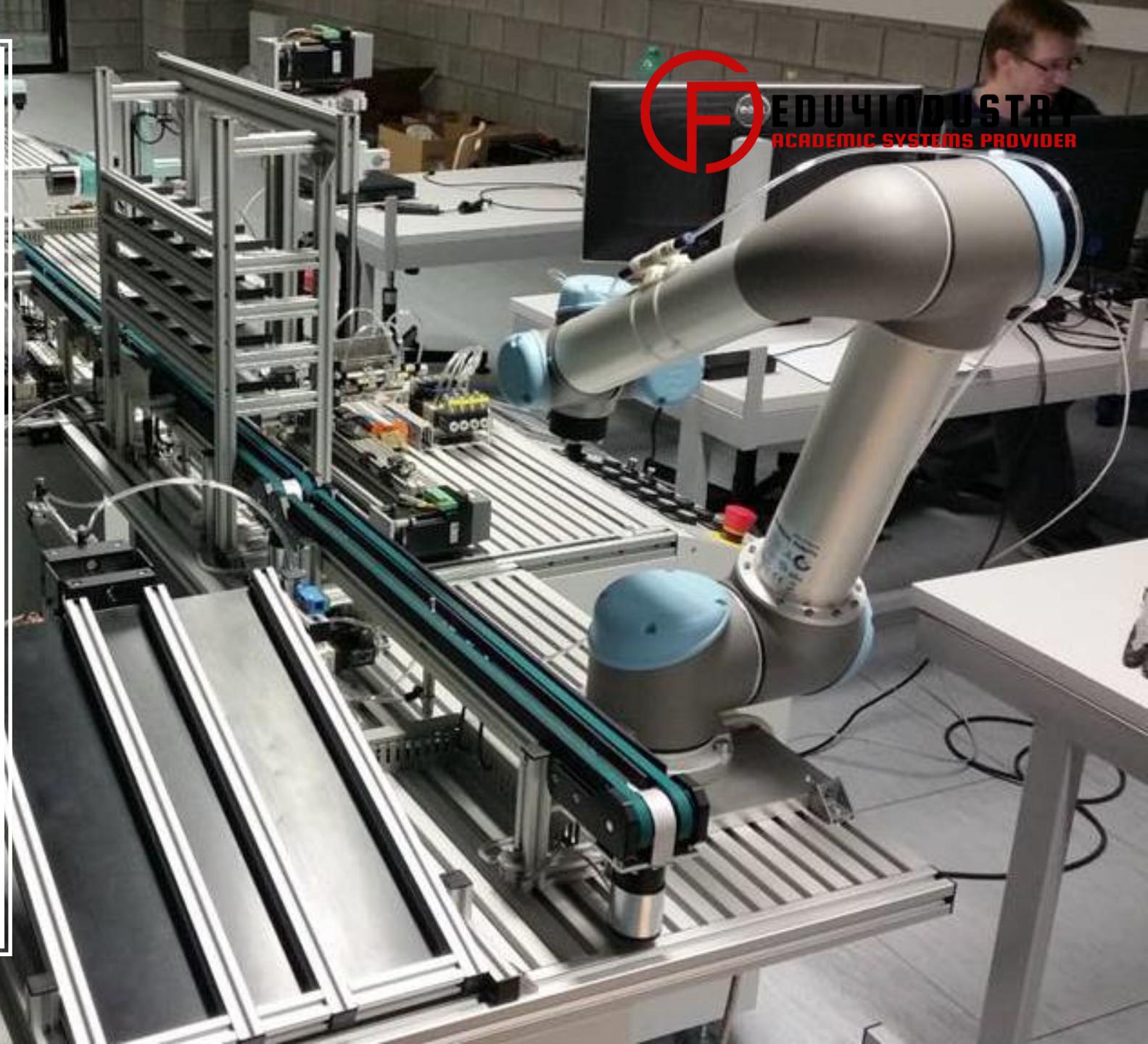
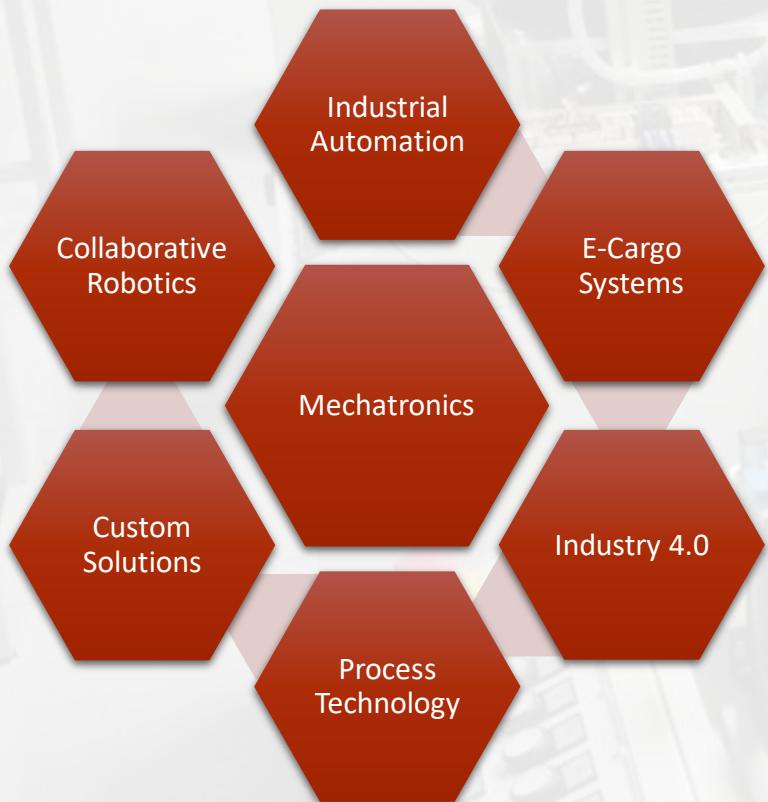


# Custom Solution Conceptual Design

- ✓ For each project, we first learn from our customers.
- ✓ Before we offer you our systems, we want to know a few things about you. For example about course content and number of students. And about any existing devices that can be integrated into an overall didactic concept.
- ✓ If you wish, this can be very comprehensive: from training devices and control modules to software packages and PC networks to laboratory cabinets.
- ✓ When we say “complete”, we mean it: You receive all systems ready-made and with a service portfolio that also includes the corresponding documentation and, of course, expert instruction.



# Custom Solution Realization



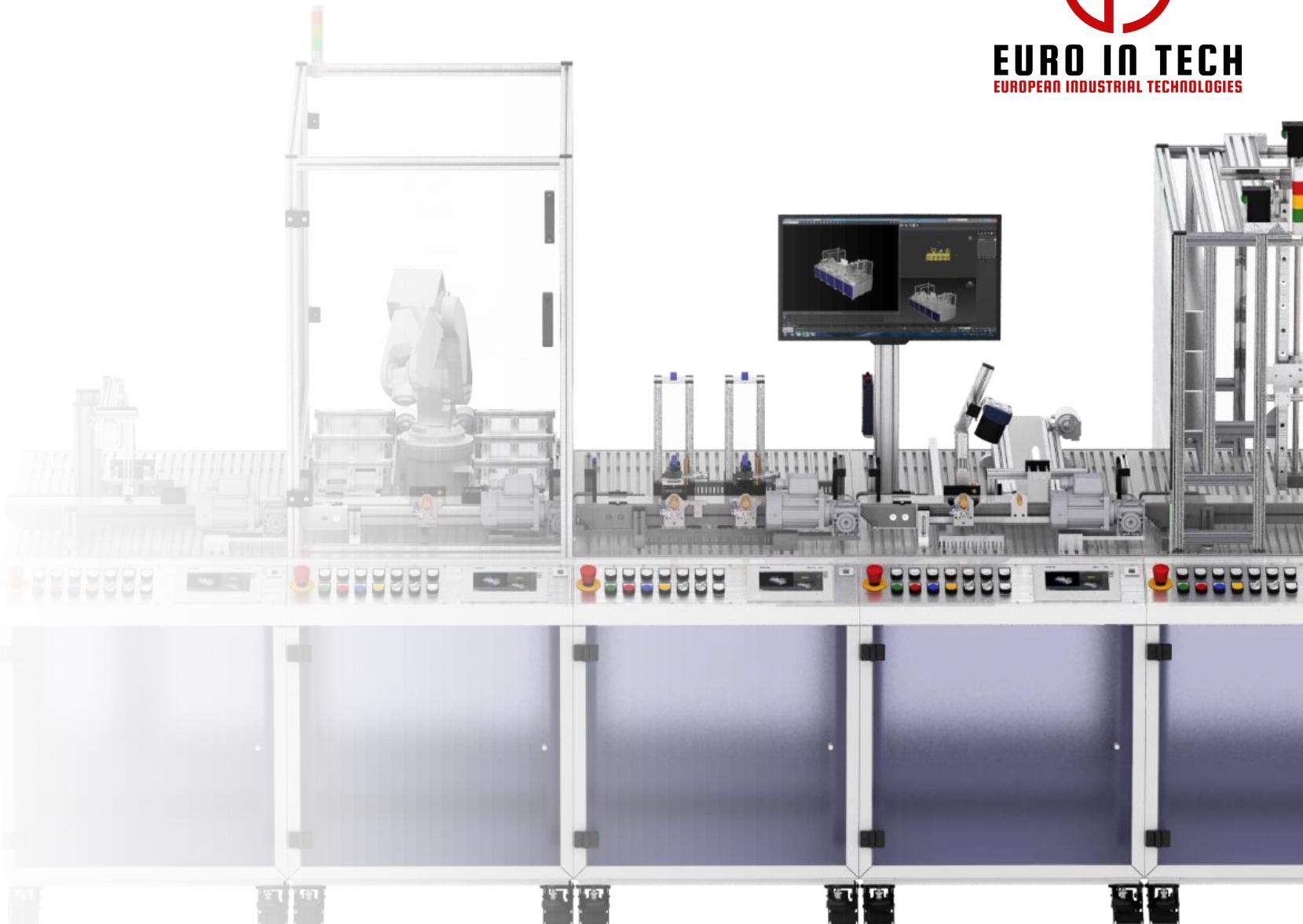


# European Industrial Technologies

Standarized Didactical and Industrial  
Solutions International

# Industry 4.0 Line

Industrial 4.0 training equipment is a model of an "intelligent" factory, through which the latest technology from the concept of industry 4.0 can be presented. In particular, the deep integration from the production level to the operational management level is also clear at glance. For example, high flexibility and automated small batch manufacturing.



# Manufacturing Line

The system covers major production functions and logistic process, additionally, it allows operator to extend modules based on their real needs. For training, the system supports major of mechatronic , which involves Transmission Technology, Pneumatic Control Technology, Robot Technologies, Sensor Technology, Frequency Conversion Control, Communication Technology, Radio Frequency Identification, PLC Control Technology, Process Control Technology etc.



# References: Examples



Technical University of  
Darmstadt, Germany



Hamburg University of  
Applied Sciences,  
Germany



Technology Park,  
Suwałki, Poland



Adolf Kolping School,  
Lohne, Germany



Dragon School,  
Sweden



Vocational School  
(BBS), Neustadt am  
Rübenberge, Germany



University of Kuala  
Lumpur, Malaysia



ZIBO, China





# All4Robots

---

**Smart and Easy Cobotic Applications**

**and much more**

# Consulting

- Our scenario-based approach helps you to identify the unique set of risks and opportunities pertaining to your business. Based on this identification and a subsequent evaluation we provide sound technical recommendations.
- We are your ever-ready partner, helping you to prepare for a fast-moving future. Our Technical Management Consultancy Services combine the knowledge and experience of numerous consultants and engineers in our Partners Spectrum to deliver tailor-made, robust risk management solutions that work for you. In this way, we make the best ideas reality.



# Smart and Easy Cobotic Applications Examples



**PALLETIZING**



**WELDING**



**CNC MACHINE TENDING**

## PALLETIZING SYSTEM

FLEXIBLE SOLUTION FOR  
PALLETIZE PARTS UP TO 16  
KG

Dedicated gripper  
to specific parts group

Dedicated software  
useful for no programmers

Place for 2 pallets

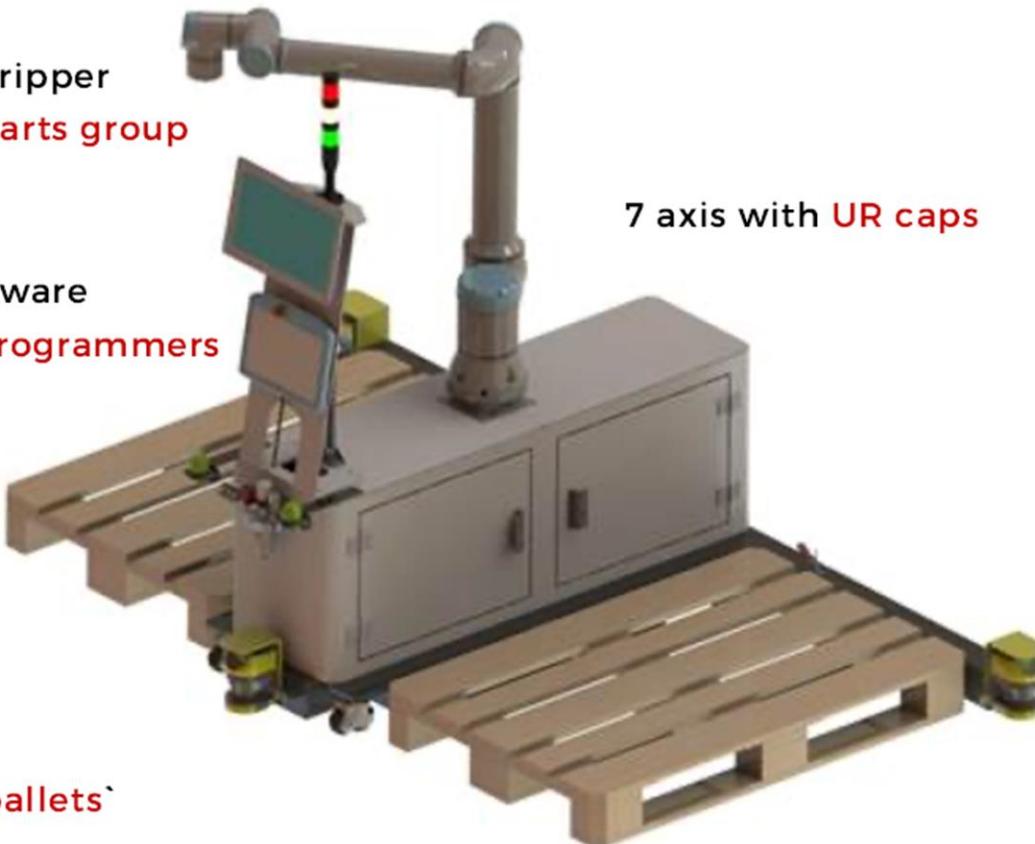
Safety

PL d cat.3

Safety scanners

Cobot  
UR10 e-series

7 axis with UR caps



“

BUILD "KNOW  
HOW" TO GROW  
THE  
COMPETITIVENESS

## PALLETIZING SYSTEM

### PARTS

Boxes weight up to ca. 16kg  
Fastest cycle times <7 secs (with dual or  
triple gripper even <3 secs cycle time)  
7th axis for extended height of pallet

### EASY TO USE

Dedicated graphical UI with touchscreen  
for station configuration (based on rugged  
Beckhoff IPC)\*Push to light\* buttons for  
effective and quick operation

### COMPACT

Easy movable with forkliftRugged "All-in-  
One" construction with water and dust  
protectionRemote access from PC or  
smartphone (via WWW interface)

### PLUG IN ARCHITECTURE

Plug-in architecture – might be extended  
with extra devices for i.e. SAP/MES  
connection, barcode reading, open box  
detection, box weighting label printer,  
extra conveyor with box buffering etc.

“

MINIMIZE THE  
ROI  
MULTIPLYING  
SOLUTIONS

## WELDING SYSTEM

### THINK 3-DIMENSIONAL

The use of the WeldROB is not limited to short longitudinal weld seams. Simple welding processes as well as complex weld seams are programmed in just a few minutes.

### HIGHPULSE 454 DW

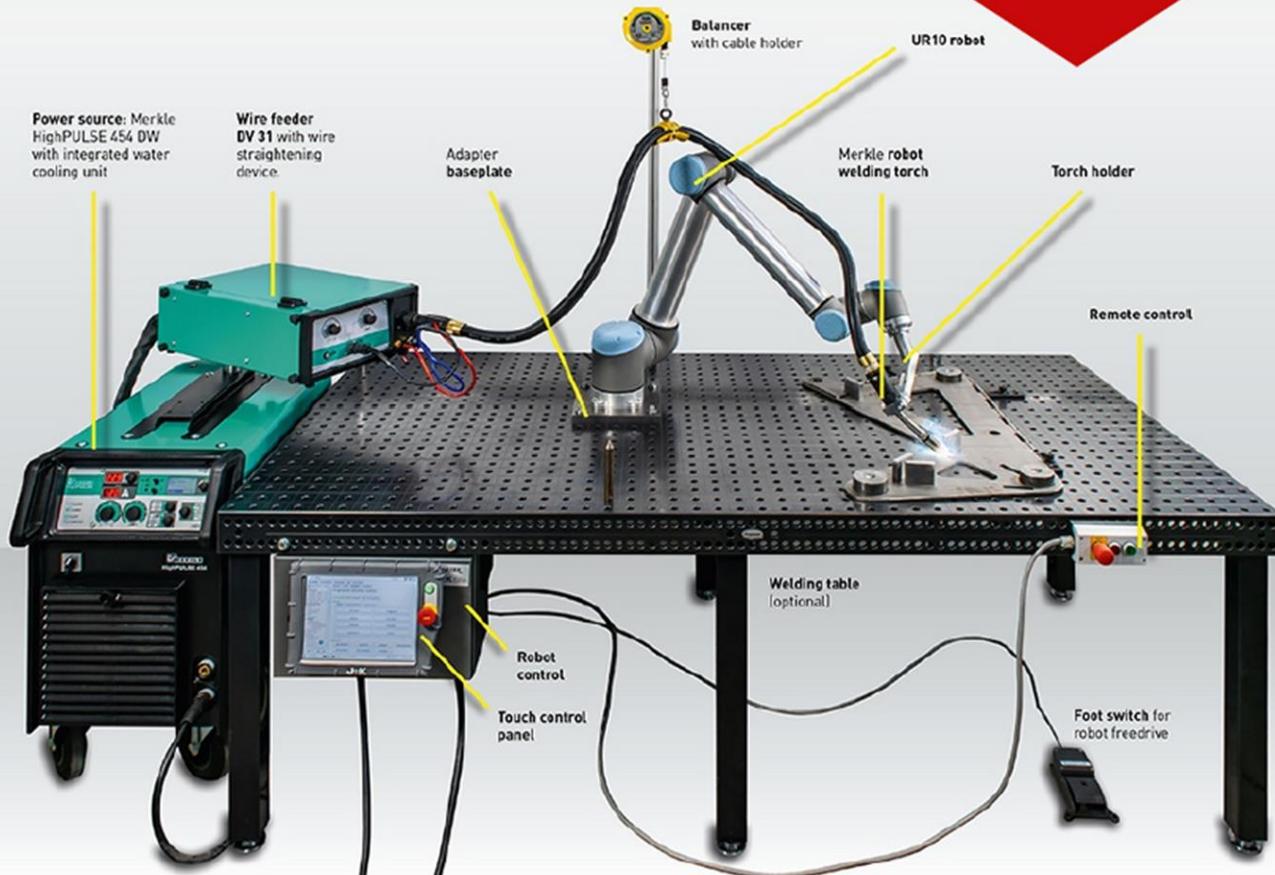
The Merkle PulseARC welding system comes as a standard with water cooling and all-inclusive package: welding programs for all common materials as well as the special processes DeepARC, ColdMIG and HighUP.

### PROCESS EXPERIENCE

Use our consultants experience to prepare processes for robotization. Maximizing the benefits with knowledge of practitioners in welding industry.

## WELDING SYSTEM

FLEXIBLE AND EASY TO  
PROGRAMMING



“

IDENTIFY  
PROBLEMS  
EARLY AND  
INCREASE  
EFFICIENCY

## CNC SYSTEM

### PLUG AND PRODUCE

2 weeks of realization time. Standardized compact elements to install in one day using the minimum place. Do it yourself or with technical support.

### FLEXIBLE

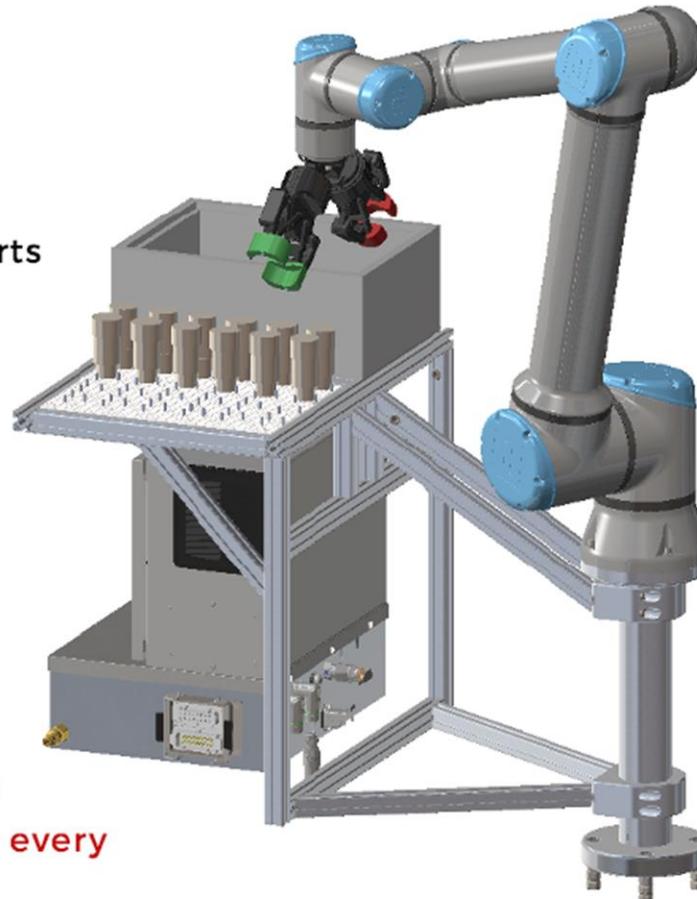
Dedicated to low volume production. Change parts a few times per shift with no long downtime. Easy programming available for no programming workers.

### PROCESS EXPERIENCE

Use our consultants experience to prepare processes for robotization. Maximizing the benefits with knowledge of practitioners in CNC.

Universal Parts  
magazines

Flexible Robotiq  
Dual gripper



Computer box  
Integrate with every  
machines

## CNC SYSTEM

FLEXIBLE SOLUTION FOR  
LATHE AND MILLING  
MACHINES

Cobot  
UR10 e-series

Robot stand  
Anchored, easy to install



**Fatia Group Sp. z o.o.**  
Kwiatkowskiego Street 4  
52-326 Wroclaw, Poland

NIP: 8943143639  
REGON: 383942107

---