

ROBOT AUTOMATION.  
TAILOR-MADE.

robotec  
SOLUTIONS

**robotec**  
SOLUTIONS

# CREATING AN ADVANTAGE TOGETHER

We are a successful global Swiss corporation in the industrial manufacturing market. Our areas of business include the sectors of robotics, machine vision and digitalisation.

100%

delivery chain

>800

individual solutions

40 YEARS

experience

41

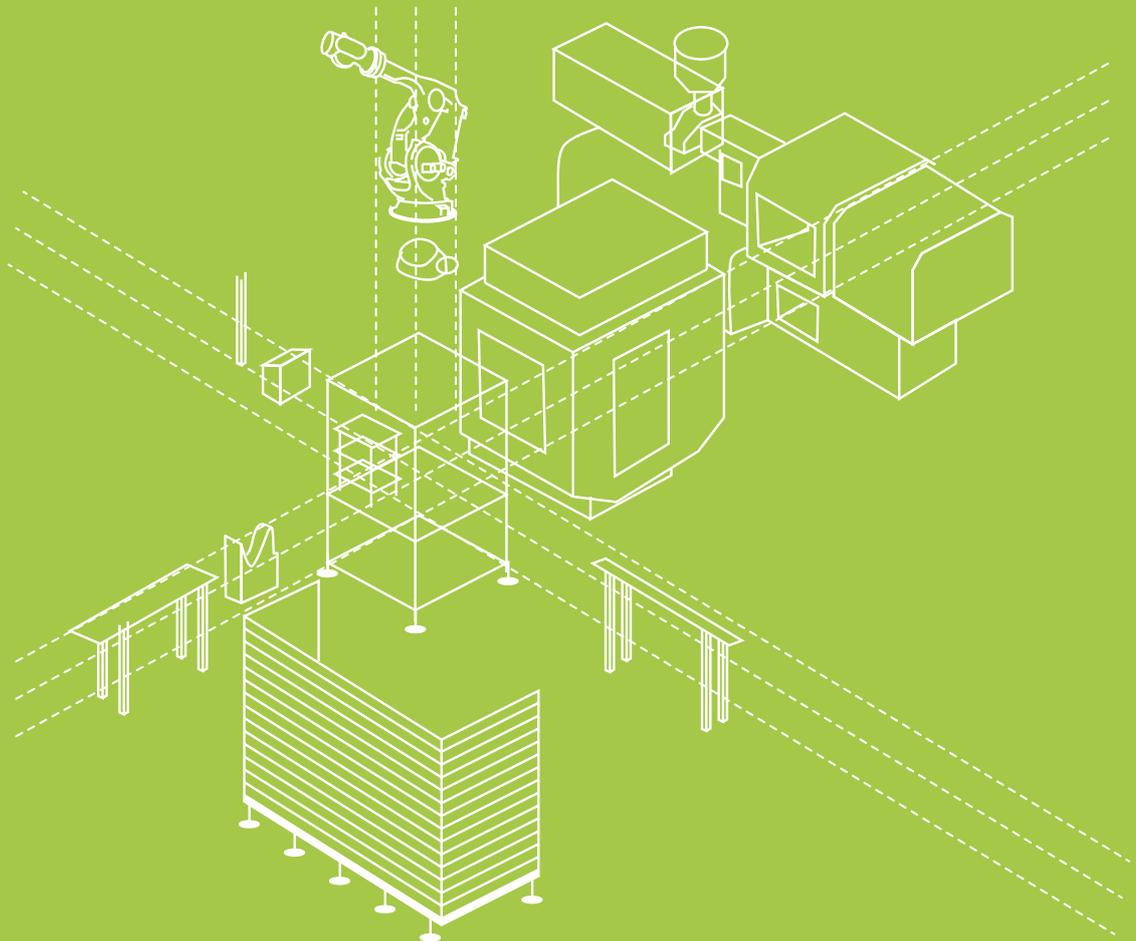
employees

3 COUNTRIES

Switzerland, Germany, China

1983

founded





«We contribute to improving added value in industrial production sustainably.»

## THE LEADING PACEMAKER IN ROBOTIC SYSTEMS ENGINEERING

Founded in 1983 in Seon (CH), with subsidiaries in Germany and China, we are one of the pioneers in the field of robot-based automation.

We are highly specialised experts with experience in more than 800 completed projects for various sectors. Thanks to our many years of expertise, we also solve complex challenges – and therefore create added value to increase your competitiveness in the long term. Whether it's industrial, collaborative or mobile robots: we offer fully-integrated and tailor-made complete solutions from a single source. And of course Swiss made.

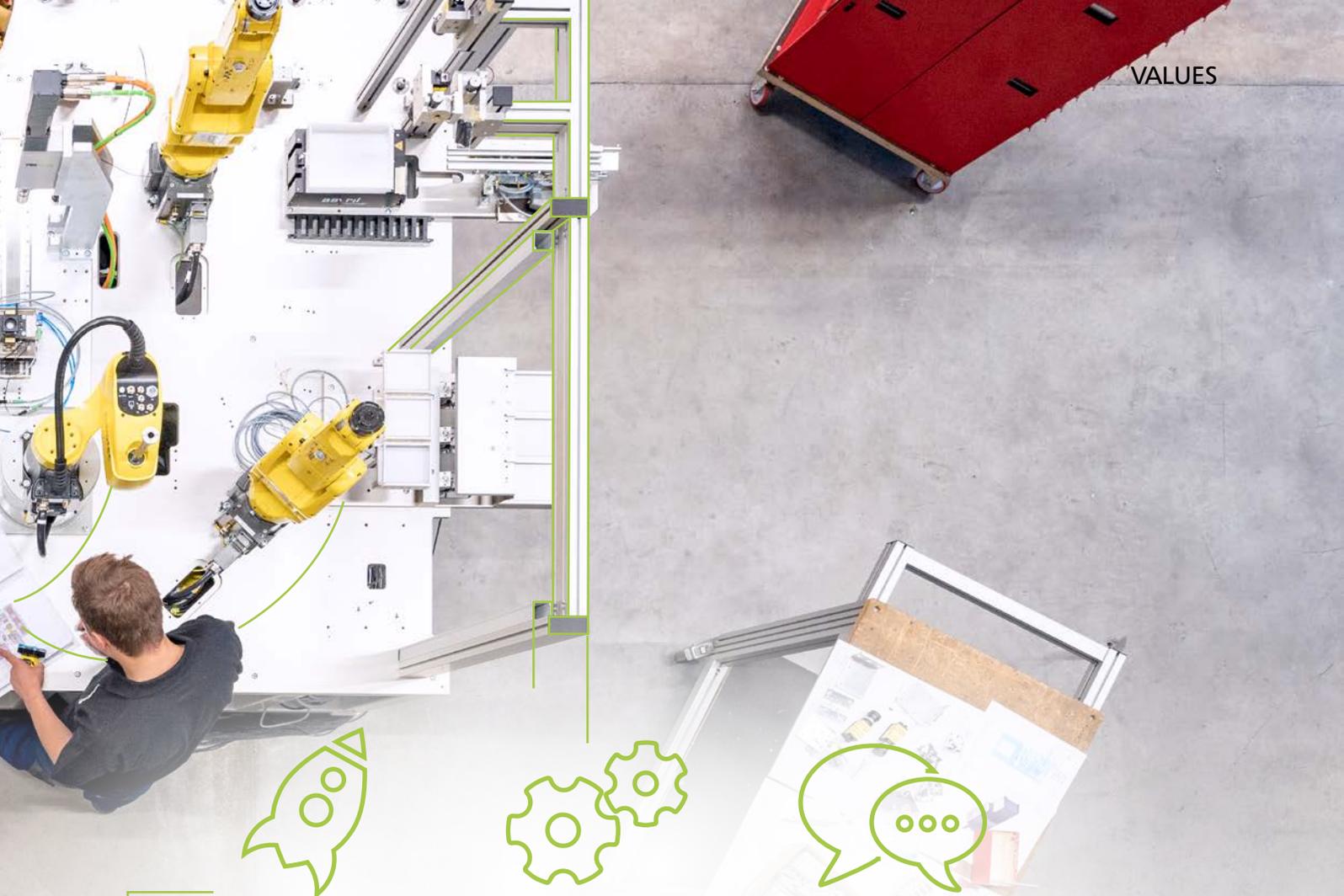
Our automated solutions are compact, low-maintenance and energy efficient. Even more: as a certified partner of leading robot manufacturers such as Fanuc, Omron and Stäubli, we guarantee the highest quality, longevity and high availability of spare parts for our systems. We find the right solution for you and therefore facilitate and increase in value. Our robotic solutions therefore make a successful contribution to increasing your added value. So that this also remains the case in the future, we will accept every challenge – and look forward to it.

Nick Koch, CEO



## PASSIONATE, DEDICATED AND SOLUTION-ORIENTED

We act in accordance with good Swiss values and with the aim of achieving sustainable growth. In doing so, we are aware of our social and ecological responsibility. In addition to a slim, agile corporate structure, we particularly believe in a motivated, well-qualified team.



### PERMANENT INNOVATION

We are driven by great curiosity and the motivation of also being able to master complex issues by finding technically flawless, intelligent and high-quality solutions.



### ORGANISATIONAL EFFICIENCY

Our flat corporate organisation enables us to take effective and efficient action. Thanks to a short decision-making process and a coordinated exchange of knowledge and information, we reach our objectives more quickly.



### OPEN COMMUNICATION

Respectful and appreciative cooperation forms the basis of success. Our employees move forward with simple, target-oriented communication.



### QUALITY AWARENESS

Only the best is good enough: Robotec Solutions stands out owing to a committed team, which sets itself the highest requirements. As a result of continuous training and further training, our knowledge is always up-to-date.



### SUSTAINABLE IDEAS AND ACTION

We are interested not only in cutting-edge technology, but also in our environment. For this reason, we exclusively use electricity from renewable energy and pay attention to environmentally friendly procurement principles as well as optimal recycling.

**«The values practised are particularly important during periods of globalisation, digitalisation and pressure to innovate.»**

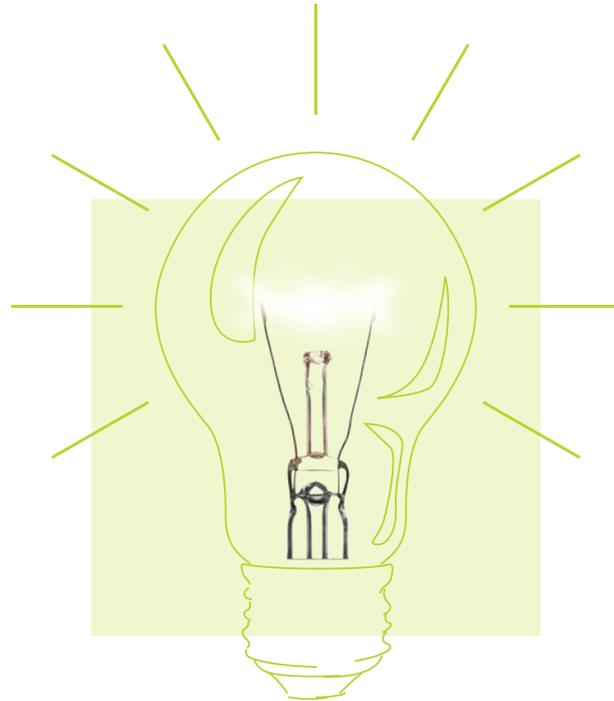


## OUR SOLUTIONS – YOUR ADDED VALUE

- We increase your **competitiveness** with robot-based automation
- We offer tailor-made solutions – from simple components to complex turnkey installations
- Robotec Solutions means: developed and manufactured under one roof
- We are there for you – dedicated, innovative and passionate

## OUR DNA: HIGH-TECH AND INNOVATION

Robotec Solutions – because we develop tailor-made solutions with lots of skill and passion and carry out everything 100 percent in-house. Because we are doers, love challenges and work in a target-oriented way. High-tech and innovation are part of our DNA – that's why we are leaders in robot systems engineering.

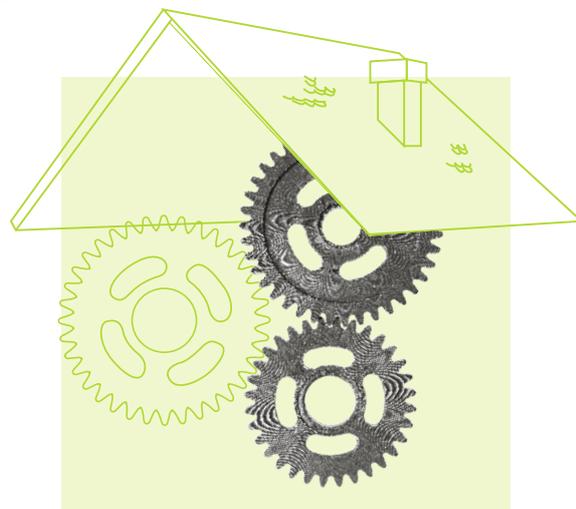


## MAXIMUM INCREASE IN VALUE

We develop robot systems which are fully geared to your requirements and will make your life easier. Quality and functionality are our priorities, from the raw material to the manufacture of the installation and from simple operation up to high-level increases in efficiency. This is how we create value – with the latest concepts and compact, flexible automation solutions.

## EVERYTHING FROM A SINGLE SOURCE

With our own development, parts production, control assembly and programming, we will implement your personal solution with know-how, ambition and creativity – in-house and up-to-date. We also take over the commissioning of the completed installation. This means that we are able to offer everything from a single source – from planning via production and commissioning to after-sales service for continuous optimisation of performance and further development.



# FROM A TO Z EVERYTHING FROM A SINGLE SOURCE.

We offer a comprehensive, integral range of services, which cover the entire lifecycle of the installation.

## ADVICE & ANALYSIS 1

There is a comprehensive requirements analysis at the start of every project. We will support you on this basis during all the project phases and guarantee efficient scheduling, careful controlling and clean documentation.

## MAINTENANCE & SERVICE 8

We will support your installation throughout its entire lifecycle. Preventive maintenance, efficient spare part management as well as fast repairs and retrofit optimisations ensure a long life and minimise downtimes.



## TRAINING & TRAINING COURSES 7

Through targeted training courses for specialist staff, we facilitate an optimal utilisation of your installation. In addition, we offer practical courses for operators, tailored to your current practical requirements.



## INSTALLATION & COMMISSIONING 6

If required, we will install all the robots on our premises and carry out a Factory Acceptance Test (FAT). After this, the installations are shipped worldwide, installed in the customer's premises and tested and accepted via a Site Acceptance Test (SAT).



## 2 FEASIBILITY STUDIES

Greater certainty thanks to feasibility studies: In our laboratory we will clarify the requirements precisely for you and model the installation to identify solution concepts in advance. This enables concepts to already be validated at the pre-project stage.

## 3 DESIGN & ENGINEERING

Complex tasks require first-class engineering. Our services range from sketches for layouts up to intricate simulations. As well as a pencil and ruler, the latest 3D-technologies are used to do this.

## 4 PRODUCTION & ASSEMBLY

We manufacture in-house or at our suppliers. Whether it's components, steel structures, 3D-printing or controls – all the components are assembled and networked to create a system.

## 5 CONTROLS & PROGRAMMING

The software lies at the heart of every installation. Every application is programmed in-house: assembled carefully and developed in a modular arrangement so that it can be expanded. It is tailor-made for your automation solution with the latest software tools.



## OUR PORTFOLIO

Robotec Solutions offers products and services worldwide to the robotics, machine-vision and digitalisation sectors for industrial production.

**Our solutions are suitable for**

- **Loading /unloading processing machinery**
- **Loading /unloading injection moulding machinery**
- **Handling, packaging and transport**
- **Assembly processes**
- **Quality inspections**
- **and much more**



## INDUSTRIAL ROBOTS

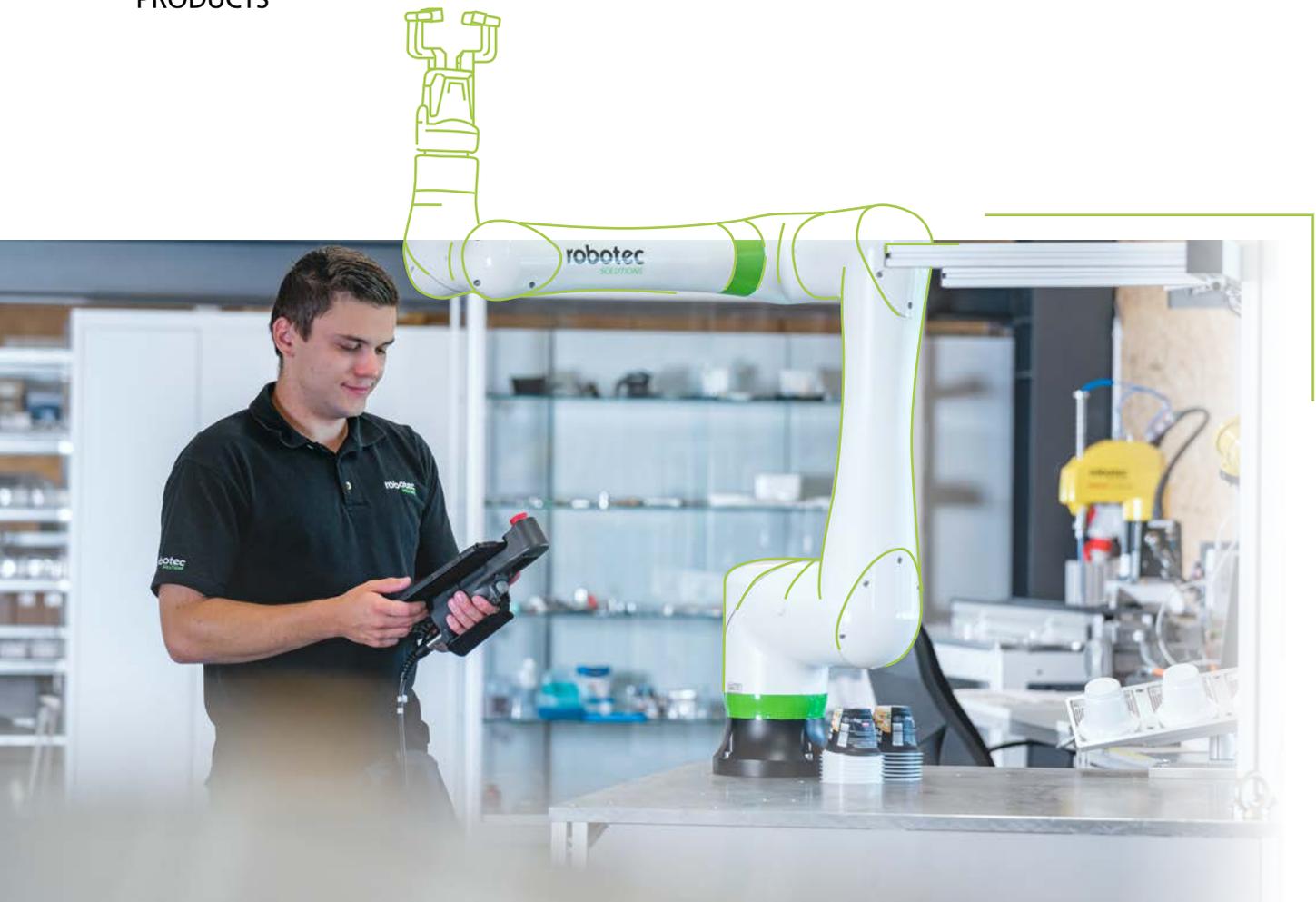
Industrial robots are programmable machines to handle, install or process a wide range of components. They are designed for use in an industrial environment.

Robotec Solutions manufactures custom-made robot solutions for your production facilities to achieve maximum efficiency with very simple handling. With over 800 integrated solutions, we guarantee the highest quality even for extremely complex situations.

Integration with industrial robots guarantees a consistent quality of production, constant three-

shift operation and relief from repetitive tasks for employees. As a certified partner of the leading manufacturers Fanuc and Stäubli, we guarantee the highest quality, longevity and global availability of spare parts.

**FACT:**  
Our proven, standardised industrial robots are flexible, robust and versatile.



## COLLAB-ROBOTS

Collab-robots – also known as «cobots» – are robots, which were developed especially for interaction with humans.

**FACT:**  
Our collab-robots are safe, easy to program and can be deployed quickly.

A cobot completes repetitive work tasks precisely and efficiently. It is simple to program, user-friendly and intuitive to operate. As robots have their own sensors, someone can work safely very close to them.

Clever functions such as the contact-stop function, the user-friendly plugin software and the manu-

ally operated teaching function make cobots very popular aids. It often makes sense to use them, in particular in manual workplaces. In this way employees can be relieved from one-sided, physically tiring tasks and deployed for complex work.

## MOBILE ROBOTS

Mobile robots are autonomous mobile devices, which can move and act independently in their environment.

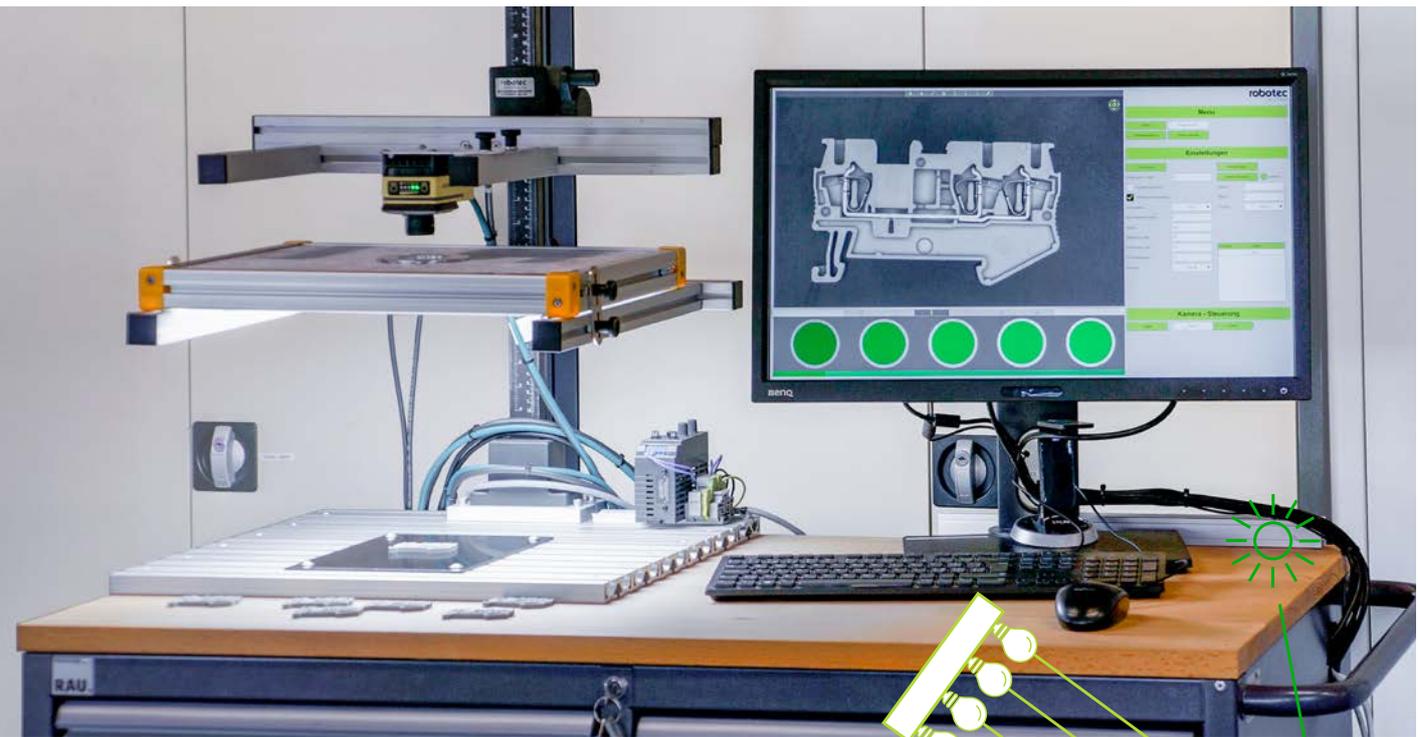
Robotec Solutions compiles solutions with mobile robots for the maximum efficiency of production facilities among other things. The advantages of mobile robots are: a reduction in machinery downtimes, an increase in throughput and avoiding faults. When connected to the IoT (Internet of Things), material traceability can also be ensured.

Furthermore, the autonomous little helpers assist employees when they are dealing with complex tasks which require a lot of concentration. The models have the ability to orientate themselves in the spatial environment of the production facilities with laser technology and therefore without needing magnetic strips on the floor.

**FACT:** Mobile robots are battery-operated, safe and can navigate themselves. They are intelligent and simple to operate.

As a result of our longstanding partnership with Omron, we can offer high-quality products with a guarantee of spare parts.





## VISION SYSTEMS

Vision systems are image processing applications for quality inspection, localisation of parts, checks for completeness and classification.

They are able to test hundreds or even thousands of parts per minute and are an ideal supplement for use with robots.

**FACT:**  
Vision systems can be used for applications such as comparisons, localisation, testing, measuring and classification.

The system records parts with a camera and identifies the information requested with the support of specially installed light and item settings. The recordings are fed into application-specific software and processed.

It identifies details, which are not visible to the human eye and manages to do this without any physical contact with the part. This guarantees a high level of production quality, traceability and constancy in test processes.

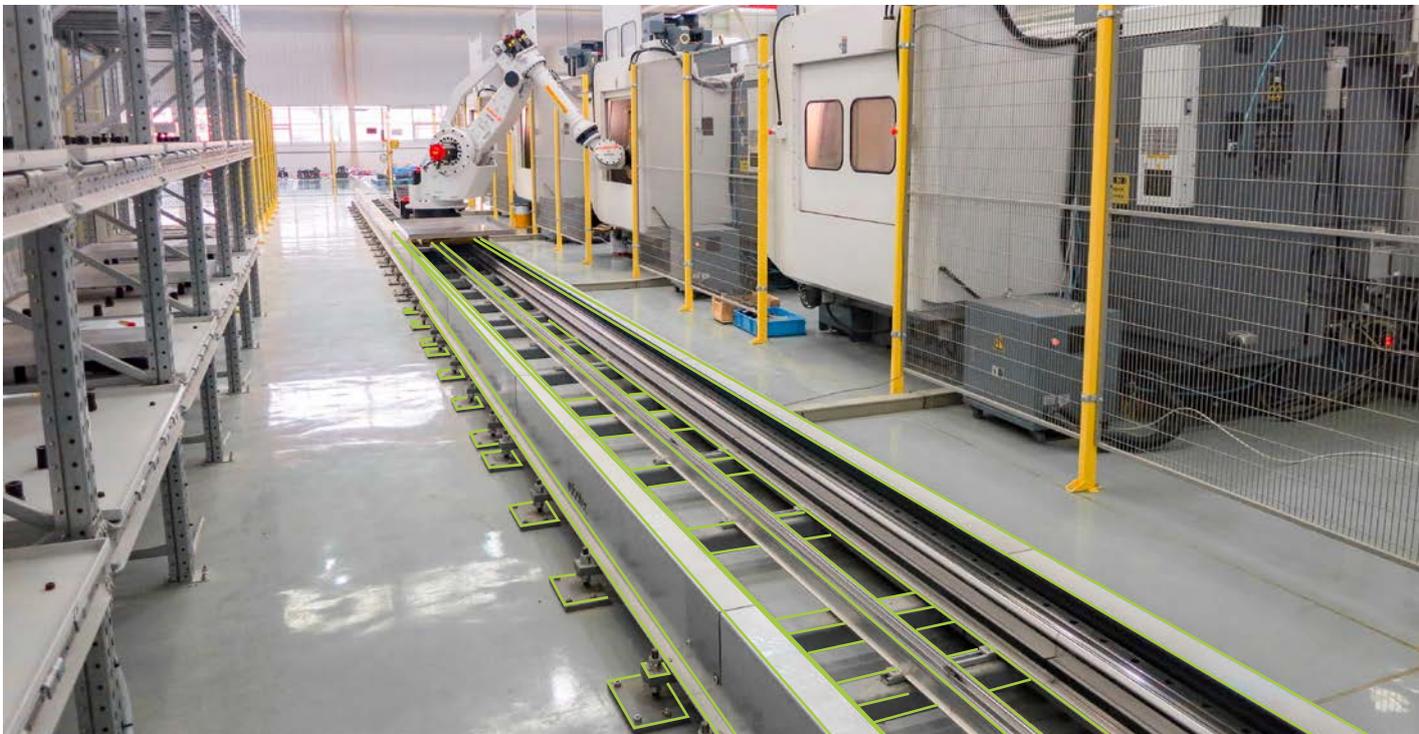
## ROBOT RAILS

Traversing axes increase the flexibility of a robot.  
With travelling distances of up to 40 metres, several machines can be combined into an automated line.

Our traversing axes satisfy individual customer requirements. Very different versions are therefore possible for industrial robots with loads ranging from 10 to 1200 kg.

Particularly robust and even walkable/accessible, our modular solutions meet every need. Package solutions with a traversing axis, robot and drive are also possible.

**FACT:**  
Robot rails are available for small or large robots with travelling distances of up to 40m. They are dynamic and have a deep profil.

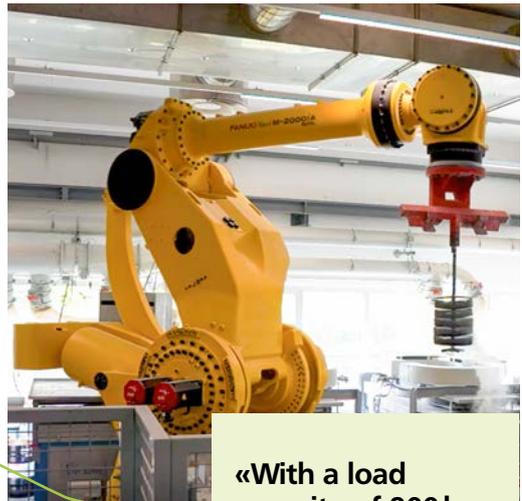


## CASE INDUSTRIAL ROBOT

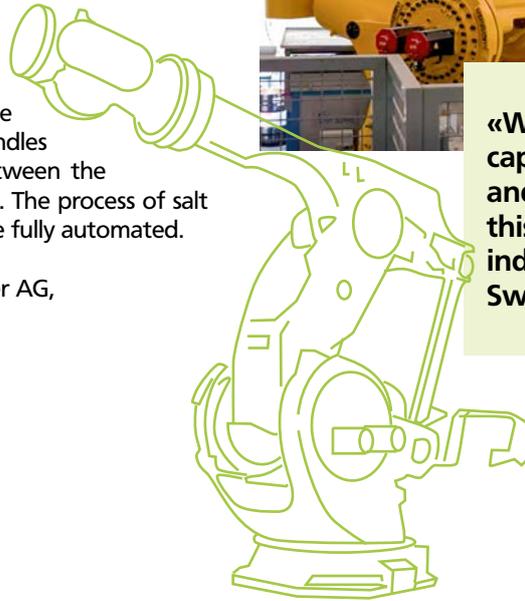
The Fanuc large robot is continually on the move – on an 8m long traversing axis.

With a load capacity of 900kg and 4.5m range, this industrial robot is the largest in Switzerland. The tame monster flexibly handles parts up to 10m long between the various baths and furnaces. The process of salt bath hardening is therefore fully automated.

**Customer:** Gewinde Ziegler AG, thread grinding



«With a load capacity of 900 kg and 4.5 m range, this is the largest industrial robot in Switzerland.»

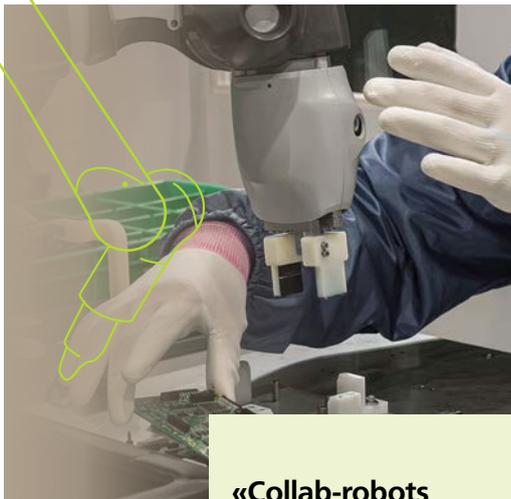


## CASE COLLAB-ROBOT

Humans and machines work hand in hand – or actually hand in gripper – with a cobot.

Collaborative robots release the valuable resource of employees from one-sided, physically strenuous activities. A Fanuc Cobot CRX 10iA on a stable steel construction, equipped with an electric gripper and an assembly fixture, handles the repackaging of small individual parts. It is operated via the touch panel – this makes it user-friendly and intuitive.

**Customer:** Flex Precision Plastics Solutions, plastic processing



«Collab-robots take on one-sided work stages, are user-friendly and intuitive.»



## CASE MOBILE ROBOTS

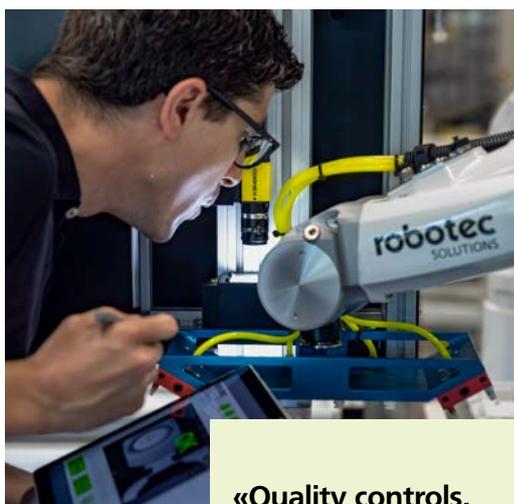
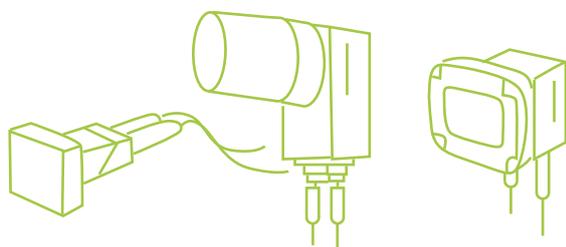
Autonomous robots optimise internal company logistics and create space and time for other things.

Versatile robots provide the challenging just-in-time flow of goods between the warehouse and manufacturing machinery. The smart aid identifies people and obstacles and automatically calculates the optimal, collision-free path. Fixed transport systems and tiring work are therefore superfluous. Employees can devote themselves to more creative tasks.

**Customer:** dormakaba Schweiz AG, access and safety solutions



«Smart aids for a smooth flow of goods and more resources among employees.»



## CASE VISION SYSTEMS

Deep Learning Solution raises quality control to a new level.

Automated inspections decisively support quality control in production. The vision system tested in our laboratory reduces the programming input of conventional image processing software. Our Deep Learning Solution calculates a test algorithm using a surprisingly low number of images.

**Customer:** Innovative project of Robotec Solutions AG



«Quality controls, which are not only decisively simpler but also more accurate.»



## CASE ROBOT RAILS

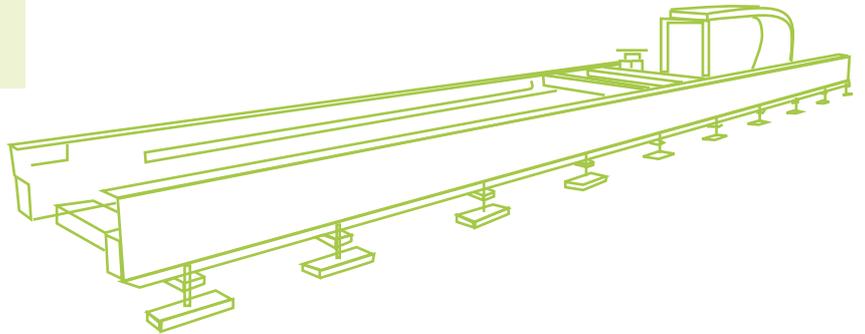
A six-axis robot on an axis links several precise HSC milling machines.

More shelving, CNC machines (Computerised Numerical Control) and cleaning stations have been networked via a robot on a traversing axis. Instructions come from a master control station and let the machines work. The robot supplies the machines with blanks and fishes the completed parts out of the machines at the end of the manufacturing processes.

«On a rail, networked with the machines, the robot ensures an optimal manufacturing process.»



**Customer:** millhouse GmbH,  
dental technology



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**[robotec-ag.com/cases](https://robotec-ag.com/cases)**

## INTERESTED?

We would be delighted to advise you personally and compile a tailor-made quotation for you.



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## OUR REFERENCES

AUDEMARS PIGUET  
*Le Brassus*

HAMILTON  
MEDICAL

NOVARTIS



Heró

NUSSBAUM<sup>RN</sup>



Johnson & Johnson

œrlikon

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WEIDMANN

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ROBOT AUTOMATION.  
TAILOR-MADE.



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