



Becker Gruppe



## Robotics division

Loading, packaging, palletizing



# Becker robotics

Solutions in special purpose machinery



Founded in 1991, the **Becker Group** with its headquarters in Langenberg, North Rhine-Westphalia, today comprises the companies Becker Sonder-Maschinenbau and Becker Verpackungstechnologie. From stand-alone machines to complete solutions, from the design process to commissioning, from sawing solutions through to packaging machines, we supply you with complete solutions from a single source. Around 120 employees work in the 9,000 m<sup>2</sup> of office and production areas to create innovative solutions for a whole range of different sectors and ensure a great deal of creativity and technical know-how. We are your partner from the design and project development, through manufacture, assembly, electrical wiring and programming up to commissioning and our comprehensive after-sales service.



Increasing demands on product quality, higher output quantities and a lack of personnel are driving the need for automation and **robotics** in production and packaging processes. Intelligent flexible automation solutions make a decisive contribution to mastering the challenges of each particular sector, such as the field of wood and materials supply, or the furniture and food industries.

In robot technology, as in all other areas, the supply of custom solutions based on standardized modules pays off for the Becker Group. Becker robotic solutions are used both in large-scale complete systems and as individual cells and are designed to solve tasks in the areas of sorting and palletizing, assembling and packaging technology.

We plan, project, create and support you and your new **robot system**, taking an approach that is as individual as your product.



Example of robotics

# Machine loading

## Flexibility in the production process

Alongside **robot-based automation** we increase the productivity of various processing machines in the metal or also wood sector. This enables our customers to offer short delivery times and to produce profitably and efficiently.

Handling workpieces, loading machinery, integrating workpiece carrier systems and machining workpieces are as much part and parcel of **Becker robotics** as the interlinking of individual plant components. Gripper systems that are specially adapted to the product are developed and built for this purpose.

True to our concept of "everything from a single source", Becker robots are often used for loading machines in entire sawing, assembly or packaging lines. These are integrated as **inline or stand-alone units**.



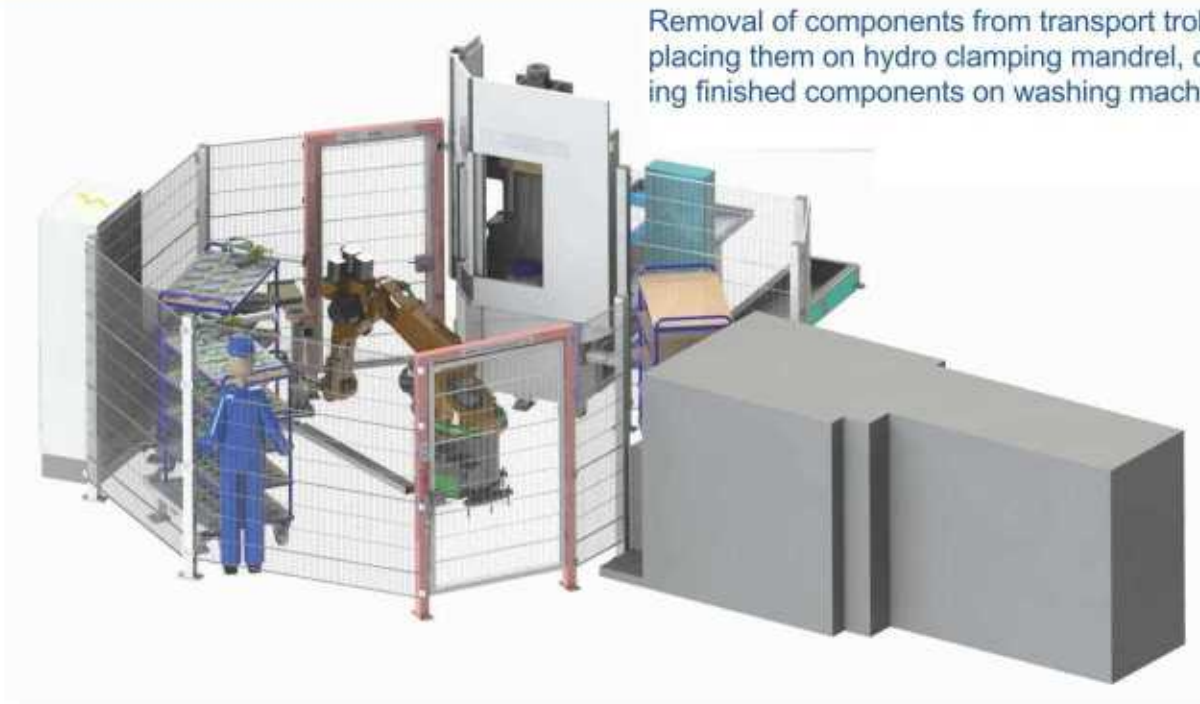
### Your advantages

- Uncomplicated retooling without long downtimes
- Increased profitability of production machines
- Perfectly matched system components
- Increased plant efficiency
- Complete packaging lines from a single source



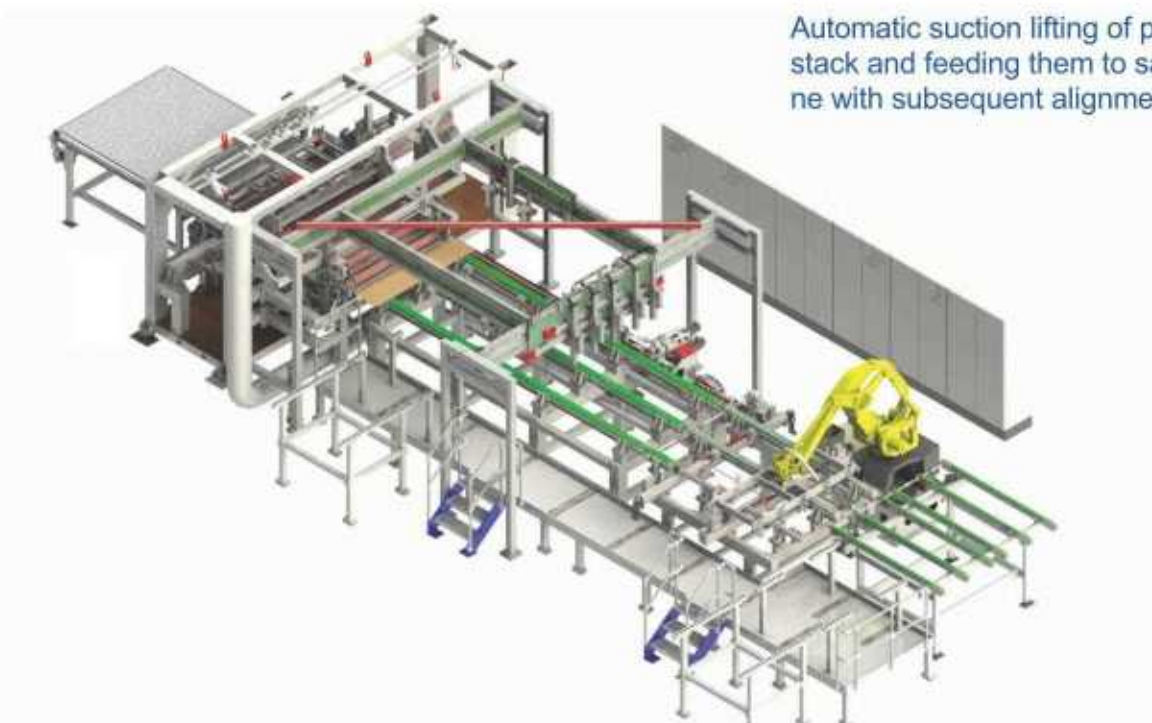
# Project examples

## Example of loading workpieces in a grinding machine



Removal of components from transport trolleys, placing them on hydro clamping mandrel, depositing finished components on washing machine belt.

## Example of loading workpieces in a sawing line



Automatic suction lifting of panels from a stack and feeding them to sawing machine with subsequent alignment.

# Packaging and palletizing

## As unique as your product

In the field of **packaging** and **palletizing**, **robots** perform a wide variety of tasks and are principally characterized by their flexibility. Whether for inserting products into boxes or containers, or automated creation of product protection elements or producing entire complex packaging, **Becker robot systems** are the right choice.

Thanks to their ability to adapt quickly and easily to new challenges, **robots** are used both in serial packaging and in batch size 1 packaging lines. In addition to packaging, the Becker Group also uses **robot solutions** for tasks such as product marking or subsequent palletizing of boxes, sheets, containers, trays, pails and cans.



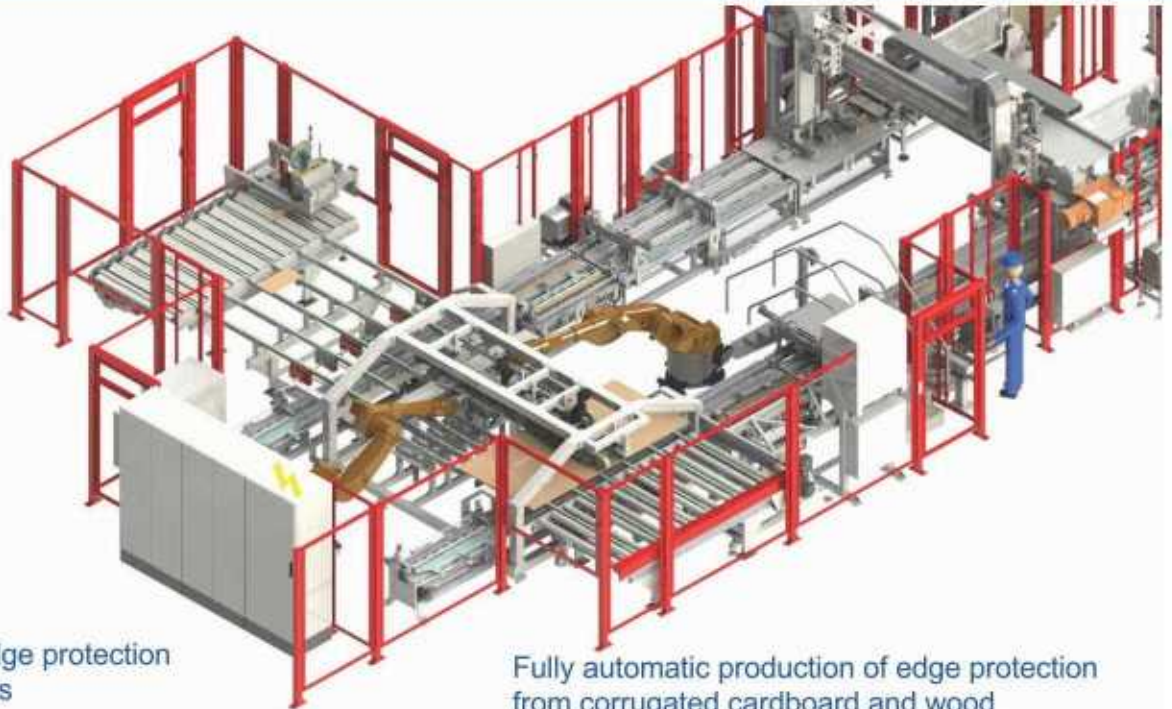
### Your advantages

- Uncomplicated retooling without long downtimes
- Complete several packaging tasks with one robot
- Perfectly matched system components
- Increased plant efficiency
- Complete packaging lines from a single source



# Project examples

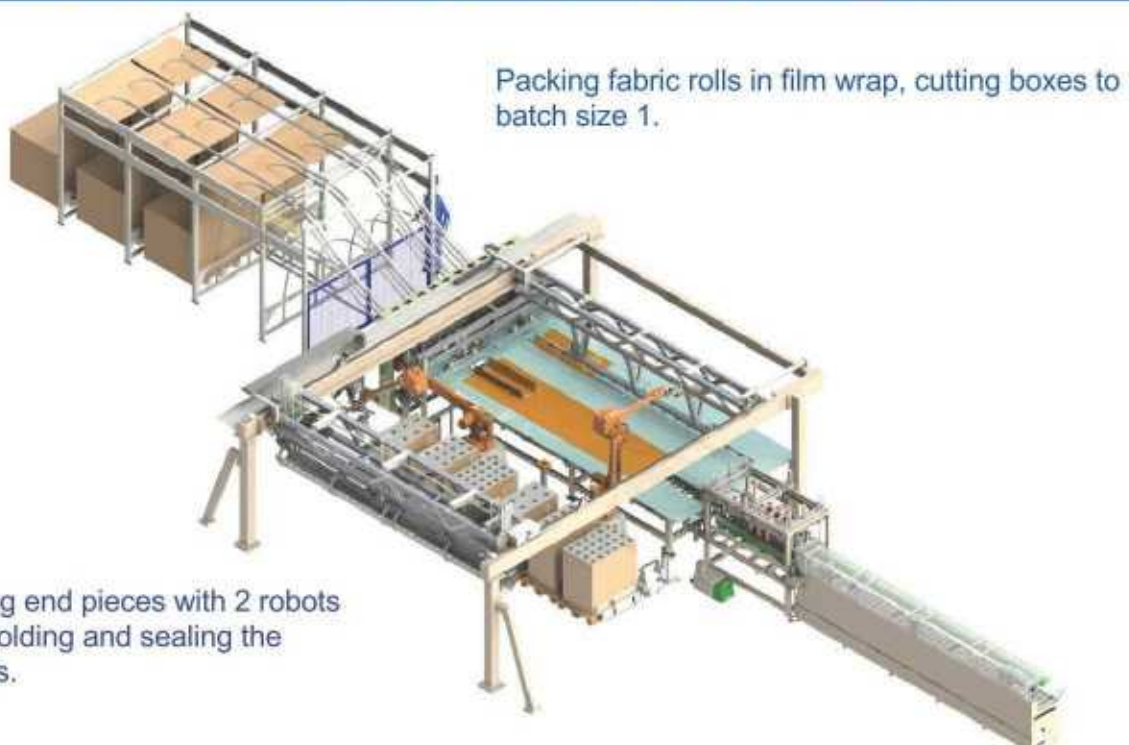
## Example of a packaging line with edge protection



Positioning edge protection with two robots

Fully automatic production of edge protection from corrugated cardboard and wood

## Example of fully automatic cardboard box packaging in batch size 1



Packing fabric rolls in film wrap, cutting boxes to batch size 1.

Gluing end pieces with 2 robots and folding and sealing the boxes.

# Retrofit

## Giving your robot a new lease of life

The service life of a robot system is often longer than the task it was originally intended for. Products, performance data and demands on the **robot system** change over time.

The Becker Group offers you a complete **retrofit** from a single source with perfectly matched components. Whether you are looking to renew or extend the control system, change grippers or extend the robot system with additional system components, the Becker Group guarantees uncomplicated retrofitting without long downtimes.

We deliver a **complete package** with a system individually tailored to your needs, including professional advice, installation, training, service and maintenance.



### Your advantages

- Uncomplicated retooling without long downtimes
- Increased productivity
- Perfectly matched system components
- Increased plant efficiency
- Complete retrofit from a single source



# Competence centre

We listen, understand and solve



The **packaging competence centre** is the logical extension to our philosophy of complete solutions from a single source. From the very beginning, our aim was to provide our customers with comprehensive advice on all aspects of packaging. Our **project analyses** begin with developing the perfect packaging for your product together with you. In our **700 square metre centre for innovative packaging processes**, we have state-of-the-art machines at our disposal for the flexible cutting of cardboard boxes.

The first creative workshops are usually followed by the production of **sample boxes**, conducting independent **drop tests** or performing **shipping tests** with the packaged products. Documenting the tests is just as much part of our job as the entire project work, including preparing specifications and presenting the results to the decision makers.

But our **packaging expertise** does not stop at cardboard packaging. We are also your partner when it comes to strapping technology, stretch wrappers or product protection in the transport securing device. We will also be happy to assist you in finding the **consumables** for your packaging system or offer them directly to you if required.

With the introduction of the **robotics division**, we have also expanded the competence centre in this area. There is a robotic cell that can be used permanently for customer tests as well as various gripper systems.

# Individual operating concepts

## We set standards in the packaging sector



Constantly growing demands for increasing automation of plants, networking of many different plant components and customization of individual production steps, brought together under the term Industry 4.0, require corresponding visualization which, in addition to simple and clear operation, offers the plant operator the option of retrieving information or influencing functionalities at any time. Our customers appreciate Becker's operating concept standards, which have been optimized over many years, and the option of introducing their own individual wishes.

From the electrical design and switch cabinet construction to machine cabling and system programming, the Becker Group also offers everything in the field of electrical engineering from a single source. Thanks to our broad-based software department which is well versed in both PLC and NC-based control with Siemens or Beckhoff, the customer decides what he gets from us.





# Becker service

## We make sure your machine is up and running

Our professional service stands for good accessibility, fast availability of personnel and spare parts, competent immediate assistance and efficient remote maintenance of complex machines and systems. High quality maintenance and inspections by our well-trained service technicians are just as much part and parcel of our offer as uncomplicated support with machine extensions and machine relocations.

You, too, can benefit from our extensive range of services. From spare parts supply to on-site service, and from our telephone hotline to online service, we are always there for you. We would be pleased to create an individual service concept for you





# Becker Group



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