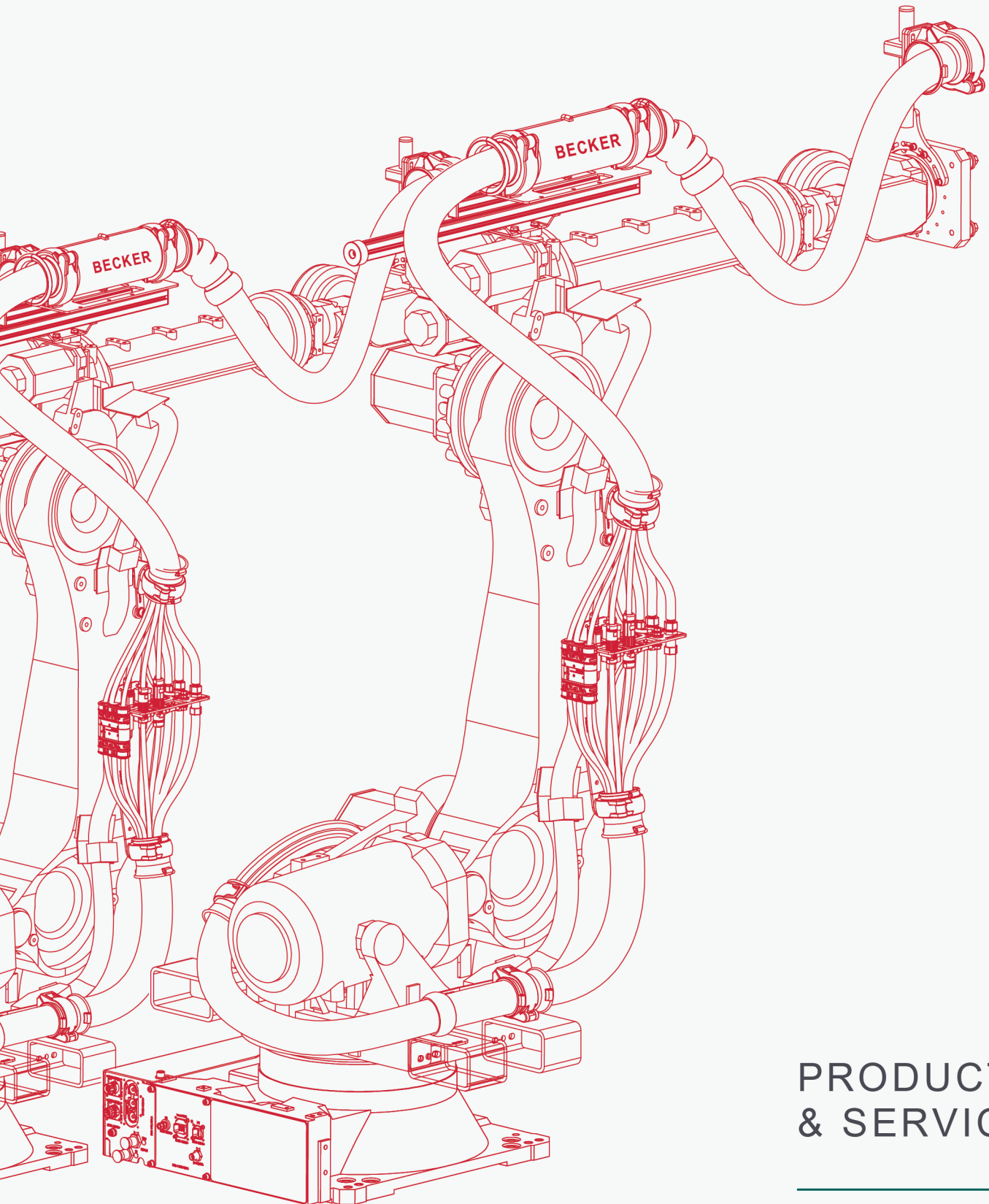




PRODUCTS
& SERVICES



Welcome to Becker Robotic, where innovation meets reliability!

With over 30 years of experience, we specialize in cutting-edge cable management systems and media supply elements for robotics. Our global presence allows us to deliver top-notch solutions for industrial automation worldwide. From product development and design to manufacturing, project support, installation, and optimization, we are here to support you every step of the way.

Join us in revolutionizing the automation industry!



Overview of Products & Services

At Becker Robotic, we are committed to delivering solutions that drive your business forward. From precision-engineered products to personalized service and long-term partnership, we provide more than automation — we provide progress.

We specialize in the development and manufacturing of advanced energy supply systems and media supply units for robots and production plants—each solution precisely engineered to meet your specific requirements. Our services go beyond design and production; we also manage on-site installation and offer global project management to ensure seamless integration and operational efficiency. All final inspections and documentations are conducted directly at your facility, utilizing modern processes and verification tools to guarantee quality and performance. In addition to supplying pre-assembled control and supply cables, as well as media inlets for water and air systems, we provide a robust offering of industrial equipment designed for demanding production environments.

Complementing our automation solutions, we also manufacture high-precision custom steel components tailored to diverse industrial applications. Using state-of-the-art technologies, we deliver metalworking solutions with exceptional accuracy, reliability, and on-time performance.



Energy Supply Systems



Industrial Equipment



Automation



Engineering
& Design



Service & Support



Testing &
Verification Equipment



Custom Sheet
Metal Components

Energy Supply with System & Precision

In any modern production environment, the stability of operations depends on the continuous and dependable supply of energy, data, and media to machines and robotic systems. Disruptions—caused by damaged cables, incompatible components, or poor system integration—can bring production to a standstill.

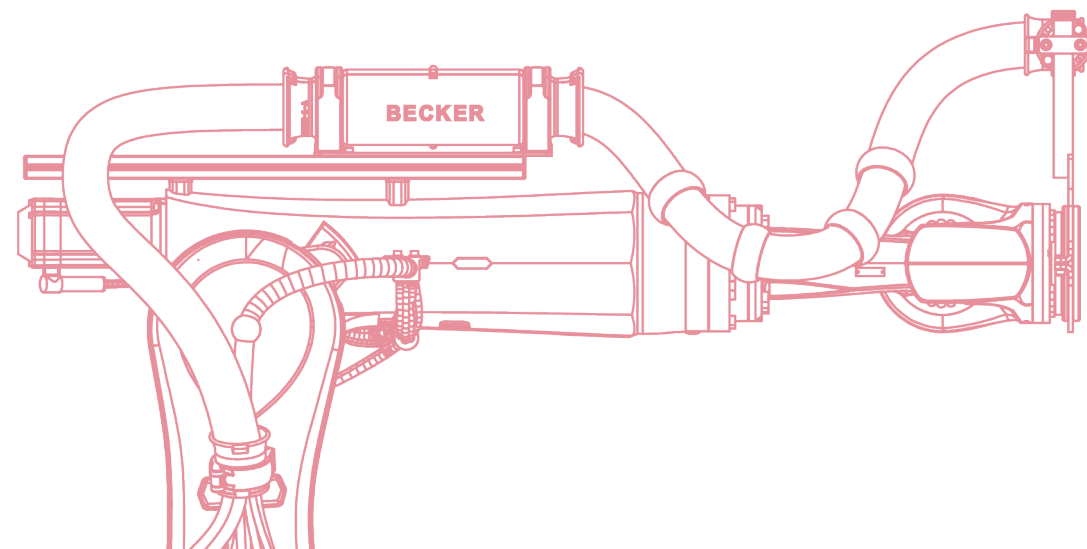
At Becker, we specialize in the development and supply of custom-engineered energy supply systems for any kind of robotic application. Each solution is precisely tailored to your technical specifications and operating environment, ensuring maximum reliability and seamless system integration. Our designs are engineered for long-term durability, operational safety, and minimal maintenance—key factors in securing stable, uninterrupted production.

Backed by decades of cross-industry experience, we understand the challenges posed by harsh and variable industrial conditions. Whether you're operating in high-speed automation or rugged manufacturing settings, we deliver solutions built to perform—consistently and confidently.

Our energy supply systems are versatile in use and precisely tailored to your application:

- Handling / gripper applications
- Clinching
- Inline measurement
- Spot welding
- Stud welding
- Gluing
- PVC systems (FAD, GAD)
- Painting
- Laserwelding
- Screwdriving applications (FDS/FLS und metric screwing)
- Riveting

Features such as ESD compatibility, wash cell suitability, and variable mounting positions on the robot are part of our standard delivery. Available in nominal sizes ranging from NW17 to NW90, suitable for a wide variety of applications.

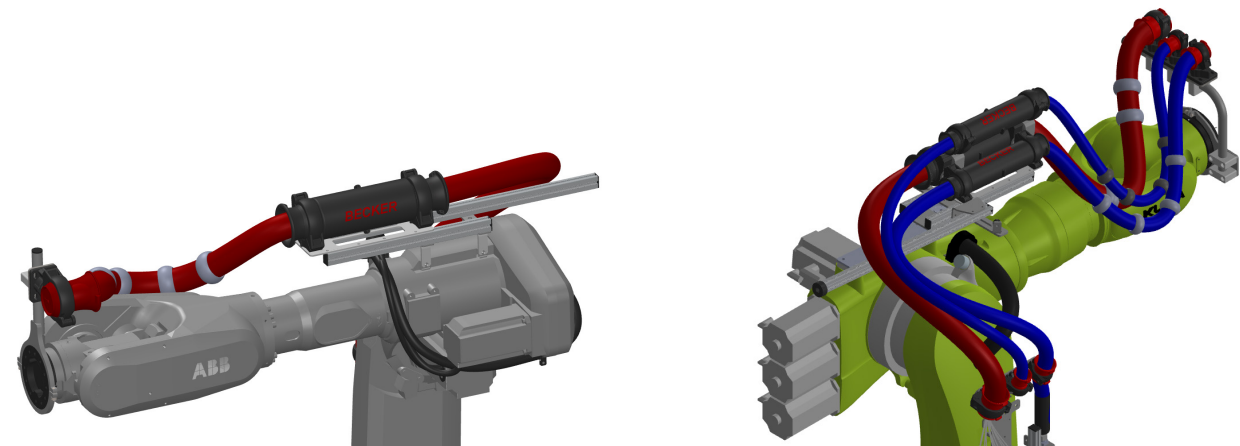


Various retraction systems available for your energy supply system

RoboRoc: Our RoboRoc retraction system has delivered decades of dependable performance in demanding industrial environments, earning a reputation for both reliability and adaptability. Designed for standard applications, its modular architecture allows for easy upgrades to support multi-use setups—making it a future-ready choice for evolving production needs.

Thanks to its compact design, integration into existing systems is seamless. And when maintenance is required, quick replacement ensures your operations experience minimal disruption.

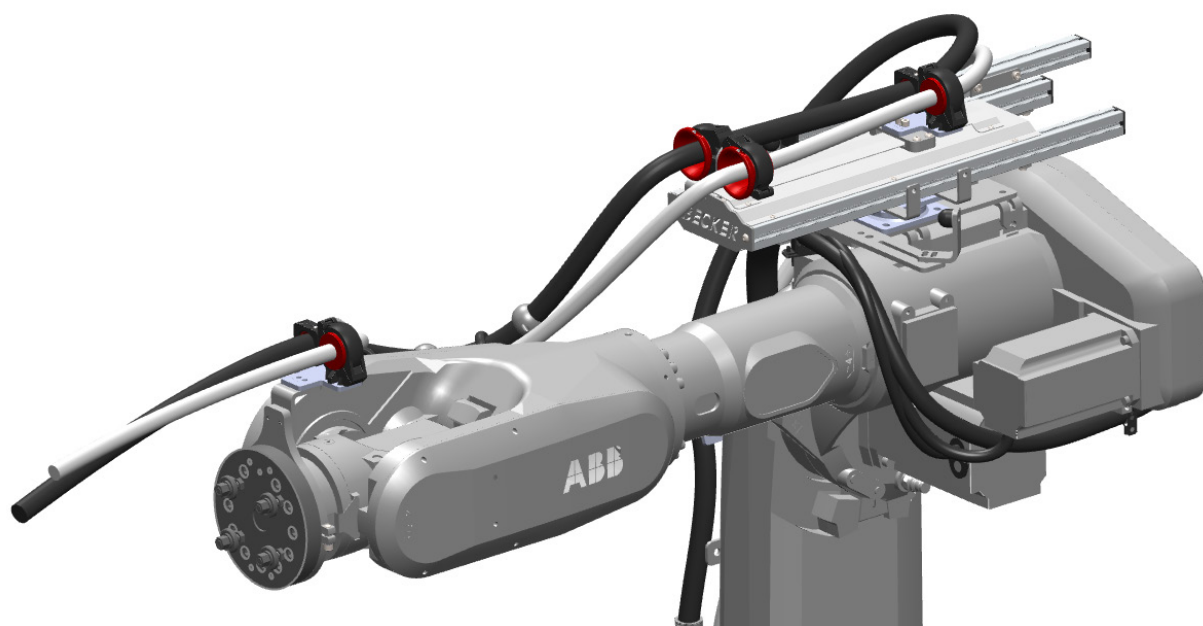
For enhanced functionality, the system can be optionally equipped with the BECKER rotary bearing for axis 3—providing greater freedom of movement and unlocking new possibilities for dynamic applications.





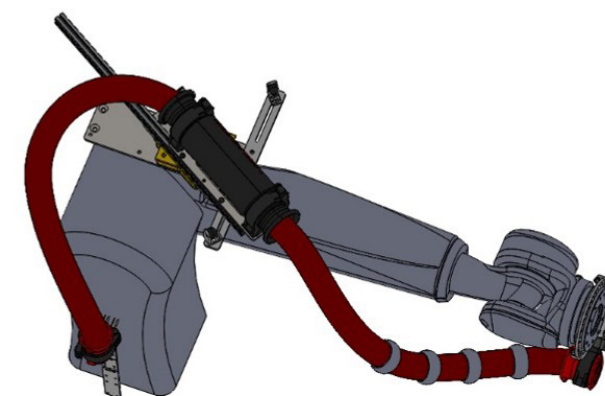
RoboRex: Our RoboRex is the ideal solution for applications where material or supply lines need to be routed without additional corrugated tubing. The system truly comes into its own when integrating specialized energy supply lines that must be mounted flexibly within the retraction system. RoboRex allows for easy accommodation of either corrugated or smooth

hoses, depending on your requirements. Up to five hose bundles of different nominal widths can be routed simultaneously, offering maximum flexibility in system configuration. An optional rotary bearing is available to provide additional freedom of movement and further reduce strain on the supply lines.

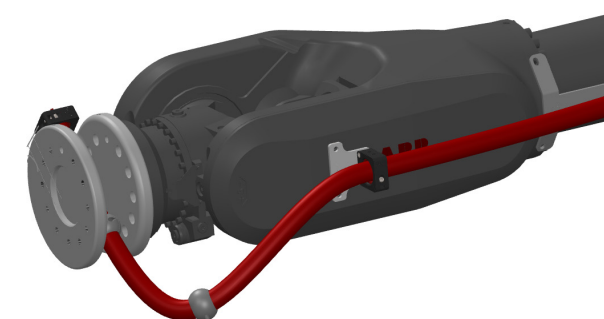


Configurable Energy Supply Options

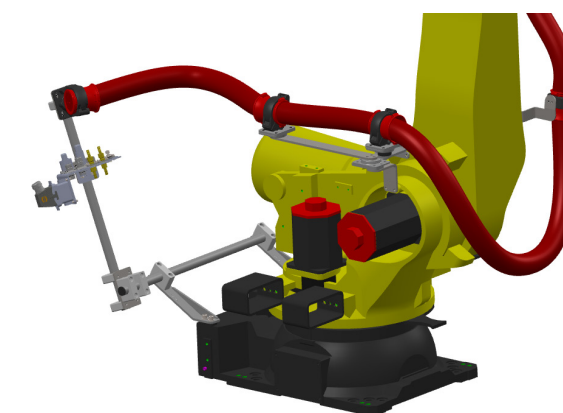
Axis 3 Rotary Bearing System: Our Axis 3 rotary bearing is specifically engineered to relieve the cable bundle in the critical movement range between robot axes 3 and 6—particularly during extreme arm positions. By significantly reducing mechanical stress on the dresspack, it extends service life and minimizes wear, even under demanding operational conditions. The bearing enables controlled rotational movement of approximately $\pm 40^\circ$ from its neutral center position, supporting smooth and dynamic robot articulation. For applications requiring a fixed configuration, end stops can be installed to restrict motion up to 0° , ensuring optimal adaptability to a wide range of system requirements.



C-Adapter: Our C-Adapter is the ideal solution for applications where the robot must perform complex movements in the wrist area. Its special design enables precise and controlled routing of the energy supply system – simplifying programming, improving simulation capabilities, and reducing the required installation space. At the same time, mechanical stress on the cables is significantly minimized, resulting in longer maintenance intervals and extended service life of system components.



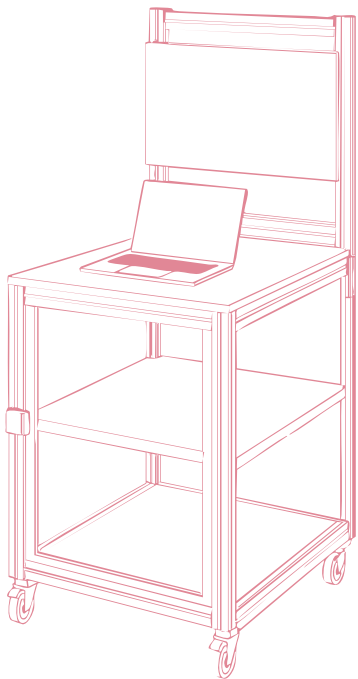
Universal Stand: The Universal Stand offers a robust solution for externally routing power and media lines that cannot be guided through the robot base or bearing hole. It is particularly well-suited for applications involving feed hoses—such as those for screws or rivets—where maintaining a precise bending radius is critical for performance and longevity. Equipped with flexibly adjustable components, the Universal Stand allows for exact alignment with the rotational movement of axis 1. This ensures smooth integration into the robot's motion sequence and supports consistent, reliable operation across a wide range of production scenarios.



Equipment for Testing & Documentation

Our Test Unit

Our testing systems are precisely designed to meet the requirements of your energy supply systems and control cables. They enable fast and reliable detection of open circuits, short circuits, wiring errors, and other faults – ensuring maximum safety and efficiency well ahead of commissioning.

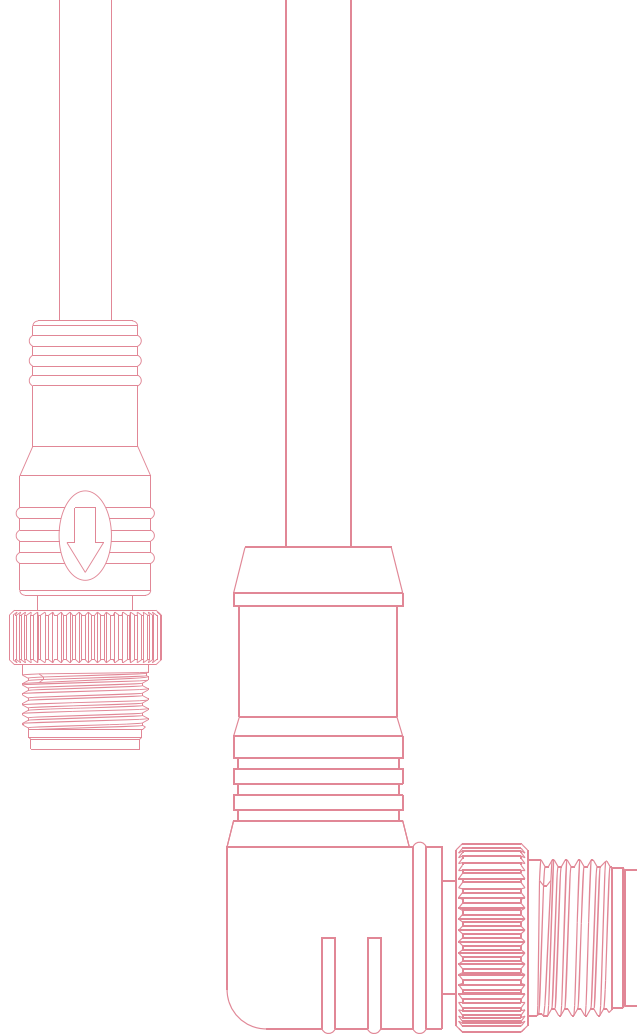
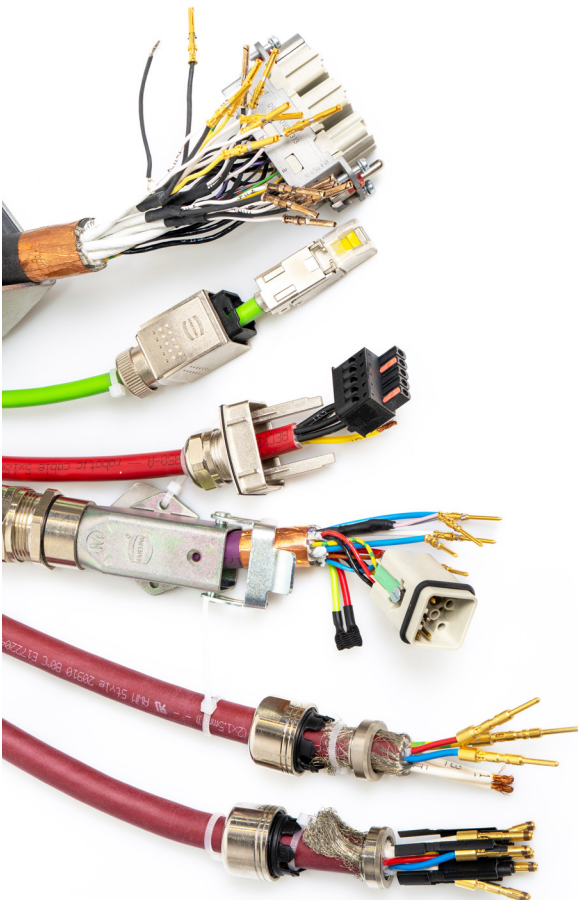


Cable Assembly

Pre-assembled connection cables

Becker offers a comprehensive range of ready-to-connect individual cables tailored for dynamic industrial environments. With a broad portfolio of specialized cables designed for use on robots, linear axes, and in cable trays, we deliver pre-assembled solutions to meet various standards—all with short lead times and dependable availability.

Each cable is factory-tested to ensure durable, high-performance electrical connectivity—engineered for precision, reliability, and longevity in demanding applications.



Our cable offering includes:

- Motor and encoder cables
- Control cables
- Data cables
- Bus cables
- PROFINET (copper and fiber optic)
- Welding power cables
- Initiator cables (M8 and M12 connectors)
- Hybrid cables

Cable assemblies beyond the standard – precisely tailored and engineered for your application.

Standard solutions often reach their limits – especially under demanding or unusual operating conditions. Becker Robotic offers individually assembled connection systems, precisely tailored to your technical specifications. We design and manufacture robust special assemblies that ensure safe and durable connections even under extreme conditions. Whether it's special designs, exceptional environmental requirements, or complex interfaces – we deliver solutions where standard products are no longer sufficient.

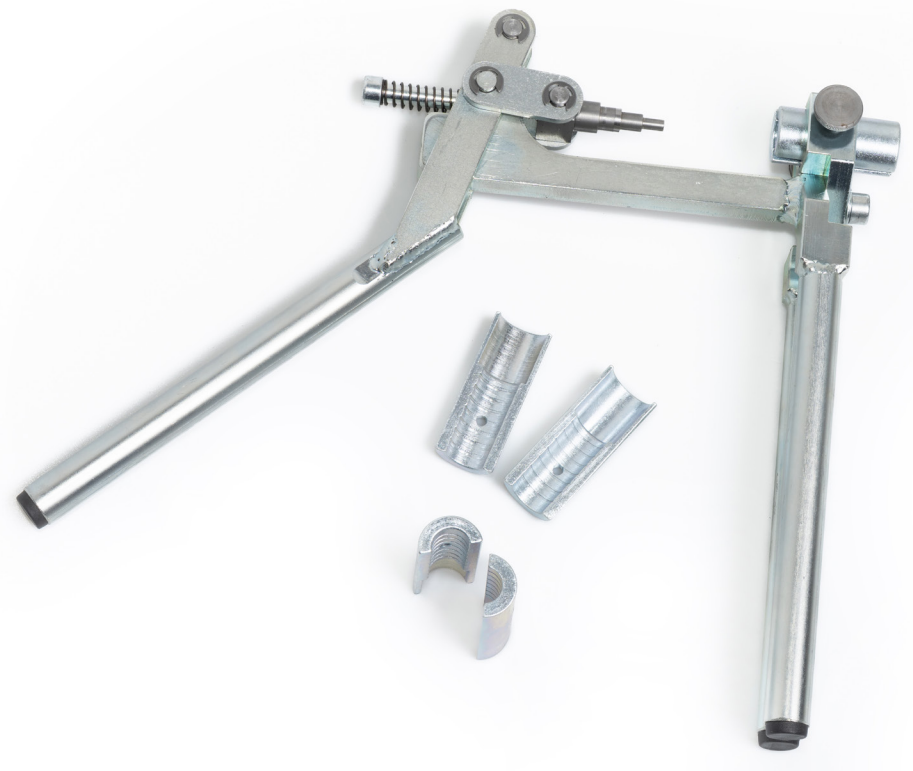
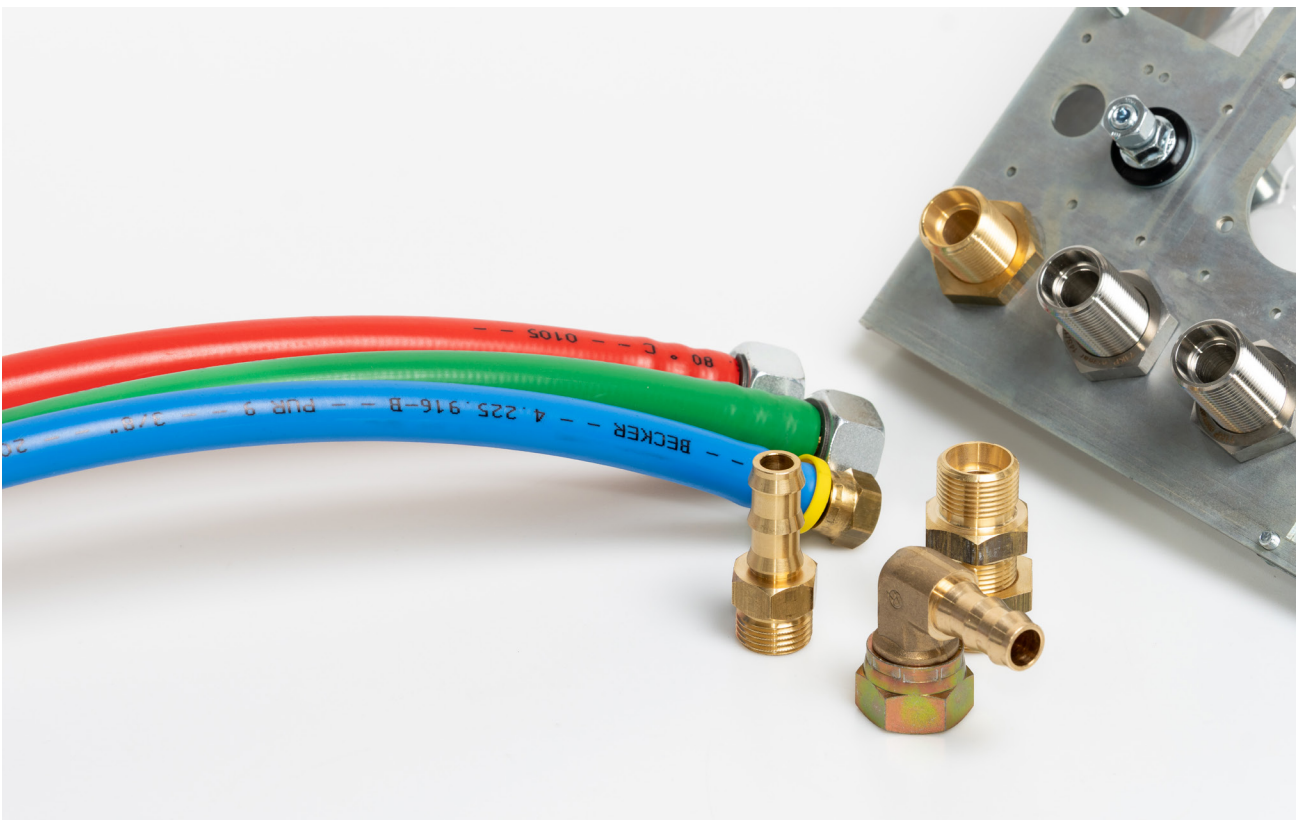
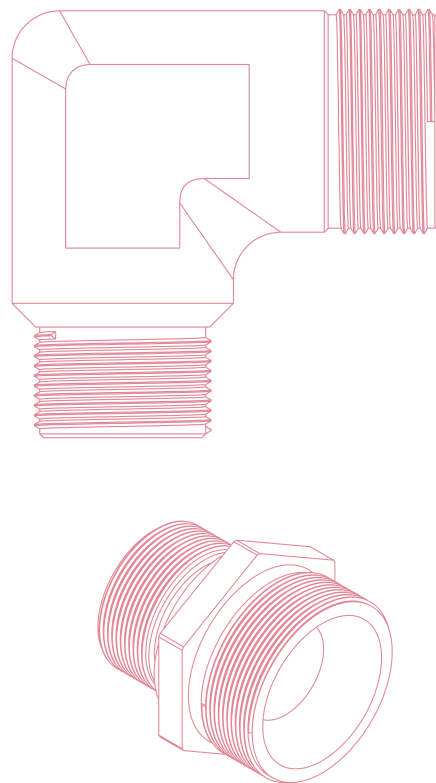


Media Hoses & Connection Technology

High-Quality Connections for Industry

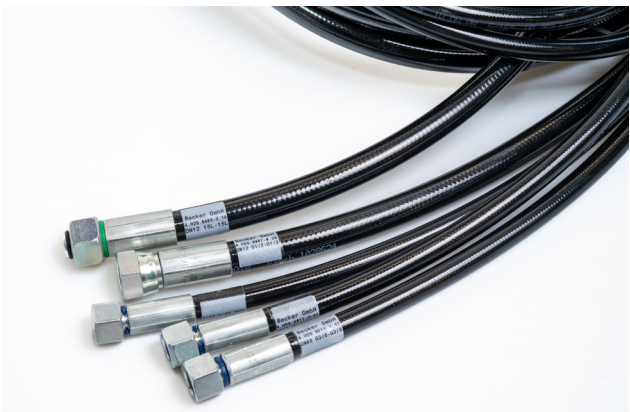
Becker Robotic provides a robust selection of industrial-grade hoses and fittings, engineered for reliability and longevity in heavy-duty applications. Our solutions are specifically designed to meet the rigorous demands of automated production environments.

Our high-quality polyurethane hoses are built to endure continuous flexing and mechanical strain. They offer exceptional resistance to abrasion, chemicals, and temperature extremes—making them ideal for robot-guided operations in industries such as automotive manufacturing and food processing.



To ensure seamless integration, we supply precisely matched fittings to complement our hose systems.

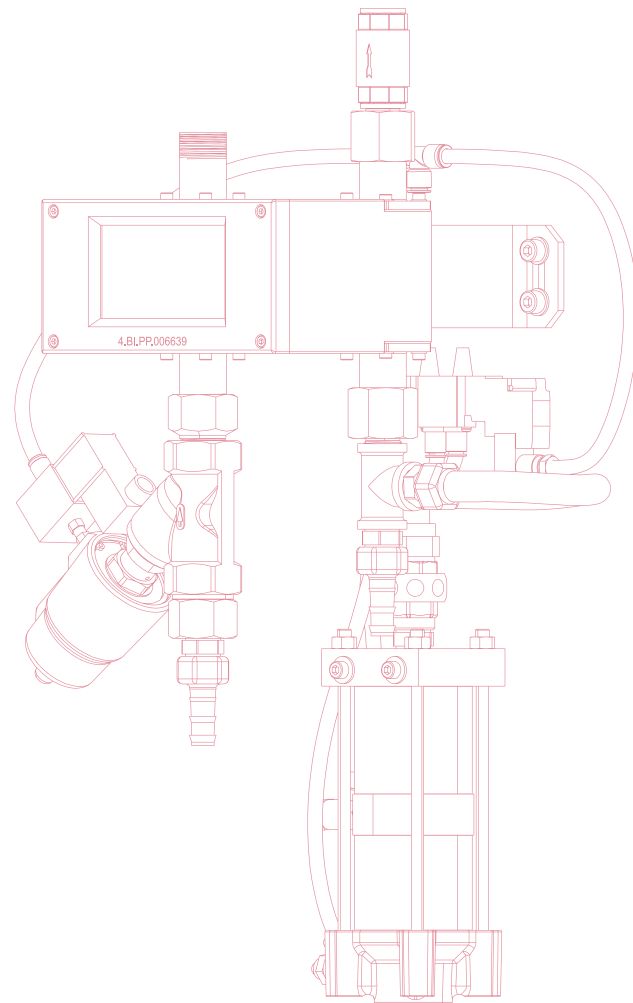
For effortless installation, our specialized assembly pliers enable damage-free insertion of straight, 45°, and 90° hose nipples into double-walled PUR hoses in nominal sizes 6, 9, and 12—ensuring secure, reliable connections every time.



Media Supply Panels

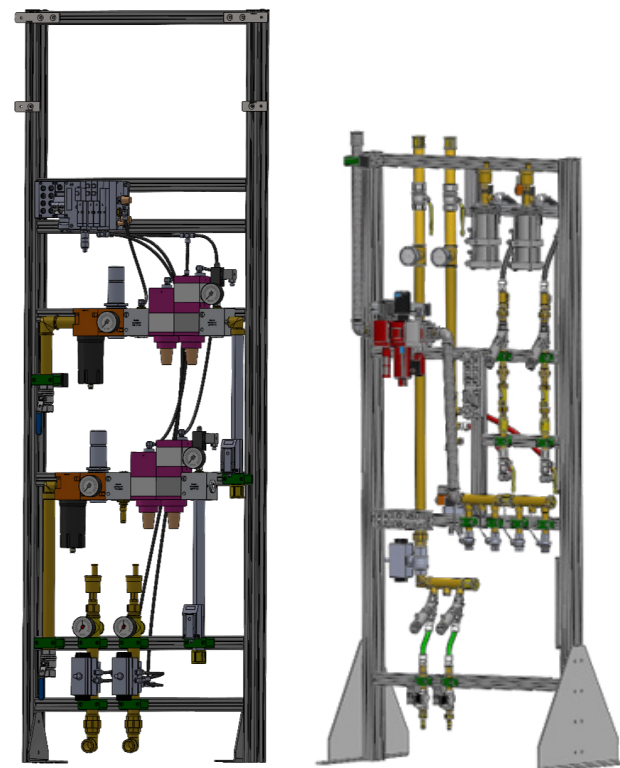
Becker Robotic develops and manufactures customized media supply units—HIP and RIP systems—for the controlled delivery of media such as compressed air and cooling water. Designed for direct installation within the production cell, these units ensure continuous, stable media flow throughout the entire manufacturing process.

To maintain optimal process stability, all media flows are actively monitored by integrated sensors, including flow monitors and pressure control components. Each unit is precisely engineered to meet the specific technical and environmental requirements of its application—delivering maximum efficiency, reliability, and integration with your production system.



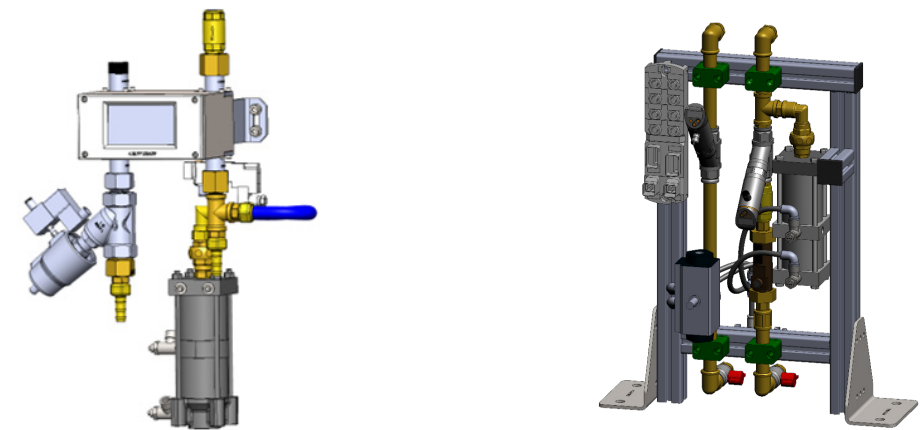
Factory Installation Panels (HIP)

The media supply for welding cells – especially for compressed air and cooling water – is managed via centrally controlled HIP media panels. These panels handle both the regulation and monitoring of air and water supply for the entire cell.



Robot Installation Plates (RIP)

The Robot Installation Panel (RIP) serves as the central supply unit for spot welding robots, reliably delivering compressed air and cooling water to the welding gun. A vortex flow sensor is integrated to precisely monitor the cooling water flow. A shut-off system allows targeted closure of the supply and return lines. At the same time, a pneumatic cylinder activates a vacuum within the hose system, enabling safe and clean replacement of the welding cap during maintenance – without any coolant leakage.



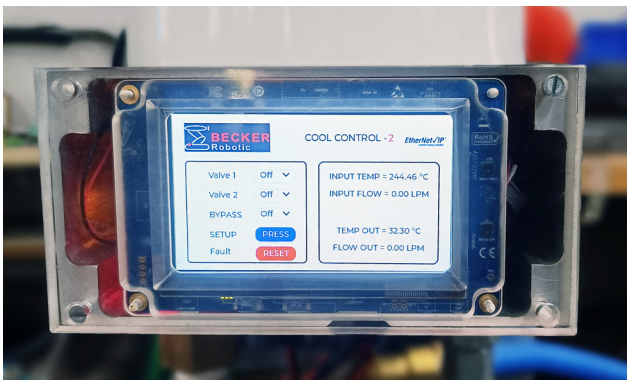
Cool Control 2.0

Our Cool Control 2.0 features a user-friendly web browser interface and an integrated touch display for easy input and adjustment of monitoring and control parameters.

The intuitive user interface offers functions for resetting faults, controlling the shut-off valve, and managing leakage monitoring.

The system provides real-time information on:

- Coolant flow
- Temperature
- Shut-off valve status
- Leakage detection



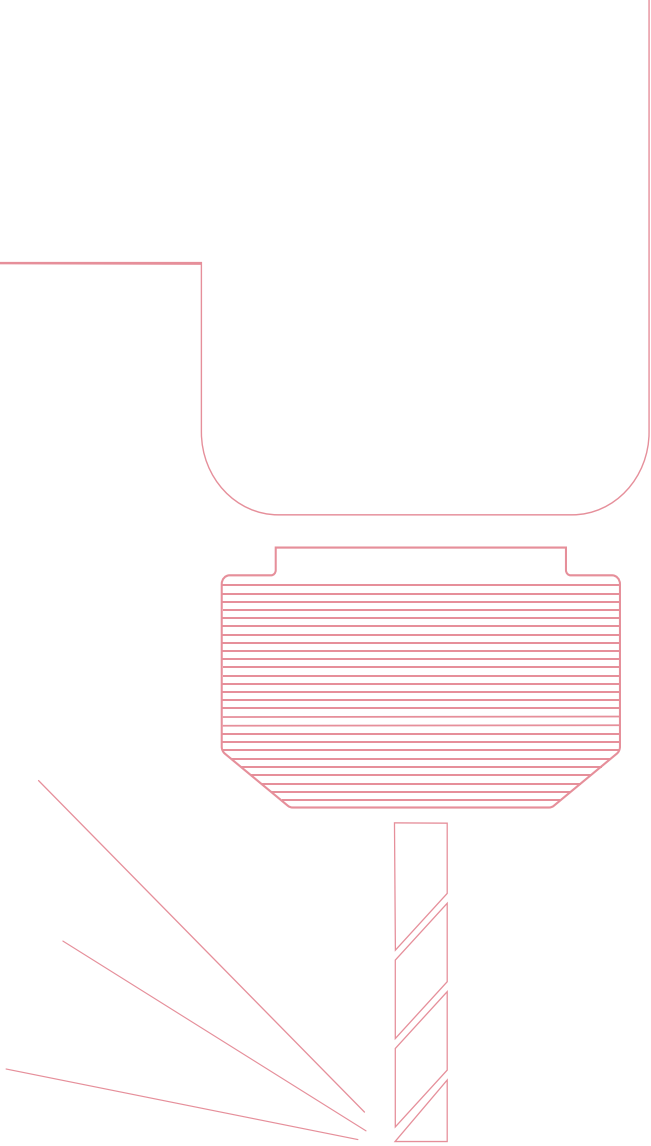
This always gives you full control over the condition of your system – precise, reliable, and convenient.

Custom Sheet Metal Components

Custom Metal Fabrication – Precision-Made to Your Specifications

At Becker Robotic, we specialize in high-quality sheet metal processing, delivering tailored solutions that match your exact specifications. Our advanced capabilities include automated laser cutting, waterjet cutting, modern press brake operations, and CNC machining—supported by a skilled team of metalworking professionals.

Whether for small batch orders or large-scale series production, we combine craftsmanship with cutting-edge technology to ensure precise, reliable results. Our expertise guarantees the accuracy, consistency, and performance your project demands—every time.



- Complete Sheet Metal Processing Service

From the initial design to final assembly, Becker Robotic offers seamless production.

Our custom-made parts are manufactured in compliance with industry standards. By using advanced machinery with the appropriate software, we are able to execute projects efficiently.



- Expertise in Welding, Finishing, & Assembly

With highly qualified, certified welders, we ensure flawless weld seams for all projects. Final surface finishes such as galvanisation or powder coating guarantee excellent appearance and durability of the components.

With our service team, we offer you professional final assembly.

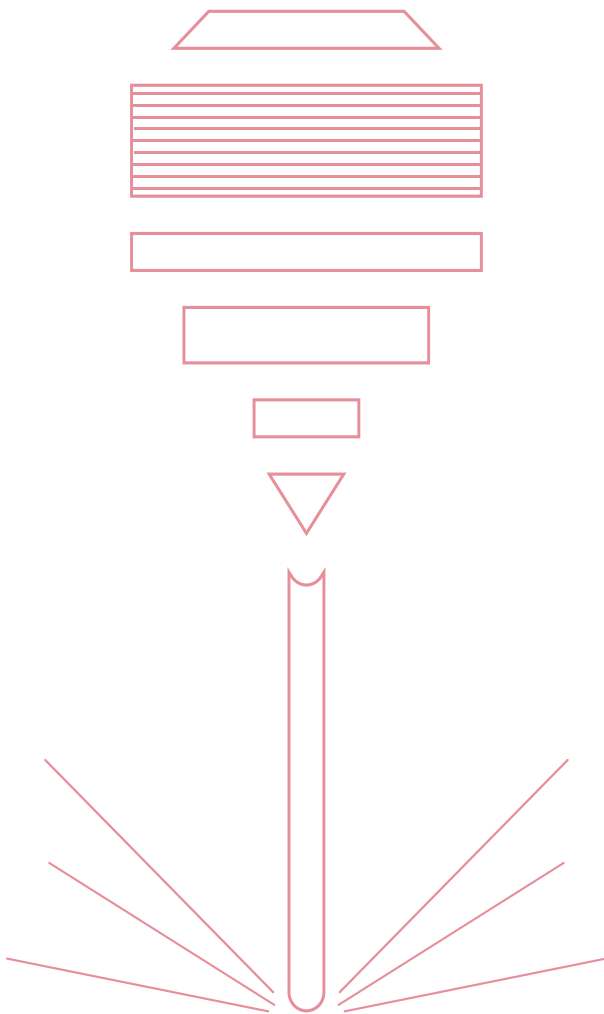


- Advanced Laser Cutting Technology

Our state-of-the-art laser cutting systems precisely process a wide range of metals, including cold-rolled steel, stainless steel, and aluminium. With automatic loading and unloading, optimised part nesting, and offline programming, our laser systems deliver unmatched precision, quality, and cost efficiency.

Waterjet Cutting According to Specifications

Becker Robotic offers state-of-the-art waterjet cutting technology for precise and clean cuts across a wide range of materials.

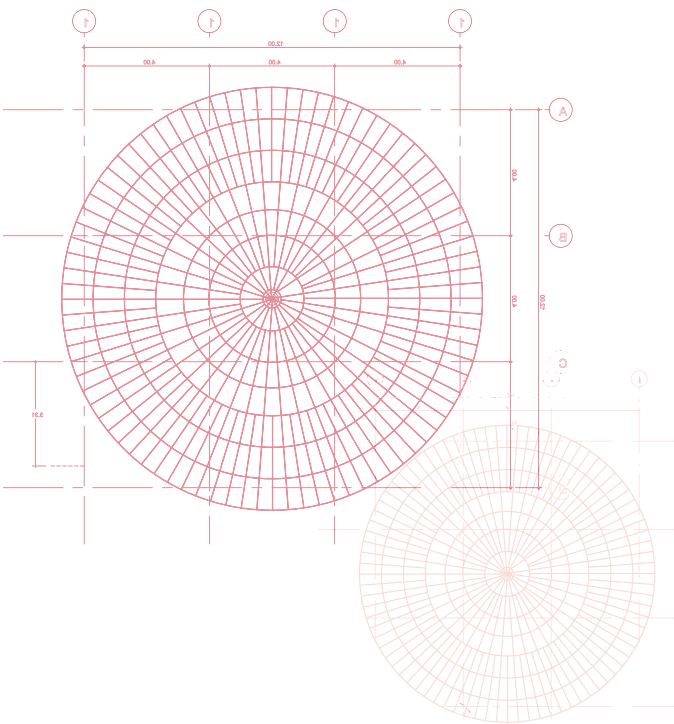


- Complex geometries and delicate contours are executed with high accuracy.
- Cuts almost any material – from metals, plastics, and composites to stone, ceramics, and glass.
- No heat input – no deformation, ideal for sensitive materials and technical applications.
- Reduced need for post-processing, minimal material waste, and lower production costs.
- Fast and reliable order processing – without compromising on quality.

3D Printing & Prototyping

Becker Robotic offers precisely manufactured 3D-printed parts. Whether it's an initial concept or a finished model – we support you from design to the final printed component. Thanks to our short response times, we can flexibly assist you even with time-critical projects.

With our powerful machinery consisting of multiple FDM 3D printers, we produce components with a wide variety of geometries and complexities. Thanks to CAD-supported design and carefully selected materials, we create durable, functional, and assembly-ready parts – ideal for rapid testing and development cycles close to production.



Your benefits at a glance:

- Custom design & CAD modelling
- Fast production with short delivery times
- High dimensional accuracy and repeatability
- Various materials available (e.g. PLA, ABS, ASA, PETG, PA)
- Ideal solution for prototypes, individual parts, or small series



Becker Robotic – Global Reach, Local Expertise

With a commitment to innovation and customer satisfaction, Becker continues to expand its global footprint while maintaining a personalized approach to client engagement. Our team is dedicated to delivering solutions that not only meet but exceed industry standards, driving success for our partners worldwide.

For more information on our products and services, please visit: becker-robotic.com

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