

Robotics

Engineering, Products,
Services in USA

Factory Automation & Machinery

BizLink

Factory Automation & Machinery in All Their Diversity

Global Presence.

Innovative Products, Engineering and Logistic Services.

Technological and Quality Advantages.

BizLink Robotic Solutions USA, Inc.

With innovative solutions for intelligent energy and data management in automated production processes, BizLink has been a preferred supplier to numerous automotive, factory automation, and machinery customers worldwide for years.

At our international competence centers, BizLink leads the development and manufacturing of bus cables, industrial Ethernet, and motion control cables. We also offer comprehensive cable systems and services. Our product range is further enhanced by connector development and production, along with the provision of assembled drag chains. As an active member of various associations and user organizations, BizLink stays at the forefront of industry activities, actively contributing to the advancement of industrial communication.

In addition, BizLink provides robotic cables and assemblies, hoses and tubes, dresspack systems, integration-ready robots, robot programming, and automation systems training - instructor-led or online. In response to the growing trend of digitalization, BizLink also offers integrated and intelligent sensor-based measurement solutions.

Moreover, BizLink develops customized special cables and assemblies, as well as complex cable systems. Whether it involves meeting specific requirements for mechanical durability, resistance to radiation and media, electrical transmission properties, or compliance with industry standards and norms, BizLink meets the demanding needs of various industrial applications.

BizLink has demonstrated its industrial expertise to machine builders, line and plant operators, as well as robot and measuring device manufacturers around the world. Whether your organization is a global OEM or a tier supplier, BizLink is ready to help you solve your most challenging industrial design and equipment needs.

Our strong focus on service and expanding product diversification drives us to continue developing these markets. With our broad product range, BizLink addresses market challenges through ongoing collaboration with technology leaders and user organizations, actively developing products and services to meet future trends, particularly in response to increasing digitalization.

Find Out More >

factory-automation-machinery.bizlinktech.com

BizLink Robotic Solutions USA, Inc. (BizLink) stands out as the premier provider of automated industrial solutions in the Americas.

With a distinct expertise in automation, particularly in robotic cable management solutions and automation systems training, BizLink is exceptionally equipped to assist our clients in achieving optimal operational efficiency and delivering high-quality products essential for attaining top-tier manufacturing standards.

Whether it's defining an original specification; designing, installing, and servicing the automated solution; or empowering operators and technicians to achieve new levels of quality and productivity, BizLink is your solution provider.

About BizLink

Founded in 1996 and headquartered in Silicon Valley, USA, BizLink is dedicated to making transformative connections that bring visionary ideas to life.

We specialize in providing essential components such as wire harnesses, connectors, and cables to a broad spectrum of industries including IT Infrastructure, Client Peripherals, Optical Fiber Communications, Telecom & Networking, Electrical Appliances, Medical Equipment, Factory Automation & Machinery, Semiconductor Technology, Healthcare, Motor Vehicles, Mobility, Marine, Industrial, and Solar Energy.



Where Possibilities Connect™

Our global presence, with flexible production resources and R&D teams across America, Europe, and Asia, allows us to proactively drive innovation and enable future possibilities.

At BizLink, our customer-centric approach and commitment to relentless advancement empower us to deliver zero-distance service and continual performance optimization, making a positive and meaningful impact worldwide.

We turn possibilities into reality; furthermore, we connect possibilities to world-changing visions.

Cable Management Systems

A Reliable Power Supply is Essential to Every Industrial Process

A dependable power supply is vital for every industrial process. This is because if specific signals cannot be transmitted or necessary media cannot be supplied, production will typically come to a standstill. With our extensive industry experience, we can handle even the most challenging situations. We specialize in assembling, supplying, and installing both standard and custom dresspacks, whether on robots or special machines. Our solutions can be tailored to your requirements, ensuring a long service life and thereby a seamless and resource-efficient production process.



LSC

The LSC is suitable for operation in harsh environments such as sandblasting or milling applications.

Its design allows for easy cleaning without the need for opening. With flexibility in nominal widths (48, 70 & 95), it can be adapted to accommodate other widths as required. The system is particularly well-suited for applications requiring maximum bending radius or straight feeding, such as rivets or studs. Additionally, multiple systems can be compactly installed in parallel on the robot, facilitating the connection of several dresspacks to the robot tool.



Please check with our sales team for other cable management solutions and retract systems like

- SLS-line
- Cantilever solutions
- Base basket solutions

Aside from our standardized solutions we offer customized special solutions.

The spring foot solution can be applied if no or only a small retract length is required and if the robot trajectory is simple. The open spring return system can be modified on site – fast and simple.



LSH 3

Bizlinks' LSH guided robot dresspack solution has proven over a decade to enhance its reliability, compactness, and flexibility, making the LSH 3 the most innovative dresspack solution in the global market today. Its intelligent and extremely compact design minimizes one of the most common causes of error for robot power supply – collision with interfering contours. This benefit in combination with extremely durable materials and proven components creates maximum clearance with a close-fitting dresspack on the robot arm.

The LSH 3's Benefits Include:

- Compact design: fewer interfering contours and lower risk of collision
- Significantly reduced volume, overall weight and length
- Maximum flexibility for dresspack routing
- Compatibility with all LSH versions, without the need for any additional programming

Complex umbilicals and dresspack assemblies, including virtually any combination of pneumatic, hydraulic and electrical service, to fit any manufacturer's robot, machine interface, or combination thereof

Worldwide Robotic Dress Support

Patented

Total Custom Solutions: from standardized products to complex customization

Essentials,
Perfected!

LSH Delta

A State-of-the-Art Retract System Designed to Smoothly and Reliably Run Your Operations.



LSH Delta

- Seamless Integration**
 The LSH Delta seamlessly integrates with many robot brands like FANUC, ABB and KUKA.
- User-friendly Design**
 Enjoy the convenience of tool-free and quick opening and closure of the retract system housing, streamlining your maintenance and operational processes. Dresspack maintenance has never been so easy.
- Adjustable Flexibility**
 The LSH Delta's retract system can be easily adjusted on its base plate using Slide & Click technology – offering you reduced installation time and options to fine-tune in the field.
- Versatility in Your Spring Choice**
 Different spring forces available.
- Featherweight System**
 Crafted with advanced, strong glass fiber reinforced polymer based material, the LSH Delta is incredibly lightweight at just 4.1 kg, without compromising on strength and durability.

- Simplified Installation**
 Save time and effort with our innovative base plate design – letter coded and universally applicable for many robots at the same time. Reduced weight and stock, increased flexibility for robot changes. Newly developed side arms provide excellent support to the dresspack loop.
- Reliable Performance**
 Count on the LSH Delta to deliver consistent performance, ensuring smooth operations in an industrial environment.
- Feedback from Customers – Design from Us**
 Our retract system was developed based on feedback from leading automotive customers worldwide, assuring you of its reliability and effectiveness as well as proving industrial usability.

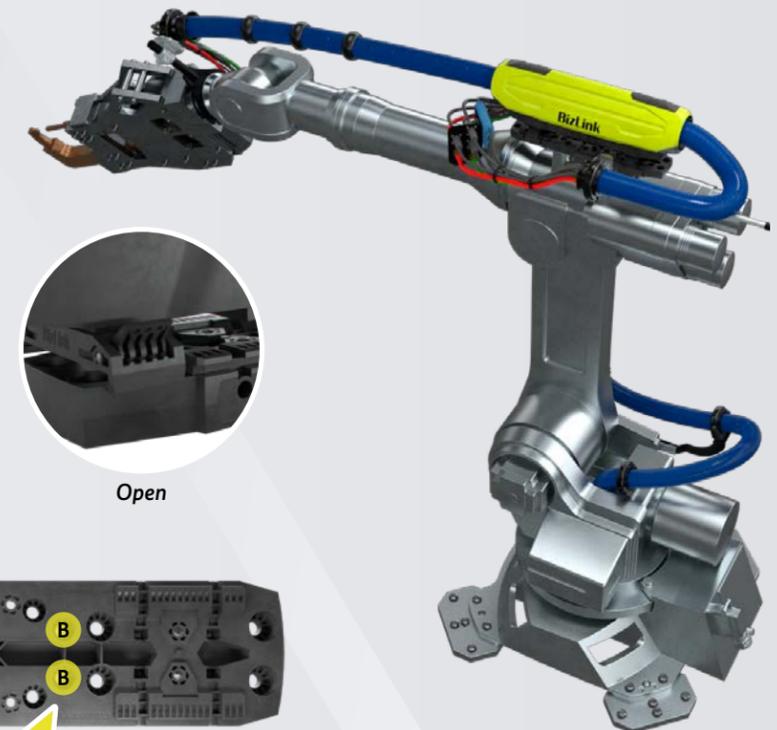
Technical Specifications

- Weight of retract system (w/o further parts): 4.1 kg/9.04 lbs
- Length: 719 mm / 28.31 inch
- Width: 183 mm / 7.21 inch
- Max. extension length: 350 mm / 13.78 inch
- Material: glass fiber reinforced polymer
- Fire retardancy (acc. to UL 94): V2

One System – Many Applications

- Clinching
- Handling
- Painting
- Spot welding
- Screwdriver applications
- Bolting
- Coating
- In-line measuring, etc.

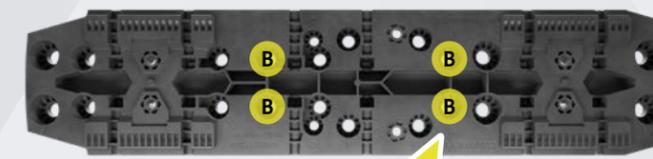
LSH Delta



Closed



Open



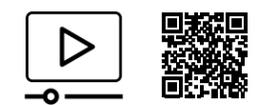
Patent pending



Universal base plates with letter-coded designs:
 The new base plates feature various hole patterns, each designated with letters A to F, representing mounting positions tailored to specific robot types.

△ = Delta
 The delta sign can be recognized in the retract system when you look at it from the front or end. It has a triangle shape. It symbolizes change.

Watch Our LSH Delta Video



Services for Cable Management Systems

Reduce Your Downtime

Integration-Ready Robots

Dress Packages: Integration-Ready Robots

With BizLink's leading global position as a supplier of robot solutions and services, it is no surprise that some of the world's largest OEMs trust BizLink to prepare their robots for the plant floor.

Our dress package service begins with your basic robot. We install and optimize the dresspack to maximize your uptime, configure the controller, set up, and test the end-of-arm tooling (EOAT) software, and calibrate the system for operation. We can also install optional Tool Center Point (TCP) auto-

mated calibration solutions upon request. Once completed, your Integration-Ready Robot is prepared to operate at maximum efficiency.

Additionally, we offer complete dress packages for various robot applications such as spot and laser welding, inert gas welding, vision-guided robotics, measuring, and handling. With our interdisciplinary team of automation engineers and expert technicians, we ensure that your Integration-Ready Robot integrates seamlessly with existing equipment on your production line.

Without BizLink

With BizLink

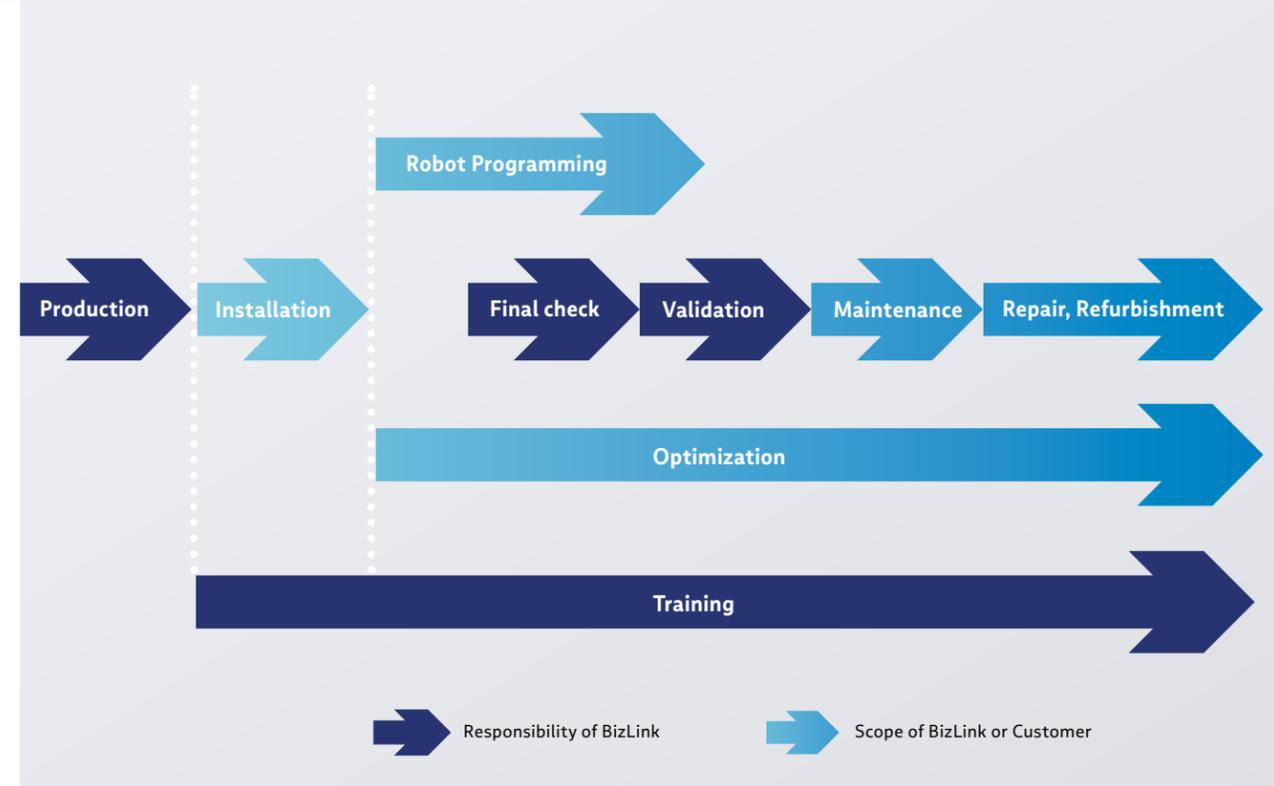
Integration-Ready-Robots = BizLink Dress Packages



- 1 Robot
- 2 Robot controller



- 1 Robot
- 2 Robot controller
- 3 Robot dress pack
- 4 Robot end of arm tooling
- 5 Power and media supply
- 6 Programming service
- 7 Installation and setup service
- 8 PLC/HMI controller
- 9 Media panel



Starting with cable production through the installation, optimization and final check of the dresspack systems BizLink can reduce your downtime. We also offer after sales services such as preventive maintenance, repair and refurbishment of dresspacks.



BizLink B-Flex Cobot

Components for Lightweight and Collaborative Robots

BizLink B-Flex for FANUC CRX

The Smart Cable Management Solution for Collaborative FANUC Robots



BizLink B-Flex round holder



Holder axis 6 with wrist support Ø 63 mm



Hook and loop fastener 30 x 460 mm & 30 x 360 mm



Corrugated hose BizLink proflex Ø 17 mm & 23 mm blue

With BizLink B-Flex Cobot we offer a flexible and slip-resistant solution for attaching components and dresspacks to lightweight and collaborative robots.

As solution provider we offer not only cables and dresspacks. We also develop and supply all guiding elements required for smooth operation. Individual support components for guiding

dresspacks, diverse installation fittings and innovative coupling and connector systems are some examples of our broad range of components.

- › **Top quality materials.**
- › **Longevity.**
- › **Simple handling.**

CRX-10iA CRX-10iA/L CRX-20iA/L

Areas of Application

All applications in which the collaborative FANUC robots CRX-10iA, CRX-10iA/L and CRX-20iA/L are used.

Function

Flexible, non-slip cable management system supports the full functionality of the collaborative robots:

- Ball joint mount on axis 6 provides maximum freedom of installation and safety for all applications
- Proven BizLink B-Flex components for mounting individual components and small hose assemblies.

Advantages

- **Optimal adaptability to the robot application**
 - › Axis distance on axis 6 adjustable by means of holes on the holder
- **Safety due to consideration of international standards in the design**
 - › Reduced interfering contours
 - › Avoidance of sharp edges
- **User-friendly universal solution on axis 6**
 - › Axis 6 holder can be used as a guide aid during manual teaching
 - › Axis 6 holder can be easily adjusted after initial fixation
- **Simple and quick installation**
 - › No off-set required for tools and no consideration in programming, since no offset at axis 6 flange
 - › Cost and time savings
- **Signal color green of axis 6 holder for high visibility**
- **Low weight of all components**
- **Can also be installed on smooth surfaces**

Robotic Cables & Hoses

Automation & Drives

Industrial Cables with the Special Properties Your Application Needs



Complete Robotic Cable Solutions

Cables used for robots have to meet the highest requirements in terms of mechanical, chemical and thermal properties. They need to withstand rapid acceleration and deceleration, tensile, compressive and torsion stress as well as the millions of bending cycles. They also need to be resistant to high temperatures, welding spatters, oil and various other chemicals. We use standard and special insulation material which render our cables highly resistant to abrasion and various media, ensuring they maintain their exceptional flexibility. Moreover, we offer an extensive range of cables for fixed applications. We offer customized special cables with minimum order quantities, starting at 100 m – with short delivery times. Standard cables are often delivered ex-stock.

Taking into account our long history in the design, production, installation and service of robotic cables we truly are cable experts – you can rely on us.

Each single cable is tested in our plant's own test center regarding fitness for purpose and compliance to exact customer requirements. On request individual test records are made available. For our customers that signifies: secured quality.

Our Cable Test Methods:

- Reversed bending tests
- Flexlife tests
- Torsion tests

Corrugated Hoses & Media Hoses

We develop and produce all the polyurethane hoses for integration in umbilicals / dresspacks. Our polyurethane hoses are used in many industrial robot applications. They are utilized to transmit air, water and gases, or also as tubes to convey and position solid states such as rivets, bolts etc.

When it comes to state-of-the-art automation equipment, your plant network and cabling infrastructure needs to be ready for increasingly complex bus systems that have to enable communication from the supervisory control system down to the actuator/sensor level. As more channels are added to accommodate all this data transmission, cables are getting more sophisticated too.

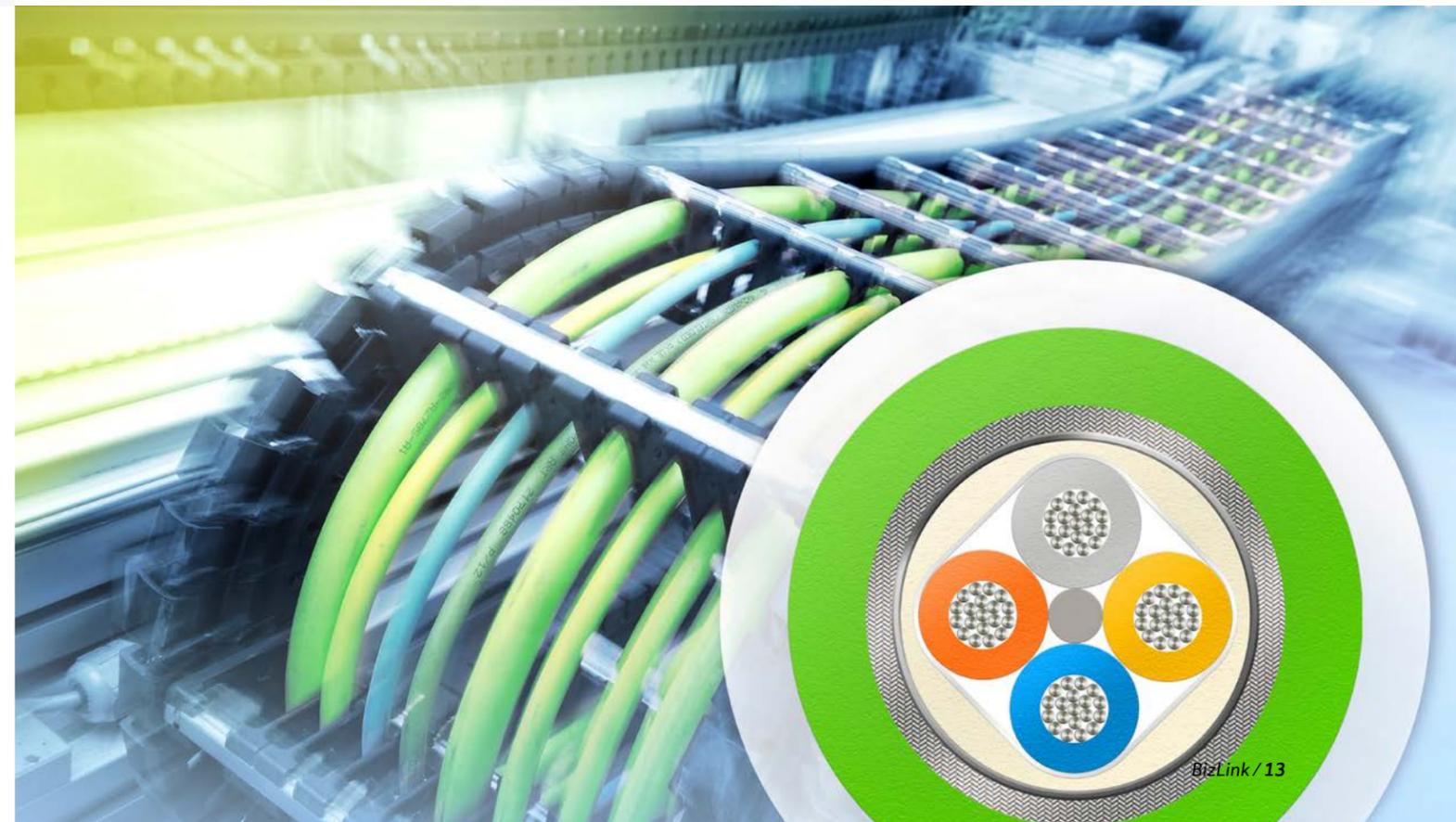
BizLink's factory automation and drive specialists realize that data and communication complexity must go hand-in-hand with assurance and reliability of production and safety equipment. And at the most basic level, this means performance and reliability of the cable carrying all these electrical and optical signals.

Automation & Drives Cables

- Industrial Ethernet/ PROFINET cables
- PROFIBUS cables
- DeviceNet cables
- CAN bus cables
- USB/FireWire
- Feedback cables
- Power cables

Specialized Properties

- Flame retardant
- Weld spatter resistant
- Highly flexible
- Permanent installation
- Halogen free
- Silicon free
- Sunlight resistant
- Oil resistant
- Cold resistant
- Chemical resistant
- Dragchain cable with up to 10 million bending cycles
- RoHS compliant



BizLink advintec TCP

Calculation and Calibration of Robotic Tools and Fixtures in up to 6 Dimensions



The Challenge

Continually securing the correct operating position for fixtures and robotic tools such as welding torches and milling tools.

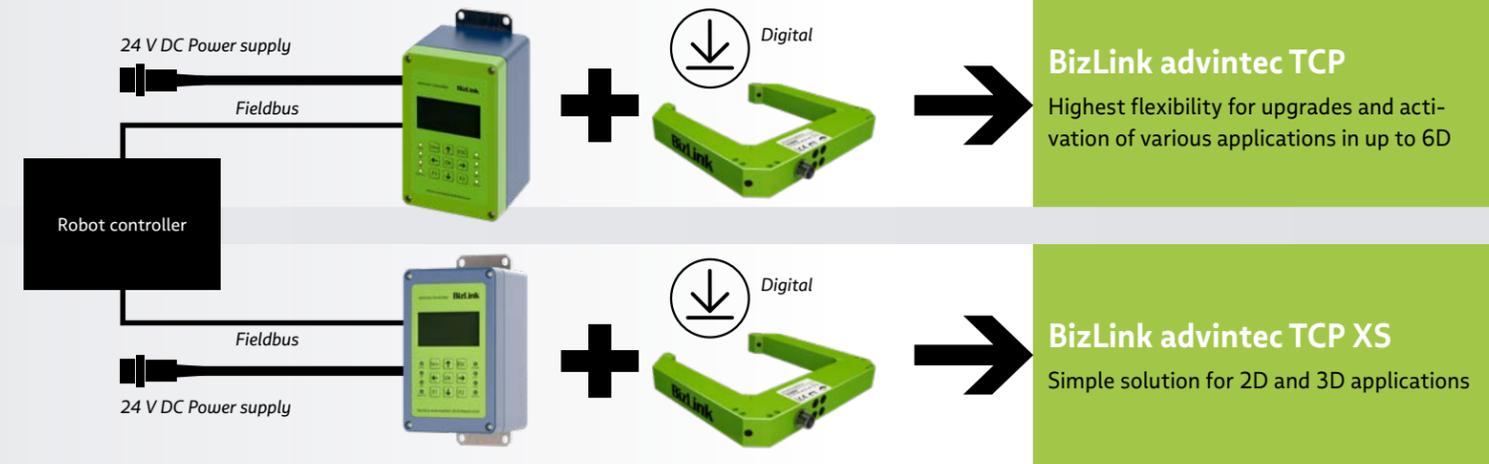
The Solution

The BizLink advintec TCP tool calibration system calibrates the tool or fixture electronically in up to six dimensions. The robot program is automatically corrected by the measured variations and ensures that the tool always operates at the correct position. BizLink advintec TCP is a high-precision calibration system that can be used for all robot types and most robotic tools, making it independent of specific manufacturers.

Your Benefit

Correction takes place directly and automatically in the ongoing production process.

Watch the video



Advantages at a Glance

- Automatic absolute calculation of robotic tools and fixtures
- Auto-commissioning and ease of use
- Simplified Integration in the production line due to small footprint
- Robust sensor available in two sizes
- Multi-sensor-system (connection of additional sensors possible)
- Reduction of costs
 - Prevents the production of defective parts
 - Reduces scrap and rework
 - Short setup times
- Automatic correction of the trajectory due to wear and tear or tool-replacement
 - 100 % quality assurance
- Connection of the calibration system to the robot controller, i.e. the calibration procedure takes place in an evaluation unit and transfers correction values to the robot controller

- High process reliability
- No additional PC's required
- Logging of calibration data
- Data evaluation possible at all times

Applications

Applicable for all rotation-symmetric tools. For special applications we offer you optional technology packages

- TCP software milling
- TCP software stud welding
- TCP software sealant nozzle (hook nozzle)
- TCP software tandem torch
- TCP software cutting tools/blades

Our products are also available for medical as well as food processing applications. For more information contact us!

Our customers' needs come first, which is why we only develop custom training programs, delivered at your site or at our training facility.

Automation Systems Training

System-Level Training Customized to Meet Your Needs

As a manufacturer, your most valuable resources are your employees and their ability to recover from errors and downtime. BizLink automation systems training's approach to training is designed to make sure your employees get the knowledge they need in the least amount of time to keep productivity high.

We train systems, not products

BizLink automation systems training takes an unbiased systems approach to give your employees the knowledge they need to be successful.

Applications

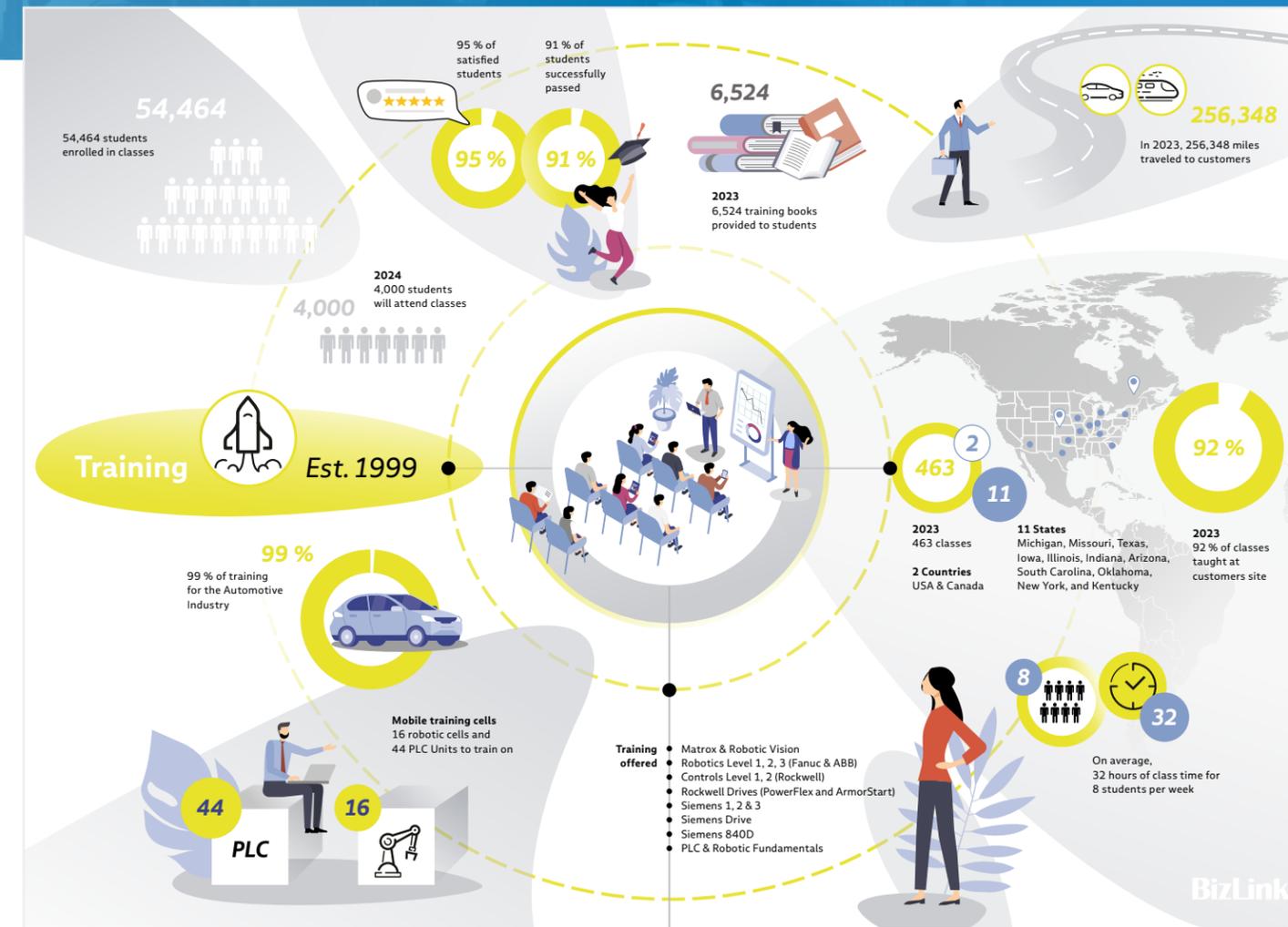
- Material handling
- Spot and arc welding
- Advanced material joining technologies (flow-drill screw, riveting, clinching)
- Dispense
- Waterjet cutting
- Laser applications
- Thermal plasma spray coating
- Drilling
- Polishing
- Grinding
- Machine vision
- Stamping and press systems

Industries Served

- Automotive
- Aerospace
- Metal and plastic processing, stamping, forging, fabrication, molding
- Municipal water systems (water and wastewater); CEC certified and accredited in Michigan and Wisconsin
- Paper processing
- Food, beverage, and packaging industry
- General and heavy manufacturing

BizLink's custom approach to automation systems training realizes that one training program does not fit the need of every student. Before we begin, BizLink instructors research your organization's needs, including:

- Student demographics (engineers, electricians, operators, maintenance technicians, skilled-trades)
- Existing and proposed automation equipment (PLCs, robots, presses, variable frequency drives (VFD), machine controls, HMIs and safety systems)
- Existing applications and processes (robotic welding, sealing material handling, press operation, material handling, etc.)
- The specific needs of your industry and application (automotive packaging, casting, forging, heavy equipment, aerospace, wastewater treatment, general manufacturing, etc.)
- Ways to measure success, including hands-on lab exercises, testing, and task verification.



Your Personnel > Your Machinery > Your Facility > Our Expertise
 Once we've developed the curriculum tailored to your requirements, BizLink collaborates with clients to strike the right balance between training duration and operational uptime. To minimize disruption to your operations, BizLink offers training either onsite at the client's facility or in our dedicated professional classrooms. In cases where production continuity

is essential, we can even set up mobile workcells to ensure training can occur without halting operations. Whether BizLink is training your employees directly or empowering your trainers, you can trust that your program meets the highest standards, supported by BizLink's certification as an accredited learning institution recognized by the state of Michigan.



Online Training

BizLink Online Training is an E-Learning Platform which Offers a Sustainable Learning Environment for Automation Technologies.

Challenge

- Need of developing people to a basic level of knowledge on **automation technologies**
- Preparing users for the on-site launch training that they will receive by BizLink.

Solution

- Improve the **baseline knowledge** on automation technologies
- Improves overall performance during and after launch training
- Create strong effect on overall **mean time to repair (MTTR)**.

Why Companies Buy our Online Training

- **New Technology and New Hires Training >**
Meet the needs of learners **preparing for a launch training or new hires**, thereby improving the efficiency of the instructor led training.
- **Knowledge Retention Training >**
Meet the needs of learners who wants to **refresh and retain the knowledge** on the fundamental technologies

Easy & Convenient for Learners

- Progress Tracking for Users
- Online based (no dedicated software)
- Accessible in any PC or Tablet (via browser)

Available Courses

- Fundamentals of Electricity
- Fundamentals of Robotics
- More courses available, soon
- Target audience
 - Electricians
 - Technologists (high school)
 - Mechanical Apprentices
 - Electrical Apprentices

Course Structure

-  6 Modules
-  Virtual Lab/
Knowledge Check Questions
-  Final Assessment
-  Certificate of Completion

Watch our Online Training Video



Sales Network



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