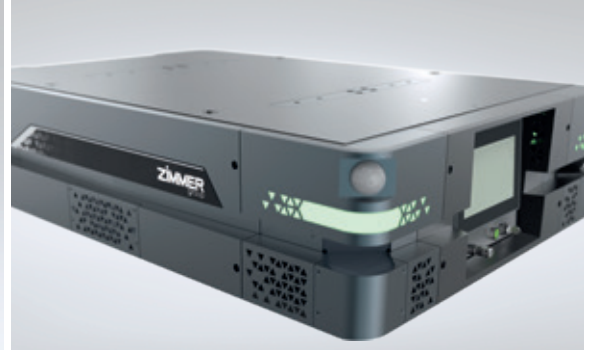




Innovations

Innovations in all
technology areas.

THE KNOW-HOW FACTORY



THE KNOW-HOW FACTORY

ZIMMER GROUP

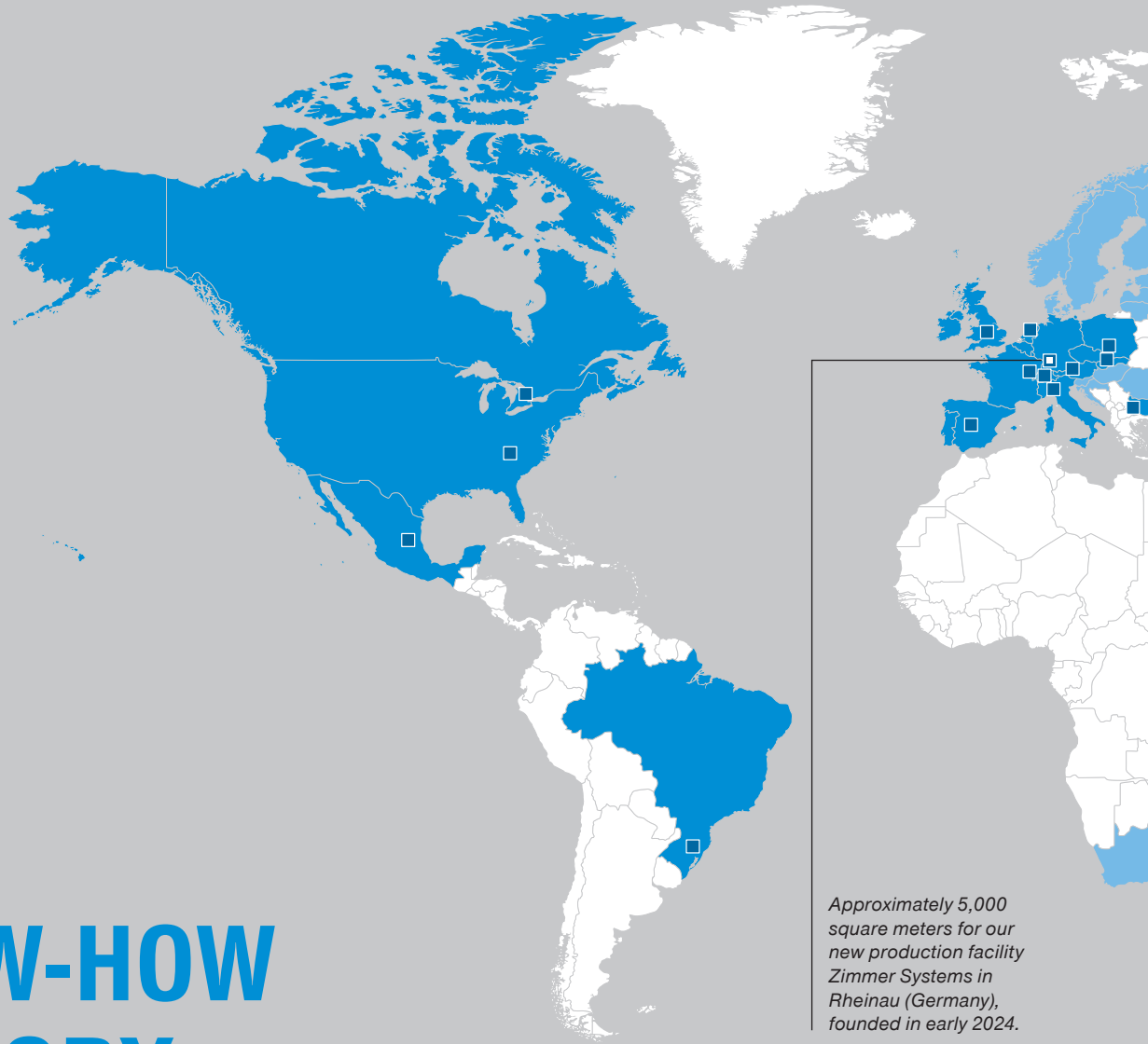
COMMITTED TO OUR CUSTOMERS

WE HAVE SUCCEEDED FOR YEARS BY OFFERING OUR CUSTOMERS INNOVATIVE AND INDIVIDUALIZED SOLUTIONS. ZIMMER HAS GROWN CONTINUOUSLY AND IN 2013 WE REACHED A NEW MILESTONE: THE ESTABLISHMENT OF THE KNOW-HOW FACTORY. IS THERE A SECRET TO OUR SUCCESS?

Foundation. Excellent products and services have always been the foundation of our company's growth. Zimmer is a source of advanced solutions and important technical innovations. This is why customers with high expectations for technology frequently find their way to us. When things get tricky, Zimmer Group is in its best form.

Style. We have an interdisciplinary approach to everything we do, resulting in refined process solutions in six areas of technology. This applies not just to development but also to production. Zimmer Group serves all industries and stands ready to resolve even the most unique and highly individualized problems. Worldwide.

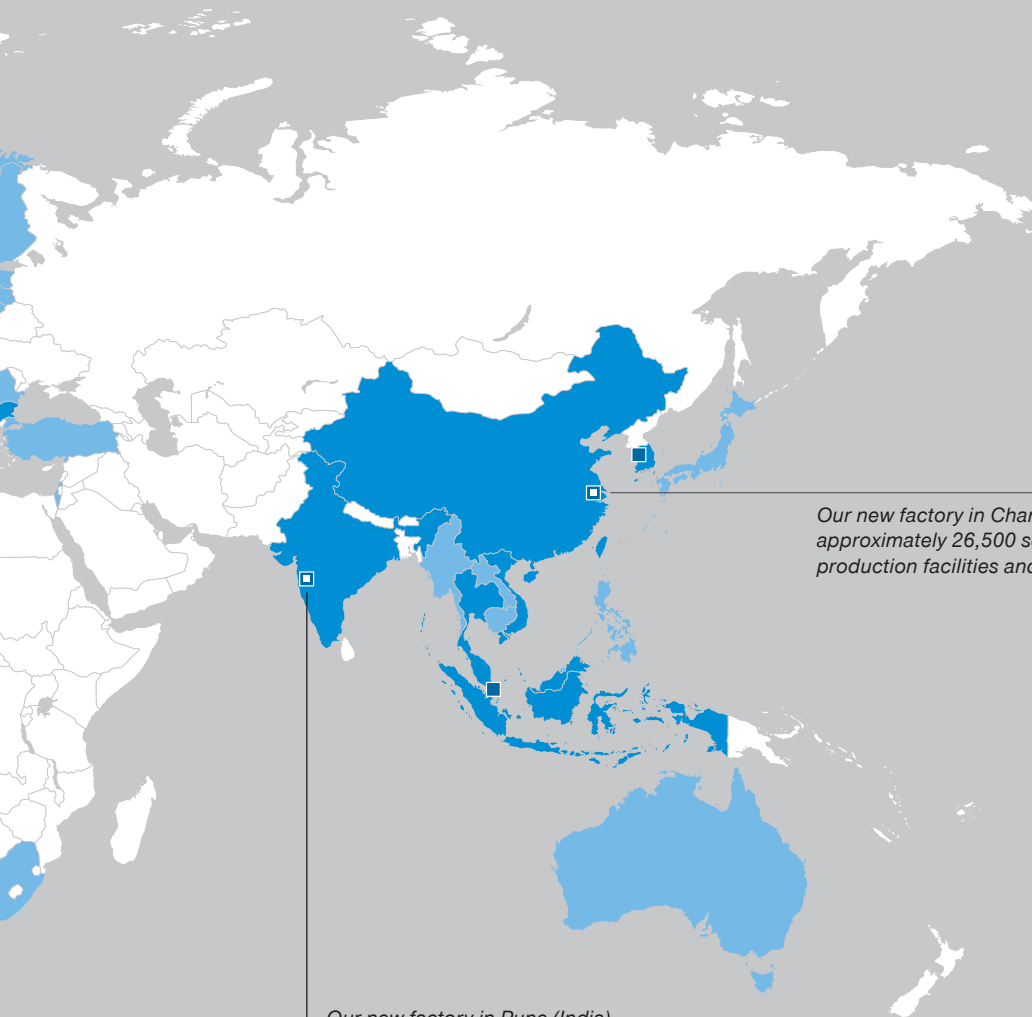
Motivation. Customer orientation is perhaps the most important factor of our success. We are a service provider in the complete sense of the word. Even our decision to identify ourselves as Zimmer Group reflects this reality. With Zimmer Group, our customers now have a single, centralized contact for all of their needs. We approach each customer's situation with a high level of competence and a broad range of possible solutions.



THE KNOW-HOW FACTORY. WORLDWIDE.

Approximately 5,000 square meters for our new production facility Zimmer Systems in Rheinau (Germany), founded in early 2024.

- Sales Divisions
- Sales Partners
- Factories



Our new factory in Changzhou (China) with approximately 26,500 square meters for production facilities and office spaces.

[→ Page 11](#)

Our new factory in Pune (India) with approximately 2,500 square meters for production facilities and office spaces.

[→ Page 9](#)

INFORMATION

With headquarters in Rheinau, Germany; three production sites, 17 sales offices, and 110 dealers and partners worldwide, we are the reliable partner at your side.

ZIMMER GROUP KOREA, BULGARIA, BENELUX

DELIVERING EXCELLENCE ACROSS BORDERS

NEW SUBSIDIARIES WORLDWIDE

Zimmer Group has established a significant presence in Korea since 2006. The Korean market is a hotspot for automation specialists, drawn by its industries, robust environment, and strategic global connections. With Zimmer Group Korea Ltd., Zimmer Group is operating independently in Korea since 2024, aiming to collaborate directly with OEMs and expand its market share in various sectors.

IN THE HEART OF BULGARIA

In May, 2023, Zimmer Group's new representation in Bulgaria, Zimmer Group Bulgaria EOOD, was officially launched. The company is headquartered in the town of Radomir, located 50 km southwest of the capital, Sofia. The new location will allow Zimmer Group to increase proximity to its customers in the country and neighboring states, helping to continue the global expansion journey.

INTERNATIONALISATION TO WESTERN EUROPE

ZVS Techniek B.V. becomes Zimmer Group Benelux B.V.. Since 2022, Zimmer Group Benelux B.V. has been integrated as a subsidiary into Zimmer Group. Headquartered in Zwolle, the Netherlands, it covers the Netherlands, Belgium, and Luxembourg, continuing the company's global expansion. Having our own location in the Benelux will allow us to be even closer to our customers, enabling faster response times and further strengthening our local market presence.

ZIMMER GROUP INTERNATIONALIZATION

COMMITTED TO OUR CUSTOMERS NEEDS

INTERNATIONAL COMPANY EXPANSION

Zimmer Group is the world's leading manufacturer of automation solutions. Highly innovative products, a steady expansion of the portfolio and the procurement of new capacities, global infrastructures and job opportunities are at the core of an international expansion strategy that we have pursued for several years.

- ▶ **All potential fully tapped**
1,320 employees, 17 locations worldwide
- ▶ **Sustainable growth opportunities**
Continuous development, creation of new jobs and expansion of knowledge, capabilities and skills
- ▶ **Global synergies**
Local and international locations with the best infrastructure, markets and customers

LOCALLY AND WORLDWIDE



India is also increasingly gaining importance to Zimmer Group. "We are planning to expand our branch there." Achim Gauß



"China has become our #1 growth market in recent years, which is why a new building is to be constructed in Jintan (Jiangsu province)." Achim Gauss



ZIMMER
group

THE
KNOW-
HOW
FACTORY

ENTERING NEW SPHERES

With the new factory building in India, Zimmer Group's international expansion strategy lays ground to a new market and more innovation, while contributing to the country's economic development, growth and employment opportunities.

NEW BUILDING IN INDIA

KIKVI, PUNE

NEW FACTORY IN PUNE, INDIA

With access to one of the world's fastest-growing markets, Zimmer Group is able to tap into India's enormous potential for growth and expansion. By manufacturing in India, Zimmer Group can tailor its products to meet unique customer needs, while also benefiting from strategic geographical positioning. This move not only strengthens the brand's presence in the region, but also demonstrates Zimmer Group's long-term commitment to driving innovation, economic

development, and prosperity in India. Located in Pune, renowned as an automotive and engineering hub, our new plant sprawls across four acres of land. In its first phase, we've designated approximately 1,573 square meters for production facilities and 922 square meters for office spaces, with provisions for future expansion mirroring these dimensions.

COMMITTED TO DEVELOPMENT AND INNOVATION

This project and the establishment of Zimmer Automation Ltd. Pvt marks an important milestone in the growth and development of the company. Committed to sustainable practices, Zimmer Group embraces green manufacturing principles like solar energy, implementing waste recycling programs, adopting eco-friendly packaging solutions,

minimizing paper consumption, and optimizing HVAC systems for energy efficiency. Through these measures, the company aims to reduce the environmental footprint while ensuring operational excellence. Zimmer Group is glad to take this big step.



ZIMMER
GROUP

INTERNATIONAL EXPANSION

Highly innovative products, a steady portfolio expansion and the procurement of new capacities, global infrastructures and job opportunities are at the core of an international expansion strategy of Zimmer Group.

NEW BUILDING IN CHINA

JINTAN, CHANGZHOU

ZIMMER GROUP PLANS FURTHER EXPANSION

The decision to establish our new Chinese facility in the Jintan region was based not only on the favorable economic conditions, but also on the opportunities to network with other German companies from our home region that have also chosen to establish facilities in Jintan. In addition, the Jintan region has a close cooperation with the Offenburg University of Applied Sciences and the local Association of Economics "Wirtschaftsregion Ortenau (WRO)". Furthermore, the Jintan region has a broad university landscape in mechanical engineering, as well as a German-speaking school,

which would support Zimmer Group's sustainable personnel growth in China. A building of our own has now become urgently necessary, because with increasing turnover, fast on-site service is also becoming more and more a customer requirement.

**China has become our
number one growth
market in recent years.**

Achim Gauß, Managing Director

NEW FACTORY IN CHANGZHOU

This project and the establishment of Zimmer Group China Ltd. marks an important milestone in the company's growth and development. The factory of Zimmer Group China Ltd. covers an area of 26,640 square meters, and the building area of Phase I plant is 9,911 square meters. Jintan, known as "the Blessed Land on the south of Yangtze River ", is the youngest, most dynamic and the most promising urban area in Changzhou. In recent years, Jintan has always adhered to

the concept of "powerhouse of industry and project", steadily developing the real economy, and constantly strengthening and expanding the "five new industries" represented by "new energy, new infrastructure, new energy vehicles, new medicine and new intelligence". Zimmer Group is very happy to take this big step in the Sino-German (Changzhou) Innovation Industry Park (SGIP).



INFORMATION

Zimmer Group is committed to ensuring that customer inquiries, concerns, or requests are addressed in a timely manner to enhance customer satisfaction and minimize any disruptions to their operations.

SERVICE RESPONSE TIME

LOCAL FOR LOCAL

EXCEPTIONAL IN EVERY ASPECT

Zimmer Group emphasizes a commitment to delivering exceptional service response times to its customers. This entails prioritizing prompt and efficient assistance whenever customers reach out with inquiries, concerns, or requests for support. Zimmer Group's objective is to ensure that customers receive timely resolutions to their needs, thereby

minimizing downtime and maximizing satisfaction. Through effective communication channels, streamlined processes, and dedicated support teams, Zimmer Group endeavors to exceed customer expectations in providing excellent service response times.





INFORMATION

Growth is reflected in the facts of Zimmer Group. As the product portfolio continues to grow, so does the experience in various technology fields.

NEW BUILDING AT HEADQUARTERS

GLOCKENLOCH, RHEINAU

ZIMMER GROUP PLANS FURTHER EXPANSION

Established over 40 years ago in Rheinau, Germany, Zimmer Group is one of the world's leading manufacturers of automation and damping components for machines and furniture. Zimmer Group, which employs more than 1,300 people at 17 locations worldwide, has been able to maintain its expansion course, which has been ongoing for years.

"The strong increase in demand worldwide in almost all product areas, makes a comprehensive and global expansion strategy for the coming years necessary in order to continue to develop the enormous potential in Europe, Asia and Americas as quickly as possible," states Achim Gauss, Managing Director, Technology and Sales.

"In Germany, at our production site, we have now expanded our capacity by an additional 5,000 square meters. This enables us to meet the steadily increasing demand, especially from Asia, but also America and parts of Europe. In addition, Zimmer Group currently has around 40 new job advertisements, for the Rheinau site alone," explains Günther Zimmer, Owner and Managing Director.



With the completion of the new building in Rheinau in 2024, Zimmer Systems now has additional space for a wide range of new projects.

"The new building in Rheinau will enable us to meet the steadily increasing demands worldwide."

Günther Zimmer, Owner and Managing Director



INFORMATION

With the completion of the new building in Rheinau in 2024, Zimmer Systems now has additional space for a wide range of new projects.

ZIMMER SYSTEMS

TAILORED FOR SPECIFIC APPLICATIONS

INDIVIDUAL SOLUTIONS FOR ALL BRANCHES

Zimmer Systems was founded in early 2024 as an independent company from the Systems Technology division of Zimmer GmbH. Zimmer Systems' customized solutions are tailored to specific applications, materials and environments.

With a clear focus on innovation and customer satisfaction, Zimmer Systems provides world-class automation solutions that meet the ever-increasing demands of the industry.



SYSTEM COMPONENTS

We customize your handling, damping, machine, clamping and braking components to your specific application.



MODULES & CELLS

We develop cross-market, independent cells and installation-ready modules that will integrate perfectly into your production system.



END-OF-ARM TOOLS & GRIPPING SYSTEMS

The heart of robotic automation. Our EOATs help solve a wide range of tasks in a variety of industries.



MACHINERY & SYSTEMS

Turnkey systems, decoupling and assembly cells for the furniture industry and highly flexible systems for batch size 1, as well as robot-assisted processing solutions include programming with ready-2-connect communication modules.



MOBILE ROBOTICS & TRANSPORT SYSTEMS

Maximum flexibility, efficiency, and safety with our AMRs. These are flexible transport systems and mobile robot cells for small and medium batch sizes.



ENGINEERING

Our goal is to get your custom system up and running faster, easier, more efficiently, and more reliably.

ZIMMER SYSTEMS

SOLUTIONS FOR A VARIETY OF INDUSTRIES

EXPERIENCED PARTNER IN AUTOMATION

With more than 40 years of experience in system solutions, we have established ourselves as a relevant and reliable automation partner for our customers. 140 employees continuously develop and integrate sustainable application solutions and automation concepts for all industries using state-of-the-art machinery. For optimized production rates and the highest quality standards.



EOAT FOR TIRES, RIMS AND WHEELS

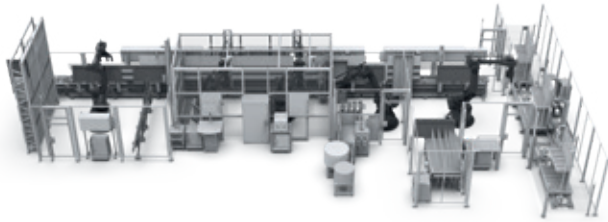
Zimmer Systems has outstanding expertise in the development, manufacturing and integration of EOAT for tire, wheel and rim handling. With our experience and more than 5,000 hours of development work, we have been a reliable partner for end customers and equipment manufacturers in the tire industry since 2008. Our standardized gripper systems set new industry standards.

BATTERY HANDLING - E-MOBILITY SOLUTIONS

We are a leader in the development of battery handling solutions for electromobility. With over 100,000 development hours since 2014, we are a proven development partner for premium car manufacturers, OEMs and plant manufacturers. Our customized solutions ensure efficient and reliable automation in the battery manufacturing value chain.

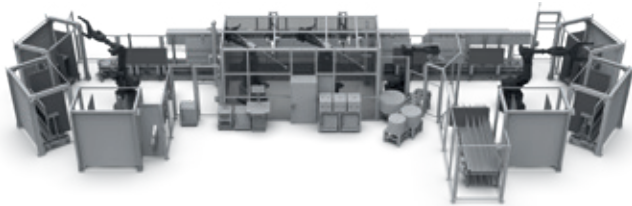
LOGISTICS & WOODWORKING SOLUTIONS

TAILORED FOR SPECIFIC APPLICATIONS



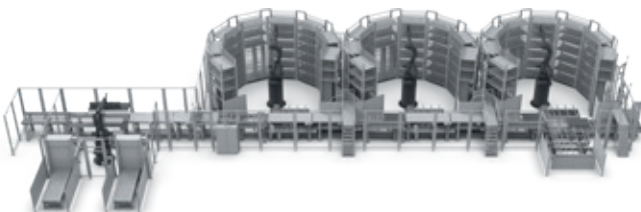
FURNITURE FRONT PROCESSING | BATCH SIZE 1 ROBOT-BASED DRILLING SOLUTIONS

Highly flexible shuttle circulation meets precision-compensated industrial robots with a drilling head for 17 vertical spindles and a buffer unit. Automatic loading and unloading is integrated into the customer's production control system.



FURNITURE FRONT PROCESSING | BATCH SIZE 1 ROBOT-BASED DRILLING SOLUTIONS

Furniture front machining system with highly flexible shuttle circulation, precision-compensated industrial robots, a drilling head with 17 vertical spindles, a milling spindle, and buffer setting unit. Automatic loading and unloading of furniture fronts into rack trolleys with secure shuttle storage ensures an uninterrupted production process.



LOGISTICS SOLUTION SORTING AND DECOUPLING CELLS

This logistics system enables automatic storage of manually stacked parts, as well as identification and plausibility checking of parts on the central conveyor line. The parts are efficiently distributed to three identical storage cells for load balancing before being transported to the next process step.



INFORMATION

Zimmer Group takes you from concept to implementation, always ensuring that the highest industry standards are met.

TIRE, WHEEL, RIM HANDLING GRIPPER SYSTEMS

HANDLING SYSTEMS FROM THE EXPERTS

Tire manufacturing is a complex process that involves many steps from the green tire to the finished tire and rim. With increasing automation, we offer a wide range of handling solutions for different processes and production steps. Today, our portfolio includes approximately 200 grippers and 15 standard gripper systems for the tire, wheel and rim industry.



Tires	► Technical data		
	Motorcycle	PCR	TBR
Outer diameter max. [mm]	720	900	1250
Outer diameter min. [mm]	385	450	780
Inner diameter max. [mm]	520 (20 inch)	685 (27 inch)	710 (28 inch)
Inner diameter min. [mm]	204 (8 inch)	304 (12 inch)	450 (18 inch)
Height max. [mm]	215	400	460
Height min. [mm]	60	135	200
Weight max. [kg]	18	45	100
Weight min. [kg]	1,4	4	-
Large parts variance	8 - 20 inch	12 - 27 inch	18 - 28 inch



Find more solutions in
our system showroom



INFORMATION

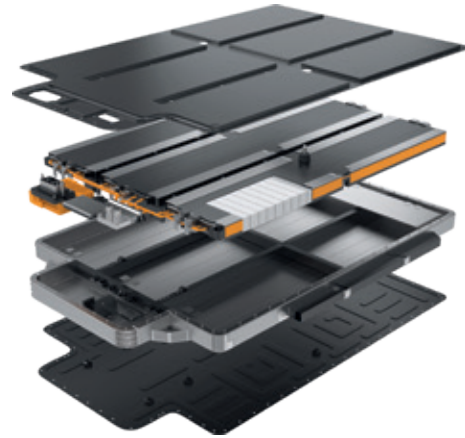
The modular approach enables optimum adaptation of the gripper to the respective process, including options such as piston position monitoring and battery presence detection as well as axis compensators to correct cell misalignments.

EOAT SOLUTIONS - BATTERY

MAGNET GRIPPER

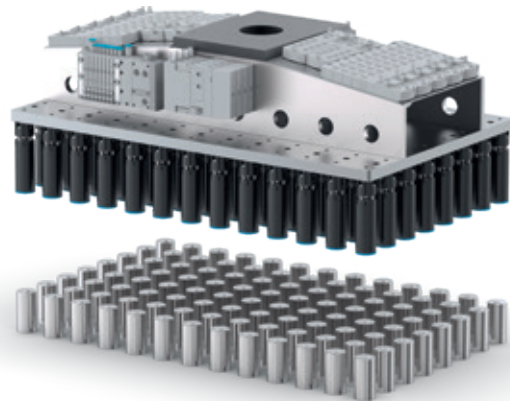
SOLUTIONS FOR BATTERY PRODUCTION

Zimmer Group is a development and system partner for many well-known premium manufacturers and system builders in battery production such as cylindrical, prismatic or pouch cells for electric vehicles. Together, we develop the right solution for you - from the cell to the packaging to the module.



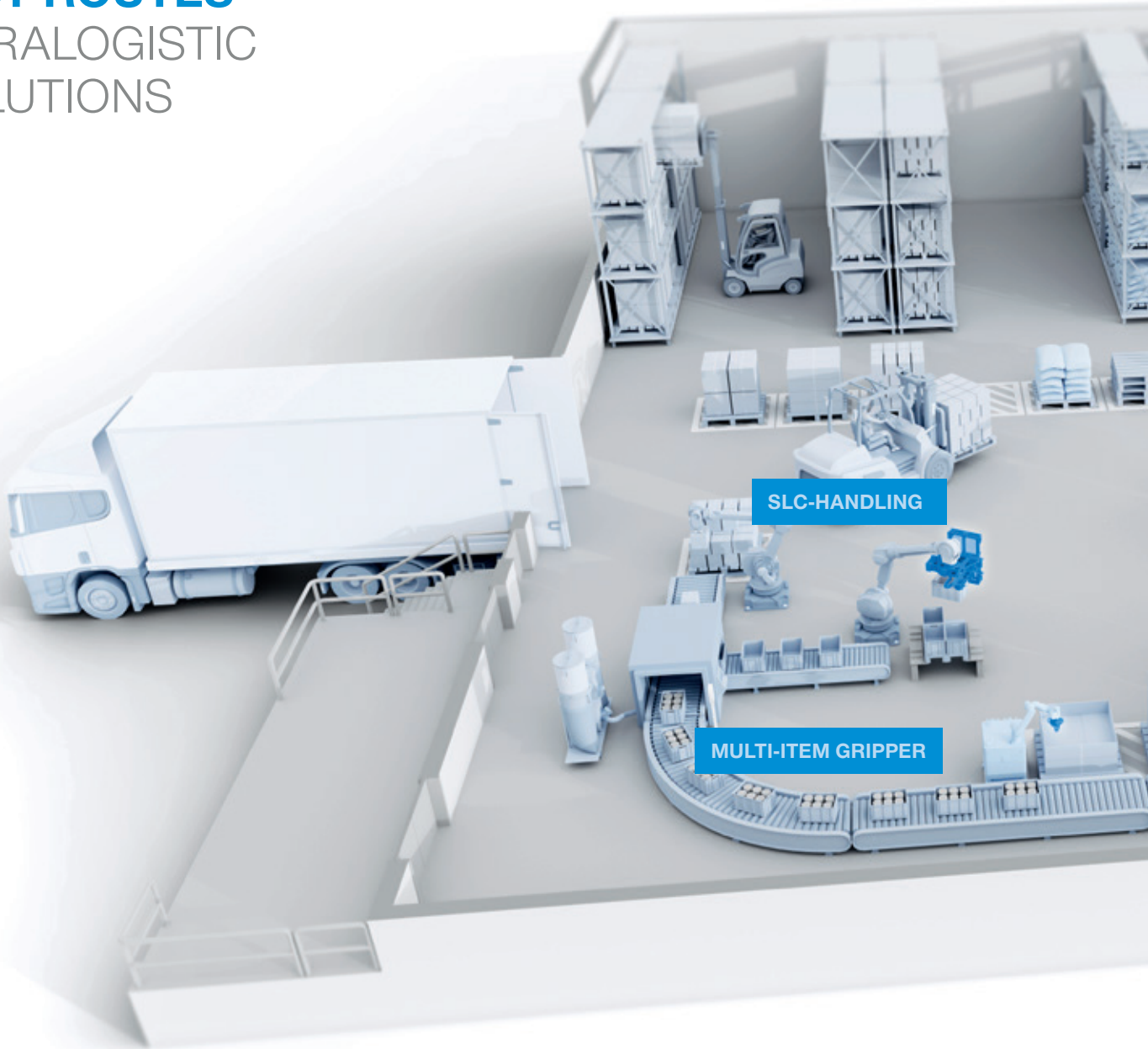
MAGNETIC GRIPPER FOR ROUND CELLS

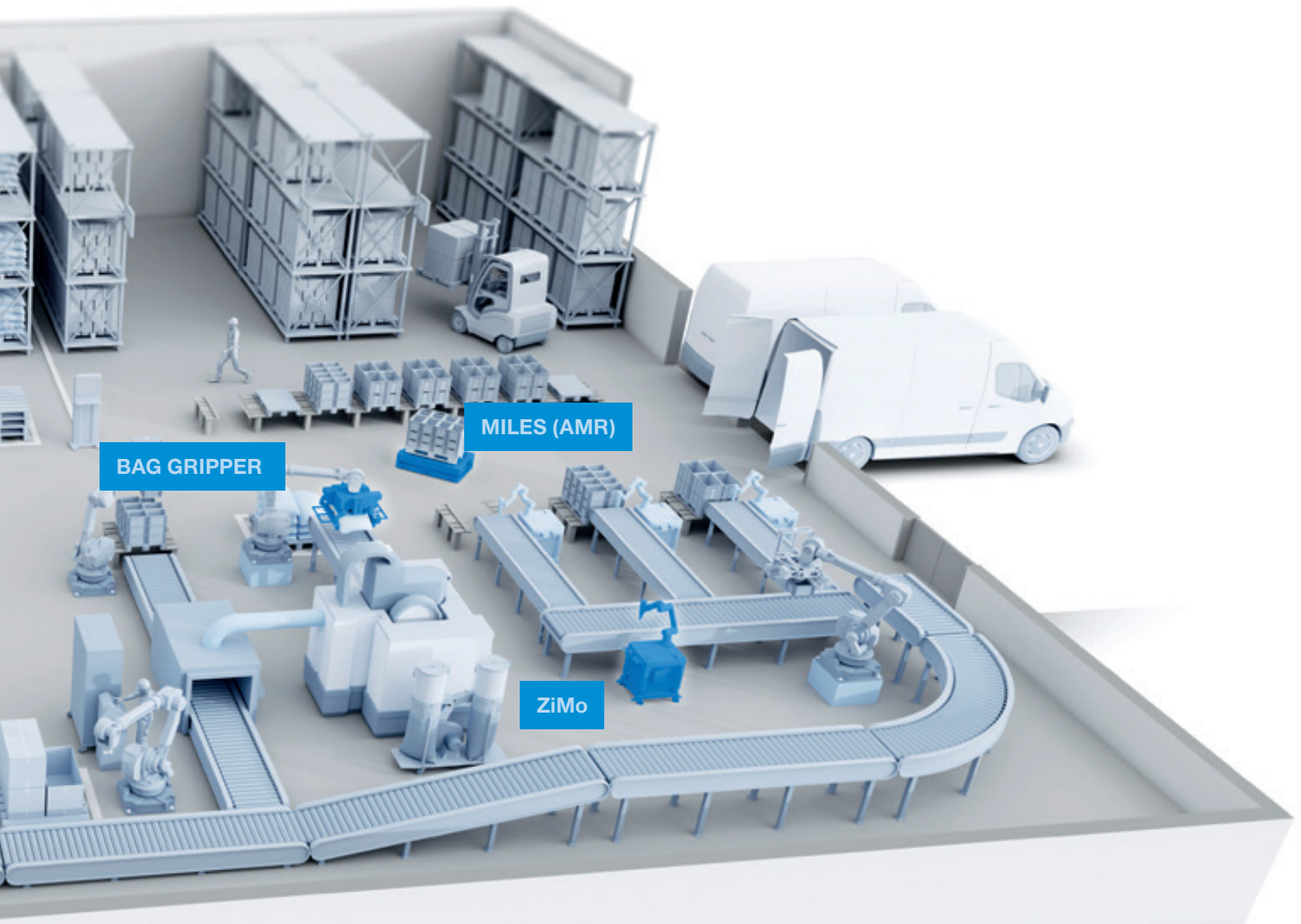
Gripping round cells requires precise merging of the individual cells. The Zimmer Group has developed a compact and powerful end-of-arm tool from the standard magnetic gripper, which holds the cells securely with a holding force of 65 N, even at high accelerations and emergency stops. With a low residual holding force of less than 1 N when the magnets are deactivated, the HPM2046 gripper ensures reliable placement.



FAST ROUTES

INTRALOGISTIC SOLUTIONS





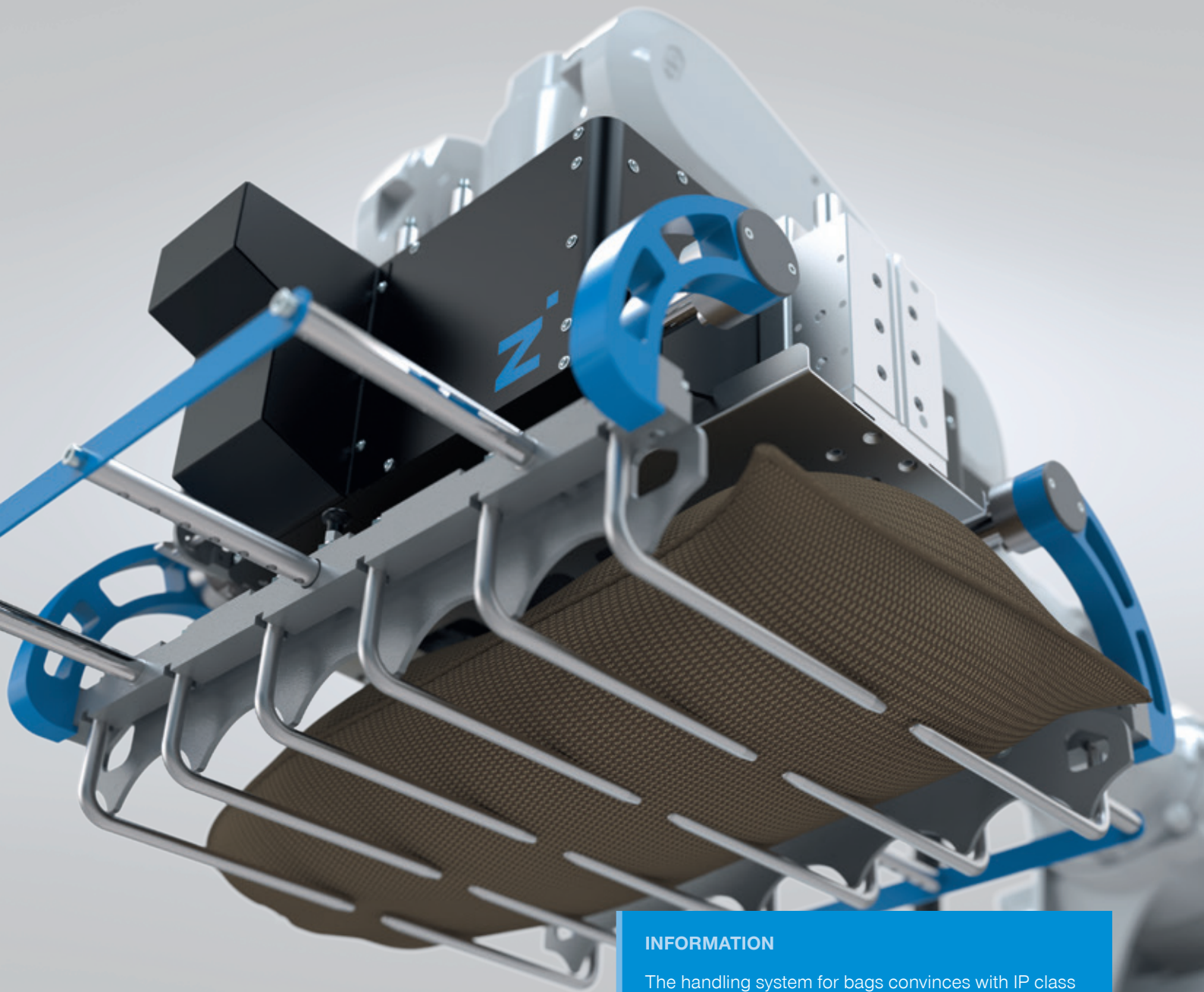
BAG GRIPPER

MILES (AMR)

ZiMo

INFORMATION

In an ever-changing world, companies are faced with the challenge of optimizing their intralogistics processes. Our customized automation solutions ensure smooth integration into your existing processes and give you a real competitive advantage.



INFORMATION

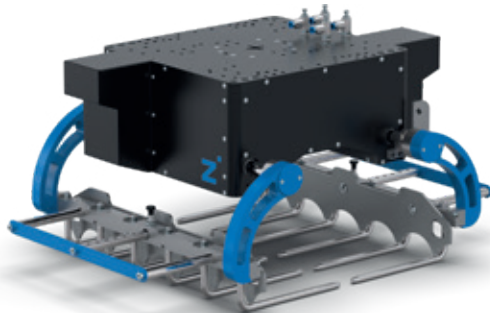
The handling system for bags convinces with IP class 54, two pneumatically controlled jaws with rack and pinion for torque synchronization and high rigidity.

BAG GRIPPER

INDUSTRY STANDARD

HANDLING SYSTEM FOR BAGS

The Zimmer Group bag gripper is a unique end-of-arm system for handling bags that can be filled with a wide variety of goods, such as flour, vegetables, fruits, grains, fertilizers, chemicals, cement or numerous other products. Different bag materials can be used, including paper, plastic, jute, and (woven) fabric.



PRODUCT ADVANTAGES

- ▶ Synchronous pneumatic jaw movement and force retention keeps the bag centered and gives long life.
- ▶ Large drive cylinders for fast cycle times capable of up to 20 cycles per minute, depending on robot and distance travelling.
- ▶ Optional functions for flattening, intermediate layer handling and pallet handling.
- ▶ Special forks for food grade or for hazardous, chemical materials.
- ▶ Palletizing, depalletizing software available for Yaskawa and ABB robots.

▶ Technical data

Part number	BAG137256	BAG137855	Z01SYS165171
Product	Bag gripper	Bag gripper	Double bag gripper
Workpiece weight [kg]	25	50	25 + 25
Dimension max. [mm] [l x w x h]	600 x 170 x 75	700 x 500 x 175	600 x 170 x 75 + 600 x 430 x 150
Dimension min. [mm] [l x w x h]	600 x 170 x 75	700 x 300 x 100	600 x 170 x 75 + 600 x 170 x 75
System weight [kg]	45	55	115
Opening/closing time [s]	0.6	0.6	0.6



INFORMATION

Flexible automation solutions are needed to meet the different requirements in intralogistics. We support you with modular AMR set-up options and address the individual needs of your company.

MILES

AUTONOMOUS MOBILE ROBOT

INDIVIDUAL, DRIVERLESS TRANSPORT SYSTEMS FOR PRODUCTION AND LOGISTICS PROCESSES

In recent years, autonomous mobile robots (AMRs) like Miles have developed into a revolutionary force that has transformed industries and redefined efficiency in many different sectors. AMRs are intelligent, self-navigating machines that are designed to perform tasks without direct human intervention.

They combine state-of-the-art technologies and modern sensors to navigate complex environments, interact with objects and perform tasks with precision.



OUR EXPERTISE – YOUR ADVANTAGES

Accessibility

- ▶ The best view of the working area at all times
- ▶ Collaborative system – people and machines in a single system

Modular concept with free layout design

- ▶ No safety enclosure needed for the automation system
- ▶ Interface for setting up various modules possible
- ▶ Later integration into existing processes

Simple expansion of the automation

- ▶ Additional AMRs can be integrated into the system later

Complete system of hardware, software and service

- ▶ Complete integration into the overall production process and control architecture from a single source
- ▶ Comprehensive system overview with efficient master computer
- ▶ Smart navigation and fleet management: reprogramming of the AMR travel paths possible at any time



INFORMATION

ZiMo, consisting of a mobile table, a cobot and end effectors, is the mobile and flexibly parameterizable robot cell that can be used quickly and in a variety of ways thanks to its modular design.

FLEXIBLE AND MOBILE PROCESS AUTOMATION

ZiMo is a cost-effective and easy option for automating processes with small, medium-sized and alternating batch sizes. The Zimmer Group's flexible robot cell offers you fast commissioning and intuitive operation that will make the plunge into automation fast and free of complications.

Regardless of whether you want to implement installation work, pick-and-place tasks or training – ZiMo will support you. You can freely select from a variety of accessory parts and then receive a customized complete package that corresponds to your requirements. Interested? We would be happy to advise you!

FLEXIBLE CONFIGURATION

Compatible with major robot manufacturers – select from a comprehensive range of accessories: gripper and vacuum systems, sensor technology, MATCH robot module or other components. Should the needs in the production process change, ZiMo can be adapted quickly and without any great effort or expense – completely tailored to your specific requirements. The variable setup of the workbench and the compact size make ZiMo a reliable robot cell for nearly any application.

OUR KNOW-HOW – YOUR BENEFIT

- ▶ Flexibility at the point of use: Compact size enables free and mobile positioning in the production situation.
- ▶ Intuitive operation: Easy commissioning and convenient operation via the robot-neutral Human Machine Interface (HMI).
- ▶ Boost productivity and quality: Cost-effective acquisition and fast integration optimize your production processes.
- ▶ Variable configuration: Choose from a wide portfolio of accessories, tailored to your specific requirements.

ZiMo PHARMA VARIANT

With specially sealed robot technology, such as the aseptic tool changer and a large portfolio of cleanroom grippers, you remain flexible even under challenging working conditions. Optimum protection against contamination meets maximum precision when handling pharmaceutical substances.



INFORMATION

The intelligent universal item pick gripper is equipped with AI-based, coordinate-independent pick point and object recognition. Its user-friendly interface ensures easy commissioning and application.

MULTI-ITEM GRIPPER

VACUUM SUCTION CUP AND PARALLEL GRIPPER

UNIVERSAL GRIPPER WITH OBJECT RECOGNITION

The Multi-Item Gripper combines a mechanical gripper and vacuum suction cup in one end effector. AI-powered image recognition and intelligent software take your bin-picking tasks to the next level!

Vacuum gripper

The advantages of the gripper are particularly evident when bin-picking with different surfaces and unsorted parts. The vacuum cup is equipped with vacuum maintenance, which ensures energy-efficient operation. The reliable medium supply and stable cylinder guide enable precise application, even with different workpieces. Thanks to the suction cup changing system, you are ideally equipped for flexible tasks.

Parallel gripper

The vacuum cup is supplemented by a standard component that enables reliable and safe gripping. Installation and commissioning are simple thanks to URCap, as is subsequent control. With its extensive experience in handling technology, Zimmer Group offers the flexibility to adapt the gripper jaws to individual requirements.





INFORMATION

In addition to the grippers in the GEP2000 series with cleanroom class 2, the GPP5000AL with cleanroom class 4 also meets the high requirements in hygienically demanding areas.

CLEAN ROOM CERTIFICATIONS

PRODUCTS WITH CLASSIFICATION

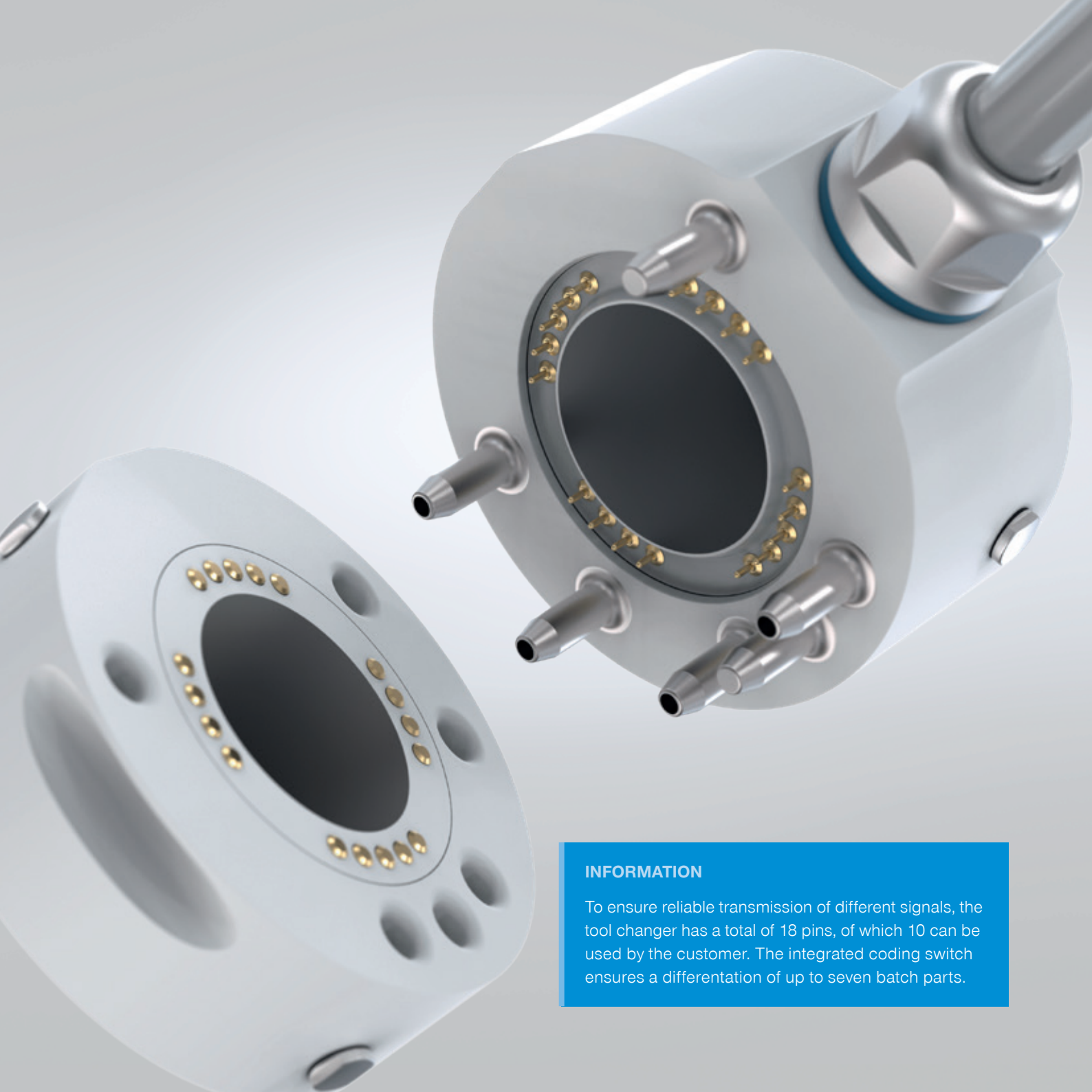
TÜV-CERTIFIED AUTOMATION TECHNOLOGY

Depending on the quantity and emission of particles, cleanrooms are divided into specific cleanroom classes. They meet strict, standardized requirements and are classified according to air purity. The maximum permissible particle concentration and particle size are of particular importance. Cleanrooms are divided into ISO classes 1 to 9, with class 1 being the cleanest with the lowest particle concentration. More than 500 Zimmer Group grippers

and clamping elements have been successfully certified in accordance with DIN EN ISO 14644-1 for cleanroom classes 2 to 6 due to their low particle emissions following successful certification procedures.



Series	► Technical data		
	Installation sizes	Variants	Clean room class
GEP2000	All	All	2
GEH6000	All	All	4
GED6000	All	All	4
MGP800	All	All	6
MGD800	All	All	6
MK	All	All	6
MKS	All	All	6
GPP5000	5003/5004/5006/5008/5010/5013/5016	-00	6
		-21	5
		-AL	4
GPD5000	5003/5004/5006/5008/5010/5013	-00	6
		-21	6
		-AL	4



INFORMATION

To ensure reliable transmission of different signals, the tool changer has a total of 18 pins, of which 10 can be used by the customer. The integrated coding switch ensures a differentiation of up to seven batch parts.

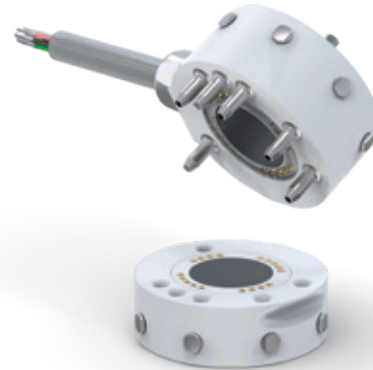
PHARMA TOOL CHANGER

ASEPTIC STANDARD PRODUCT

FULFILLS THE HIGHEST HYGIENE REQUIREMENTS

The Zimmer Group's new tool changer impresses with its hygienic, FDA-compliant design and meets the requirements of protection class IP67. The housing is made of easy-to-clean PET and is resistant to hydrogen peroxide, making it ideal for use in hygienically sensitive areas. Up to four fluid transmitters are supported.

The innovative use of materials makes it extremely light and compact. The magnetic tool changer enables quick and easy replacement of loose parts. A permanent electromagnet ensures that the tool and workpiece remain securely connected even when de-energized - an important plus in terms of safety.



Pharma Tool Changer	► Technical data
	WMR2063F-00-A, WMR2063L-00-A, AWMR2063-00-A
Tightening force [N]	250
Handling weight [kg]	up to 10
Protection to IEC 60529	IP67
Repetition accuracy +/- [mm]	0,02
Nominal current [A]	3
Nominal voltage [V]	24
Operating temperature [°C]	5... +80



INFORMATION

Two sizes: 40 and 60.

Two types of control: IO-Link or CANopen.

Clamping: optional (NC design).

COMPACT AXLES OF THE SERIES AC

LINEAR DRIVES FOR YOUR HANDLING PROCESSES

MAXIMUM PERFORMANCE IN MINIMUM SPACE

The compact design of the AC series enables high production flexibility and efficiency in a wide range of applications. It combines precise linear motion with powerful, integrated drives - in the smallest of spaces. As a result, they can be easily integrated into existing systems and combined with each other without any problems. Thanks to high speed and fast acceleration, you do not have to compromise on performance even in confined spaces.

OUR KNOW-HOW – YOUR BENEFIT

- ▶ Optionally with safe torque-off function
- ▶ Flexible control with IO-Link or CANopen
- ▶ Fast and powerful thanks to ball screw drive with BLDC motor
- ▶ High load capacity and durability thanks to linear guide with double carriage



Series	▶ Technical data	
	ACS40	ACS60
Stroke, adjustable [mm]	100	150
Feed force max. Fx [N]	135	300
Speed max. [m/s]	0,55	0,9
Acceleration max. [m/s ²]	15	15
Repetition accuracy +/- [mm]	0,01	0,01





INFORMATION

The electropneumatic power unit provides pneumatic drive power in the most inaccessible locations and can control several products independently of each other.

SERIES AEPN

ELECTRO-PNEUMATIC UNIT

MOBILE AND INDEPENDENT

Clamping and braking elements provide enormous forces with low volume consumption and clamp as an NC variant in the event of a pressure drop, just like our grippers or zero-point clamping systems. In the event of a power failure, the system is vented at lightning speed thanks to our tried-and-tested integrated quick exhaust valve.

ELECTROPNEUMATIC POWER PACK

The electro-pneumatic power unit can be combined with a wide range of Zimmer Group products, enabling the use of pneumatic products in applications where compressed air has not been available up to now. This opens up new possibilities in terms of design and safety and can offer a considerable advantage in terms of cost.



INTEGRATED SENSING AND EXTENDABLE

The unit is specially optimized to our components with low air consumption and enables optimized and energy-saving use thanks to a dynamic pressure setting. A pneumatic pressure of between 4 and 6 bar can be selected, which is then reliably regulated and maintained thanks to integrated sensing. If you upgrade to pressure storage, this can help to reduce the process time even further.

LIGHT & COMPACT

At the same time, this light and compact unit can be positioned close to consumers, thus enabling very fast opening and closing times. Thanks to the simple control and 24V technology, our product is predestined for mobile units with a battery supply, such as driverless transport systems. In addition, various process sequences can also be implemented thanks to the controllable valves.

DESIGN INCLUDED

When integrating the electro-pneumatic unit with our components, we would be happy to calculate the switching times. In addition, we can also calculate the braking distance for braking elements while taking your application data into account.



INFORMATION

The sensor offers analog data output or via IO-Link and impresses with its long service life thanks to its non-contact mode of operation.

ALL-IN-ONE POSITION SENSOR

MFS02-S-KHC-IL

PRECISE AND VERSATILE

Discover our MFS02-S-KHC-IL position sensor - with both IO-Link and analog output, it complements our magnetic field sensor portfolio with continuous position detection. The sensor impresses with a detection range of up to 50 mm. Thanks to its space-saving mounting in the C-slot, it can be perfectly integrated into any application.

The outstanding resolution of 0.01 mm also enables the detection of faulty (NOK) parts and thus actively contributes to increasing quality. Thanks to the dynamic teach-in function, which detects when the piston is stationary, 3 positions can be taught in automatically.





INFORMATION

In the spindle kits, you will find economical standard motor spindles, air-cooled spindles in the lower and middle power range, as well as fluid-cooled high-performance spindles, and of course, the corresponding accessories.

ADDITIONAL SPINDLES

WINNER IN ALL (PERFORMANCE) CLASSES

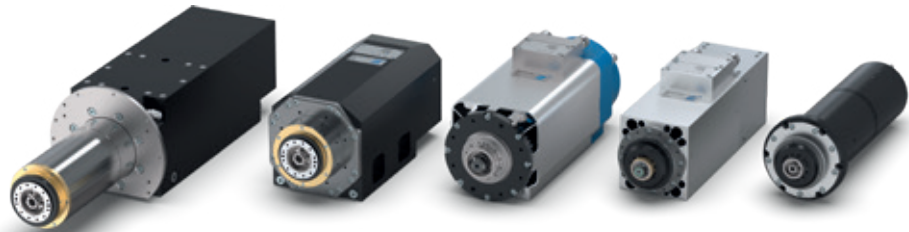
EXPANSION OF THE PRODUCT PORTFOLIO

The motor spindle is one of the essential components of a tooling machine, milling center or robot-based end-of-arm solution. The mechanically integrated motor solutions are extremely compact, highly productive and achieve maximum stiffness, which is required for the highest speeds and precise rotation. Zimmer Group offers you the perfect product range for this.

Whether air or water-cooled, trimmed for low or high weight, the product portfolio of motor spindles has been completed by rounding off the modular system in the lower to medium performance class. Whether you are looking for a motor spindle for use in milling machines or machining centers, you will find economical standard motor spindles, air-cooled spindles in the low and medium performance ranges, fluid-cooled high-performance spindles and, of course, the matching accessories from inverters to cooling units, C-axes and connection sets in our various spindle kits.

PRODUCT ADVANTAGES

- ▶ Air and water-cooled high-frequency spindles in various power ranges
- ▶ Support for topics such as power dimensioning, energy supply, cooling and integration into the control system or service
- ▶ Repair and on-site service by expert personnel
- ▶ Spindle IO-Link communication module enables condition monitoring and predictive maintenance
- ▶ Extremely high reliability, high power density and broad compatibility





The image shows a close-up, low-angle view of a highly polished, silver-colored metal component. The component features several concentric circular grooves and a central circular hole. The lighting creates strong highlights and shadows, emphasizing the smooth, reflective surface and the precision of the machining. In the lower right area, there is a blue rectangular box containing text.

INFORMATION

Integrated contact monitoring ensures a smooth machining process. It allows you to clamp the workpiece or scan the counter plate to determine if it is flat on the zero-point clamping system, ensuring the quality of your machining process.

SPN ZERO-POINT CLAMPING SYSTEM

ALL FUNCTIONS ALWAYS AT HAND

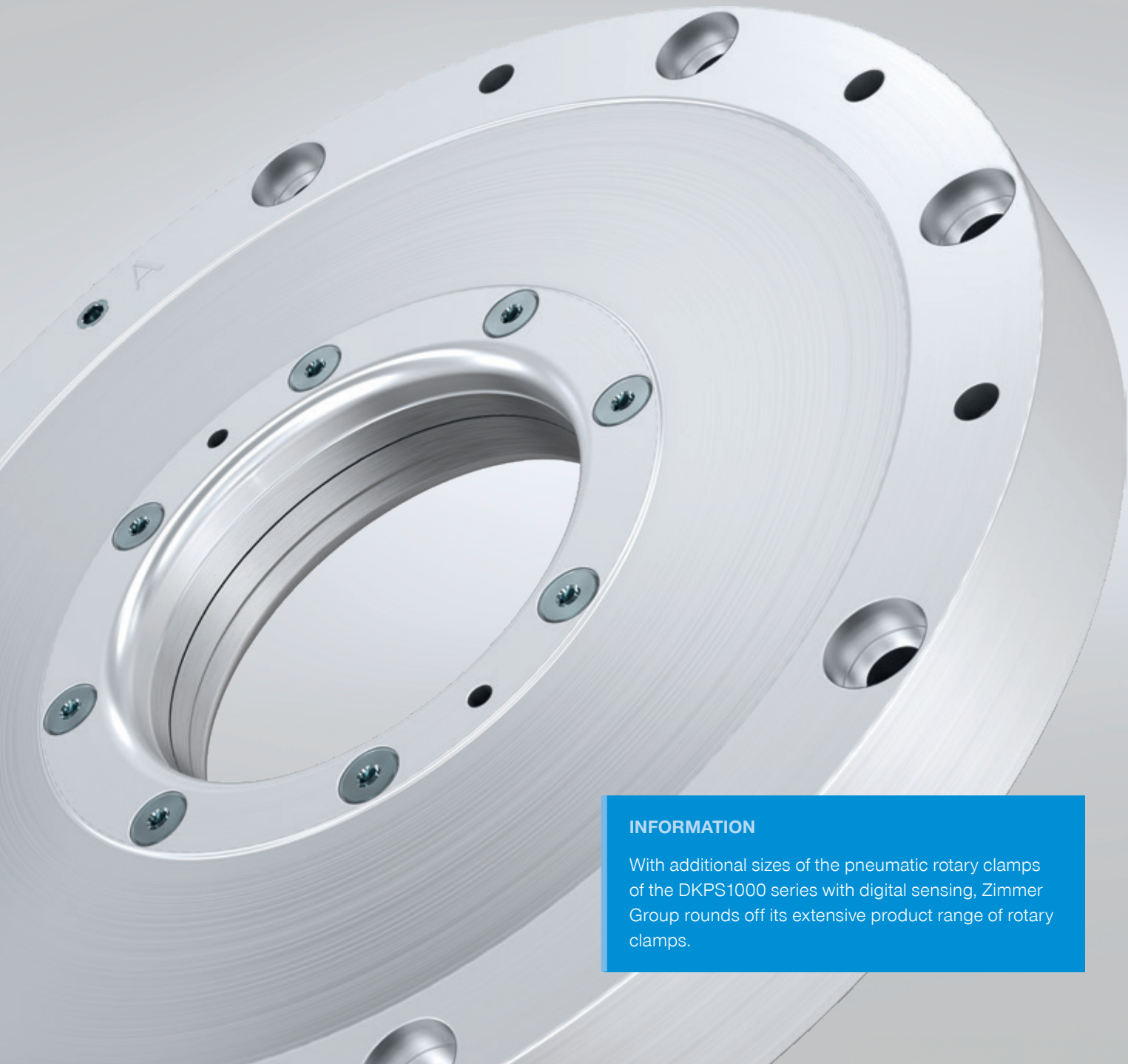
CLAMPING FOR ALL BRANCHES

Securely locked with Zimmer Group's modular zero-point clamping system. In addition to a standard version, which is reduced to the basic functions and fulfills the basic functions such as unlocking and PLUS connection, an advanced version is available with a comprehensive range of functions, as required in automated production. Both versions provide positive locking via clamping segments specially adapted to the screw contour, creating an extremely rigid system capable of absorbing the highest forces with maximum repeatability. The advanced version also features a blow-out function, integrated positioning check and piston position monitoring,

which can be either pneumatic or electronic. With the SPN series, Zimmer Group consistently focuses on the mechanization of its products in order to offer its customers electrically intelligent components at the highest level.

The product range is completed by a variety of clamping plates, available in any size and in different configurations. To increase the protection of the individual zero-point clamping system and to prevent the ingress of dirt, an automatic locking device is available as an option.





INFORMATION

With additional sizes of the pneumatic rotary clamps of the DKPS1000 series with digital sensing, Zimmer Group rounds off its extensive product range of rotary clamps.

PNEUMATIC ROTATIONAL CLAMPING ELEMENT

DKPS1000 SERIES

PNEUMATIC OR HYDRAULIC – THE CHOICE IS UP TO YOU!

Increased performance requirements in tooling machines and an increased degree of safety necessitate powerful and innovative solutions. Following the successful market launch of our DKPS1000 series with pneumatic control and digital sensing, we round off the extensive product range with additional sizes, thus closing the gap between all available sizes.

SIMPLE STATUS SENSING

An efficient and fast process sequence is a requirement for all of our components, and the DKPS1000 is no exception to this. The DKPS1000 can make use of its full potential thanks to the optional digital sensing. Additional safeties for switching times are no longer required.

HIGH HOLDING FORCES – WITHOUT ADDITIONAL AIR AND WITHOUT COMPROMISING CYCLE STABILITY


The DKPS1000 series not only surpasses the non-pressurized holding force of rotary clamps available on the market, it also features an increased lifetime compared to the benchmark. Both of these characteristics equally ensure enhanced safety when it comes to safeguarding rotation and swivel axes. This also increases system availability.

PRODUCT ADVANTAGES

- ▶ Torque absorption from shafts
- ▶ Safety clamping of the torque motor
- ▶ C-axis clamping
- ▶ Clamping and securing of swivel bridges
- ▶ Clamping of the spindle swiveling axes
- ▶ Clamping of the swiveling axis for portals



ZIMMER
group

 **IO-Link**
wireless

- PWR
- APL
- SYS
- SF/MS/RUN
- BF/NS/ERR

- Pair

- IOLW
- 
- Edge

INFORMATION

The BCM Series modules are rated at 4 or 5 amps. This means there is no need to compromise on the choice of end effectors.

IO-LINK WIRELESS MODULES

FLAWLESS COMMUNICATION

INTERFERENCE-FREE. SCALABLE. SECURE.

In robotics in particular, the last robot axis often lacks a suitable internal electrical interface for intelligent gripper components. In rotary systems, which are becoming more common, this is missing completely. But why rely on external cabling along the robot arm or rotary system, and accept the drawbacks of restricted movement, cable breakage or sources of interference, when there is an uncomplicated solution?

The standardized, wireless communication module IO-Link Wireless from the Zimmer Group enables interference-free and secure communication of IO-Link signals without any wiring and guarantees wireless transmission of all required signals and information.



Reliable

Cable-grade reliability, deterministic, coexists with other networks, immune to industrial environments



Fast

Low latency of 5 msec with ultra-high synchronization rates



Scalable

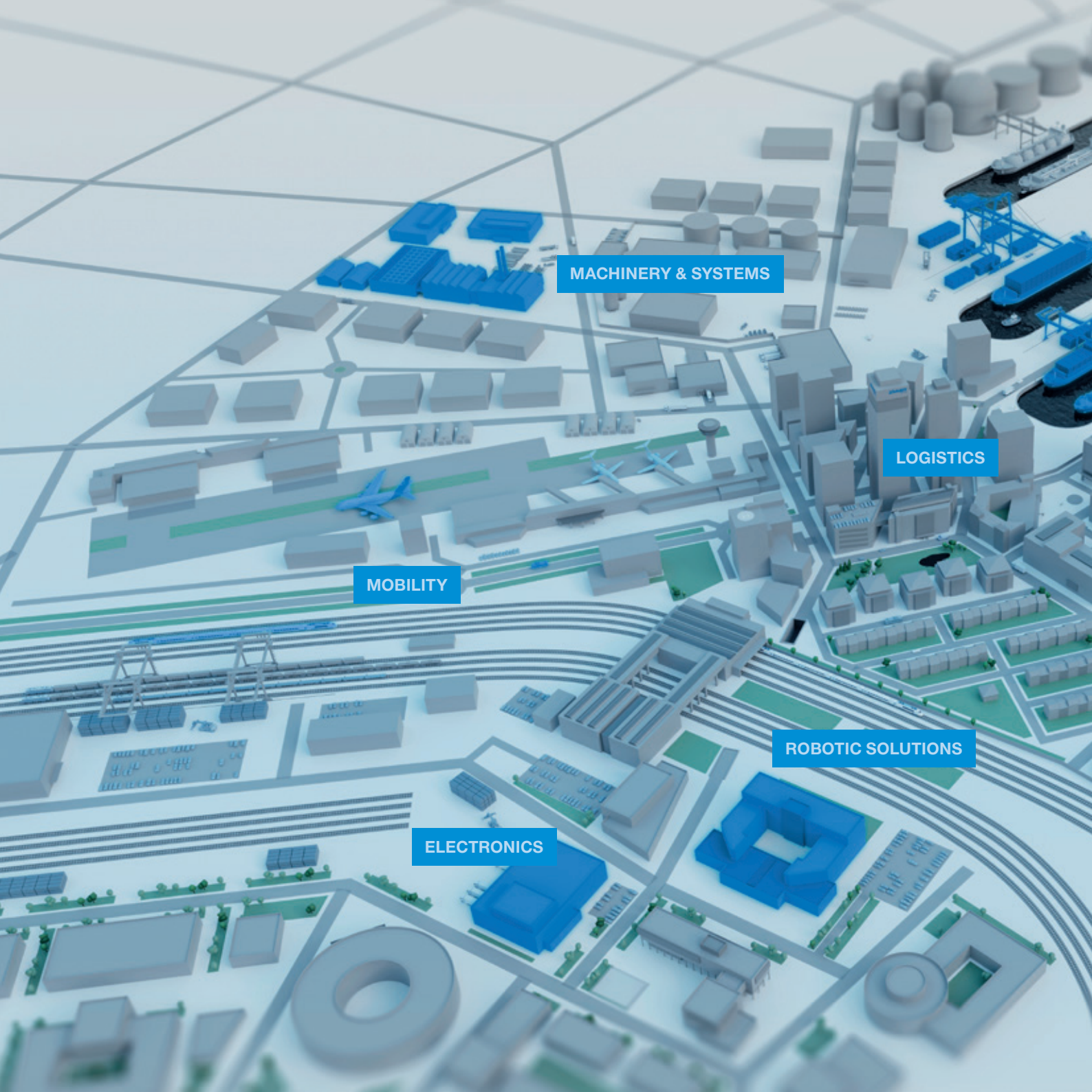
Supports a large number of devices while maintaining the required low latency and high reliability



Universal

Part of the IO-Link IEC standard designed for both wireless control and monitoring





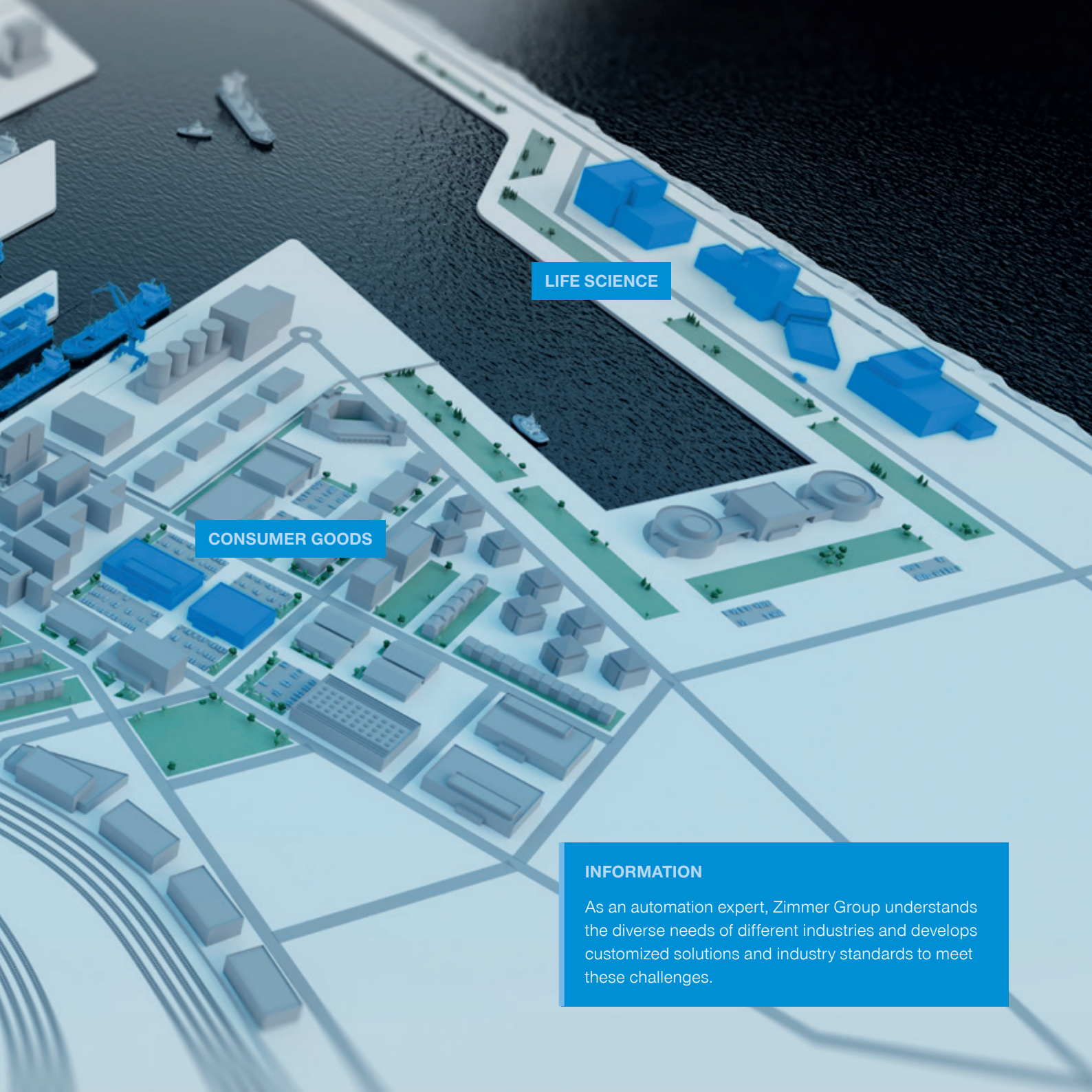
MACHINERY & SYSTEMS

LOGISTICS

MOBILITY

ROBOTIC SOLUTIONS

ELECTRONICS



LIFE SCIENCE

CONSUMER GOODS

INFORMATION

As an automation expert, Zimmer Group understands the diverse needs of different industries and develops customized solutions and industry standards to meet these challenges.

The contents and data correspond to the status as of printing. Edition 06/2024.

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