



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 TODAY 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 COMPACT ELECTRIC **GEP2000 SERIES EXTENSION**



GEP2000 with IO-Link: Future-proof intelligence

In the IO-Link version, the gripper offers all the system-specific advantages of IO-Link. After connecting a single cable, which is used to supply power and transmit control and status data, the gripper can exchange data and signals with the higher-level control system. Parameters such as gripping force and gripping speed are defined centrally. Part detection is also possible in a range of +/- 0.05 mm for a tolerance range that can be taught to any value. IO-Link also opens up new horizons for expanded diagnostic functions and predictive maintenance.



Digital I/O: As simple as a pneumatic valve

In the I/O version, the grippers operate as simply as a conventional pneumatic valve. The gripper opens when it receives a control signal, and the jaws are closed when it receives another one. No movement occurs without a signal. If a sensing of the gripper position is needed, this can be done using magnetic field sensors, for which two grooves are already provided in the gripper. We have developed a comfortable solution for how to adjust the maximum gripping force: It can be adjusted directly on the gripper using a rotary switch in four stages. Quick and easy.



Digital I/O with analog output: Accurately record the jaw position

For applications where you need more precise information about the position of the gripper jaws, Zimmer Group offers a digital I/O version with analog sensing. An analog sensor, which outputs a voltage of between 0 and 10 volts depending on the jaw position, is already integrated into the grippers. This voltage can be evaluated using an analog card in the higher-level control system, making it possible to detect workpieces with high precision.

YOUR BENEFITS IN DETAIL

INSTALLATION SIZE GEP2006

	Technical data		
Order No.	GEP2006IL-00-A	GEP2006IO-00-A	GEP2006IO-05-A
Control	⊘ IO -Link	I/O	I/O
Integrated position sensing	Using process data	no	analog 0 10 V
Stroke per gripper jaw [mm]	6	6	6
Weight [kg]	0.18	0.18	0.18
Min./max. gripping force [N]	40/145	40/145	40/145

INSTALLATION SIZE GEP2010

	Technical data		
Order No.	GEP2010IL-00-A	GEP2010IO-00-A	GEP2010IO-05-A
Control	⊘ IO -Link	I/O	I/O
Integrated position sensing	Using process data	no	analog 0 10 V
Stroke per gripper jaw [mm]	10	10	10
Weight [kg]	0.31	0.31	0.31
Min./max. gripping force [N]	50/200	50/200	50/200

INSTALLATION SIZE GEP2013

	Technical data		
Order No.	GEP2013IL-00-A	GEP2013IO-00-A	GEP2013IO-05-A
Control	⊘ IO -Link	I/O	I/O
Integrated position sensing	Using process data	no	analog 0 10 V
Stroke per gripper jaw [mm]	13	13	13
Weight [kg]	0.54	0.54	0.54
Min./max. gripping force [N]	90/360	90/360	90/360

INSTALLATION SIZE GEP2016

	Technical data		
Order No.	GEP2016IL-00-A	GEP2016IO-00-A	GEP2016IO-05-A
Control	⊘ IO -Link	I/O	I/O
Integrated position sensing	Using process data	no	analog 0 10 V
Stroke per gripper jaw [mm]	16	16	16
Weight [kg]	0.9	0.9	0.9
Min./max. gripping force [N]	125/500	125/500	125/500

THE COMPACT ELECTRIC GEP2000 SERIES EXTENSION

Electric assembly gripper in new installation sizes

The new, smaller and lighter sizes of the electric grippers from the GEP2000 series round out our current gripper portfolio. Due to their design, they are intended primarily for assembly tasks and handling small parts. To perform these tasks, the series now includes four sizes to offer adjustable gripping forces between 40 N and 500 N and jaw strokes between 6 mm and 16 mm. The grippers, which have a mechanical self-locking mechanism

to prevent the loss of the workpiece in the event of power failure, are equipped with an integrated control system and are available in three versions: with IO-Link, with digital I/O and with digital I/O in conjunction with an analog output for sensing the jaw positions. In addition, the single-cable solution reduces installation work to

Mechanics with unbeatable robustness

In addition, the GEP2000 series features cutting edge mechanics. The grippers are extremely robust and reliable because their housing is made of hard anodized aluminum, and the developers have designed the grippers with a flat guide, which has been tried and tested for decades. This means that the grippers can handle all tasks involving the assembly and handling of small parts, and they can handle 10 million cycles without maintenance. The grippers are sealed in accordance with IP40, and their high replacement accuracy allows for rapid replacement at any time without any significant production interruption. They can be mounted on three sides, which offers

the advantage that the user can easily face the desired cable outlet, thus minimizing interference contours. In addition, some models have a robot-specific direct connection at the flange.

The grippers from the GEP2000 series are powered by 24 VDC, and the gripper jaws are able to operate with a current draw of less than 500 mA. The current draw only increases to 2 A for a few milliseconds at the moment of start-up, when the mechanical self-locking mechanism is released and the motor must be brought to speed. This is a current that all conventional IO-Link masters can supply.



PRODUCT RANGE 5000 GPP5000AL SERIES



GPP5000AL grippers extend the product range

Zimmer Group has extended the GPP5000AL series by introducing new sizes. The product range with 2-jaw parallel grippers and 3-jaw concentric grippers now has considerably more power and stroke. The special feature of the new models is the steel-aluminum profile rail guide (aluminum linear guide) offered by Zimmer Group. Thanks to their steel-aluminum profile rail guide, they technically outperform all T-slot grippers and are at least the equals of the multi-tooth guides in the market. With its uncompromising quality "Made in Germany," Zimmer Group guarantees up to 15 million cycles without maintenance.

GPP5000AL SERIES

	Technical data		
Order No.	GPP5013N-AL-A	GPP5013NC-AL-A	GPP5013NO-AL-A
Stroke per gripper jaw [mm]	13	13	13
Closing/opening grip force [N]	1410/1490	1920/-	-/ 1860
Protect. class per IEC 60529	IP40	IP40	IP40
Weight [kg]	1.5	1.9	1.9
Order No.	GPP5016N-AL-A	GPP5016NC-AL-A	GPP5016NO-AL-A
Stroke per gripper jaw [mm]	16	16	16
Closing/opening grip force [N]	2090/2220	2860/-	-/2990
Protect. class per IEC 60529	IP40	IP40	IP40
Weight [kg]	2.9	3.6	3.6

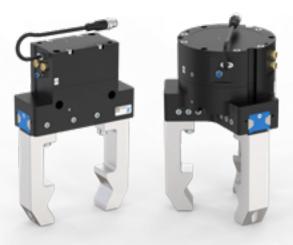
^{*} All values measured at 6 bar



PRODUCT RANGE 5000 GPP5000IL/GPD5000IL SERIES

IO-Link grippers in new installation sizes

The GPP/GPD5000IL premium gripper series (pneumatic-electric hybrid grippers) has been extended upwards. With new, even more powerful sizes (13, 16, 25), this variant is the link between the pneumatic and electric devices of the 5000 gripper series. It is the ideal solution for users who want to take the leap into the world of Industrie 4.0 gripping while still incorporating a highly reliable pneumatic drive unit into their processes. The IL variant is equipped with an integrated pneumatic valve which is controlled via IO-Link.



Since there is no longer a fixed hose connection between the valve and piston that needs to be filled or emptied for each cycle. the grippers' reaction time is greatly reduced. This means that they are substantially faster than other pneumatic grippers and, as such, more than live up to their standard as the premier grippers on the market today. Hybrid grippers help you save in three wavs.

First, they feature a simple connection concept with an air hose and connection cable. This eliminates the need to use the valve terminal that is typically required. Second, they are substantially more energy efficient than all other conventional grippers thanks to an integrated valve and a state-of-the-art integrated control system. The third aspect is significant savings thanks to cost-efficient predictive and preventative maintenance, therefore leading to enhanced cost efficiency and production availability.

YOUR BENEFITS IN DETAIL

GPP5000IL SERIES

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	Technical d	ata*				
Order No.	GPP5013N-IL-10-A	GPP5013NC-IL-10-A	GPP5013NO-IL-10-A	GPP5013S-IL-10-A	GPP5013SC-IL-10-A	GPP5013SO-IL-10-A
Stroke per gripper jaw [mm]	13	13	13	6	6	6
Closing/opening grip force [N]	1410 / 1490	1920/-	-/ 1860	3100 / 3280	4220/-	-/4400
Protect. class per IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	2.5	2.9	2.9	2.5	2.9	2.9
Order No.	GPP5016N-IL-10-A	GPP5016NC-IL-10-A	GPP5016NO-IL-10-A	GPP5016S-IL-10-A	GPP5016SC-IL-10-A	GPP5016SO-IL-10-A
Stroke per gripper jaw [mm]	16	16	16	8	8	8
Closing/opening grip force [N]	2090 / 2220	2860/-	-/2990	4610 / 4900	6310/-	-/6600
Protect. class per IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	4.4	5.1	5.1	4.4	5.1	5.1
Order No.	GPP5025N-IL-10-A	GPP5025NC-IL-10-A	GPP5025NO-IL-10-A	GPP5025S-IL-10-A	GPP5025SC-IL-10-A	GPP5025SO-IL-10-A
Stroke per gripper jaw [mm]	25	25	25	14	14	14
Closing/opening grip force [N]	3280 / 3490	4510/-	-/4710	6360 / 6760	8730/-	-/9130
Protect. class per IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	8.5	10.4	10.4	8.5	10.4	10.4

CDD5000II SEDIES

GPD5000IL SERIES						
	Technical da	ata*				
Order No.	GPD5013N-IL-10-A	GPD5013NC-IL-10-A	GPD5013NO-IL-10-A	GPD5013S-IL-10-A	GPD5013SC-IL-10-A	GPD5013SO-IL-10-A
Stroke per gripper jaw [mm]	13	13	13	6	6	6
Closing/opening grip force [N]	3770 / 3910	5060/-	-/5200	8310 / 8600	11160/-	-/ 11450
Protect. class per IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	4.5	5.3	5.3	4.5	5.3	5.3
Order No.	GPD5016N-IL-10-A	GPD5016NC-IL-10-A	GPD5016NO-IL-10-A	GPD5016S-IL-10-A	GPD5016SC-IL-10-A	GPD5016SO-IL-10-A
Stroke per gripper jaw [mm]	16	16	16	8	8	8
Closing/opening grip force [N]	6870 / 7120	9240/-	-/9490	14700 / 15250	19780/-	-/20330
Protect. class per IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	8.3	9.8	9.8	8.3	9.8	9.8
Order No.	GPD5025N-IL-10-A	GPD5025NC-IL-10-A	GPD5025NO-IL-10-A	GPD5025S-IL-10-A	GPD5025SC-IL-10-A	GPD5025SO-IL-10-A
Stroke per gripper jaw [mm]	25	25	25	14	14	14
Closing/opening grip force [N]	8430 / 8730	11560/-	-/ 11860	16240 / 16820	22270/-	-/22850
Protect. class per IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	14.9	18.5	18.5	14.9	18.5	18.5

^{*} All values measured at 6 bar

PRODUCT RANGE 5000 GPP5000IL/GPD5000IL SERIES

Leading qualities

The grippers from the 5000 series are equipped with an extremely durable, coated steel-in-steel profile groove guide, which is the reason for their practically unbeatable durability and high gripping forces. These steel-steel profile rail guides repeatedly show that they are extremely durable and 100

percent competitive. Essentially, there is no need to discuss the advantages of pure steel guides because throughout the industry and in mechanical engineering, steel-steel guides are the absolute, unbeatable standard. This has been demonstrated for hundreds of years.

IO-Link inside

Zimmer Group uses the user-friendly IO-Link communication system to connect the electric variants to the central machine control system. The device setting data can either be entered here directly or taught. It can be stored centrally and transmitted

to other grippers without any issues. When replacing a gripper, its setting data can be transmitted to the new gripper quickly and without errors to ensure maximum possible machine availability.



PRODUCT RANGE 6000 GED6000IL SERIES



New electric concentric grippers - the GED6000 series

The proven 6000 series has been extended to include the electric 3-jaw concentric grippers of the GED6000IL series - the ideal solution for handling rotationally symmetric parts. The grippers are equipped with a positionable servomotor and an integrated control: they do not require an external controller. Expensive special cables between the controller and the gripper are no longer necessary, and control is provided by future-proof IO-Link technology. In relation to the installation space they offer a very large stroke. And the positionable, brushless DC motor, which knows almost no wear, guarantees excellent reliability.

GED6000IL SERIES

	► Technical data*		
Order No.	GED6040IL-03-A	GED6040IL-31-A	GED6140IL-03-A
Control	⊘ IO -Link	② IO -Link	② IO -Link
Stroke per gripper jaw (adjustable)	40	40	40
Min. gripping force [N]	150	15	210
Max. gripping force [N]	800	165	1700
Max. length of gripper fingers [mm]	100	100	160
Operating temperature [°C]	+5 +50	+5 +50	+5 +50
Protect. class per IEC 60529	IP54	IP54	IP54
Weight [kg]	2.8	2.8	4.9



PRODUCT RANGE 6000 GEH6000IL SERIES



GEH6000 electric gripper series

The new -31 variant was developed specifically for handling fragile and delicate parts. In addition to the advantages of the previous -03 grippers, such as an integrated control, IO-Link technology and ability to position the gripper jaws, it provides the ability to reduce the gripping force to only a few newtons. The "gentleness" of the new variant is achieved by a changed gear ratio, which also reduces the cycle time by a factor of 2. With this feature, almost all types of workpieces can now be gripped with the grippers of this series. Whether you want to grip with power or just gently - Zimmer Group offers you the ideal gripper for each application.

INSTALLATION SIZE GEH6060IL

	► Technical data	
Order No.	GEH6060IL-31-B	
Control	⊘ IO -Link	
Stroke per gripper jaw (adjustable)	60	
Min. gripping force [N]	10	
Max. gripping force [N]	180	
Max. length of gripper fingers [mm]	100	
Operating temperature [°C]	+5 +50	
Protect. class per IEC 60529	IP54	
Weight [kg]	0.9	



HRC HUMAN-ROBOT COLLABORATION

Human, robot!

Human-robot collaboration opens up new possibilities for efficient, flexible and optimized production. Conflicting market requirements have to be taken into account such as increased depth of customization amid shortening product life cycles. Cooperation and collaboration between humans and robots can create far-reaching potential under these circumstances. Both resources are making optimal use of their unique possibilities, creating new jobs for the future as a result. Grippers from Zimmer Group are the link between the workpiece and the robot.

The largest portfolio

The world's largest portfolio of HRC grippers, available from Zimmer Group, is fully DGUV/BG certified and therefore complies with the requirements of the protection principles in accordance with ISO/TS 15066. Regardless of the robot manufacturer, the ideal gripping solution can always be found - from 2-jaw parallel grippers to servo-driven, long stroke grippers or angular grippers. The integrated LED display ensures that the gripper status can be detected easily and immediately. Optional connections to robot-specific human-machine interfaces round off the product range.





INDUSTRIAL SHOCK ABSORBER POWERSTOP SUPERIOR TECHNOLOGY IN PERFECTION

Spiral groove technology

The unique spiral groove technology is a defining feature of PowerStop industrial shock absorbers. In contrast with conventional industrial shock absorbers with throttle bores, the constantly tapering spiral groove causes precise, low-vibration damping

absorption. The PowerStop industrial shock absorber achieves maximum energy absorption with the smallest installation space through optimal utilization.

New Adjustable Energy series - the adjustable absorbers

The new Adjustable Energy series makes it possible to achieve infinitely adjustable – and thus ideal - energy absorption settings in the damping process. In addition to the normal stroke version, it is also available in a long-stroke version whose adjustability further increases the benefit of extremely smooth damping.



YOUR BENEFITS

IN DETAIL



MINI ENERGY - THE SLENDER

	Technical data
Series	Mini Energy
Thread	M4 - M5
Max. pressure (abs.)	10 bar
Stroke versions	Normal
Protection	Without protection, wiper



STANDARD ENERGY - THE ECONOMICAL

	Technical data
Series	Standard Energy
Thread	M8 - M36
Max. pressure (abs.)	1 bar
Stroke versions	Normal
Protection	Without protection, wiper, felt ring, bellows



HIGH ENERGY - THE HIGH-PERFORMER

	Technical data
Series	High Energy
Thread	M8 - M36
Max. pressure (abs.)	10 bar
Stroke versions	Normal/Long
Protection	Without protection, wiper, felt ring, bellows



ADJUSTABLE ENERGY - THE ADJUSTABLE

	► Technical data
Series	Adjustable Energy
Thread	M8 - M36
Max. pressure (abs.)	10 bar
Stroke versions	Normal/Long
Protection	Without protection, wiper, felt ring, bellows

INDUSTRIAL SHOCK ABSORBER POWERSTOP SUPERIOR TECHNOLOGY IN PERFECTION

A portfolio that fulfills all wishes

The new assembly set makes it possible to combine highly versatile application-specific variants from four series, each with a stroke version, speed range, protection, and head. Everything comes from standard elements, delivering the shortest time to availability and ideal pricing. The new Mini Energy, Standard Energy, High Energy and Adjustable Energy series offer a number of refinements, significant improvements and enhancements. They use an innovative, organic oil that can be applied in the food industry with H1 certification, and in combination with standard stainless steel designs - it is even biodegradable. The new PowerStop industrial shock absorbers thus also set new environmental standards. Also a new fixed stop with a longer piston rod guide length has been developed to increase the PowerStop's familiar robustness even more.

Ideal protection in any environment

Thanks to the broad range of the modular system, PowerStop offers the right protection for any condition. In a clean environment, such that of an assembly process, the damper does its job cost-effectively without any special protection. With the optional wiper made of NBR, it is resistant to any kind of liquid or oil. The best way to keep dust and shavings outside the damper, even

when working with wood, is with a felt ring. Last but not least, the bellows made of TPC provide the ultimate protection against adverse conditions such as grinding dust or use inside a liquid. At the same time, it does not allow any particles to escape from the damper so it can be used in cleanrooms and the food industry.



ELECTRIC CLAMPING ELEMENT LKE FAST, WITH A HIGH HOLDING FORCE

Independent of pneumatics and hydraulics

In contrast to a pneumatic solution, the new LKE series is impressive - most notably due to its integrated status sensing (open/closed), which is output via digital status signals. The kinematics are supplied by means of an eccentric shaft with a mechanical self-locking mechanism (bi-stable). Due to the selflocking operating principle, when closed, the full holding force is maintained up to 1,800 N in case of a power drop or while in a currentless state (e.g., when the system is switched off).

Short switching times

With a closing time of approx. 400 milliseconds, the previous model has been improved by a factor of seven. The opening and closing takes place at 24 V with a maximum current draw of 1.5 A. Due to the integrated electronics, the element can be controlled easily via digital signals. Electric powered linear axes are the primary areas of application for clamping elements.

Thus, by holding the axis via the clamping element, high process forces which exceed the forces of the linear drive many times over can be absorbed while the clamping position is maintained. Further application areas include simple automation, mechanical engineering and the automotive industry (e.g., autonomous assembly islands).





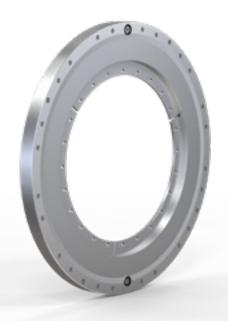
ROTARY CLAMPING ELEMENT DKHS1000 PRECISION THANKS TO RESIDUAL STRESS

World innovation under residual stress

As a market and technology leader in clamping and braking elements for profile rail guides from the very beginning, Zimmer Group is now demonstrating its technological expertise in the rotary field with an impressive innovation. The new DKHS1000 rotary clamping element enables high-precision fixation of the angular position of rotation axes in tooling machines. Through the elastic deformation of the housing under hydraulic pressure, the element releases the rotating flange connection.

Inherent safety

If the pressure drops, the rotating flange connection will be clamped by the residual stress of the housing and held securely in position. The element's closing times are still unrivaled thanks to the pretensioning of the housing and the low displacement. And there are no movable components with clearance, so in the rotary range extremely high accuracy that is finer than the resolution of conventional angle sensors is attained. In other words, the motor control, which is inaccurate under dynamic load anyway, can be switched off in this situation.



Flexibility brings longevity

Thanks to the element's design in the fatigue-proof elastic range, the DKHS1000 hydraulic series significantly outperforms conventional, pneumatically actuated rotary clamping elements. This continues to raise the availability of tooling machines. The DKHS1000 is a reliable component for tilting and turning tables, the C-axis, the spindle axis and protecting torque motors.



ZERO-POINT CLAMPING SYSTEM ALL FUNCTIONS, ALWAYS AVAILABLE

Safely clamped in all application areas

The new zero-point clamping system by Zimmer Group provides a number of features whose form and composition are unique in the market. The PLUS connection, sealing air and positioning checks are integrated as standard, and the system also features air discharge from the bolt opening, rotation prevention devices and contact surface cleaning. It is able to absorb maximum forces with maximum repeatability. This is achieved through a

mature clamping principle that uses a clamping segment for positive locking. The zero-point clamping system offers two connection options for maximum flexibility: spot facing on the plate or tubing at the bottom of the element. To ensure the best protection, a variant with a sealing cap is available in addition the outlet nozzle.







YOUR BENEFITS IN DETAIL

ZERO-POINT CLAMPING SYSTEM Ø62

	Technical data	
Order No. with outlet nozzle	SPN062E6AD-B	SPN062E4AD-B
Order No. with sealing cap	SPN062E6AV-B	SPN062E4AV-B
Max. holding force	M6/M8 (12.9)	M6/M8 (12.9)
Operating pressure [bar]	67	47
Clamping force [kN]	4	2,5
Clamping force with PLUS connection [kN]	7.5	4.5
Rotation prevention, positioning check, overlay seal, blow-out function, sealing air	Yes	Yes
Weight [kg]	0.47	0.47

ZERO-POINT CLAMPING SYSTEM Ø112

	► Technical data	
Order No. with outlet nozzle	SPN112E6AD-B	SPN112E4AD-B
Order No. with sealing cap	SPN112E6AV-B	SPN112E4AV-B
Max. holding force	M10/M12 (12.9)	M10/M12 (12.9)
Operating pressure [bar]	67	47
Clamping force [kN]	7	4
Clamping force with PLUS connection [kN]	15	10
Rotation prevention, positioning check, overlay seal, blow-out function, sealing air	Yes	Yes
Weight [kg]	1.67	1.67

ZERO-POINT CLAMPING SYSTEM Ø138

	► Technical data	
Order No. with outlet nozzle	SPN138E6AD-B	SPN138E4AD-B
Order No. with sealing cap	SPN138E6AV-B	SPN138E4AV-B
Max. holding force	M12/M16 (12.9)	M12/M16 (12.9)
Operating pressure [bar]	67	47
Clamping force [kN]	18	9
Clamping force with PLUS connection [kN]	42	22
Rotation prevention, positioning check, overlay seal, blow-out function, sealing air	Yes	Yes
Weight [kg]	3.7	3.7

ZERO-POINT CLAMPING SYSTEM ALL FUNCTIONS, ALWAYS AVAILABLE

For trouble-free operation

The highlight of the zero-point clamping system is its integrated blow-out function. It ensures trouble-free operation even under the most adverse conditions. The integrated outlet nozzle acts as a cleaner for the bolt opening and rotation prevention devices. In the process, an air stream removes shavings and other foreign particles reliably and effectively. To achieve

maximum protection, a special sealing cap was developed. It closes the bolt opening and cleans both the rotation prevention devices and the contact surfaces. This makes the zero-point clamping system by Zimmer Group your reliable partner for applications of any kind.



MODULAR TRANSPORT SYSTEM EXCELLENT

Technology and economic efficiency

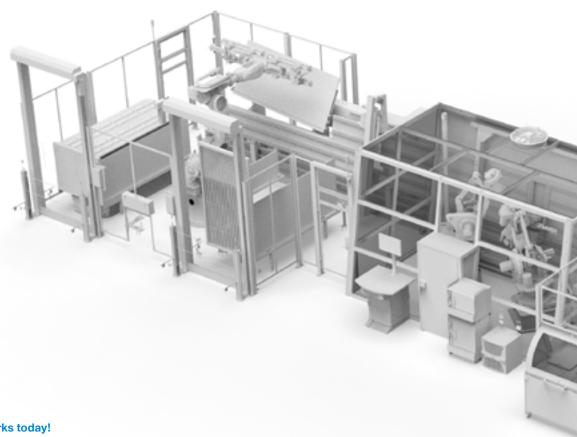
Thanks to its modularity, flexibility and scalability, the system can be used either as a transport system or a handling system. The transport modules take care of workpiece transport, while the speed of each individual shuttle or shuttle group can be selected freely. The individually controlled transport units can be used as masters or slaves, depending on the requirements of the MES system. They can operate separately or in tandem. This eliminates fixed coupling of the transport by a continuous conveyor belt, for example. Viewed over the full life cycle, this new machine concept offers high investment security since the modular design makes it possible to add later extensions through new machining modules. The modules move on a freely configurable track to attain an almost unlimited length and range of variants.

Two impressive innovations

Innovation number one: the high flexibility and broad scalability of the individually controlled transport units, which are controlled as either a master or a slave, depending on the production order. These transport units can carry workpieces of very different sizes, either as individual transport units for smaller workpieces or together in a master-slave assembly for one large workpiece. Innovation number two: An integrated 48 V intermediate circuit buffer. In combination with the recuperation function of the

transport units, this buffer reduces load current peaks by approx. 85% and the system's energy consumption by more than 8%. The production process is interconnected because all processes are directly linked to a higher-level MES system. Thanks to numerous sensors, the current status information can be called up in real time (condition monitoring). Cloud connection is also possible, thereby enabling functionalities such as predictive maintenance and statistical evaluations.

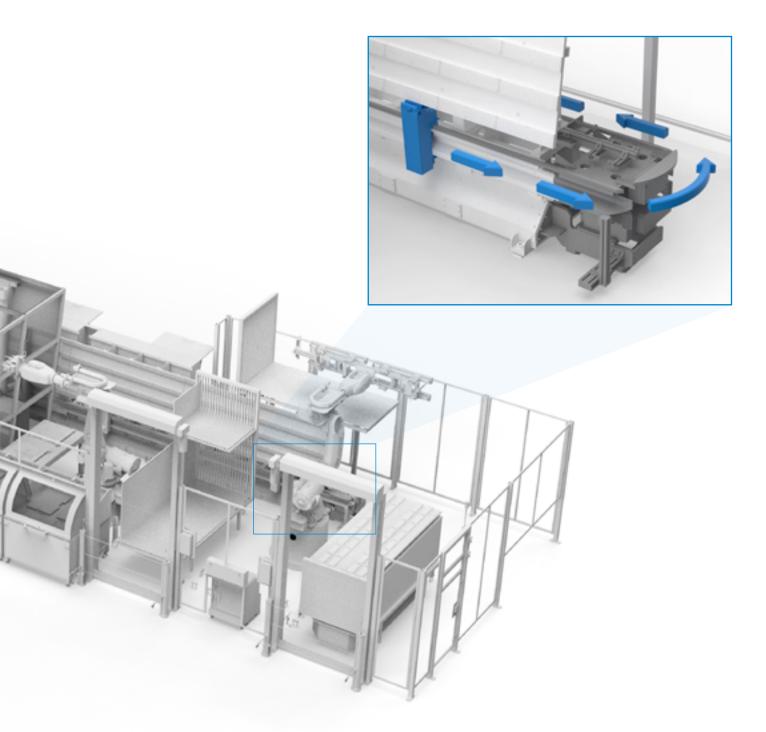
MODULAR TRANSPORT SYSTEM EXCELLENT



This is how automation works today!

The Modular Transport System combines transport, machining and quality assurance function in a nearly ideal manner. Depending on the requirements profile, the actual transport route can be enhanced by a flexible arrangement of loading

robots, measuring and plausibility stations, machining robots, converters or assembly stations. The high level of flexibility is ultimately the result of the overall system reconfigurability and the independently operating functional units.





SMART COMMUNICATION MODULE (SCM) IO-LINK MEETS DIGITAL I/O

Smart Communication Module

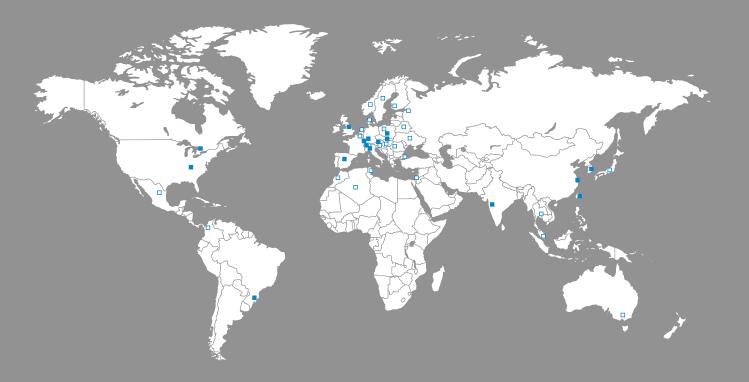
The Smart Communication Module (SCM) is a master gateway that is suitable for all IO-Link components. With its two channels, the SCM can control two devices and on a functional level, offers the direct implementation of IO-Link to digital I/O. The module thus makes it possible to integrate IO-Link devices into a digital infrastructure and utilize almost the full extended range of functions of the IO-Link device. The SCM is available in two

versions: as a bus terminal for DIN rail mounting in the control cabinet with a standard grid width and as an adapter for direct installation on the end-of-arm tool. This ensures easy control, regardless of the application and which robot is used. The DIN rail mounting version has IP20 protection, while the end-of-arm version is IP54 rated.

quideZ

guideZ is a software tool for commissioning components quickly and extremely easily. It enables user-quided implementation and commissioning for truly anyone. Users can switch between wizard mode and expert mode. The parameter data of this

7-step commissioning process can be easily and quickly adapted to any PLC control or even small controls - this is usability by THE KNOW-HOW FACTORY!



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For the repair and overhaul of your Zimmer products, count on the know-how of our specialists.

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