THE FULL PRODUCT LINE.







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 HAVE 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 ingenious 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 technology fields. This applies not just to development but 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. With Zimmer Group, our customers 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.





TECHNOLOGIES



HANDLING TECHNOLOGY

MORE THAN 30 YEARS OF EXPERIENCE AND INDUS-TRY KNOWLEDGE: OUR PNEUMATIC, HYDRAULIC AND ELECTRICAL HANDLING COMPONENTS AND SYSTEMS ARE GLOBAL LEADERS.

Components. More than 2,000 standardized grippers, swivel units, robotic accessories and much more. We offer a complete selection of technologically superior products that are ready for rapid delivery.

Semi-standard. Our modular approach to design enables custom configurations and high rates of innovation for process automation.





DAMPING TECHNOLOGY

INDUSTRIAL DAMPING TECHNOLOGY AND SOFT CLOSE PRODUCTS EXEMPLIFY THE INNOVATION AND PIONEERING SPIRIT OF THE KNOW-HOW FACTORY.

Industrial damping technology.

Whether standard or customized solutions, our products stand for the highest cycle rates and maximum energy absorption with minimal space requirements.

Soft Close. Development and mass production of pneumatic and fluid dampers with extraordinary quality and rapid delivery.

OEM and direct. Whether they need components, returning mechanisms or complete production lines – we are the trusted partner of many prestigious customers.





LINEAR TECHNOLOGY

WE DEVELOP LINEAR COMPONENTS AND SYSTEMS THAT ARE INDIVIDUALLY ADAPTED TO OUR CUSTOM-ERS' NEEDS.

Clamping and braking elements.

We offer you more than 4,000 types for profiled and round rails as well as for a variety of guide systems from all manufacturers. It makes no difference whether you prefer manual, pneumatic, electric or hydraulic drive.

Flexibility. Our clamping and braking elements ensure that movable components such as Z-axes or machining tables maintain a fixed position and that machines and systems come to a stop as quickly as possible in an emergency.



PROCESS TECHNOLOGY

MAXIMUM EFFICIENCY IS ESSENTIAL FOR SYSTEMS AND COMPONENTS USED IN PROCESS TECHNOLOGY. HIGH-LEVEL CUSTOM SOLUTIONS ARE OUR TRADEMARK.

A rich reservoir of experience. Our know-how ranges from the development of materials, processes and tools through product design to production of series products.

Deep production capabilities. The Zimmer Group pairs these capabilities with flexibility, quality and precision, even when making custom products.

Series production. We manufacture demanding products out of metal (MIM), elastomers and plastics with flexibility and speed.



MACHINE TECHNOLOGY

ZIMMER GROUP DEVELOPS INNOVATIVE METAL, WOOD AND COMPOSITE MATERIAL PROCESSING TOOL SYSTEMS FOR ALL INDUSTRIES. NUMEROUS CUSTOM-ERS CHOOSE US AS THEIR SYSTEMS AND INNOVATION PARTNER.

Knowledge and experience. Industry knowledge and a decades-long development partnership in exchangeable assemblies, tool interfaces and systems make us bound for new challenges around the world.

Components. We deliver numerous standard components from stock and develop innovative, customized systems for OEM and end customers – far beyond the metal and wood processing industries.

Variety. Whether you have machining centers, lathes or flexible production cells, the power tools, holders, assemblies and drilling heads of Zimmer Group are ready for action.



SYSTEM TECHNOLOGY

ZIMMER GROUP IS ONE OF THE LEADING SPECIALISTS IN THE DEVELOPMENT OF CUSTOMIZED SYSTEM SOLUTIONS WORLDWIDE.

Customized. A team made up of more than 20 experienced designers and project engineers develop and produce customized solutions for special tasks in close collaboration with end customers and system integrators. It doesn't matter if it is a simple gripper and handling solution or a complex system solution.

Solutions. These system solutions are used in many industries, from mechanical engineering to the automotive and supplier industries to plastics engineering and consumer goods industries, all the way to foundries. The Know-how Factory helps countless companies to thrive competitively by increasing automation efficiency.





SHOCK ABSORBER WITH SPIRAL GROOVE TECHNOLOGY

OUR EXPERTISE – YOUR ADVANTAGES

"The Universal One"

- Up to 30% more gripping force than the Benchmark
- 10% higher static forces and torques than the Benchmark
- Gripper fingers up to 10% longer than the Benchmark
- Gripper finger weight up to 15% higher than the Benchmark
- Sealed IP64 guide / IP67 protector version (with sealing air)
- Protected against corrosion
- Up to 30 million cycles without maintenance



DURABLE

Our product portfolio is coordinated to the needs of our customers and provides the perfect solution for any application. The 5000 series provides you with a comprehensive worry-free package – including corrosion protection, IP67 and 30 million cycles without maintenance.

UNIVERSAL

Mechatronic grippers make any type of production more flexible. Since 1992, they have been an established part of our supply product range, as they combine maximum performance with simple operation. The 5000 series combines features from pneumatics, electrical systems and hybrid technology.

PRECISE

We have been continually developing and improving our grippers since 1980. These years of experience are reflected in each gripper, and especially in our premium GPP5000 universal grippers.





Pneumatic



Electric



Hybrid



HANDLING TECHNOLOGY **GRIPPERS**

		GN	FFENS
2-J/	AW PARALLEL GRIPP	PERS	GPH8000
	PNEUMATIC		
GPP1000	Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):	4 mm - 16 mm 100 N 0.16 kg - 0.20 kg 30 2 million cycles	GEH6000
MGP800	Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):	8 1 mm - 12 mm 6 N - 400 N 0.008 kg - 0.46 kg 40 10 million cycles	€ IO-Link
GP400	Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):	9 3 mm - 30 mm 85 N - 19,275 N 0.08 kg - 18.9 kg 40 10 million cycles	MGD800
GPP5000 TO-Link	Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):	11 2,5 mm - 45 mm 140 N - 26,950 N 0.08 kg - 50 kg 64/67 30 million cycles	GPD5000 € IO-Link
	ELECTRICAL		
GEP9000	Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):	2 2 mm - 4 mm 11 N - 50 N 0.25 kg - 0.57 kg 40 30 million cycles	GED5000 🛛 IO-Link
GEP2000 TO-Link	Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):	3 10mm - 16mm 50N - 500N 0.79kg - 1.66kg 40 10million cycles	
GEP5000 © IO-Link	Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):	3 6 mm - 10 mm 540 N - 1,900 N 0.79 kg - 1.66 kg 64 30 million cycles	GD500
2-J <i>i</i>	AW PARALLEL GRIPF WITH LONG STROKE	PERS E	
	PNEUMATIC		GZ1000
MGH8000	Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):	3 10mm - 100mm 60N - 910N 0.35 kg - 7.3 kg 64 10million cycles	MGW900
GH6000	Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):	5 20mm - 200mm 120N - 3,400N 0.3 kg - 23.8 kg 40 10million cycles	



Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):

62.5 mm - 150 mm 2000 N 14,9 kg - 21,3 kg 54 5 million cycles

6000IL -Llnk

Number of installation sizes: Stroke per jaw (max.): Gripping force: Weight: IP class: Maintenance free (max.):

2 80 mm 60 N - 2,400 N 0.76 kg - 2.6 kg 40/54 5 million cycles

3-JAW CONCENTRIC GRIPPERS

800

Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):

1 mm - 12 mm 30 N - 1,420 N 0.025 kg - 2 kg 40 10 million cycles

8

5000 Lin

Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):

11 2,5 mm - 45 mm 310 N - 72,500 N 0.14 kg - 100 kg 64/67 30 million cycles

ELECTRICAL

Stroke per jaw: Gripping force: Weight:

IP class:

Number of installation sizes: 3 64 Maintenance free (max.):

6 mm - 10 mm 540 N - 1,900 N 1.09 kg - 2.33 kg 30 million cycles

3-JAW CONCENTRIC GRIPPERS WITH LONG STROKE

PNEUMATIC

Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):

3 30 mm - 160 mm 1,300 N - 2,480 N 7.4 kg - 29 kg 40 10 million cycles

2-JAW ANGULAR GRIPPERS

/ATIC

Number of installation sizes: Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):

Number of installation sizes:

3 8° - 10° 62N-315N 0.015 kg - 0.125 kg 30 10 million cycles

V800



8 37.5° 5 N - 325 N 0.01 kg - 0.45 kg 30 10 million cycles

		GR						
GG1000	Number of installation sizes	4		MAGNETIC GRIPPERS				
	Stroke per jaw: Gripping force:	20° 2,910N - 29,110N	PNEUMATIC					
	Weight: IP class: Maintenance free (max.):	1.3 kg - 13 kg 40 10 million cycles	HM1000	Number of installation sizes: Adhesive force (max.): Weight:	4 27 N - 450 N 0.06 kg - 2.2 kg			
GPW5000	Number of installation sizes: Stroke per jaw: Gripping force: Weight:	3 +15°/-2° 1,330N - 14,500N 0.9 kg - 12.1 kg	65	ELECTRICAL				
	IP class: Maintenance free (max.):	64 30 million cycles		Number of installation sizes:	4			
2	-JAW RADIAL GRIPPE	RS	HEM1000	Adhesive force (max.): Weight:	4 40 N - 720 N 0.09 kg - 1.3 kg			
	PNEUMATIC							
GK	Number of installation sizes: Stroke per jaw:	6 90°						
11 1	Gripping force: Weight: IP class:			ROTARY GRIPPERS				
	IP class: Maintenance free (max.):	20 10 million cycles	2-JA	W ANGULAR ROTARY GI	RIPPERS			
GG4000	Number of installation sizes:	6	-	PNEUMATIC				
1.	Stroke per jaw: Gripping force: Weight: IP class: Maintenance free (max.):	90° 430 N - 4,000 N 0.25 kg - 4.5 kg 64 10 million cycles	DGK	Stroke per jaw: Gripping force: Weight:	90° 150 N 0.55 kg			
GRI	PPERS FOR SPECIAL 1	TASKS	(1)					
	INTERNAL GRIPPERS	5	2-JA	W PARALLEL ROTARY G	RIPPERS			
	PNEUMATIC		DCD400	Stroke per jaw:	4 mm			
LGS LG1000 LGG	Number of installation sizes: Full stroke in Ø: Gripper hole diameter: Weight:	25 1 mm - 16 mm 4 mm - 135.5 mm 0.031 kg - 2.7 kg		Gripping force: Weight:	115N 0.44 kg - 0.48 kg			
OUTER	O-RING ASSEMBLY G	RIPPERS						
	PNEUMATIC							
GS GSI	Number of installation sizes: O-ring Ø: Expanding force: Weight:	4 4 mm - 130 mm 240 N - 1,450 N 0.5 kg - 5.4 kg	-					
	NEEDLE GRIPPERS							
	PNEUMATIC		i i					
ST SCH	Number of installation sizes: Adjustable needle stroke: Weight:	4 0 mm - 6 mm 0.21 kg - 0.45 kg	-					
GEN9100	Adjustable needle stroke: Weight: IP class:	0 mm - 2 mm 0.33 kg 50	-					

HANDLING TECHNOLOGY SWIVEL AND ROTARY MODULES

OUR EXPERTISE – YOUR ADVANTAGES

"Superior"

Up to 100% more performance than the Benchmark

Superior end position damping lets you swivel more mass in the shortest amount of time, increasing your machine's component output

Large center bore

Reduce the interference contours in your application by placing your power supply line directly through the middle of the rotary flange

More than 100% higher radial bearing load than the Benchmark

The generously scaled bearings stand for robustness and long service life and provide the highest process reliability for your application



HIGH-PERFORMANCE

When it comes to swiveling, the shortest possible cycle time is the first priority. Our in-house developed shock absorbers with spiral groove technology provide the market's best end position damping – perfect for our high-performance swivel units with their extremely short cycle times.

TRIED AND TESTED

As a pioneer from the very beginning, we are offering you a comprehensive product range that is constantly raising the bar. In addition to the world's first shock-absorbed angle pivot unit, we also developed products such as the first flat swivel unit with a locking middle position.

ROBUST

Generously scaled bearings make it possible for our units to handle a great deal. Where others may lose a tooth now and then, we can offer you a virtually wear-free gear drive with external stops.







		SWIVEL AND F		LES	
	ROTOR CYLINDER			SWIVEL JAWS	
	PNEUMATIC			PNEUMATIC	
PRN	Number of installation sizes: Swivel angle: Torque: Weight: IP class: Maintenance free (max.):	9 90° - 270° 0.15 Nm - 247 Nm 0.04 kg - 12.5 kg 54 1.5 million cycles	SB	Number of installation sizes: Swivel angle: Torque: Weight: IP class: Maintenance free (max.):	3 90° - 180° 0.1 Nm - 1.6 Nm 0.3 kg - 2.2 kg 54 10 million cycles
	FLAT SWIVEL UNITS		SBZ	Number of installation sizes: Swivel angle:	5 90° - 180°
	PNEUMATIC			Torque: Weight:	1.2 Nm - 57 Nm 0.45 kg - 28 kg
MSF	Number of installation sizes: Swivel angle: Torque: Weight: IP class: Maintenance free (max.):	3 90° - 180° 0.3 Nm - 1.2 Nm 0.17 kg - 0.46 kg 41 10 million cycles		Maintenance free (max.):	10 million cycles
SF	Number of installation sizes: Swivel angle: Torque: Weight: IP class: Maintenance free (max.):	6 0° - 180° 1.5 Nm - 130 Nm 0.6 kg - 41.1 kg 64 10 million cycles	-		
	ELECTRICAL				
DES	Number of installation sizes: Swivel angle: Torque: Weight: IP class: Maintenance free (max.):	2 unlimited 12 Nm - 64 Nm 4 kg - 15.9 kg 54 5 million revs	-		
	ANGLE PIVOT UNITS		1		
	PNEUMATIC				
SWM1000	Number of installation sizes: Swivel angle: Torque: Weight: IP class: Maintenance free (max.):	4 90° 10 Nm - 64 Nm 0.65 kg - 3.5 kg 30 10 million cycles	-		
sw	Number of installation sizes: Swivel angle: Torque: Weight: IP class: Maintenance free (max.):	6 180° 1.5 Nm - 120 Nm 1.2 kg - 48.2 kg 64 10 million cycles	-		

HANDLING TECHNOLOGY ROBOT ACCESSORIES

OUR EXPERTISE - YOUR ADVANTAGES

Secure hold during pressure drop

A redundant system, created by the combination of a spring accumulator and a self-locking mechanism, guarantees a safe machine

Extremely flat design

This structure reduces the moment load for your robot to a minimum and makes it possible to use smaller and more affordable sizes

Inexhaustible variety of media transfer systems

No matter which medium you would like to transmit, we will draw from our wealth of experience in implementing projects and find a solution to suit your needs



VARIETY

Do you want to custom-build your machine and have freedom in media transmission? Working with us allows you to select from a wide variety of standardized energy elements. We are also experienced to develop a custom solution for you.

STANDARDIZED

The height of the structure reduces the load capacity of your robot. That is why our robotic components form structures with minimal height and can be combined together without additional adapter plates. Direct mounting onto the robot takes place using the mounting flange in accordance with EN ISO 9409-1.

SAFE

Production safety is a priority for us. That is why our tool changers offer you maximum reliability, with the integrated sensor technology, the spring installed for maintaining force and the extremely robust, line contacting locking bolts.







		ROBOT AC	CESSORIES	
	CHANGE			TRANSMIT
	MANUAL		$\widehat{}$	MANUAL
HWR2000 HWR	Connection flange: Recommended handling weight: Pneumatic energy transfer: Electrical energy transfer:	TK31 - TK80 5 kg - 50 kg 4 - 8 ports Optional via energy element	DVR1000	Connection flange: TK125 Recommended handling weight: 200 kg Pneumatic energy transfer: 8 ports Electrical energy transfer: 4pin + PE
	PNEUMATIC		DVR	Connection flange: TK40 - TK160
WWR	Connection flange: Recommended handling weight: Pneumatic energy transfer: Electrical energy transfer:	TK40 - TK160 20 kg - 300 kg 4 - 10 ports Optional via energy element		Pneumatic energy transfer: 4 - 8 ports Electrical energy transfer: 4 - 12pin
				ENERGY ELEMENTS
WWR1000	Connection flange: Recommended handling weight:	TK160 - TK200 500 kg - 1.000 kg	•	ELECTRICAL / COMMUNICATION
-	Pneumatic energy transfer: Electrical energy transfer:	Optional via energy element Optional via energy element	WER	For transmitting signal and load currents
	COMPENSATE		the second	
	PNEUMATIC		🛛 IO-Link 🍟	
FGR XYB	Connection flange: Recommended handling weight: Deflection in X/Y:	TK40 - TK160 7 kg - 75 kg 2 mm - 10 mm		FLUID
			WER	For transmitting hydraulics, pneumatics and vacuum
	PROTECT			
	PNEUMATIC			
CSR	Connection flange: Recommended handling weight:	TK50 - TK125 6 kg - 150 kg		ANGLE FLANGE
00	Z-axis deflection: Horizontal deflection +/-:	6mm - 23mm 9° - 12.5°	WFR	Suitable for more than 40 different robot types and combinable with 16 different grip- pers for machine loading

HANDLING TECHNOLOGY **HUMAN ROBOT COLLABORATION**

HRC FROM THE EXPERTS

Zimmer Group is a pioneer and one of the world's leading manufacturers of components in the area of human/ robot collaboration. We develop our products in pursuit of our goal to increase the efficiency of work processes by fostering the type of collaboration between humans and machines that makes optimal use of their potential.



Cooperation



Collaboration

2-JAW PARALLEL GRIPPERS

COOPERATIVE

ELECTRICAL

HRC-EP-017388 O IO-Link Î



60 mm Gripping force: 820 N 1.8 kg 40 Maintenance free (max.): 5 million cycles

Safety functions STO + mechanical self-locking mechanism in case of power failure

COLLABORATIVE

ELECTRICAL



Stroke per jaw: Gripping force (max.): Weight: IP class: Maintenance free (max.):

60 mm < 140 N 2.0 kg 40 5 million cycles

Safety functions STO + mechanical self-locking mechanism in case of power failure + safety gripper jaws prevent the excess of 140N

HRC-EP-027988 IO-Link	Stroke per jaw: Gripping force (max.): Weight: IP class: Maintenance free (max.):	10mm < 140N 0.68kg 40 10 million cycles

Mechanical self-locking mechanism in case of power failure

PNEUMATIC

HRC-PP-048748 O IO-Link

-

Stroke per jaw: Gripping force (max.): Weight: IP class: Maintenance free (max.): 6mm < 140 N 0.76 kg 40 10 million cycles

Gripping force safety device in case of pressure failure via integrated spring

2-JAW ANGULAR GRIPPERS PNEUMATIC



Stroke per jaw: Gripping force (max.): Weight: IP class: Maintenance free (max.): 37.5° < 140 N 0.82 kg 10 million cycles

40

Gripping force safety device in case of pressure failure via integrated spring

HANDLING TECHNOLOGY HUMAN MACHINE INTERFACE

Simple operation

The operation of our Industrie 4.0 components has now been integrated into the control system of the robots from YASKAWA and Universal Robots. The integration of additional manufacturers is in progress and can be requested as needed. The components can be set up manually using the robot control panel and integrated into the program sequence. The intuitive operating interface allows the user to activate the entire IO-Link gripper portfolio from Zimmer Group and uses all pneumatic, electrical, hybrid, servoelectric and digital components on the robots.

Because simple is just better

This integration makes it possible to use application profiles flexibly and to adjust and save the device parameters very easily. Complete implementation and commissioning takes only a few minutes. Furthermore, Zimmer HMI supports condition monitoring or predictive maintenance of the components.

HANDLING TECHNOLOGY INDUSTRIE 4.0



HMI using the example of Universal Robots

Components

In the future, production systems and machines will build upon autonomously acting and intelligent mechatronic components and assemblies. More and more functions will be integrated directly into the assemblies and data processing will take place remotely in the components at an increasing rate. These functions will network, organize and configure themselves in order to take over functions from the higher-level control level or to take over some of its workload. The Zimmer Industrie 4.0 components communicate via IO-Link, which ensures the connection is made easily using an M12 connector that carries all of the signals as well as the power.

IO-Link, the interface of Industrie 4.0 components

IO-Link is the first standardized IO-technology worldwide for communication from the control system to the lowest level of automation. This IO-Link standard is used as a fieldbus-independent point-to-point connection. Zimmer Group uses IO-Link to integrate intelligent components into virtually any automation environment.

Easily installed with many advantages

IO-Link is easy to install and integrate. Moreover, it reduces and standardizes wiring effort. A standardized, unshielded 5-wire cable is sufficient for producing the point-to-point connection. Previous investments are protected as a result of keeping tried-and-tested cabling structures and compatibility with your existing, conventional wiring.







HANDLING TECHNOLOGY ROBOT MODULES



HANDLING TECHNOLOGY SERIES AT A GLANCE



HANDLING TECHNOLOGY VACUUM COMPONENTS

MCS MODULAR CONSTRUCTION SYSTEM

The modular construction system (MCS) can be used to create a workpiece specific solution without increased engineering efforts. This is made possible by the modular individual components. The product portfolio includes profiles, compensation modules, suction cup mounts as well as gripper fingers that guarantee a secure grip of the workpiece during motion.





HIGH ENERGY WWW.zimmabsorption

DURABILITY

1

OUR EXPERTISE – YOUR ADVANTAGES

- Low-vibration and precise braking due to the constantly narrowing spiral groove
- Low wear and long service live thanks to hydrostatic piston guide
- Corrosion protection from using stainless steel

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

CONVENTIONAL SOLUTION

THROTTLE MECHANISM



HIGH-END SOLUTION – THE ZIMMER GROUP POWERSTOP SHOCK ABSORBER

SPIRAL GROOVE TECHNOLOGY



OIL RESERVE

The shock absorbers of the High Energy series are appropriately filled with oil so that the volume compensation spring is under pre-load. Automatic readjustment of the spring compensates for oil loss, which results in a long service life.









INDUSTRIAL DAMPING TECHNOLOGY BASICSTOP TECHNOLOGY HIGHLIGHTS

OUR EXPERTISE – YOUR ADVANTAGES

- ► TPC high-performance plastic:
 - High durability and resistance against media*
 - No swelling, embrittlement or decomposition of the material, as is the case with rubber*
 - Wide temperature range
- High damping percentage and high energy absorption in the smallest space
- Reliable return behavior
- Increased life cycle in comparison to rubber buffers
- Usability independent of velocity
- ▶ 100% recyclable due to thermoplastic properties
- * For chemical and media resistance, please refer to the Damping Technology catalog or www.zimmer-group.com



PROFILE DAMPING

- > The BasicStop profile dampers feature high-performance TPC plastic and a specifically developed profile.
- BasicStop acquires its unique properties after receiving a special treatment. These properties allow it to absorb maximum amounts of energy even under the toughest conditions, while also achieving high damping rates.

DAMPING VS. SPRING RETURN

- Conventional rubber buffers only have a very small damping percentage and are more of a spring than a damper. Use of these buffers hardly removes any kinetic energy from the system, which in turn can cause damage to the system.
- This is where the BasicStop brand profile dampers are setting new standards in the realm of material damping with their high damping percentage.





Emergency stop protection in the movement axis of a spindle tailstock



End position damping in the linear axes of production modules from ELHA



Machine door damping in a machining center

INDUSTRIAL DAMPING TECHNOLOGY THE SERIES AT A GLANCE

INDUSTRIAL SHOCK ABSORBERS POWERSTOP BASICSTOP Size: M8 - M45 Height: 11 mm - 109 mm STANDARD AXIAL Stroke: 5 mm - 25 mm Energy absorption (max.): 1.5 Nm - 350 Nm Stroke: 5 mm - 56 mm Energy absorption (max.): 2 Nm - 2,950 Nm STANDARD Damping percentage 75% (max.): M4 - M45 Size: Height: 53 mm - 252 mm AXIAL Stroke: 3 mm - 50 mm Energy absorption (max.): 0.5 Nm - 1,200 Nm Stroke: 30 mm - 198 mm ADVANCED Energy absorption (max.): 450 Nm -17,800 Nm Damping percentage 65% (max.): Height: 23 mm - 88 mm RADIAL 15 mm - 60 mm Stroke: STANDARD Energy absorption (max.): 1.2 Nm - 290 Nm Damping percentage 60% (max.):

SHOCK ABSORBER SELECTION GUIDE

ENERGY

HIGH

ENERGY

- Calculate and select shock absorbers quicker Calculation, selection guide and configurator
- Clearly arranged selection guide Easy to go from the right load case to the suitable damper
- Smart solution available on mobile devices ► Direct access anytime at http://www.zimmer-group.com/en/pdti



DAMPING TECHNOLOGY SOFT CLOSE TECHNOLOGY HIGHLIGHTS

OUR FOCUS IS ON THE CUSTOMER

In our development department, the air friction and fluid dampers are not just adapted to customer requirements and constantly being optimized. We also search for innovative solutions for a wide variety of industries. This increases the diversity of the product portfolio and the associated solution options. Our highly professional automation department also enables us to take a rational approach to mass producing products to the industry standard on our own systems. We work in close coordination with our quality team to produce products at the highest level. No damper leaves the plant before undergoing a quality check. At the same time, our sales department is experiencing continuous growth in order to give the utmost attention to the requirements and wishes of our customers around the world and to utilize market development for new products.



Each individual pneumatic damper is subject to an automatic visual inspection

AIR FRICTION DAMPERS

"The classic"

- The primary distinguishing feature of our air friction dampers is their longevity. Our ideas have been tested and proven in real-world applications and are protected by patents.
- The damping process with a air friction damper is characterized by a braking phase with a short stop and then a transition into the return phase.
- All air frictioned dampers have similar characteristics. They exhibit nearly parallel movement at various load bearing capacities.

FLUID DAMPERS

"High performance"

- Fluid dampers have also been an integral part of Zimmer Group's product range for many years. Our fluid dampers exhibit a high level of dependability and great load bearing capacity.
- The damping process with a fluid damper is characterized by an almost seamless transition from the braking phase to the return phase without stopping in between the two phases.
- The characteristics differ between linear, linear-constant or S-curve characteristics depending on the fluid damper being used.



Displays the damping force based on the stroke



DAMPING OF DRAWERS

Components of drawers

- Drawer damping has securely established itself as an indispensable standard.
- The Zimmer Group specializes in drawer damping and supplies you with optimal comfort for your products at the highest level.
- Our individual dampers for drawer damping feature a multitude of options for integration into customer systems. Due to the high adaptability of our designs, we offer a wide range of standard products as well as customer-specific solutions.

Precise - adaptable - tested

DAMPING OF SLIDING DOORS

Sliding door dampers

- Sliding doors are increasingly attracting attention in the residential, working and sleeping areas due to their ever increasing potential for space-saving applications.
- The Zimmer Group offers the newest technology for this growing market.
- Due to their high adaptability, our components for sliding door damping are easily integrated into our customers' railing system.

Intelligent - efficient - reliable



DAMPING OF LIDS

Fluid dampers for lids

- Closing is often associated with "slamming".
 The Zimmer Group uses its fluid dampers to get rid of this association.
- The defining features of our dampers for lid damping are their adaptability and the wealth of available variants.
- Our fluid dampers are groundbreaking in this regard. Various dimensions, force or damping characteristics – we offer the perfect fluid damper to suit your needs.

Small - strong - robust - adaptable



DAMPING OF HINGES

Dampers for hinges

- The high-performance dampers from Zimmer Group for damping hinges are retrofit solutions that are easy to integrate.
- Users particularly appreciate the VOLPINO's easy handling of customizable damping force, which can be adjusted to the door weight after assembly.
- The BELLINO is appealing due to its ability to be integrated into (very) tight installation spaces.

Powerful - flexible - sophisticated









6

ONE FUNCTIONAL COMPONENT HIGHEST STIFFNESS

6

INTEGRATED EMERGENCY BRAKE FUNCTION

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LINEAR TECHNOLOGY **TECHNOLOGY HIGHLIGHTS**

OUR EXPERTISE - YOUR ADVANTAGES

More than 20 years of development and market experience have yielded more than 4,000 standardized products.

- Very high holding force on small dimensions
- High positional accuracy
- High stiffness
- PLUS connection for increased holding forces



(4) Piston

WEDGE-TYPE GEAR – TRIED-AND-TESTED FOR OVER 20 YEARS

- In the field of clamping and braking on profile rail and round shaft, Zimmer Group with their wedge-type gear has been the pioneer.
- All pneumatic elements are equipped with a tried-and-tested wedge-type gear for the highest power transmission and market-leading numbers of cycles over 5 million (B10d value).

ONE FUNCTIONAL COMPONENT – HIGHEST STIFFNESS

- The newest LBHS series once again demonstrates technological expertise.
- A hydraulic braking element consisting of a single functional component that does not contain any moving parts and generates all braking and holding forces solely through the inherent tension of the base body. It promises the highest stiffness and quickest response times.



Depressurized: closed



Pressurized: open



SELECTION GUIDE – OVER 20,000 COMBINATIONS

- Select clamping and braking elements quicker Suitable for over 20,000 rail and carriage combinations
- Clearly arranged selection assistance Direct technical data access + CAD download
- Smart solution available on mobile devices Direct access anytime at http://www.zimmer-group.com/en/plt





LINEAR TECHNOLOGY THE SERIES AT A GLANCE





The holding force is the maximum force that can be generated in the axial direction. The specified holding forces are tested on every clamping and braking unit before delivery using a slightly lubricated rail (ISO VG 68). Using other oil or lubricating substances can influence the coefficient of friction, which can cause a loss of holding force in individual cases.





CIRCULAR AND SHAFT GUIDES







OUR EXPERTISE – YOUR ADVANTAGES

- Cost-effective series production of complex metallic components
- ▶ Up to 65% less expensive than conventional production processes
- Material freedom: Low alloy steels, stainless steels, HSS steels as well as carbides, titanium and titanium/tungsten alloys
- Series production of components with 0.3g 150g part weight
- Complex parts with wall thicknesses up to 0.2 mm can be implemented
- Holes, inner and outer threading, undercuts and gear teeth are possible
- Mechanical strength and workability of workpieces equal to conventional manufacturing processes
- Control of part hardness during the sintering process
- Geometric freedom in developing your components or assemblies
- Part development or design support from a highly experienced development team
- Injection-molded, milled or 3D-printed parts as a part basis





FEEDSTOCK



Metal powder, binder

Raw material consists of approximately 60% the respective metal powder by volume and 40% a binder, which is a mixture of polymers and waxes. The homogeneous mixture of all of the components is of critical importance.

INJECTION MOLDING DEBINDING



Green part

The binder portion is melted at a high temperature and the highly viscous mass of metal powder and binder is then pressed into the shape of the respective component. The workpieces created from the metal powder and binder are called the green part.

Brown part

The majority of the binder is removed from the green parts. The remaining binder is vaporized out of the component at a temperature between 400 °C and 900 °C. The metal particles combine by forming what are called sintering necks, giving the part sufficient stability.

SINTERING



Metal part

The parts are condensed at high temperatures, usually above 1,000 °C. The respective temperature profile in the sinter furnace heavily depends on the material and the component geometry. This process step must be carefully adjusted for each part geometry and material.

PROCESS TECHNOLOGY MIM TECHNOLOGY

MATERIAL CHARACTERISTICS

	Low alloy	steels				
	Material No.	sinte	red	hard	dened	Characteristics
AISI	DIN	Tensile strength N/mm ²	Hardness HV	Tensile strength N/mm ²	Hardness HV	
FN02		260	85 (45 HRB)		600 (55 HRC)	
4605		415	110 (62 HRB)	1100	490 - 590 (48 - 55 HRC)	High strength
FN08		380	120 (69 HRB)			Surface hardness and excellent surface quality
FN0805		700	150 (79 HRB)	1300	300 - 510 (30 - 50 HRC)	
100Cr6	1.3505	900	230 (97 HRB)		> 700 (60 HRC)	High wear resistance and hardness
8620	1.6523	650	190 (90 HRB)		650 - 800 (58 - 64 HRC)	High surface hardness in conjunction with toughness
42CrMo4	1.7225	700	130 (71 HRB)	1450	450 (45 HRC)	High strength and toughness, hardening by nitriding results in surface hardnesses of > 600 HV10
4340	1.6565	700	130 (71 HRB)	1450	450 (45 HRC)	High strength and toughness
	Stainless	steels				

	Material No.	sinte	red	hard	lened	Characteristics
AISI	DIN	Tensile strength N/mm ²	Hardness HV	Tensile strength N/mm ²	Hardness HV	
17-4PH	1.4542	800	320 (32 HRC)		370 (38 HRC)	Martensitic, ferromagnetic stainless steel, high corrosion resistance, precipitation hardening is possible
316L	1.4404	450	120			Austenitic steel with excellent corrosion resistance, non-magnetic, moderate hardness, high ductility, excellent polishability
420W	1.4028	800	600 (55 HRC)	1560	730	High hardness, wear resistance, good corrosion resistance
440C mod.	mod. 1.4125	780	350 (35 HRC)		590 (55 HRC)	Corrosion-resistant martensitic stainless steel with high hardness

	Tool steels

	Material No.	sinter	red	hard	ened	Characteristics
AISI	DIN	Tensile strength N/mm ²	Hardness HV	Tensile strength N/mm ²	Hardness HV	
M2	1.3343	1,200	520 (50 HRC)		820 (64 HRC)	Wear-resistant high-speed steel

Titanium alloys

	Material No.	sintered	Eigenschaften
		Tensile	
AISI	DIN	strength	
		N/mm ²	
Ti grade 2	3.7035	340	Biocompatible, good corrosion resistance, good chemical resistance, low density
Ti6Al4V (grade 5)	3.7165	850	Biocompatible, good corrosion resistance, good chemical resistance, excellent mechanical properties, low density
	Tungsten	heavy meta	als

Material No. sintered Characteristics hardened Tensile Tensile Hardness Hardness AISI DIN strength strength ΗV ΗV N/mm² N/mm² W-22Fe33Ni High density Carbides Material No. sintered Characteristics Transverse rup-Compressive Hardness AISI DIN strength ture strength 1.11/

	N/mm ²	N/mm ²	110	
WC0,8Co10	4,000	6,600	1, 500	Excellent compressive and flexural strength, extremely high hardness

PROCESS TECHNOLOGY PLASTIC INJECTION MOLDING

We are in our element when the task involves complicated plastic injection molding. It enables us to demonstrate our full range of expertise through the close interaction of development, design, moldmaking, injection molding production and assembly. We process all typical plastics, such as semi-crystalline thermoplastics like POM, PE, PP, PA, PBT and PET as well as amorphous thermoplastics like ABS, PC, PEEK, PMMA, PS and SAN along with all common blends. Even wood/plastic composites (WPCs) with 70% wood fiber content for the furniture industry can be processed. This also applies to high-performance plastics such as PEEK with or without fillers such as glass fibers or glass beads. We offer all of the technically feasible variations, such as modifying the hardness grades and coloration or using special blends with specific improvements to chemical, mechanical or thermal properties. Laser-markable surfaces or increased UV protection for outdoor applications are no problem for us. As a supplier for the automotive industry, machine construction, automation, medical technology, the furniture industry, device technology and the construction industry, we strive to make our customers' applications more effective. Our moldmaking is subject to virtually zero limitations. We are even capable of implementing complex solutions such as valve-in-valve configurations or unscrewing units. The maximum part weight is 450 g in our 200-ton injection molding systems.



PROCESS TECHNOLOGY ELASTOMER TECHNOLOGY

The production volume we can provide, as with the dimensions we can produce, is nearly limitless; we can produce almost any volume desired. From special singlepiece solutions to medium-sized small-scale production to large series production with more than 10,000 pieces. We supply practically everything that can be implemented using the transfer molding (TM) or injection transfer molding (ITM process, including insert parts like threaded inserts, springs and any other parts made of plastics or metals, which we also machine on request. The transfer molding method is suitable

for manufacturing low part quantities with low implementation times and at attractive prices. The injection transfer molding method is ideal for large quantities. We have NBR, silicone, EPDM, FPM, PU, TPU, TPE or polymethane available to us as materials and we can process them in any Shore hardness available on the market. And the workpiece dimensions are just as varied, running the gamut from pinhead-sized components to workpieces with a volume of several liters. Whether big or small: There is hardly any limit to the component complexity we can provide.









MACHINE TOOLING TECHNOLOGY DRILL HEAD

RETHINKING PRECISION MACHINING

It is not without reason that multi-axis machining is considered the elite of machining processes. Its complexity requires a great deal of competence with the utilized technologies. But the results are worth the effort: Even complex parts can be completed with extraordinary surface quality, and with high dimensional and shape precision, with just one clamping operation. This results in high efficiency thanks to the reduction of process steps and increased flexibility thanks to the elimination of the set-up times of conventional systems. In addition to standard systems, we also develop special solutions on a customer-specific basis. This means that systems suitable for virtually any desirable application are created based on your custom requirements.



MACHINE TOOLING TECHNOLOGY SHUTTLE

MAXIMUM PRODUCTIVITY AND FLEXIBILITY

The individual modules move with very high dynamics and precision on a defined travel path. This path implements the high-precision mechanical movement using a linear guide in conjunction with a gear rack drive. The transfer of bus signals or electrical energy takes place via hidden sliding contacts. Depending on the requirement profile, one or more shuttles per transport order can move, either independently or with electronic coupling, synchronously on a travel path of any length at speeds of 0 - 2 m/s and with a positioning accuracy of 0.05 mm. The maximum load of the individual modules is 100 kg. The continuous circulation of the modules on the travel path is achieved by a direction change using a high-performance converter.



ZIMMER GROUP MODULAR TRANSPORT SYSTEM

Zimmer Group has developed a completely new and highly innovative category of automation components. In the case of the Modular Transport System, this is a modularly structured, fully connected and freely scalable system of transport units for a wide variety of application profiles in the area of automation and linked production.

OUR EXPERTISE – YOUR ADVANTAGES

Maximum repeatability and precision

The Zimmer Group zero-point clamping system features a repeatability of 0.005 mm. Thanks to its very high clamping force and the consistent use of tempered tool steels, the system provides a high precision, torsion resistant base that also stabilizes fragile parts that tend to vibrate during processing.

Increased process reliability

The zero-point clamping system eliminates errors during milling, rotating, wire or die eroding, flat or cylindrical grinding, drilling, lasering and measuring. The maintenance-free design also contributes to the superior process reliability.

WITHOUT ZERO POINT SYSTEM

Machine running time	Set-up of workpiece		
WITH ZERO POINT SYSTEM	Change of pallet		
Machine running time	Additional free machining capacity		
Ready the workpiece on a pallet when not processing	1		

CONFIGURATION

In order to best redirect the forces of the device to be clamped, the displayed arrangement of pins is recommended. This arrangement makes it possible to compensate for geometry errors that emerge from production tolerances or thermal expansion:



Configuration with one zero-point clamping system

The centering pin gets the position in all three directions of the Cartesian coordinate system X, Y and Z. As a result, it forms the zero-point for the device to be secured in place.



Configuration with two zero-point clamping systems

The sword pin can compensate for a change in length in one direction while absorbing the forces in the other two directions. It must be positioned so that is can support the moments applied around the centering pin in the Z direction.



Configuration with four or more zero-point clamping systems

The retention pin can only absorb forces in the Z direction. It compensates for changes in length in the X and Y direction.

PRODUCT ADVANTAGES

Patented locking piston

Stainless

The housing parts are made of stainless steel – contact parts are hardened and thus wear-free

Integrated rotation prevention as standard

A drive pin can be inserted into the clamping module to counteract torque in the direction of the plunger axis.

Easy insertion of the clamping pins due to optimum, conical lead-in chamfers

Burring is prevented

The pin will be centered automatically even if positioned at a slant

Integrated flat-surface cleaning for models with positioning check

	Min. operating pressure [bar]	Clamping force [kN]	Clamping force with PLUS connection [kN]	Rotation prevention	Positioning check	Flat-surface cleaning
SPN060EL	4 / 6	2.5 / 4	4.5 / 7.5	•		
SPN060EL with positioning check	4 / 6	2.5 / 4	4.5 / 7.5	•	•	•
SPN110EL	4 / 6	4 / 7	10 / 15	•		
SPN110EL with positioning check	4 / 6	4 / 7	10 / 15	•	•	•
SPN138EL	4 / 6	9/18	22.5 / 42	•		
SPN138EL with positioning check	4 / 6	9/18	22.5 / 42	•	•	•
SPN195EL	4 / 6	20/30	50 / 80	•		
SPN195EL with positioning check	4 / 6	20/30	50 / 80	•	•	•

APPLICATION EXAMPLES



Machining center

Exchangeable assemblies



Clamping plate in a metal-cutting machine

OUR EXPERTISE – YOUR ADVANTAGES

- Short machine setup times as a result of a significantly shortened changeover process
- An accelerated clamping procedure compared to traditional clamping methods
- Tool savings (centering ring/thermal insulation panel)
- A more cost-effective solution than comparable competing systems
- The use of thermal insulation panels and aluminum tools is possible
- Low height of the changing device: 30 mm or 36 mm with thermal insulation panels
- Existing tools can be retrofitted easily
- Secure and precise change process and easy tool storage

MINIMAL MACHINE SETUP TIMES – MAXIMUM PRODUCTIVITY

In modern production processes, factors like efficiency and flexibility are increasingly important. This poses a neverending challenge to injection molding companies who want to fulfill an increasing number of requests for smaller batch sizes, lower inventories and just-in-time deliveries. Minimizing machine setup times and saving time in the retooling process are major factors in achieving flexible production processes, bringing greater productivity and value to mature operations.



MACHINE TOOLING TECHNOLOGY MOTOR SPINDLES

1 Motor spindles

As key components in machining centers, machine tools and end-of-arm applications, guarantee optimal value creation thanks to maximum precision, productivity, availability and a long service life. They are critical for the performance of the machine and the quality of machined pieces. Compact power packages with high power density and high-precision bearings are essential for achieving high speeds and excellent true-running characteristics. The Zimmer Group product line comprises both air and fluid-cooled motor spindles for wood, aluminum and plastics processing as well as fluid-cooled motor spindles for metal cutting. The spindles stand out for their extremely high reliability, superior power density and a wide range of compatibility.



it is necessary to rotate a workpiece or tool in position. The requirements for C-axes are varied: The focus lies on fast, precise movement, uniform motion, high repeatability, precise end position damping and low maintenance requirements.

3 Tool

Tool interface on high-frequency spindles compatible with all conventional market standards, e.g. HSK F63, HSK C32 or Solidfix S3.

MACHINE TOOLING TECHNOLOGY MOTOR SPINDLES



* wood, plastic head, lightweight metal and composite







SYSTEM TECHNOLOGY TECHNOLOGY HIGHLIGHTS

ZIMMER GROUP IS ONE OF THE LEADING SPECIALISTS IN THE AREA OF SYSTEMS SOLU-TIONS IN THE WORLD. WE OFFER YOU SOPHISTICATED SYSTEM SOLUTIONS FOR ALMOST EVERY TASK, IN VIRTUALLY ALL INDUSTRIES AND APPLICATIONS. IT DOESN'T MATTER IF IT IS A SIMPLE GRIPPER AND HANDLING SOLUTIONS OR A COMPLEX SYSTEM SOLUTION.

As an industry partner with many years of experience, we are intimately familiar with the requirements of modern production systems, whether in mechanical engineering, the automotive and supplier industries, foundries or in the electronics, plastics or the consumer goods sectors. Zimmer system solutions allow us to equip any make of robot optimally and significantly increase the functionality and efficiency of your robots. The extensive expert solutions of our System Technology department, with their experienced team of project engineers, designers and manufacturers, has been valued by our customers for 30 years. Our systems are the result of a close collaboration with end customers and integrators built on trust. Zimmer System Technology has specially tailored production and assembly areas with a high degree of production depth. This means that we can guarantee flexible, quick implementation of your project at any time. The Zimmer Group has traditionally worked for a series of core industries that have benefited from our extensive experience and recognized development expertise for decades. We would be happy to speak with you about specific applications in new growth industries. We are well equipped for the development of new concepts. Together, we will be able to find the right solutions.

WE DESIGN, ASSEMBLE, CHECK AND DOCUMENT CONNECTION-READY SYSTEM SOLU-TIONS. WE ARE NEVER SATISFIED WITH JUST FINDING ANY SOLUTION. INSTEAD, WE AIM TO FIND THE BEST SOLUTION FOR EACH CUSTOMER.

- > Connection-ready system solutions reduce your design and project-management costs
- Developed specifically for your application
- 100 % tested
- Included detailed documentation
- Our experience from executing more than 7,000 system solutions ensures that you get the functionality you need without compromising cost security
- 10 million maintenance-free cycles provide maximum system availability
- Optimized dimensioning of components reduces gripper weight, optimizes dimensioning of the robot itself and thereby minimizes cycle times
- Implementation of additional functions like cameras, sensors, measurement sensors and screw functions reduces your costs and optimizes your application

SYSTEM SHOWROOM

Over the years, our designers have implemented over 7,000 custom-made and standardized system solutions. Our online showroom can give you an overview on the wide variety of these solutions, which will allow you to considerably reduce your design and production costs. Take a look and discover what the Zimmer Group can make possible!



SYSTEM TECHNOLOGY AUTOMOTIVE INDUSTRY



Our system solutions have been used by all major automobile manufacturers for decades. First and foremost, our portfolio includes gripping and handling solutions for all areas of the power train, for example, camshafts and crankshafts, cylinder blocks and heads, gear and chassis parts, as well as tires, wheels and rims. Zimmer Group's System Technology also offers solutions for the production of electric vehicles, such as handling and assembly tasks for the fully-automatic production of battery cells and battery packs.



Gripping system for motor blocks (600 kg each) / loading and unloading of assembly stations

SYSTEM TECHNOLOGY CONSUMER GOODS INDUSTRY



The production of consumer goods in areas with high wages can only be made profitable with a high degree of automation. Here, Zimmer Group's system solutions provide a crucial contribution to efficient production. Whether in the drink and food industry or the medical and pharmaceutical industry, whether during packaging, palletizing or filling, you can package coffee capsules, handle yogurt cups or palletize chocolate cartons, for example, in cycles that last mere seconds on our hygienic, high-speed systems.



Gripping system for yogurt cups (varying diameters) / removal from deep-draw machine and packaging into boxes

SYSTEM TECHNOLOGY ELECTRONICS INDUSTRY



The electronics industry is characterized by the highest degree of cost pressure and very short product life cycles. The fastest cycle times and production facilities with the highest availability are understandably necessary here, and are the key to commercial success. Whether in the production of cell phones, the installation of power electronics, the electrification of drive trains or in custom device construction, the Zimmer Group supports you with competent engineering and state-of-the-art production.



Robots for handling circuit boards in the electronics industry

SYSTEM TECHNOLOGY MACHINE TOOL INDUSTRY



The tooling machine trend is also going in the direction of increasing automation. We offer you space-saving automation solutions on robots, machines or directly in the work area. Featuring, of course, components that are perfectly sealed against chips and cooling lubricants. You receive automation solutions from Zimmer Group that integrate seamlessly into your existing machines and systems and deliver strong performance – even under difficult working conditions.



Gripper system, incl. tool changer for cast parts and deburring spindle / loading and unloading of machining center

SYSTEM TECHNOLOGY PLASTICS INDUSTRY



The plastics industry is shaped by short product life cycles. Tool-specific components must therefore pay themselves off within the shortest amount of time, or be able to be used for the next model line. To that end, we supply you with components like removal grippers, insertion grippers, external feeders and separators that are used on injection molding machines and thermoforming machines. In so doing, we also integrate additional functions into our solutions, such as lettering, test steps or packaging operations.



Gripping system for fuel tanks / loading of various machining stations

SYSTEM TECHNOLOGY FOUNDRY INDUSTRY



The components used in foundries are governed by stringent requirements. They must withstand high temperatures, abrasive dust, aggressive media and loads caused by machining operations. The Zimmer Group has extensive experience in these areas. From handling filigree sand cores to sampling from the glowing blast furnace, our systems deliver maximum performance and master all challenges in automated processes in the foundry and forging industry.



Gripping assembly system for sand cores / removal from core shooter

ZIMMER GROUP SERVICE

DO YOU HAVE A QUESTION OR REQUEST OR ARE YOU INTERESTED IN ADDITIONAL MATE-RIALS RELATED TO OUR TECHNOLOGIES AND COMPONENTS? VISIT OUR WEBSITE, MAKE USE OF OUR DOWNLOADS OR CONTACT US DIRECTLY.

Service

Getting it right from start to finish! We strive to be much more than just a manufacturer of products. Instead, we want to accompany you through the entire product lifecycle, from start to finish. This starts with extensive consultation on the selection of a new product, continues with upkeep and maintenance and includes a hotline and repair or replacement. Our team never stops improving how we deliver our service and they continually seek new ways to optimize service through our subsidiaries in the age of globalization.

Service on-site

At your request, our experienced service personnel are happy to visit you on-site to carry out service operations or offer professional consultation.

HOTLINE

Not every concern requires an immediate repair or replacement. Our highly qualified employees are available to you by telephone to provide guidance and resources.

T + 49 7844 9138-2316 service@zimmer-group.com

Service agreements

You are looking for security and support in the lifecycle process to ensure your ability to make long-term plans for your products and production capabilities. We are offering the corresponding service agreements to guarantee that you are not left without support in the event of damage or defects.

Spare parts service

Manufacturer quality at fair prices, discussed and delivered with the appropriate level of skill. That is what we are offering. We know about the life time of machines and, as a rule, take this into account by offering much longer periods of spare part availability than are legally required.



ZIMMER GROUP NOTES

ZIMMER GROUP NOTES

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