

ZIMMER GROUP – THE KNOW-HOW FACTORY

OUR KNOW-HOW FACTORY WORKS WITH ALL INDUSTRIES AND DELIVERS EVERYTHING FROM A SINGLE SOURCE. OUR PRODUCT RANGE IS FAR REACHING, BOTH IN ITS DEPTH AND ITS BREADTH.

DO YOU HAVE A DEVELOPMENT PROBLEM? WE’LL SOLVE IT! SET US A CHALLENGE IN RESEARCH AND DEVELOPMENT. COUNTLESS INNOVATIONS ORIGINATE FROM OUR COMPANY. WE ARE ENTHUSIASTIC ABOUT NEW PRODUCTS AND PRIDE OURSELVES ON OUR CORPORATE PIONEERING SPIRIT.

CONTACT – WORLDWIDE

With our current 19 global subsidiaries and partners in over 125 countries, we offer the excellent service of a technology leader. We look forward to hearing from you!

www.zimmer-group.com/en-us/contact

HERE FOR YOU 24/7/365 –
OUR VIRTUAL TRADE SHOW BOOTH

With impressive features such as an animated camera flight, clickable information hotspots and 3D models that can be rotated, we guarantee that you will be thrilled—virtually.

www.zimmer-group.com/en-us/expo

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Vacuum
technology

Overview

THE KNOW-HOW FACTORY

www.zimmer-group.com



VACUUM COMPONENTS
VACUUM TECHNOLOGY

GRIPPING SOLUTIONS THAT HOLD SECURELY!

With our variety of vacuum components, we have the right solution for all of your applications. From individual components to comprehensive all-in-one systems. Our product portfolio includes everything from simple vacuum suction cups and complex gripper systems to modular quick-change systems such as Smart Cup and Magic Cup. Modular quick-change systems enable uncomplicated customization, while all-in-one solutions offer seamless integration into existing production processes.

This means that vacuum applications can be optimally tailored to your individual requirements, guaranteeing maximum flexibility and efficiency. You can also use the product configurator to find the perfect solution for your requirements.



COMPREHENSIVE PRODUCT RANGE
OUR KNOW-HOW – YOUR ADVANTAGES

Maximum efficiency – Using our advanced technologies, you can accelerate your processes and increase your productivity.

The highest level of precision – Our products guarantee precise handling and processing, which are essential for demanding tasks.

Reliability – High-quality materials and innovative engineering ensure a long service life and low maintenance costs.

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|---------------------------|---------------------------|
| 1 Vacuum suction device | 5 Vacuum generator |
| 2 Magic Cups | 6 Smart Cups / Smart Lock |
| 3 Magic Gripper | 7 Vacuum accessories |
| 4 Vacuum gripping systems | |



VACUUM TECHNOLOGY

SERIES AT A GLANCE

FLAT SUCTION CUP		
ROUND		
	ZU Diameter: Material:	1.5 mm–80 mm NBR, silicone, silicone (food-safe)
	ZFCF Diameter: Material:	30 mm–125 mm NBR, polyurethane, silicone
	ZF Diameter: Material:	15 mm–300 mm NBR, polyurethane, silicone, silicone (food-safe)
	ZLF Diameter: Material:	150 mm–300 mm NBR, silicone
OVAL		
	ZOU Diameter: Material:	4 x 10 mm–20 x 60 mm NBR, silicone, silicone (food-safe)
BELLOWS SUCTION CUP		
ROUND		
	ZB Diameter: Material:	5 mm–150 mm NBR, polyurethane, silicone, silicone (food-safe)
	ZBU Diameter: Material:	35 mm–55 mm NBR, polyurethane, silicone, silicone (food-safe)
	ZBX Diameter: Material:	35 mm–55 mm Polyurethane
	ZBF Diameter: Material:	25 mm–100 mm NBR, polyurethane, silicone
	ZBL Diameter: Material:	10 mm–50 mm NBR, silicone, silicone (food-safe)
	ZBFL Diameter: Material:	50 mm NBR, silicone, silicone (food-safe)
OVAL		
	ZOBF Diameter: Material:	30 x 60 mm–55 x 110 mm Polyurethane
	ZOBL Diameter: Material:	35 x 90 mm NBR, silicone, silicone (food-safe)

BELL-SHAPED SUCTION CUP		
ROUND		
	ZFC Diameter: Material:	50 mm–100 mm NBR, polyurethane, silicone, silicone (food-safe)
	ZD Diameter: Material:	30 mm–90 mm NBR, polyurethane, silicone, silicone (food-safe)
	ZDF Diameter: Material:	25 mm–100 mm Polyurethane
OVAL		
	ZOC Diameter: Material:	11 x 23 mm–60 x 180 mm NBR, polyurethane, silicone
SEALING FOAM SUCTION CUP		
ROUND		
	ZS Diameter: Material:	35 mm–400 mm EPDM
MAGIC CUP		
	Magic Cup Diameter: Material:	15 mm–85 mm NBR, silicone, silicone (food-safe), polyurethane, EPDM
MAGIC GRIPPER		
	MG Volume flow: Max. vacuum level:	up to 146 l/min up to -94 kPa
	Profile system 4 different versions With internal compressed air supply	
SMART CUPS		
	ZSC Diameter: Material:	25 mm–125 mm Polyurethane
Quick-change system with optimal ball joint and spring plunger		
SMART LOCK		
	ZSL Lockable spring plunger that can set the stroke thanks to Dual-Lock technology.	

VACUUM GRIPPER SYSTEMS		
	ZGA Width: Length: Volume flow:	80 mm, 130 mm, 200 mm, 300 mm up to 1,200 mm up to 2,896 l/min
	ZGB Width: Length: Volume flow:	130 mm up to 1,200 mm up to 2,896 l/min
	ZGM Width: Length: Volume flow:	16 mm, 20 mm, 40 mm and 50 mm up to 600 mm up to 724 l/min
VACUUM GENERATOR		
VACUUM EJECTORS		
	ZTP Volume flow: Max. vacuum level:	up to 1,448 l/min up to -92 kPa
	ZPG Volume flow: Max. vacuum level:	up to 343 l/min up to -94 kPa
	ZK Volume flow: Max. vacuum level:	up to 135 l/min up to -92 kPa
	ZMP Volume flow: Max. vacuum level:	up to 5,456 l/min up to -92 kPa
	ZTM Volume flow: Max. vacuum level:	up to 220 l/min up to -85 kPa
	ZCS Volume flow: Max. vacuum level:	up to 40 l/min up to -90 kPa
With integrated spring plunger		
	ZQ Volume flow: Max. vacuum level:	up to 85 l/min up to -90 kPa
	ZPS Volume flow: Max. vacuum level:	up to 175 l/min up to -87 kPa
Can be combined with Magic Cup		
VACUUM CARTRIDGES		
	ZVC Volume flow: Max. vacuum level:	up to 362 l/min up to -95 kPa

VACUUM ACCESSORIES		
FILTER		
	ZVF-IF Filter type: Volumes:	Inline up to 1,200 cm³
	ZVF-MF Filter type: Volumes:	Mega up to 1,200 cm³
	ZVF-PF Filter type: Volumes:	Pump up to 150 cm³
	ZVF-TF Filter type: Volumes:	Tank up to 675 cm³
SENSORS		
	ZSU Type: Monitorable Circuits: Modes:	Digital 8 4
	ZSA Type: Weight:	Digital 0.135 kg
	ZSB Type: Weight:	Digital 0.034 kg
VALVES		
	ZSV Type: Operating pressure: Weight:	Solenoid valve 3– 7 bar 0.08 kg–0.22 kg
CONNECTING ELEMENTS		
	ZLC Stroke: Spring position:	5 mm–70 mm Internal and external

MORE INFORMATION

On our website, you can find more information about our innovative Magic Grippers and Magic Cups, as well as our specially optimized Smart Lock System for the automotive industry.

