



## Handling technology

Gripper series 5000

- + 2-Jaw Parallel Grippers pneumatic
- + 2-Jaw Parallel Grippers electric
- + 3-Jaw Concentric Grippers pneumatic
- + 3-Jaw Concentric Grippers electric
- + 2-Jaw Angular Grippers pneumatic

**THE KNOW-HOW FACTORY**

**THE KNOW-HOW FACTORY**

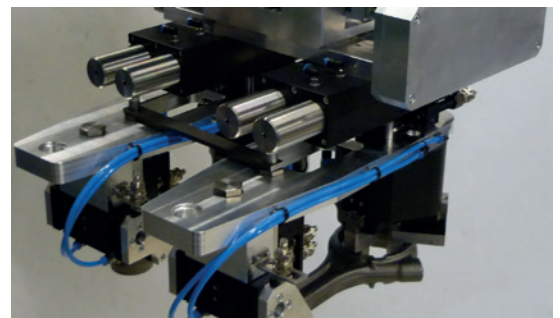
# ZIMMER GROUP COMMITTED TO OUR CUSTOMERS

**WE HAVE SUCCEEDED FOR YEARS BY OFFERING OUR CUSTOMERS INNOVATIVE AND INDIVIDUALIZED SOLUTIONS. ZIMMER HAS GROWN CONTINUOUSLY AND 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 INDUSTRY 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

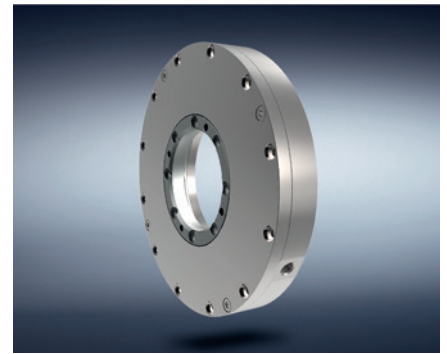
INDUSTRIAL DAMPING TECHNOLOGY AND SOFT CLOSE PRODUCTS EXEMPLIFY THE INNOVATION AND PIONEERING SPIRIT OF THE KNOW-HOW FACTORY.

### 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.



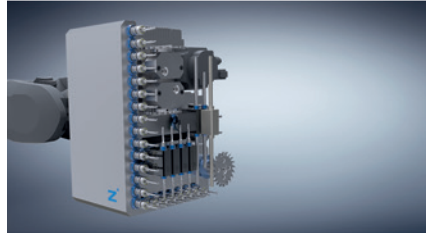
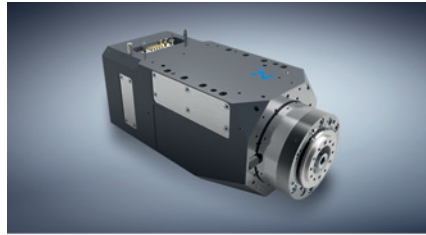
## LINEAR TECHNOLOGY

WE DEVELOP LINEAR COMPONENTS AND SYSTEMS THAT ARE INDIVIDUALLY ADAPTED TO OUR CUSTOMERS' 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 CUSTOMERS 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.

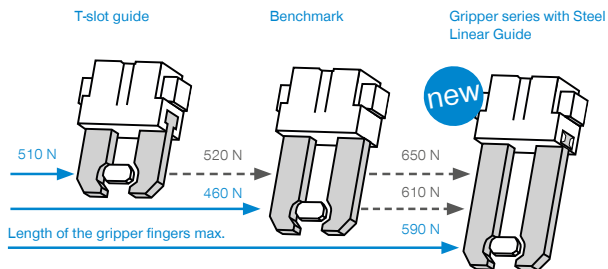
**Customized.** A team made up of more than 20 experienced designers and project engineers develop and produce customized solutions for special tasks in close collaboration with end customers and system integrators. It doesn't matter if it is a simple gripper and handling solution or a complex system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

# PRODUCT BENEFITS

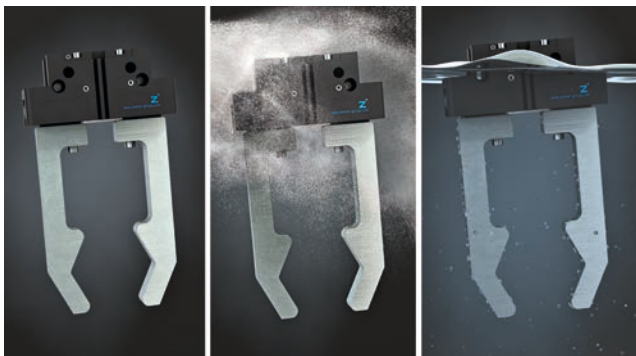
## PRODUCT FAMILY 5000

### Gripper Series 5000



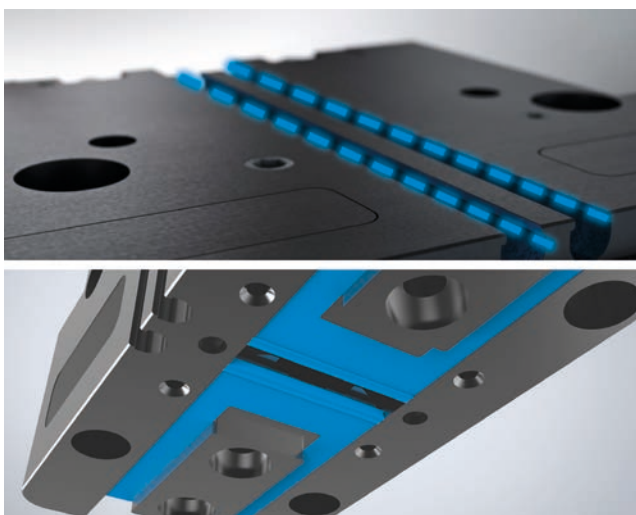
### Is installing the most powerful components important to you?

- ▶ Increase the safety of your machine by installing a gripper from this series
- ▶ It offers you up to 30% higher gripping force and up to 10% higher static forces and moments
- ▶ Using it means you can install gripper fingers that are up to 10% longer than the best-known models in the market
- ▶ And you can be sure that these grippers give you the same performance as electrically driven grippers



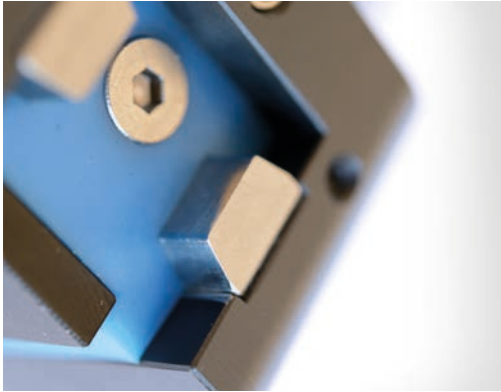
### Do you want to use one gripper for any task?

- ▶ Cut the number of articles you manage
- ▶ And so reduce your design and stock-keeping costs to a minimum
- ▶ The gripper guarantees you process reliability, no matter what the environmental conditions
- ▶ Corrosion protection included
- ▶ Select either a pneumatic or electrical drive, to give you maximum flexibility when creating your design



### Are details important to you?

- ▶ The transverse sensor grooves mean you can change the piston position sensing quickly and easily, wherever the gripper is installed
- ▶ Only one interference contour check required, because a spacer compensates for the height difference between the electrical and pneumatic gripper
- ▶ With additional pin holes underneath the cover plate for customer-specific attachments
- ▶ With integrated lubrication reservoir



### Do you want state-of-the-art technology in your machine?

- ▶ The gripper's Steel Linear Guide combines proven linear guide principles with the very latest sealing and technology
- ▶ You benefit from one of the most robust and longest-lasting grippers currently available on the market, with a maintenance-free working life of up to 30 million cycles

### Do you want a wide range of accessories, perfectly tailored to your gripper?



#### UB universal jaws

Machinable gripper blanks that you can customize specifically for your applications.



#### ZUB compensation module

For compensation of the height difference between pneumatic and electric versions. As a result, only the interference contour must be taken into consideration and your machine design remains flexible.



#### LB L-jaws

Fast and simple way to enable your gripper fingers to also be mounted laterally.



#### ADS pressure piece

You hit the limit stop of the pressure piece when picking up the workpiece. When depositing the workpiece or opening the gripper, the workpiece is fed into a clamping chuck or similar intake via the pretensioned spring.



#### WB interchangeable jaws

For quickly changing individual gripper fingers. A fixed part (on gripper side) and a loose part set (on jaw side) are needed for this.



#### MFSP2 2-position sensor

Space-saving and simple option for querying 2 positions with just one sensor. Quick programming saves time when compared to the setup of conventional sensors.



#### EB adjustment jaws

For tool-free adjustment of the gripping range by moving the locking jaws. Allows for different part sizes to be gripped with just a single set of gripper fingers.



#### DSV pressure safety valve

The safety of your machine design will increase thanks to this pressure safety valve, which prevents the gripper from opening unintentionally in the event of a drop in air pressure.

- ▶ Many more accessories can be found in our main catalog or on our website.

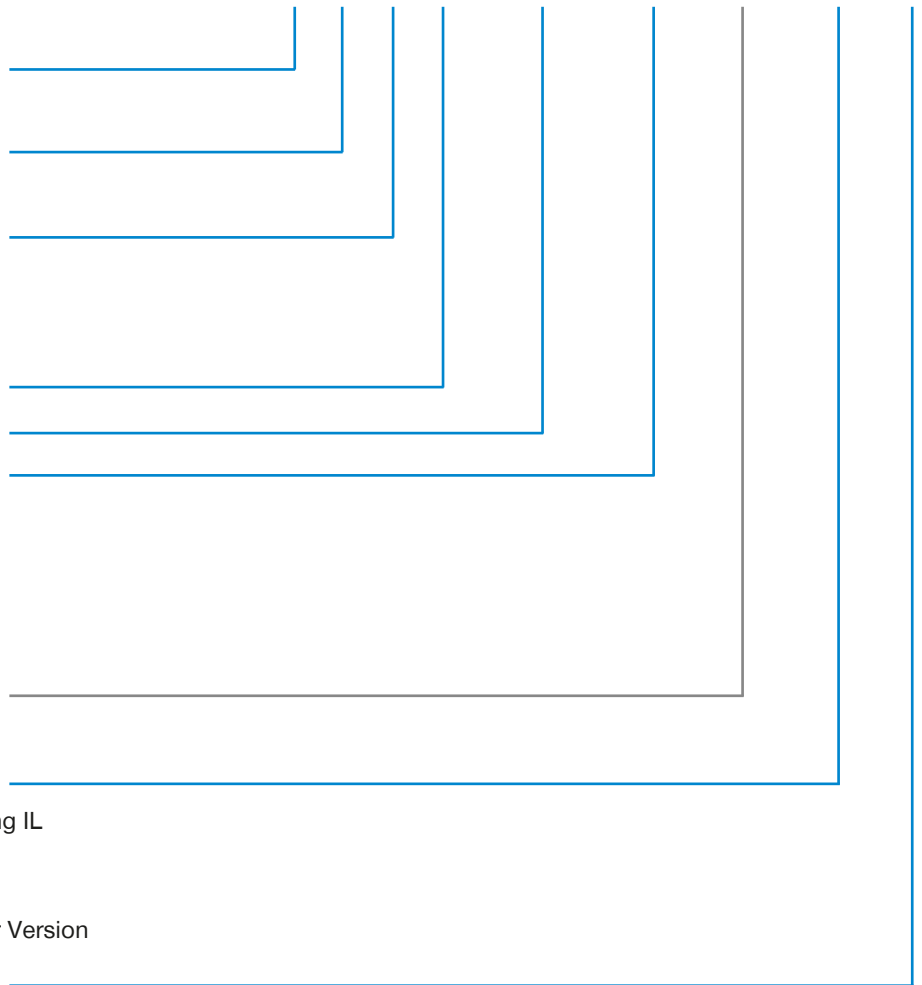
# PRODUCT KEY

## PRODUCT FAMILY 5000

### PNEUMATIC

**G P P 5 0 0 6 NC - IL - 10 - A**

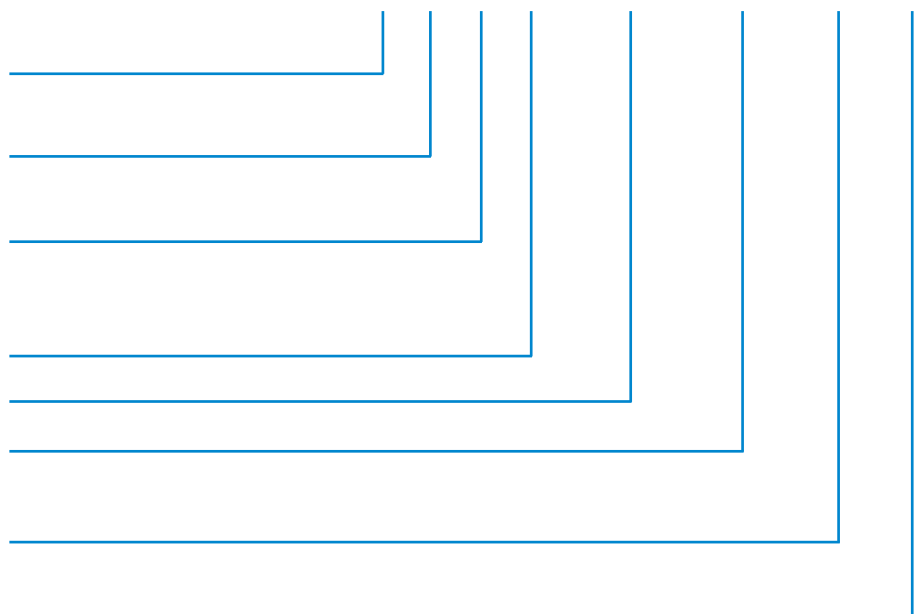
- ▶ **Product**  
G Grippers
- ▶ **Type of drive**  
P Pneumatic
- ▶ **Design**  
P 2-Jaw parallel grippers  
D 3-Jaw concentric grippers  
W 2-Jaw Angular Grippers
- ▶ **Series (AP class)**
- ▶ **Stroke / Installation Size**
- ▶ **N** Normal  
**NC** Normally Closed  
**NO** Normally Open  
**S** Strong  
**SC** Strong Closed  
**SO** Strong Open
- ▶ **Optional**  
IL IO-Link
- ▶ **00** Basis version  
**10** Valves can be activated using IL  
**20** High Temperature Version  
**21** Protector Version  
**24** High Temperature Protector Version
- ▶ **Version**



### ELECTRICAL

**G E P 5 0 0 6 IL - 00 - A**








- ▶ **Product**  
G Grippers
- ▶ **Type of drive**  
E Electrical
- ▶ **Design**  
P 2-Jaw parallel grippers  
D 3-Jaw concentric grippers
- ▶ **Series (AP class)**
- ▶ **Stroke / Installation Size**
- ▶ **IO** Digital  
IL IO-Link
- ▶ **00** Basis version  
**03** Positionable
- ▶ **Version**





# SERIES

## PRODUCT FAMILY 5000

<b>2-JAW PARALLEL GRIPPERS PNEUMATIC</b>			<b>1</b>
	<b>SERIES GPP5000</b>	<b>10</b>	
<b>2-JAW PARALLEL GRIPPERS ELECTRIC</b>			<b>2</b>
	<b>SERIES GEP5000</b>	<b>54</b>	
<b>3-JAW CONCENTRIC GRIPPERS PNEUMATIC</b>			<b>3</b>
	<b>SERIES GPD5000</b>	<b>68</b>	
<b>3-JAW CONCENTRIC GRIPPERS ELECTRIC</b>			<b>4</b>
	<b>SERIES GED5000</b>	<b>110</b>	
<b>2-JAW ANGULAR GRIPPERS PNEUMATIC</b>			<b>5</b>
	<b>SERIES GPW5000</b>	<b>124</b>	
<b>ADJUSTMENT JAWS</b>			<b>6</b>
	<b>EB5000 SERIES</b>	<b>138</b>	
<b>ANGLE FLANGE</b>			<b>7</b>
	<b>SERIES WFR</b>	<b>150</b>	

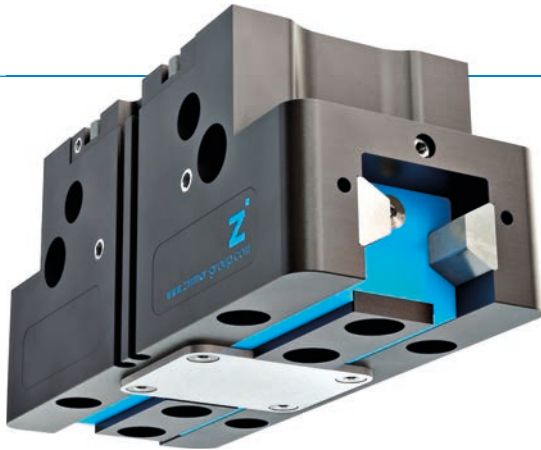
# 2-JAW PARALLEL GRIPPERS

## SERIES GPP5000

1

Series GPP5000 / 2-Jaw Parallel Grippers / pneumatic / Grippers

### ▶ PRODUCT ADVANTAGES



#### “The Universal One”

- ▶ Up to 30% more gripping force than the benchmark
- ▶ 10% more static forces and moments than the benchmark
- ▶ Gripper fingers up to 10% longer than the benchmark
- ▶ Gripper fingers weight up to 15% higher than the benchmark
- ▶ Sealed guide IP64 / Protector version IP67 (with purged air)
- ▶ Protected against corrosion
- ▶ Up to 30 million cycles without maintenance

### ▶ THE BEST PRODUCT FOR YOUR APPLICATION



#### ▶ Our products love the challenge!

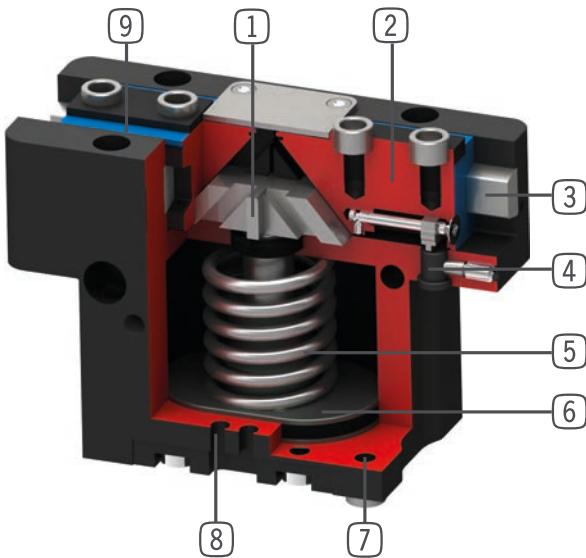
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:  
Find the best product for your specific use:  
[www.zimmer-group.com](http://www.zimmer-group.com)

#### HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GPP5010	<input type="checkbox"/>	<input type="checkbox"/>	- <input type="checkbox"/>	-A
Basis version	N				
High force	S				
For external gripping, self-locking, spring closing			C		
For internal gripping, self-locking, spring opening			O		
temperature-resistant version to 130 °C				20	
Protector version IP67 for use in adverse environments (with purged air)				21	
temperature-resistant protector version IP67 for use in adverse environments (with purged air) to 130 °C				24	

## ► BENEFITS IN DETAIL



- ① **Wedge hook mechanism**
  - Supports to absorb high forces and moments
  - Synchronized gripper jaw movement
- ② **Gripper jaw**
  - Gripper fingers mounted using removable centring sleeves
  - Lubricated for life via incorporated lubrication slots
- ③ **Steel Linear Guide**
  - Steel in steel guide
  - Enables use of extremely long gripper fingers
- ④ **Mounting block**
  - mounting for inductive proximity switch
- ⑤ **Integrated gripping force safety device**
  - Spring built into cylinder chamber as an energy store
- ⑥ **Drive**
  - Double-acting pneumatic rotor cylinder
- ⑦ **Mounting and positioning**
  - Alternatively, on several sides for customized mounting
  - Pneumatic and electrical versions identical apart from height
- ⑧ **Sensing slot**
  - mounting and positioning of magnetic field sensors
- ⑨ **Dual lip seal**
  - IP64 and up to IP67 (with purged air) for Protector version
  - Prevents grease from being squeezed out, increasing service life

## ► TERMS

<b>Gripping force:</b>	arithmetic sum of the individual forces occurring at the jaws
<b>Closing/opening time:</b>	Time required for the gripper jaws to travel the entire stroke distance
<b>Repeatability:</b>	at end stops after 50/100 consecutive cycles
<b>Cycle:</b>	Path that the pistons travel for a complete opening and closing movement
<b>Maintenance:</b>	recommended at 30 mil. cycles (please see the installation instructions, download from <a href="http://www.zimmer-group.com">www.zimmer-group.com</a> )

# 2-JAW PARALLEL GRIPPERS

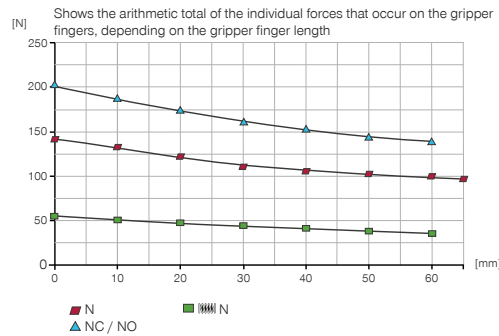
## INSTALLATION SIZE GPP5003

1

### ▶ PRODUCT SPECIFICATIONS

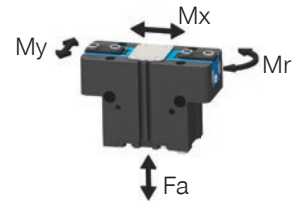


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	7
Mx [Nm]	14
My [Nm]	13
Fa [N]	550

### ▶ TECHNICAL DATA

Order no.	▶ Technical Data*		
	GPP5003N-00-A	GPP5003NC-00-A	GPP5003NO-00-A
Stroke per jaw [mm]	2.5	2.5	2.5
Gripping force in closing [N]	140	195	
Gripping force in opening [N]	150	150	205
Gripping force secured by spring min. [N]		55	55
Closing time [s]	0.01	0.01	0.025
Opening time [s]	0.01	0.025	0.01
Permissible weight per jaw max [kg]	0.12	0.12	0.12
Length of the gripper fingers max. [mm]	65	60	60
Repetition accuracy +/- [mm]	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4
Operating pressure max. [bar]	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	2.1	4.8	4.8
Protection to IEC 60529	IP64	IP64	IP64
Weight [kg]	0.08	0.1	0.1

Order no.	▶ Technical Data - High Temperature Version		
	GPP5003N-20-A	GPP5003NC-20-A	GPP5003NO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130

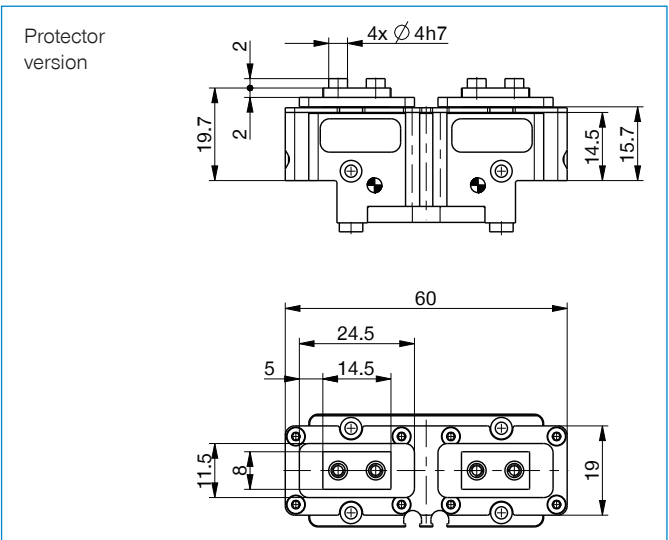
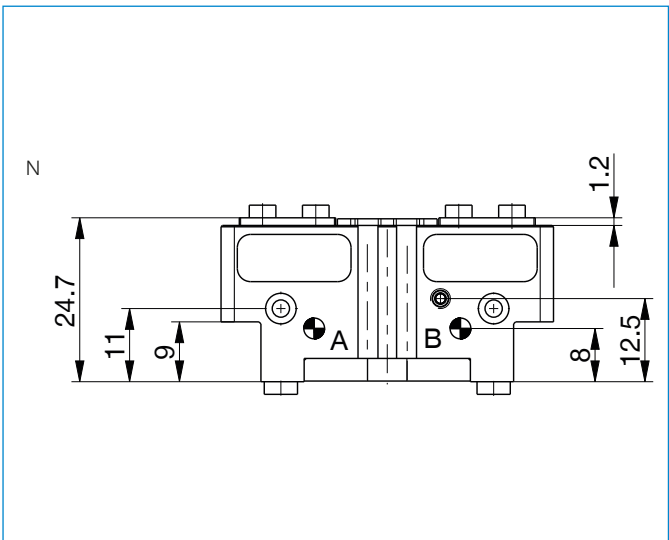
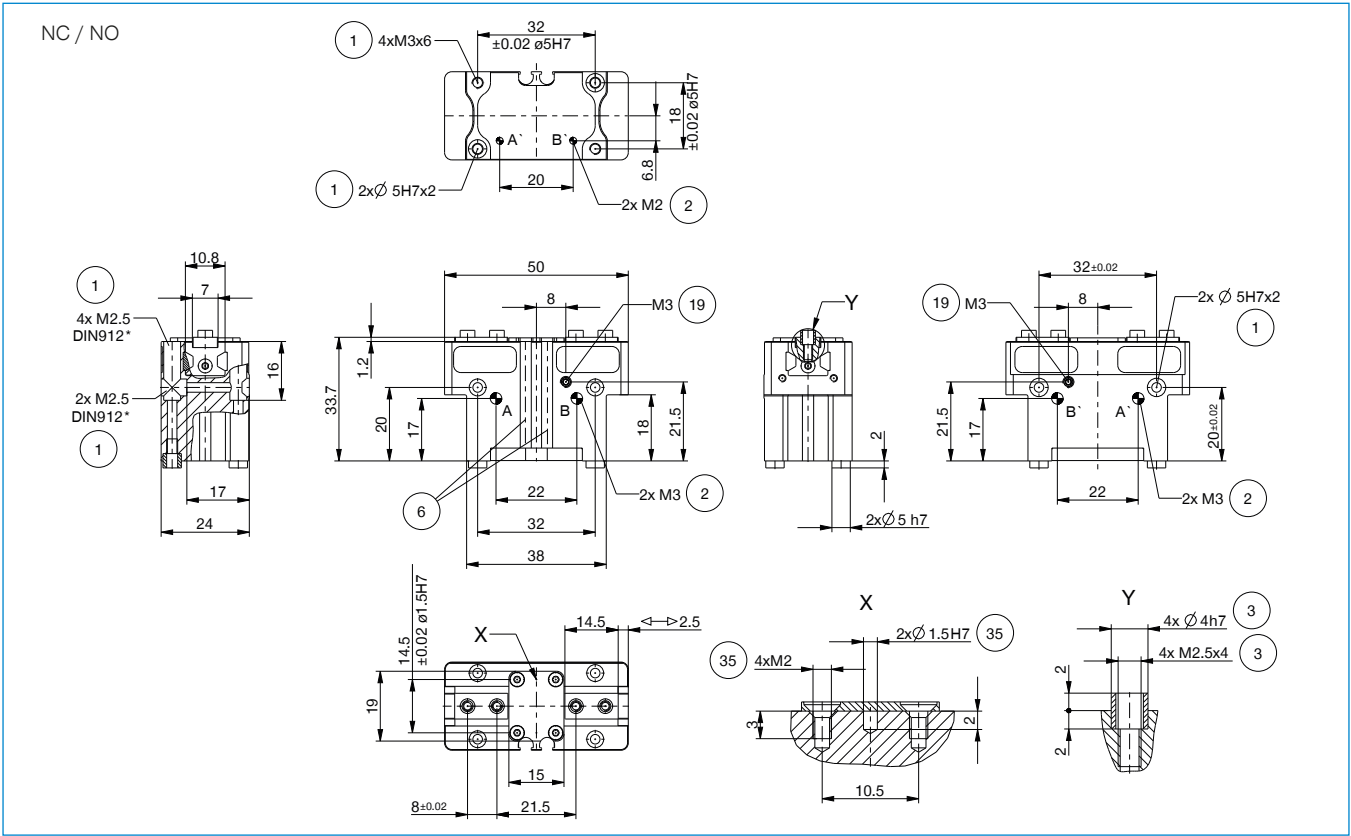
Order no.	▶ Technical Data - Protector Version		
	GPP5003N-21-A	GPP5003NC-21-A	GPP5003NO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**
Weight [kg]	0.1	0.12	0.12

Order no.	▶ Technical Data - High Temperature Protector Version		
	GPP5003N-24-A	GPP5003NC-24-A	GPP5003NO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**
Weight [kg]	0.1	0.12	0.12

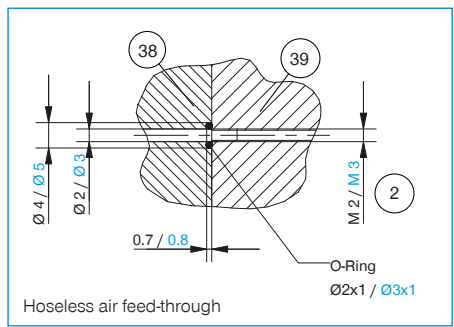
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

► TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉕ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

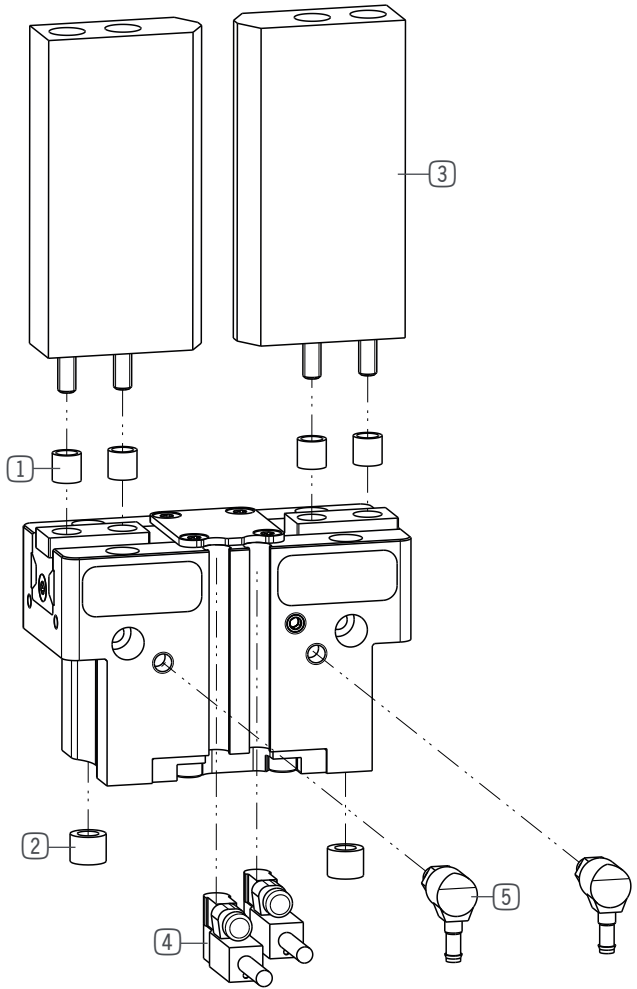


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5003

1

Installation size GPP5003 / 2-Jaw Parallel Grippers / pneumatic / Grippers



### ▶ INCLUDED IN DELIVERY



Centering Disc

DST06510



Centering Disc

015761

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5003AL**



Universal jaw steel

**UB5003ST**



Rubber Coated Tape Knobbed

**KF50N**



Aluminum adjustment jaw

**EB5003AL**



Steel adjustment jaw

**EB5003ST**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Plug-in connector customizable Straight - Connector M8

**S8-G-3**



Plug-in connector customizable Straight - Connector M12

**S12-G-3**



Straight Fittings - Barb Style Connection

**GVM3**



Angled Fittings - Barb Style Connection

**WVM3**



Quick Exhaust Valve

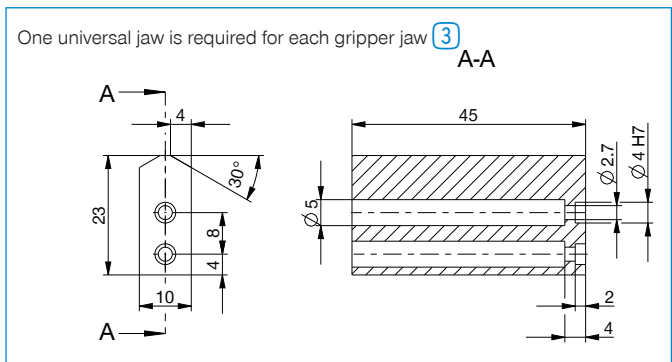
**DEV04**



Pressure Safety Valve

**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



# 2-JAW PARALLEL GRIPPERS

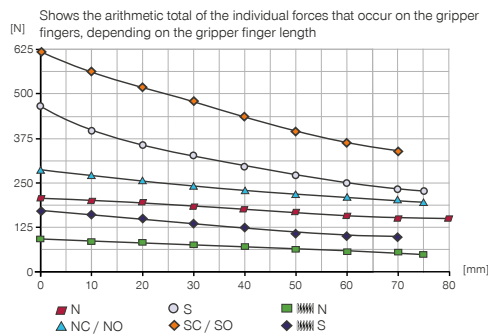
## INSTALLATION SIZE GPP5004

1

### PRODUCT SPECIFICATIONS

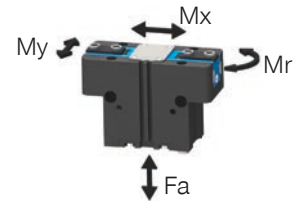


#### Gripping force diagram



#### Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	14
Mx [Nm]	29
My [Nm]	23
Fa [N]	750

### TECHNICAL DATA

Order no.	Technical Data*					
	GPP5004N-00-A	GPP5004NC-00-A	GPP5004NO-00-A	GPP5004S-00-A	GPP5004SC-00-A	GPP5004SO-00-A
Stroke per jaw [mm]	4	4	4	2	2	2
Gripping force in closing [N]	200	280		440	600	
Gripping force in opening [N]	215		295	470		630
Gripping force secured by spring min. [N]		80	80		160	160
Closing time [s]	0.015	0.015	0.025	0.015	0.015	0.025
Opening time [s]	0.015	0.025	0.015	0.015	0.025	0.015
Permissible weight per jaw max [kg]	0.2	0.2	0.2	0.2	0.2	0.2
Length of the gripper fingers max. [mm]	80	75	75	75	70	70
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	5	12	12	5	12	12
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.16	0.21	0.21	0.16	0.21	0.21

Order no.	Technical Data - High Temperature Version					
	GPP5004N-20-A	GPP5004NC-20-A	GPP5004NO-20-A	GPP5004S-20-A	GPP5004SC-20-A	GPP5004SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	Technical Data - Protector Version					
	GPP5004N-21-A	GPP5004NC-21-A	GPP5004NO-21-A	GPP5004S-21-A	GPP5004SC-21-A	GPP5004SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.25	0.3	0.3	0.25	0.3	0.3

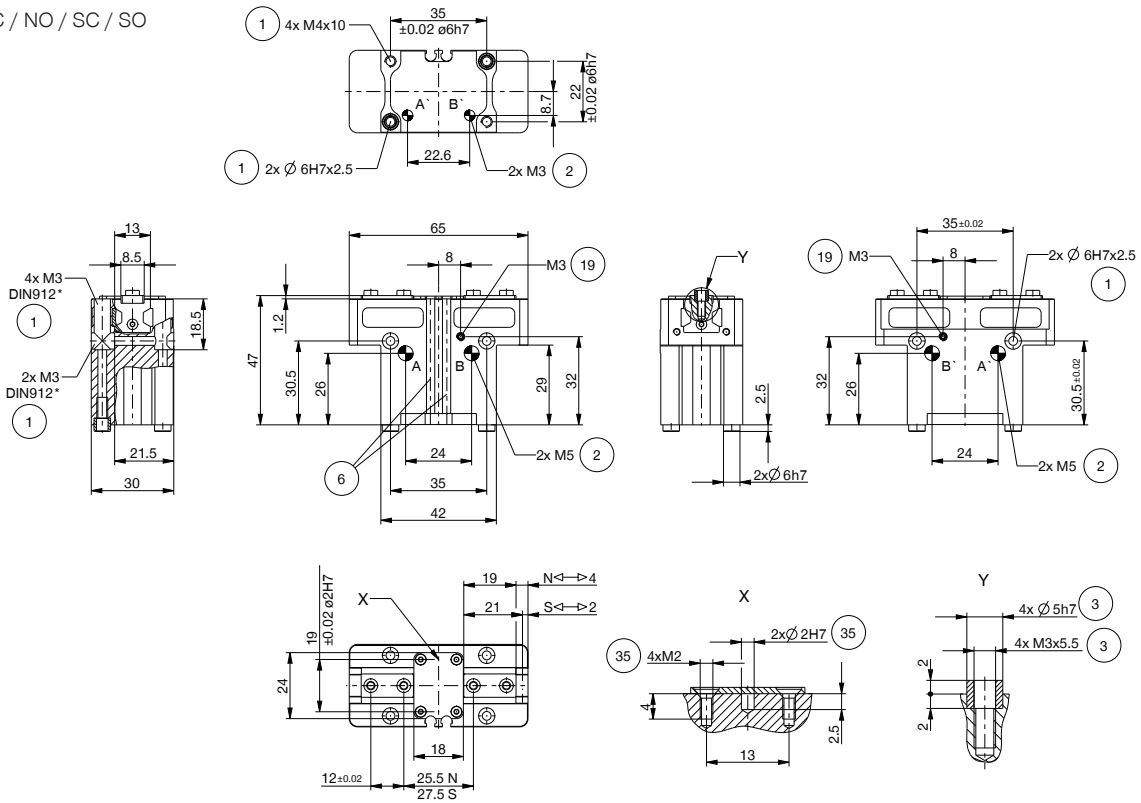
Order no.	Technical Data - High Temperature Protector Version					
	GPP5004N-24-A	GPP5004NC-24-A	GPP5004NO-24-A	GPP5004S-24-A	GPP5004SC-24-A	GPP5004SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.25	0.3	0.3	0.25	0.3	0.3

\*All data measured at 6 bar  
 \*\* with purged air (max. 0,5 bar)

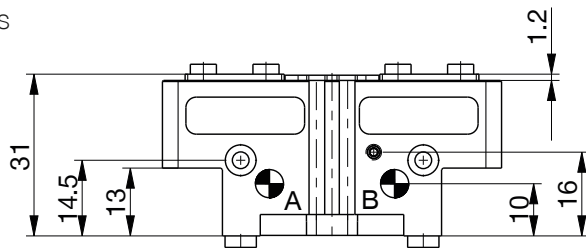


## TECHNICAL DRAWINGS

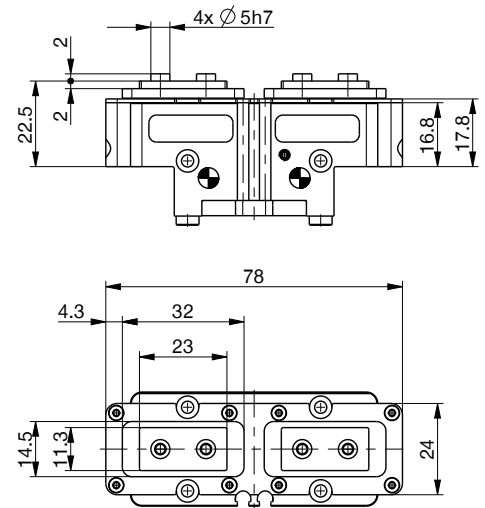
NC / NO / SC / SO



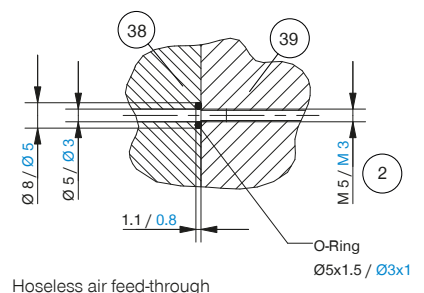
N / S



Protector version



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



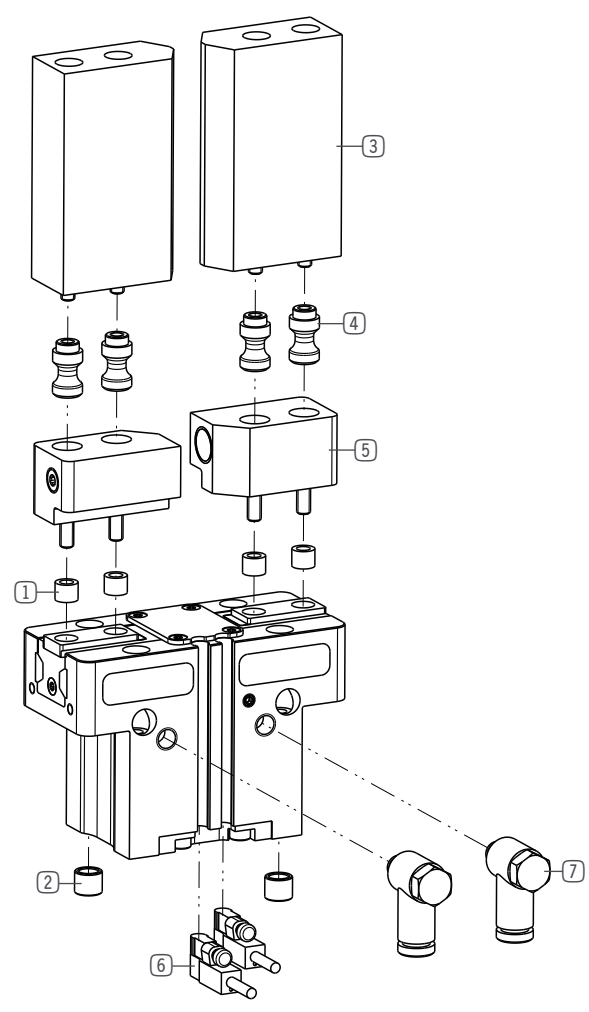
Hoseless air feed-through

# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5004

1

Installation size GPP5004 / 2-Jaw Parallel Grippers / pneumatic / Grippers



### ▶ INCLUDED IN DELIVERY



Centering Disc

015761



Centering Disc

024230

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5004AL**



Universal jaw steel

**UB5004ST**



Aluminum adjustment jaw

**EB5004AL**



Steel adjustment jaw

**EB5004ST**



Changeable jaw, loose-part-set

**WB5004L**



Changeable jaw, fix-part

**WB5004F**



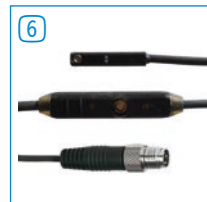
Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Plug-in connector customizable Straight - Connector M8

**S8-G-3**



Straight Fittings - Quick Connect Style

**GVM5**



Angled Fittings - Quick Connect Style

**WVM5**



Quick Exhaust Valve

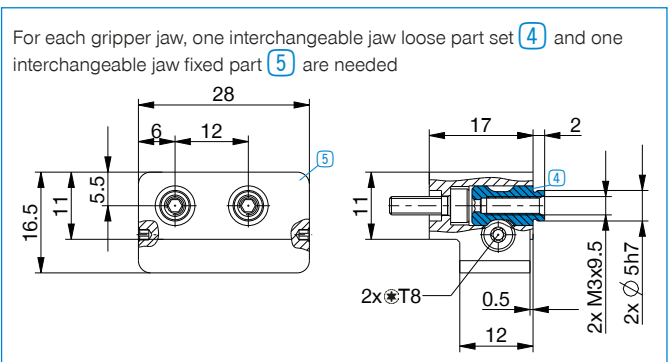
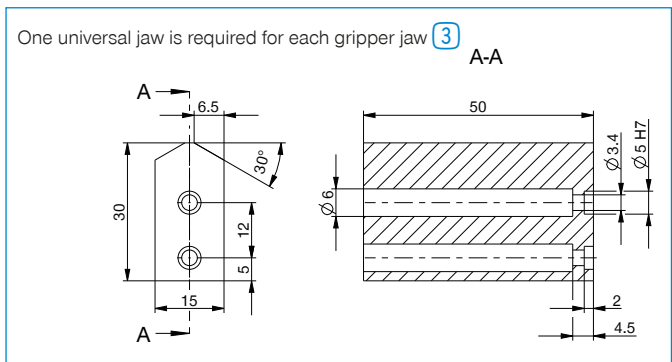
**DEV04**



Pressure Safety Valve

**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



# 2-JAW PARALLEL GRIPPERS

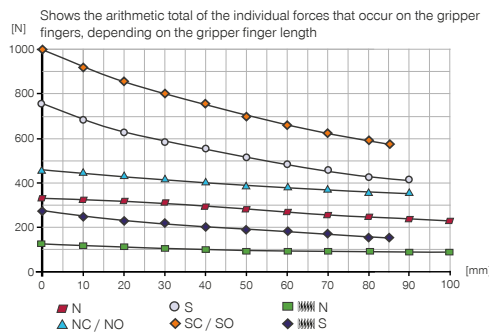
## INSTALLATION SIZE GPP5006

1

### PRODUCT SPECIFICATIONS

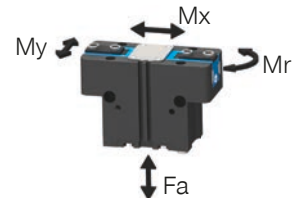


#### Gripping force diagram



#### Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	43
Mx [Nm]	70
My [Nm]	46
Fa [N]	1250

### TECHNICAL DATA

Order no.	Technical Data*					
	GPP5006N-00-A	GPP5006NC-00-A	GPP5006NO-00-A	GPP5006S-00-A	GPP5006SC-00-A	GPP5006SO-00-A
Stroke per jaw [mm]	6	6	6	3	3	3
Gripping force in closing [N]	330	455		740	1020	
Gripping force in opening [N]	360		485	800		1080
Gripping force secured by spring min. [N]		125	125		280	280
Closing time [s]	0.025	0.015	0.035	0.025	0.015	0.035
Opening time [s]	0.025	0.035	0.015	0.025	0.035	0.015
Permissible weight per jaw max [kg]	0.4	0.4	0.4	0.4	0.4	0.4
Length of the gripper fingers max. [mm]	100	90	90	90	85	85
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	11	24	24	11	24	24
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.28	0.35	0.35	0.28	0.35	0.35

Order no.	Technical Data - High Temperature Version					
	GPP5006N-20-A	GPP5006NC-20-A	GPP5006NO-20-A	GPP5006S-20-A	GPP5006SC-20-A	GPP5006SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	Technical Data - Protector Version					
	GPP5006N-21-A	GPP5006NC-21-A	GPP5006NO-21-A	GPP5006S-21-A	GPP5006SC-21-A	GPP5006SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.37	0.44	0.44	0.37	0.44	0.44

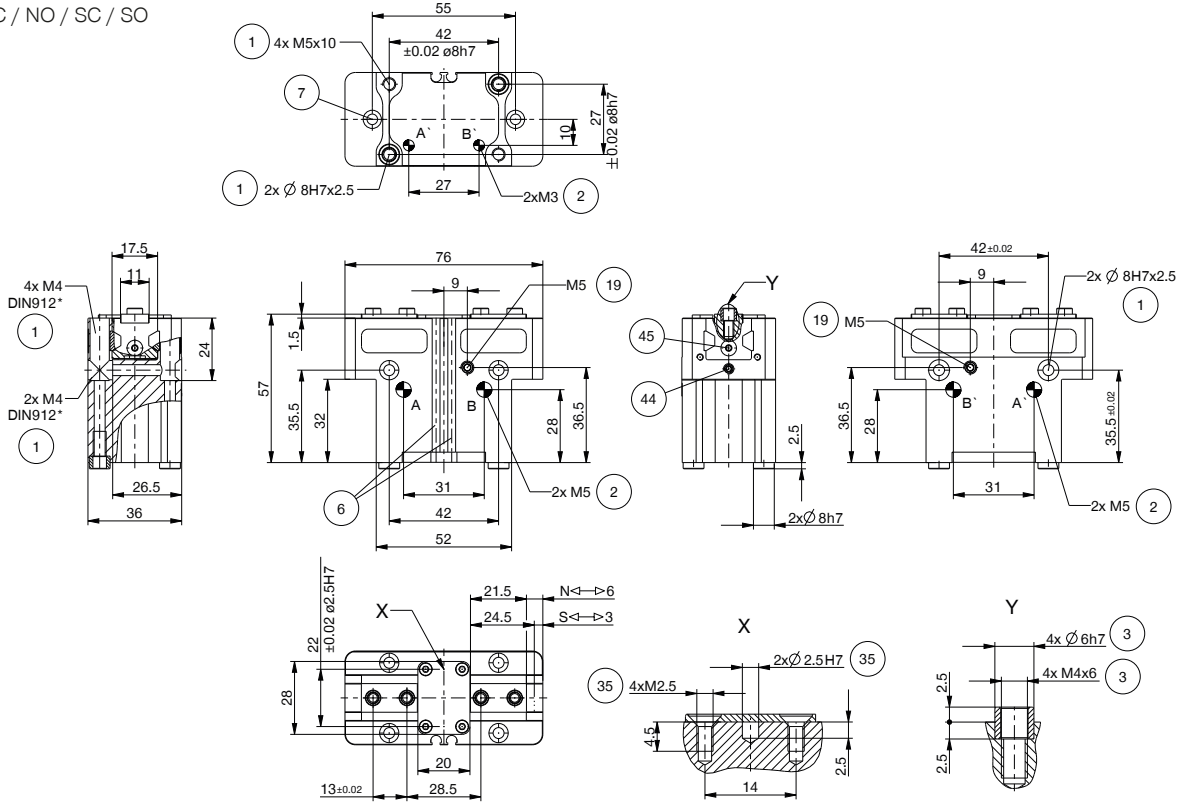
Order no.	Technical Data - High Temperature Protector Version					
	GPP5006N-24-A	GPP5006NC-24-A	GPP5006NO-24-A	GPP5006S-24-A	GPP5006SC-24-A	GPP5006SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.37	0.44	0.44	0.37	0.44	0.44

\*All data measured at 6 bar

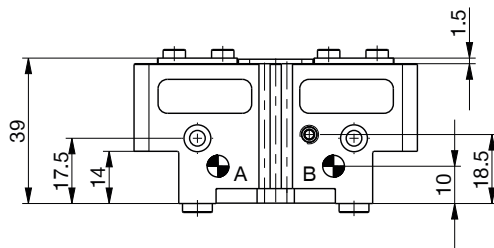
\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

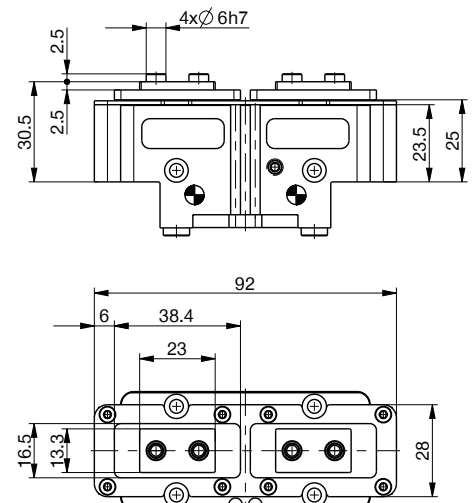
NC / NO / SC / SO



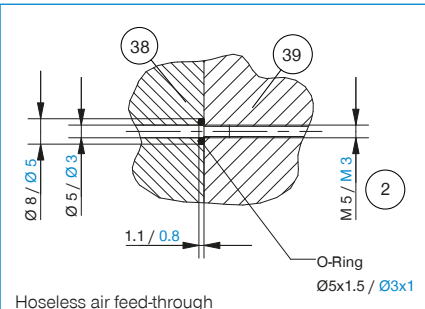
N / S



Protector version



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

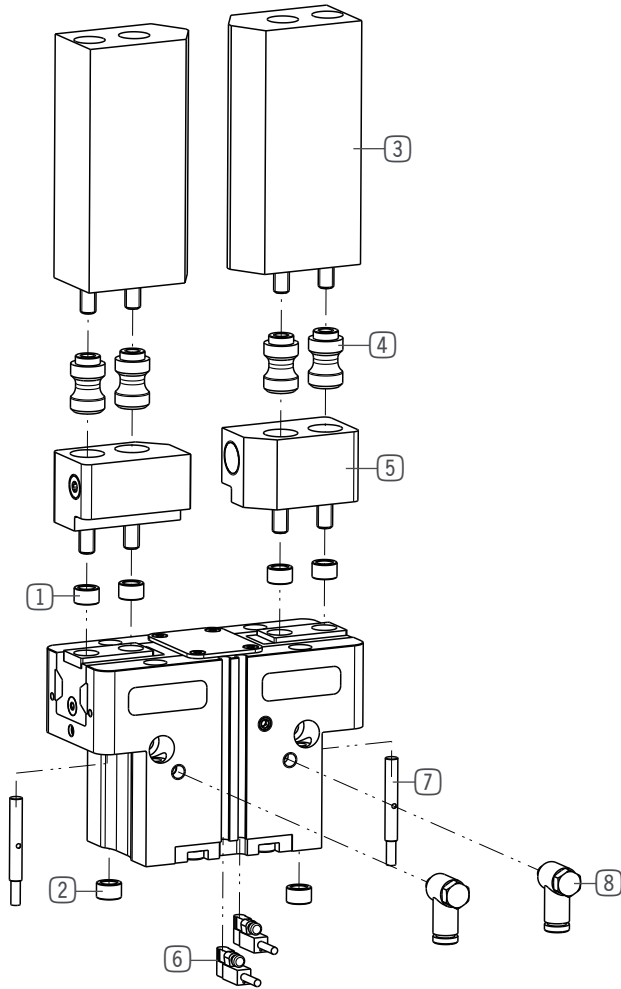


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5006

1

Installation size GPP5006 / 2-Jaw Parallel Grippers / pneumatic / Grippers



### INCLUDED IN DELIVERY



Centering Disc

024230



Centering Disc

024231

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5006AL**



Universal jaw steel

**UB5006ST**



Aluminum adjustment jaw

**EB5006AL**



Steel adjustment jaw

**EB5006ST**



Changeable jaw, loose-part-set

**WB5006L**



Changeable jaw, fix-part

**WB5006F**



Inductive Proximity Switch Cable 0,3 m - Connector M8

**NJ4-E2SK-01**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



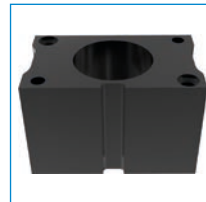
Angled Fittings - Quick Connect Style

**WVM5**



Pressure Safety Valve

**DSV1-8**



Compensation module N / S

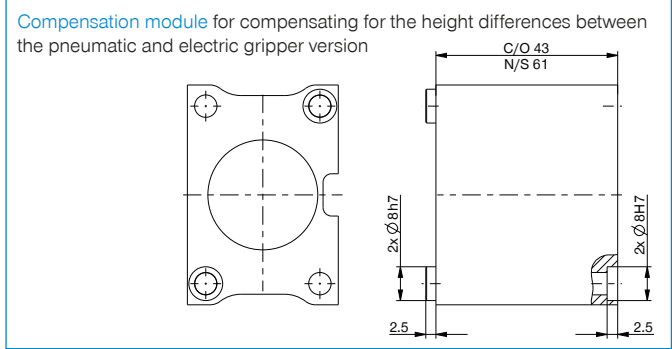
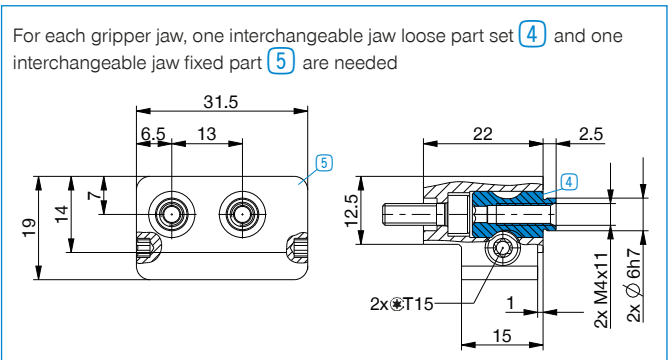
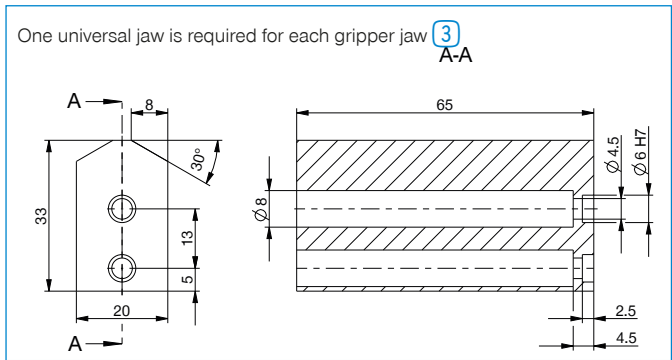
**ZUB5006PNS**



Compensation module NC / NO / SC / SO

**ZUB5006PCO**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



# 2-JAW PARALLEL GRIPPERS

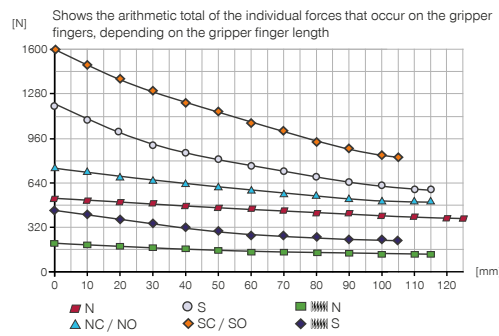
## INSTALLATION SIZE GPP5008

1

### PRODUCT SPECIFICATIONS

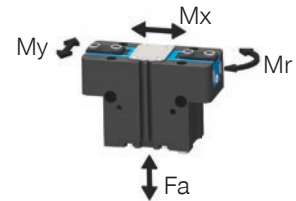


#### Gripping force diagram



#### Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
Mx [Nm]	105
My [Nm]	65
Fa [N]	1900

### TECHNICAL DATA

Order no.	Technical Data*					
	GPP5008N-00-A	GPP5008NC-00-A	GPP5008NO-00-A	GPP5008S-00-A	GPP5008SC-00-A	GPP5008SO-00-A
Stroke per jaw [mm]	8	8	8	4	4	4
Gripping force in closing [N]	520	710		1150	1580	
Gripping force in opening [N]	560		750	1240		1670
Gripping force secured by spring min. [N]		190	190		430	430
Closing time [s]	0.035	0.025	0.045	0.035	0.025	0.045
Opening time [s]	0.035	0.045	0.025	0.035	0.045	0.025
Permissible weight per jaw max [kg]	0.7	0.7	0.7	0.7	0.7	0.7
Length of the gripper fingers max. [mm]	125	115	115	115	105	105
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	22	43	43	22	43	43
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.53	0.63	0.63	0.53	0.63	0.63

Order no.	Technical Data - High Temperature Version					
	GPP5008N-20-A	GPP5008NC-20-A	GPP5008NO-20-A	GPP5008S-20-A	GPP5008SC-20-A	GPP5008SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	Technical Data - Protector Version					
	GPP5008N-21-A	GPP5008NC-21-A	GPP5008NO-21-A	GPP5008S-21-A	GPP5008SC-21-A	GPP5008SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.66	0.76	0.76	0.66	0.76	0.76

Order no.	Technical Data - High Temperature Protector Version					
	GPP5008N-24-A	GPP5008NC-24-A	GPP5008NO-24-A	GPP5008S-24-A	GPP5008SC-24-A	GPP5008SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.66	0.76	0.76	0.66	0.76	0.76

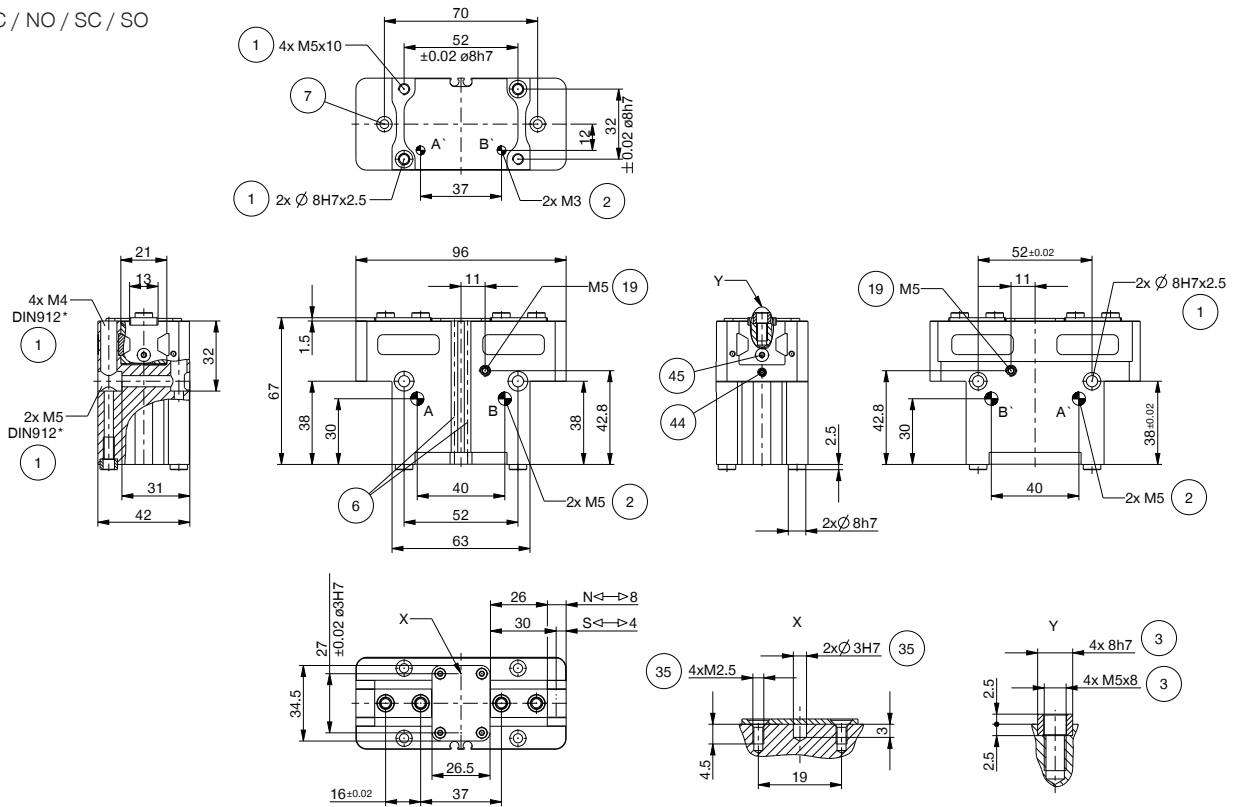
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

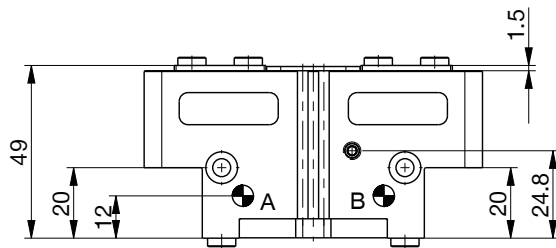


## TECHNICAL DRAWINGS

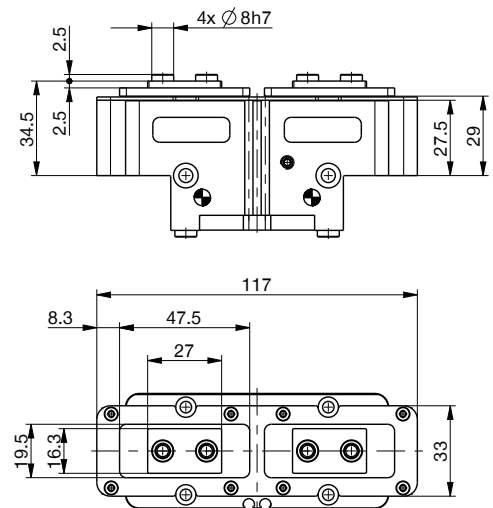
NC / NO / SC / SO



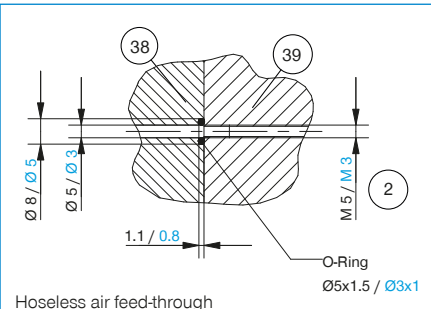
N / S



Protector version



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

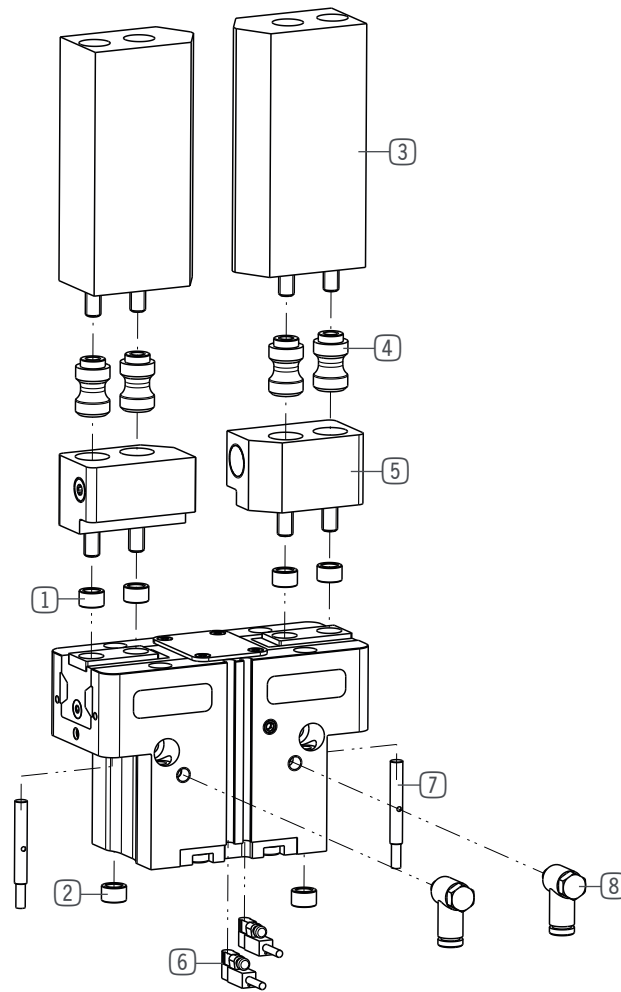


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5008

1

Installation size GPP5008 / 2-Jaw Parallel Grippers / pneumatic / Grippers



### ▶ INCLUDED IN DELIVERY



Centering Disc

024231

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5008AL**



Universal jaw steel

**UB5008ST**



Aluminum adjustment jaw

**EB5008AL**



Steel adjustment jaw

**EB5008ST**



Changeable jaw, loose-part-set

**WB5008L**



Changeable jaw, fix-part

**WB5008F**



Inductive Proximity Switch Cable 0,3 m - Connector M8

**NJ4-E2SK-01**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



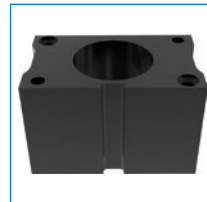
Angled Fittings - Quick Connect Style

**WVM5**



Pressure Safety Valve

**DSV1-8**



Compensation module N/S

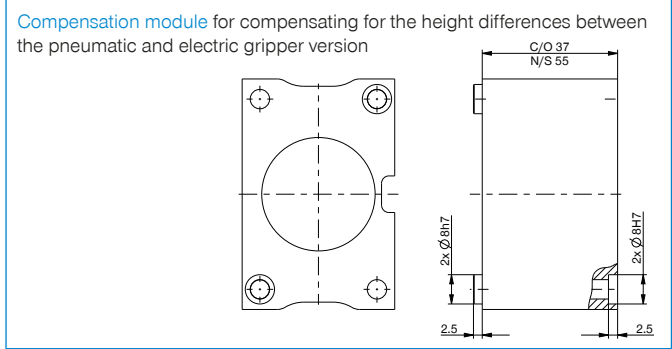
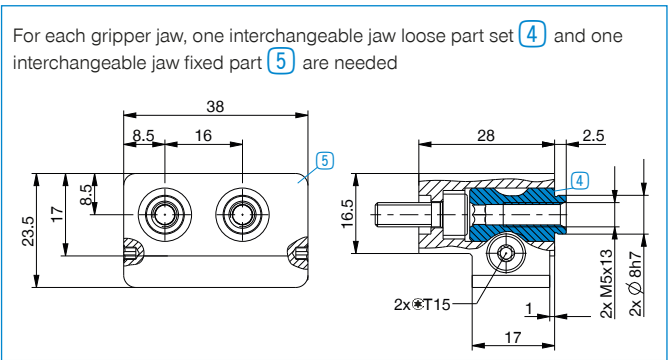
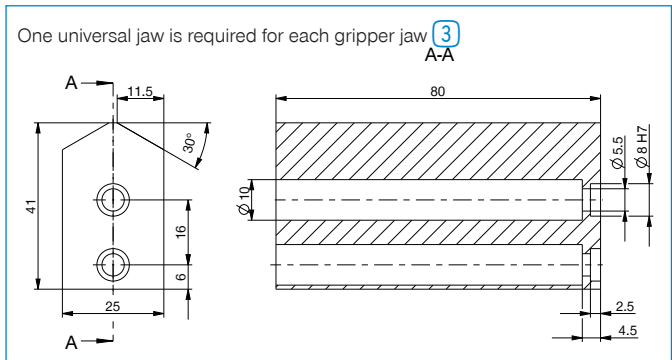
**ZUB5008PNS**



Compensation module NC/NO/SC/SO

**ZUB5008PCO**

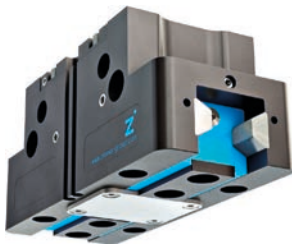
**▶ TECHNICAL DRAWINGS ACCESSORIES**



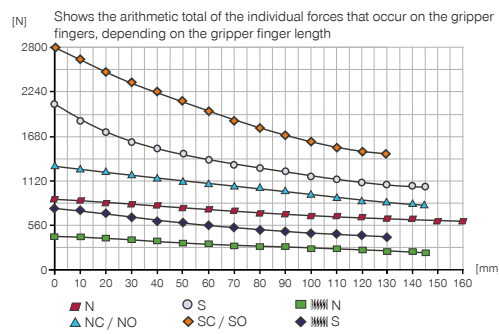
# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5010

### ▶ PRODUCT SPECIFICATIONS

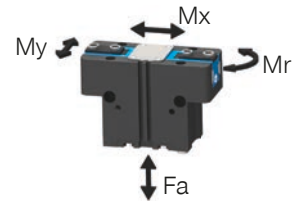


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	125
My [Nm]	95
Fa [N]	2700

### ▶ TECHNICAL DATA

#### ▶ Technical Data\*

Order no.	GPP5010N-00-A	GPP5010NC-00-A	GPP5010NO-00-A	GPP5010S-00-A	GPP5010SC-00-A	GPP5010SO-00-A
Stroke per jaw [mm]	10	10	10	5	5	5
Gripping force in closing [N]	885	1260		1940	2750	
Gripping force in opening [N]	945		1320	2080		2890
Gripping force secured by spring min. [N]		375	375		810	810
Closing time [s]	0.06	0.05	0.08	0.06	0.05	0.08
Opening time [s]	0.06	0.08	0.05	0.06	0.08	0.05
Permissible weight per jaw max [kg]	1.3	1.3	1.3	1.3	1.3	1.3
Length of the gripper fingers max. [mm]	160	145	145	145	130	130
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	44	92	92	44	92	92
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.87	1.09	1.09	0.87	1.09	1.09

#### ▶ Technical Data - High Temperature Version

Order no.	GPP5010N-20-A	GPP5010NC-20-A	GPP5010NO-20-A	GPP5010S-20-A	GPP5010SC-20-A	GPP5010SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

#### ▶ Technical Data - Protector Version

Order no.	GPP5010N-21-A	GPP5010NC-21-A	GPP5010NO-21-A	GPP5010S-21-A	GPP5010SC-21-A	GPP5010SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.99	1.31	1.31	0.99	1.31	1.31

#### ▶ Technical Data - High Temperature Protector Version

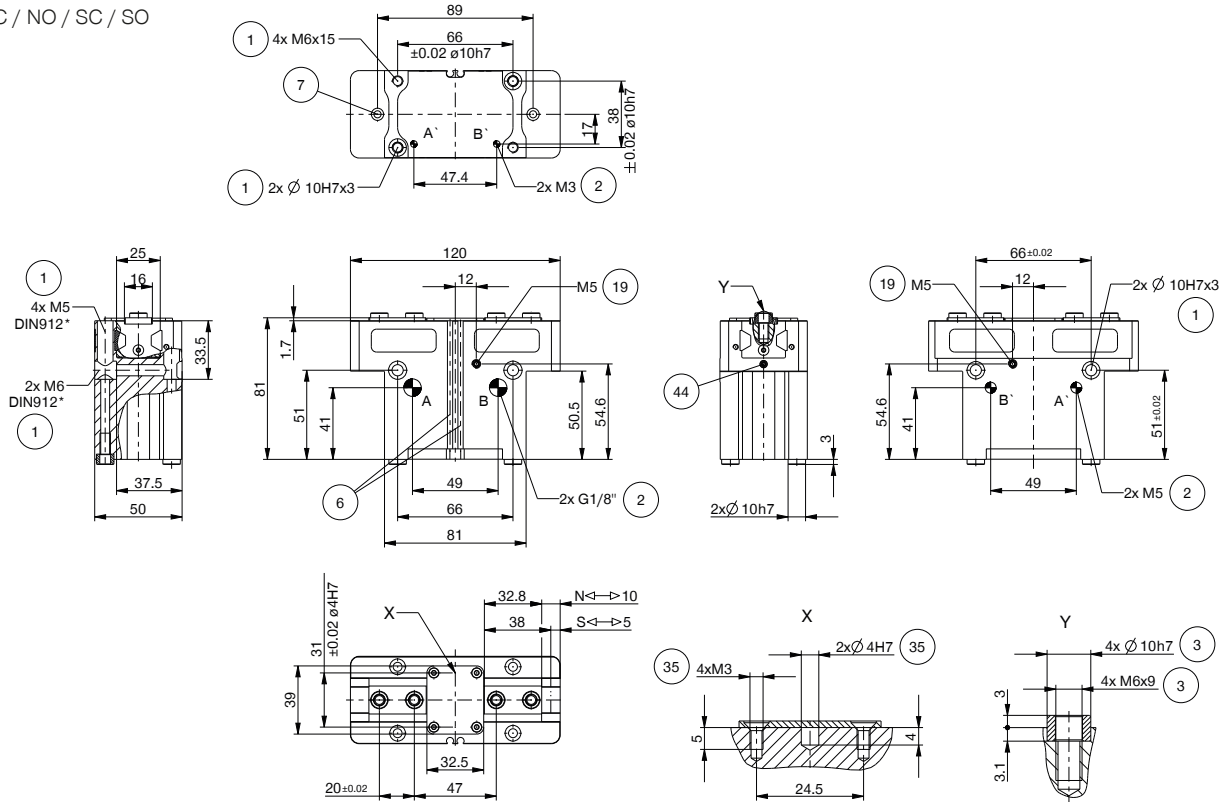
Order no.	GPP5010N-24-A	GPP5010NC-24-A	GPP5010NO-24-A	GPP5010S-24-A	GPP5010SC-24-A	GPP5010SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.99	1.31	1.31	0.99	1.31	1.31

\*All data measured at 6 bar

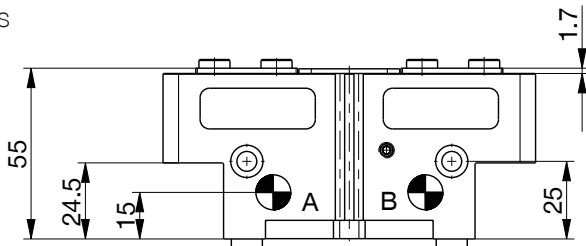
\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

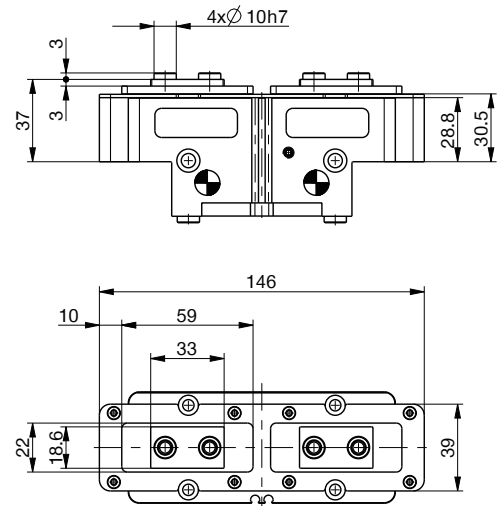
NC / NO / SC / SO



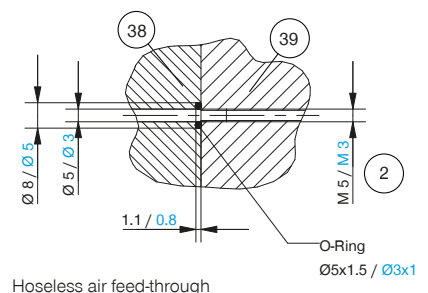
N / S



Protector version



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



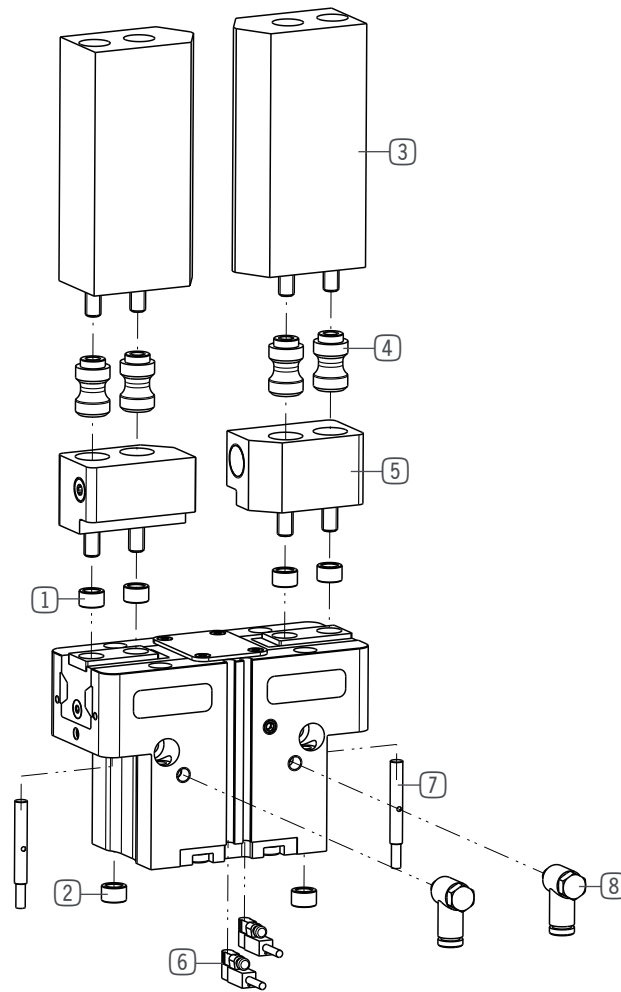
Hoseless air feed-through

# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5010

1

Installation size GPP5010 / 2-Jaw Parallel Grippers / pneumatic / Grippers



### INCLUDED IN DELIVERY



Centering Disc

018187

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5010AL**



Universal jaw steel

**UB5010ST**



Aluminum adjustment jaw

**EB5010AL**



Steel adjustment jaw

**EB5010ST**



Changeable jaw, loose-part-set

**WB5010L**



Changeable jaw, fix-part

**WB5010F**



Inductive Proximity Switch Cable 0,3 m - Connector M8

**NJ4-E2SK-01**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



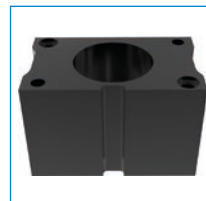
Angled Fittings - Quick Connect Style

**WV1-8X6**



Pressure Safety Valve

**DSV1-8**



Compensation module N / S

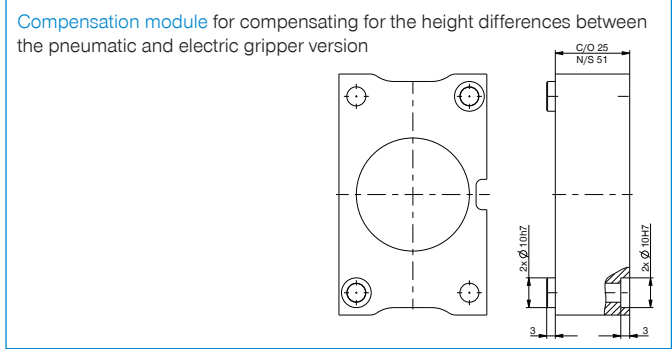
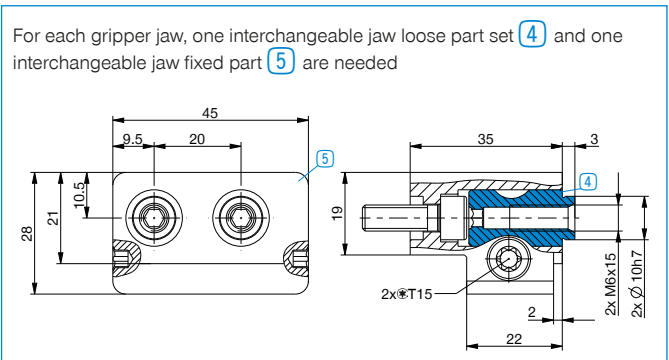
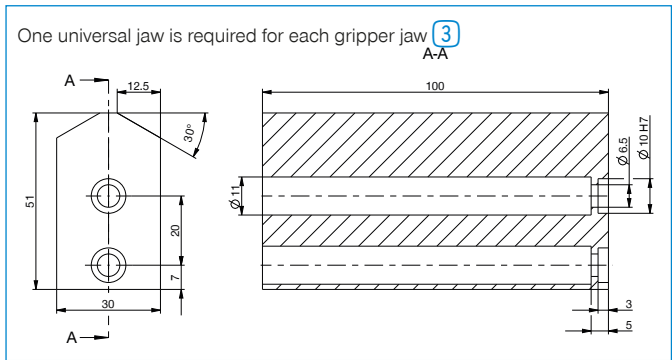
**ZUB5010PNS**



Compensation module NC / NO / SC / SO

**ZUB5010PCO**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



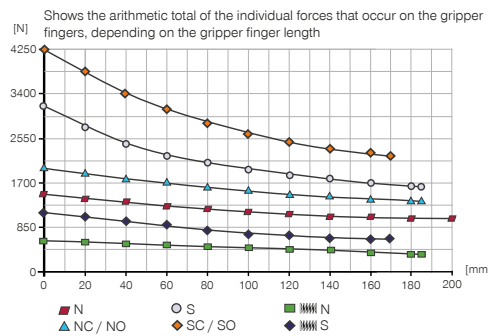
# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5013

### 1 PRODUCT SPECIFICATIONS

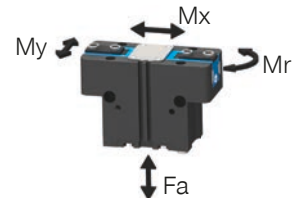


#### Gripping force diagram



#### Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	110
Mx [Nm]	150
My [Nm]	130
Fa [N]	3300

### TECHNICAL DATA

#### Technical Data\*

Order no.	GPP5013N-00-A	GPP5013NC-00-A	GPP5013NO-00-A	GPP5013S-00-A	GPP5013SC-00-A	GPP5013SO-00-A
Stroke per jaw [mm]	13	13	13	6	6	6
Gripping force in closing [N]	1410	1920		3100	4220	
Gripping force in opening [N]	1490		1860	3280		4400
Gripping force secured by spring min. [N]		510	510		1120	1120
Closing time [s]	0.09	0.07	0.11	0.09	0.07	0.11
Opening time [s]	0.09	0.11	0.08	0.09	0.11	0.08
Permissible weight per jaw max [kg]	2.4	2.4	2.4	2.4	2.4	2.4
Length of the gripper fingers max. [mm]	200	185	185	185	170	170
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	88	171	171	88	171	171
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	1.5	1.9	1.9	1.5	1.9	1.9

#### Technical Data - High Temperature Version

Order no.	GPP5013N-20-A	GPP5013NC-20-A	GPP5013NO-20-A	GPP5013S-20-A	GPP5013SC-20-A	GPP5013SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

#### Technical Data - Protector Version

Order no.	GPP5013N-21-A	GPP5013NC-21-A	GPP5013NO-21-A	GPP5013S-21-A	GPP5013SC-21-A	GPP5013SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.86	2.26	2.26	1.86	2.26	2.26

#### Technical Data - High Temperature Protector Version

Order no.	GPP5013N-24-A	GPP5013NC-24-A	GPP5013NO-24-A	GPP5013S-24-A	GPP5013SC-24-A	GPP5013SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.86	2.26	2.26	1.86	2.26	2.26

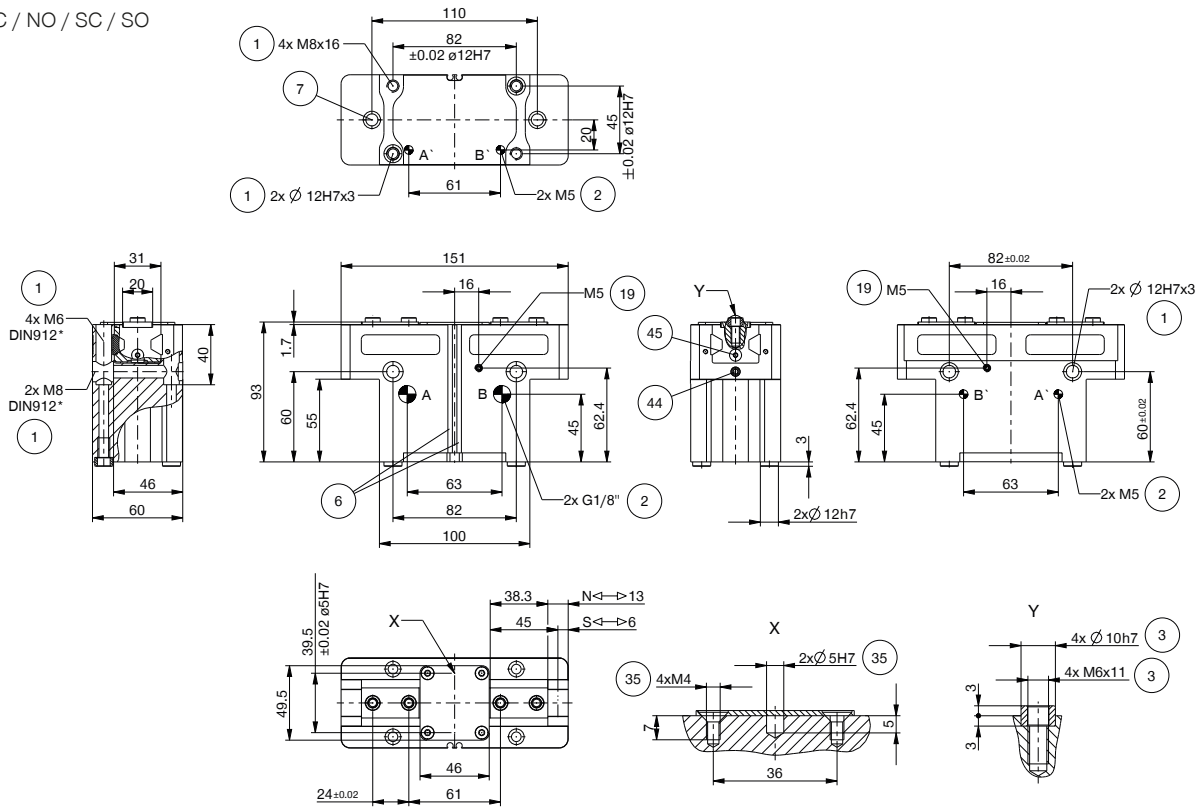
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

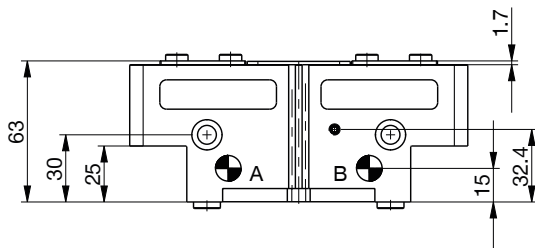


## TECHNICAL DRAWINGS

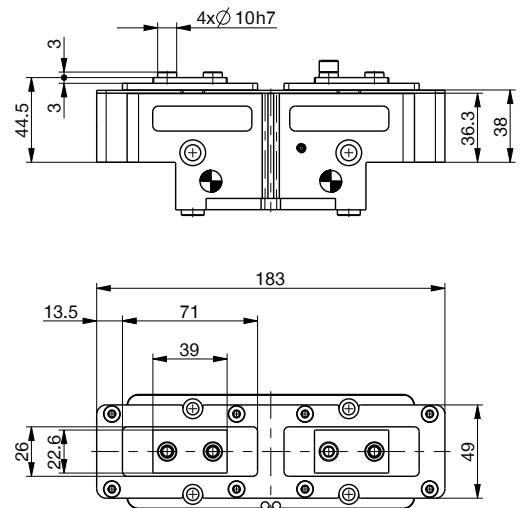
NC / NO / SC / SO



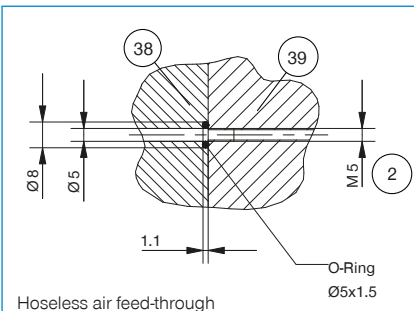
N / S



Protector version



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

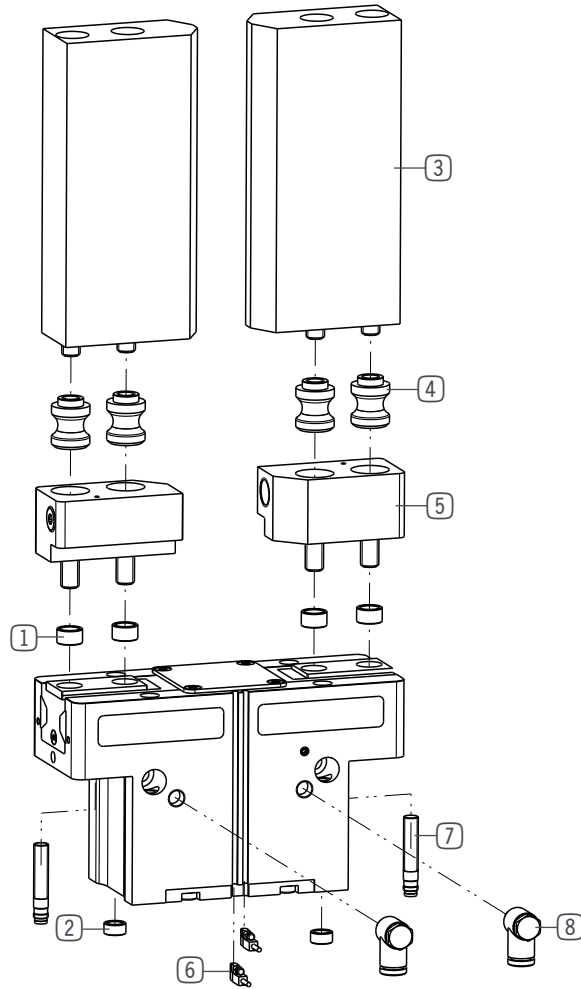


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5013

1

Installation size GPP5013 / 2-Jaw Parallel Grippers / pneumatic / Grippers



### INCLUDED IN DELIVERY



Centering Disc

018187



Centering Disc

019280

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5013AL**



Universal jaw steel

**UB5013ST**



Aluminum adjustment jaw

**EB5013AL**



Steel adjustment jaw

**EB5013ST**



Changeable jaw, loose-part-set

**WB5013L**



Changeable jaw, fix-part

**WB5013F**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Plug-in connector customizable Straight - Connector M8

**S8-G-3**



Angled Fittings - Quick Connect Style

**WV1-8X6**



Quick Exhaust Valve

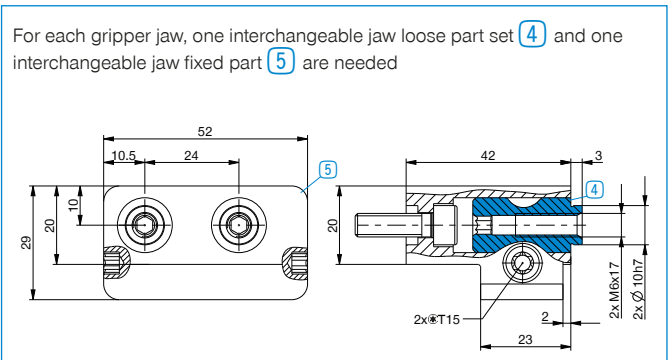
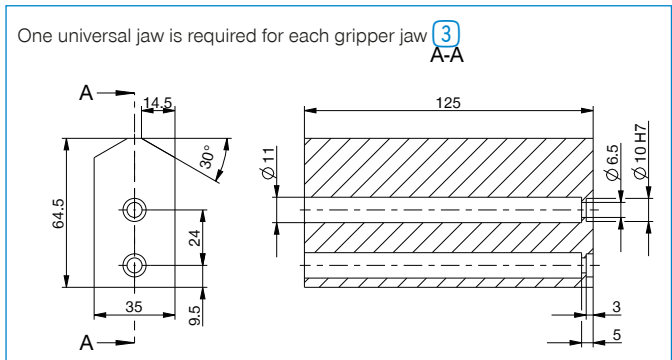
**DEV06**



Pressure Safety Valve

**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5016

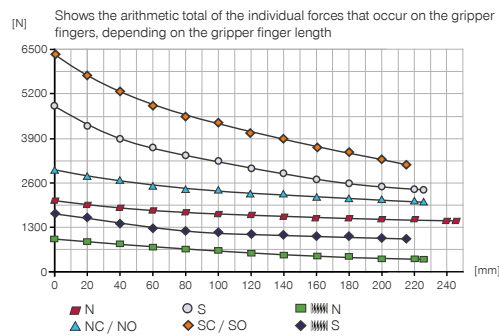
1

Installation size GPP5016 / 2-Jaw Parallel Grippers / pneumatic / Grippers

### PRODUCT SPECIFICATIONS

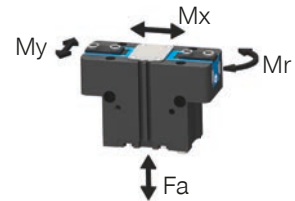


#### Gripping force diagram



#### Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	145
Mx [Nm]	195
My [Nm]	185
Fa [N]	5200

### TECHNICAL DATA

#### Technical Data\*

Order no.	GPP5016N-00-A	GPP5016NC-00-A	GPP5016NO-00-A	GPP5016S-00-A	GPP5016SC-00-A	GPP5016SO-00-A
Stroke per jaw [mm]	16	16	16	8	8	8
Gripping force in closing [N]	2090	2860		4610	6310	
Gripping force in opening [N]	2220		2990	4900		6600
Gripping force secured by spring min. [N]		770	770		1700	1700
Closing time [s]	0.13	0.11	0.24	0.13	0.11	0.24
Opening time [s]	0.13	0.24	0.11	0.13	0.24	0.11
Permissible weight per jaw max [kg]	3.8	3.8	3.8	3.8	3.8	3.8
Length of the gripper fingers max. [mm]	245	225	225	225	215	215
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	166	332	332	166	332	332
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	2.9	3.7	3.7	2.9	3.7	3.7

#### Technical Data - High Temperature Version

Order no.	GPP5016N-20-A	GPP5016NC-20-A	GPP5016NO-20-A	GPP5016S-20-A	GPP5016SC-20-A	GPP5016SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

#### Technical Data - Protector Version

Order no.	GPP5016N-21-A	GPP5016NC-21-A	GPP5016NO-21-A	GPP5016S-21-A	GPP5016SC-21-A	GPP5016SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	3.6	4.4	4.4	3.6	4.4	4.4

#### Technical Data - High Temperature Protector Version

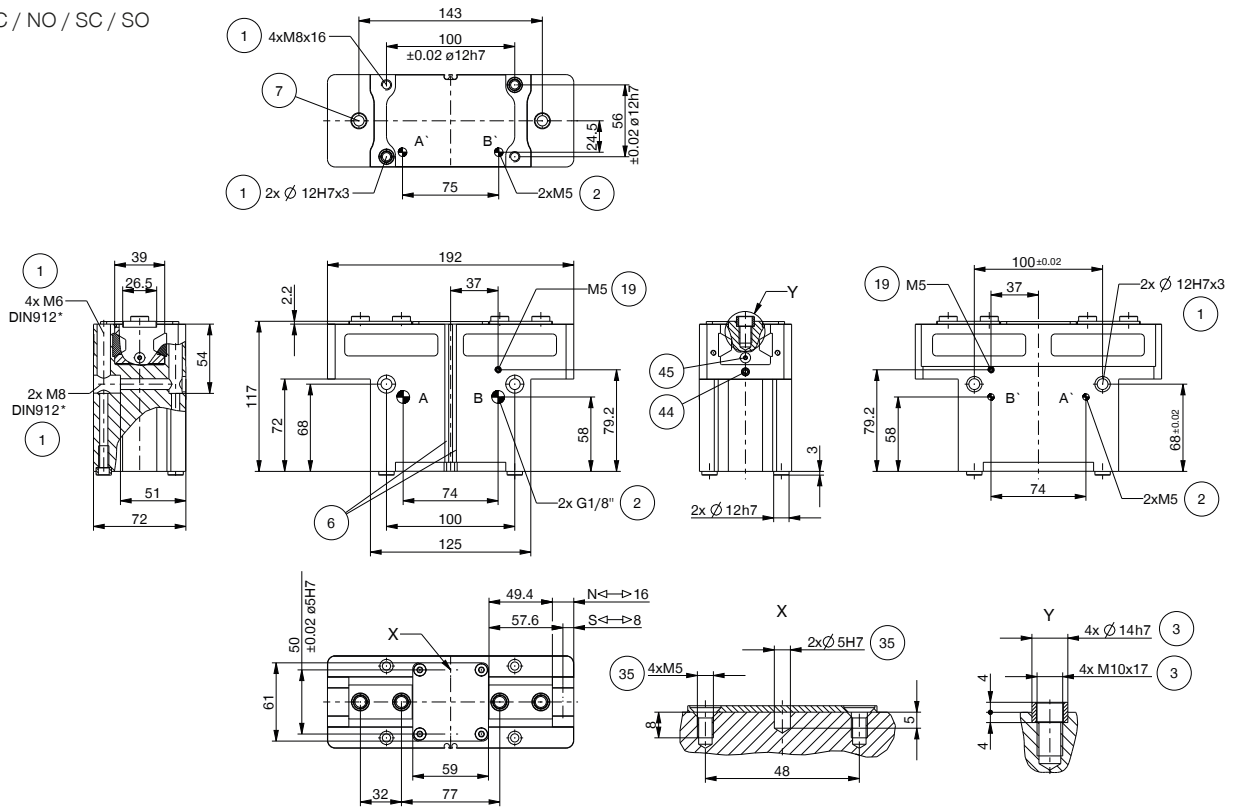
Order no.	GPP5016N-24-A	GPP5016NC-24-A	GPP5016NO-24-A	GPP5016S-24-A	GPP5016SC-24-A	GPP5016SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	3.6	4.4	4.4	3.6	4.4	4.4

\*All data measured at 6 bar

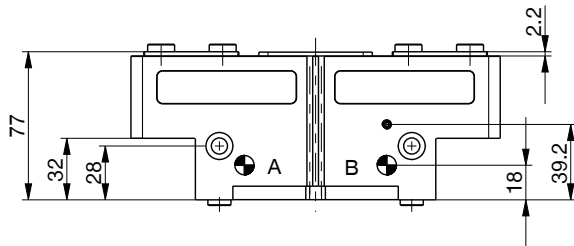
\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

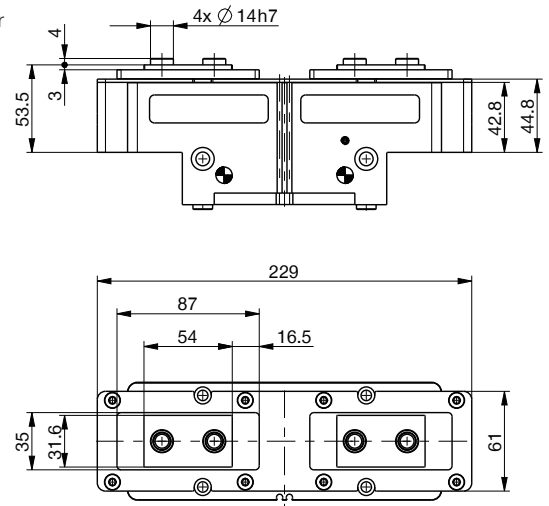
NC / NO / SC / SO



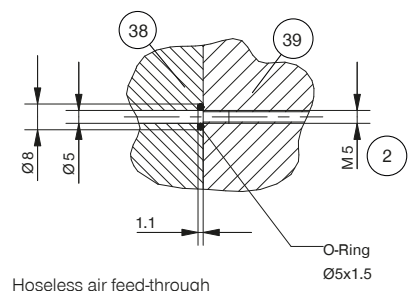
N / S



Protector version



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉓ Adapter
- ㉔ Gripper
- ㉕ Clamp for sensor
- ㉖ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

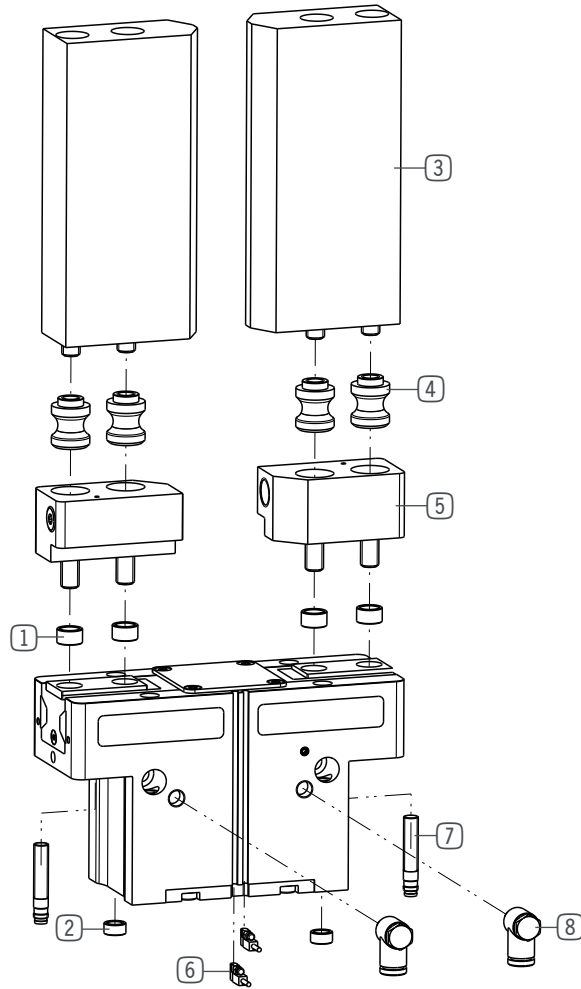


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5016

1

Installation size GPP5016 / 2-Jaw Parallel Grippers / pneumatic / Grippers



### INCLUDED IN DELIVERY



Centering Disc

019387



Centering Disc

019280

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5016AL**



Universal jaw steel

**UB5016ST**



Aluminum adjustment jaw

**EB5016AL**



Steel adjustment jaw

**EB5016ST**



Changeable jaw, loose-part-set

**WB5016L**



Changeable jaw, fix-part

**WB5016F**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



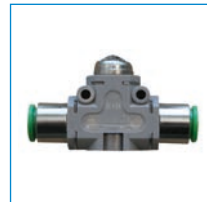
Plug-in connector customizable Straight - Connector M8

**S8-G-3**



Angled Fittings - Quick Connect Style

**WV1-8X8**



Quick Exhaust Valve

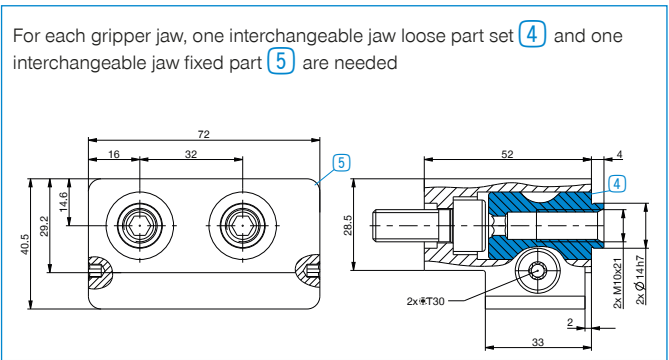
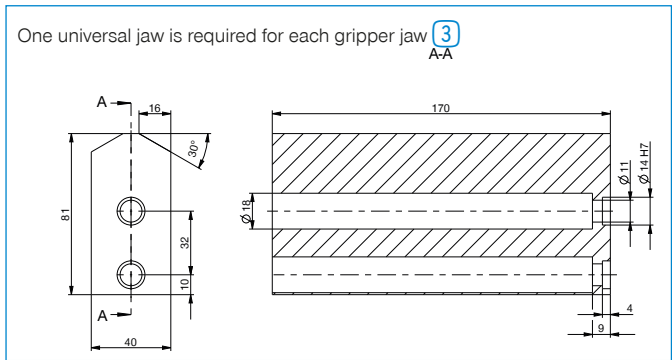
**DEV08**



Pressure Safety Valve

**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5025

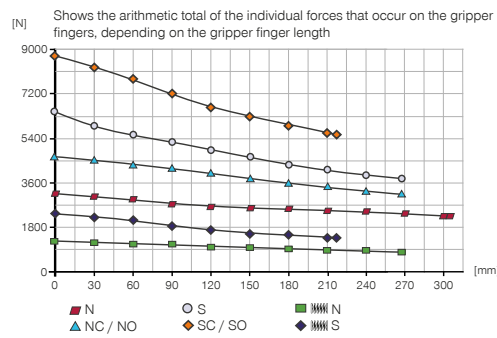
1

Installation size GPP5025 / 2-Jaw Parallel Grippers / pneumatic / Grippers

### PRODUCT SPECIFICATIONS

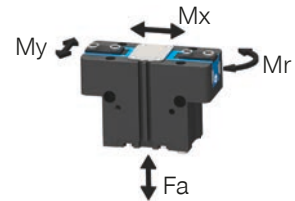


#### Gripping force diagram



#### Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	180
Mx [Nm]	205
My [Nm]	225
Fa [N]	7500

### TECHNICAL DATA

#### Technical Data\*

Order no.	GPP5025N-00-A	GPP5025NC-00-A	GPP5025NO-00-A	GPP5025S-00-A	GPP5025SC-00-A	GPP5025SO-00-A
Stroke per jaw [mm]	25	25	25	14	14	14
Gripping force in closing [N]	3280	4510		6360	8730	
Gripping force in opening [N]	3490		4710	6760		9130
Gripping force secured by spring min. [N]		1220	1220		2370	2370
Closing time [s]	0.33	0.28	0.57	0.33	0.28	0.57
Opening time [s]	0.33	0.57	0.28	0.33	0.57	0.28
Permissible weight per jaw max [kg]	7	7	7	7	7	7
Length of the gripper fingers max. [mm]	310	265	265	265	220	220
Repetition accuracy +/- [mm]	0.02	0.02	0.02	0.02	0.02	0.02
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	420	830	830	420	830	830
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	6.1	7.65	7.65	6.1	7.65	7.65

#### Technical Data - High Temperature Version

Order no.	GPP5025N-20-A	GPP5025NC-20-A	GPP5025NO-20-A	GPP5025S-20-A	GPP5025SC-20-A	GPP5025SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

#### Technical Data - Protector Version

Order no.	GPP5025N-21-A	GPP5025NC-21-A	GPP5025NO-21-A	GPP5025S-21-A	GPP5025SC-21-A	GPP5025SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	7.20	8.75	8.75	7.2	8.75	8.75

#### Technical Data - High Temperature Protector Version

Order no.	GPP5025N-24-A	GPP5025NC-24-A	GPP5025NO-24-A	GPP5025S-24-A	GPP5025SC-24-A	GPP5025SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	7.20	8.75	8.75	7.2	8.75	8.75

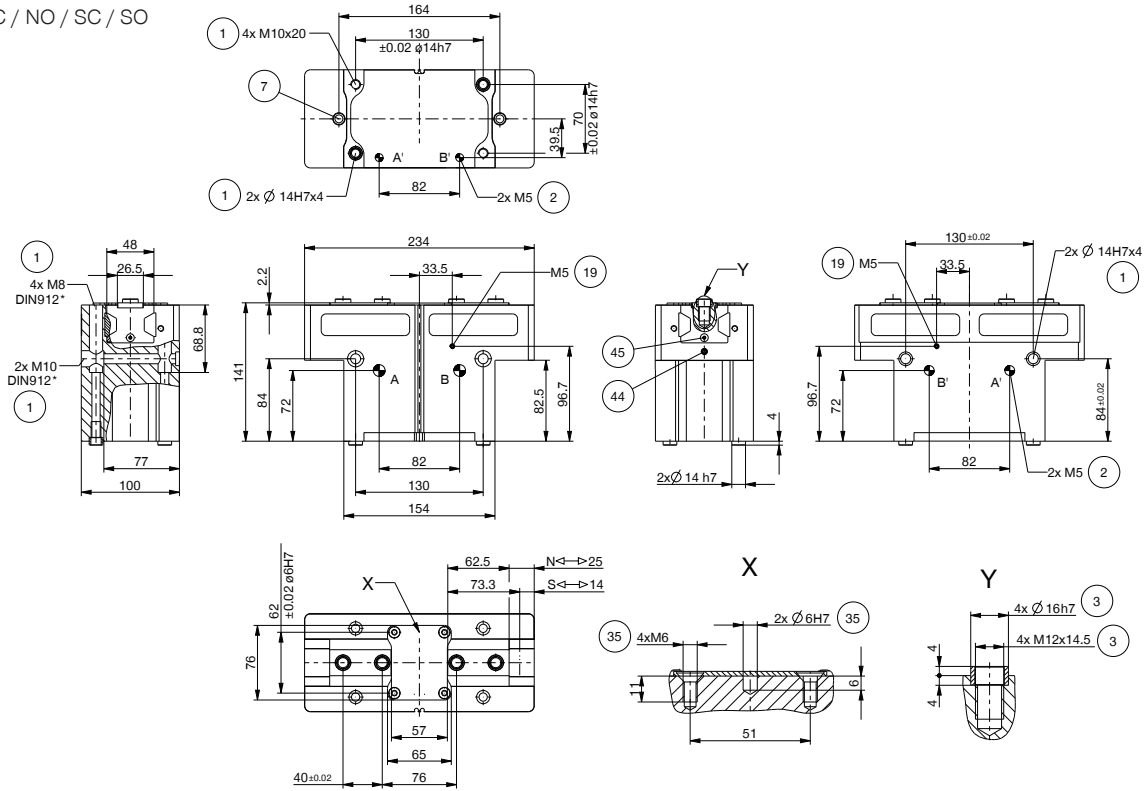
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

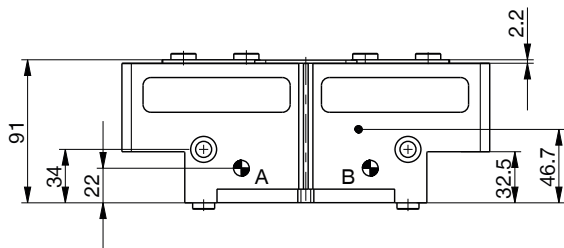


# TECHNICAL DRAWINGS

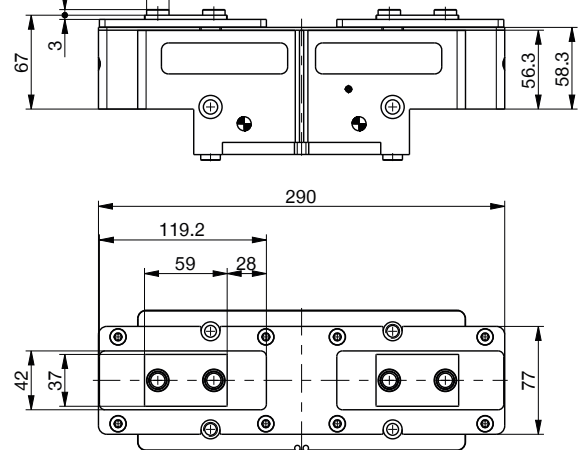
NC / NO / SC / SO



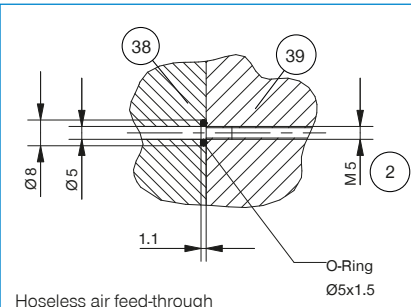
N / S



Protector version  
4x Ø 16h7



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

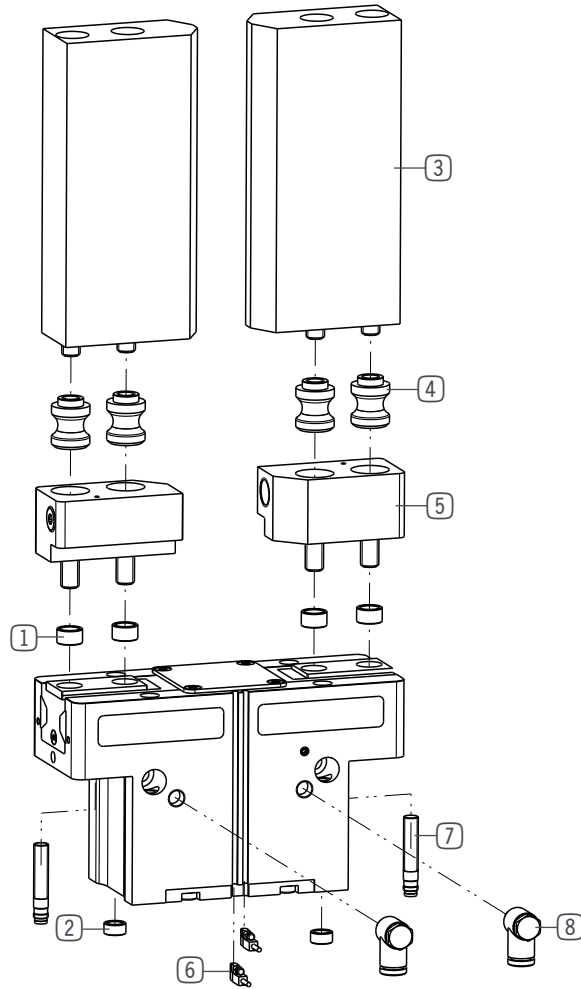


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5025

1

Installation size GPP5025 / 2-Jaw Parallel Grippers / pneumatic / Grippers



### ▶ INCLUDED IN DELIVERY



Centering Disc

030529



Centering Disc

019387

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5025AL**



Universal jaw steel

**UB5025ST**



Aluminum adjustment jaw

**EB5025AL**



Steel adjustment jaw

**EB5025ST**



Changeable jaw, loose-part-set

**WB5025L**



Changeable jaw, fix-part

**WB5025F**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Plug-in connector customizable Straight - Connector M8

**S8-G-3**



Angled Fittings - Quick Connect Style

**WV1-8X8**



Quick Exhaust Valve

**DEV08**

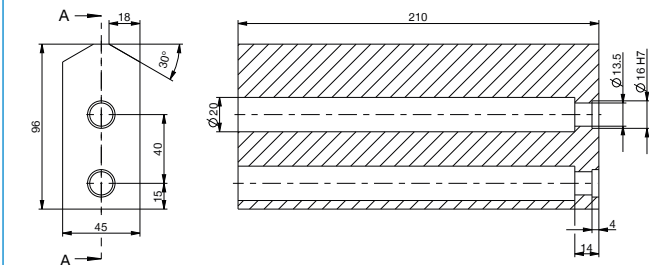


Pressure Safety Valve

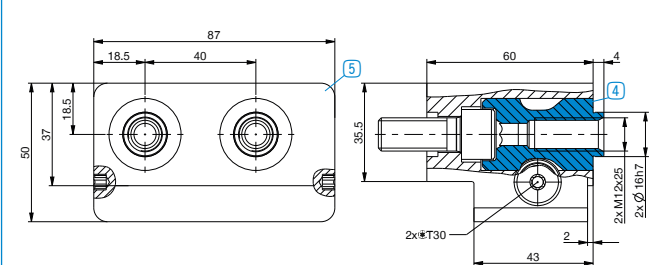
**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**

One universal jaw is required for each gripper jaw **3**



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



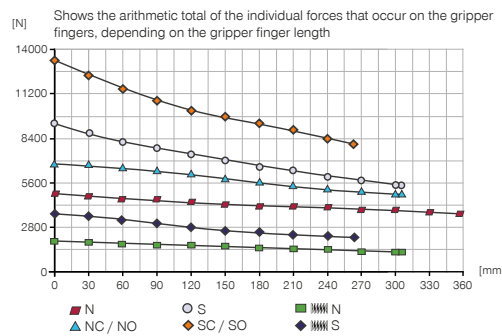
# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5030

### 1 PRODUCT SPECIFICATIONS

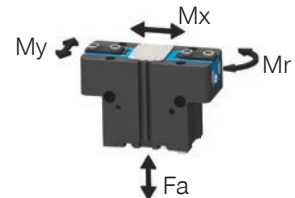


#### Gripping force diagram



#### Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	210
Mx [Nm]	290
My [Nm]	310
Fa [N]	9500

### TECHNICAL DATA

Order no.	Technical Data*					
	GPP5030N-00-A	GPP5030NC-00-A	GPP5030NO-00-A	GPP5030S-00-A	GPP5030SC-00-A	GPP5030SO-00-A
Stroke per jaw [mm]	30	30	30	17	17	17
Gripping force in closing [N]	5000	6850		9600	13160	
Gripping force in opening [N]	5210		7060	9990		13550
Gripping force secured by spring min. [N]		1850	1850		3560	3560
Closing time [s]	0.4	0.35	0.65	0.4	0.35	0.65
Opening time [s]	0.4	0.65	0.35	0.4	0.65	0.35
Permissible weight per jaw max [kg]	9.5	9.5	9.5	9.5	9.5	9.5
Length of the gripper fingers max. [mm]	355	305	305	305	260	260
Repetition accuracy +/- [mm]	0.04	0.04	0.04	0.04	0.04	0.04
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	745	1430	1430	745	1430	1430
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	9.2	12	12	9.2	12	12

Order no.	Technical Data - High Temperature Version					
	GPP5030N-20-A	GPP5030NC-20-A	GPP5030NO-20-A	GPP5030S-20-A	GPP5030SC-20-A	GPP5030SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

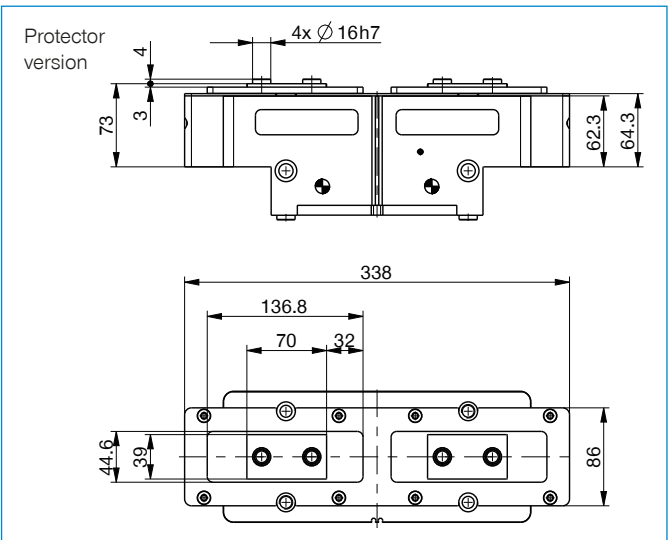
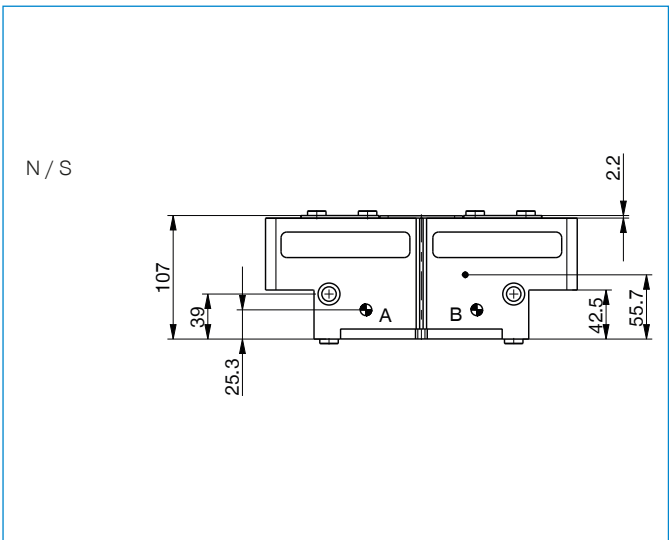
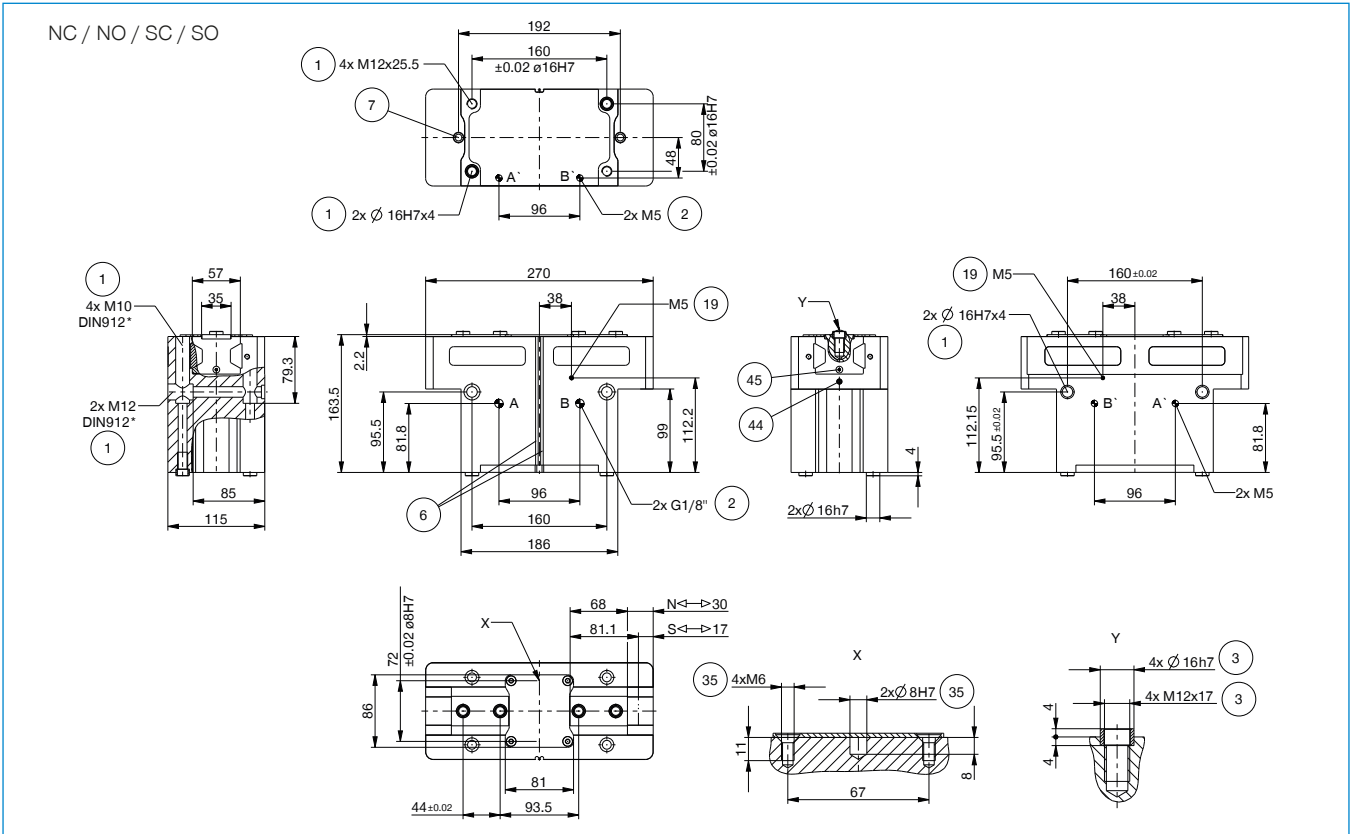
Order no.	Technical Data - Protector Version					
	GPP5030N-21-A	GPP5030NC-21-A	GPP5030NO-21-A	GPP5030S-21-A	GPP5030SC-21-A	GPP5030SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	10.9	13.7	13.7	10.9	13.7	13.7

Order no.	Technical Data - High Temperature Protector Version					
	GPP5030N-24-A	GPP5030NC-24-A	GPP5030NO-24-A	GPP5030S-24-A	GPP5030SC-24-A	GPP5030SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	10.9	13.7	13.7	10.9	13.7	13.7

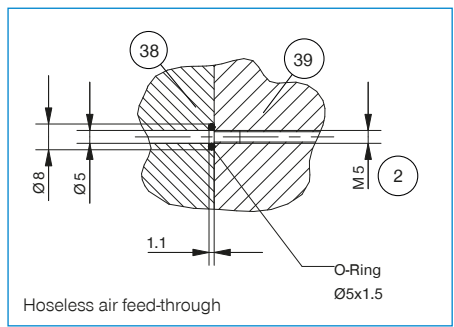
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

# TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

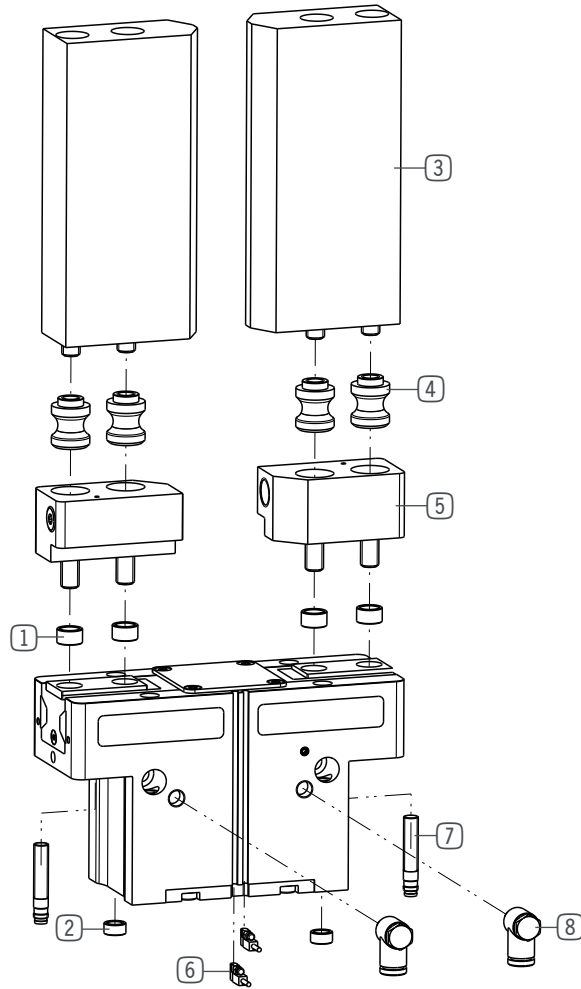


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5030

1

Installation size GPP5030 / 2-Jaw Parallel Grippers / pneumatic / Grippers



### ▶ INCLUDED IN DELIVERY



Centering Disc

030529

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5030AL**



Universal jaw steel

**UB5030ST**



Aluminum adjustment jaw

**EB5030AL**



Steel adjustment jaw

**EB5030ST**



Changeable jaw, loose-part-set

**WB5030L**



Changeable jaw, fix-part

**WB5030F**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



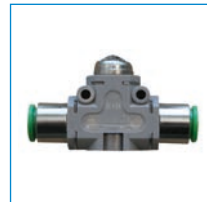
Plug-in connector customizable Straight - Connector M8

**S8-G-3**



Angled Fittings - Quick Connect Style

**WV1-8X8**



Quick Exhaust Valve

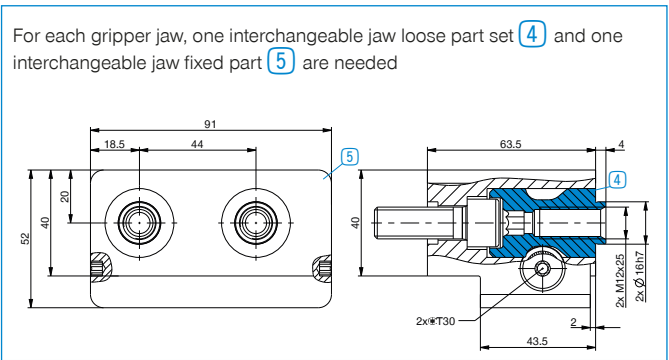
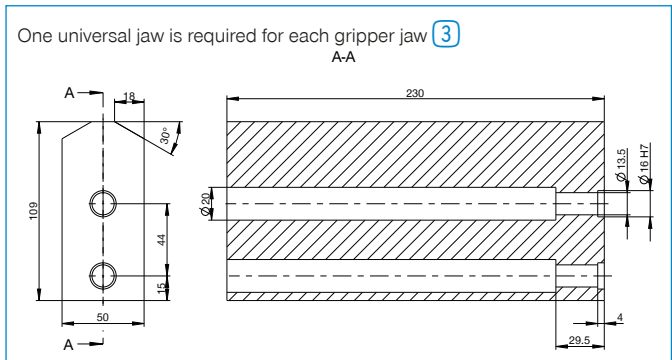
**DEV08**



Pressure Safety Valve

**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5035

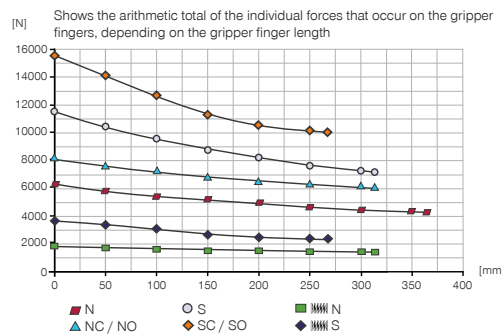
1

Installation size GPP5035 / 2-Jaw Parallel Grippers / pneumatic / Grippers

### PRODUCT SPECIFICATIONS

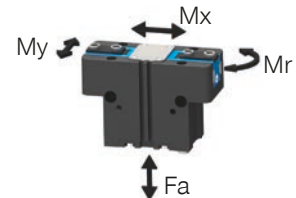


#### Gripping force diagram



#### Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	260
Mx [Nm]	430
My [Nm]	450
Fa [N]	10400

### TECHNICAL DATA

Order no.	Technical Data*					
	GPP5035N-00-A	GPP5035NC-00-A	GPP5035NO-00-A	GPP5035S-00-A	GPP5035SC-00-A	GPP5035SO-00-A
Stroke per jaw [mm]	35	35	35	20	20	20
Gripping force in closing [N]	6100	8000		11700	15500	
Gripping force in opening [N]	6300		8200	12100		15900
Gripping force secured by spring min. [N]		1900	1900		3700	3700
Closing time [s]	0.5	0.4	0.7	0.5	0.4	0.7
Opening time [s]	0.5	0.7	0.4	0.5	0.7	0.4
Permissible weight per jaw max [kg]	12.5	12.5	12.5	12.5	12.5	12.5
Length of the gripper fingers max. [mm]	365	315	315	315	260	260
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	6.5	6.5	8	6.5	6.5
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	1185	2075	2075	1185	2075	2075
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	15.8	18.6	18.6	16.1	18.9	18.9

Order no.	Technical Data - High Temperature Version					
	GPP5035N-20-A	GPP5035NC-20-A	GPP5035NO-20-A	GPP5035S-20-A	GPP5035SC-20-A	GPP5035SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	Technical Data - Protector Version					
	GPP5035N-21-A	GPP5035NC-21-A	GPP5035NO-21-A	GPP5035S-21-A	GPP5035SC-21-A	GPP5035SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	20.2	23	23	20.5	23.3	23.3

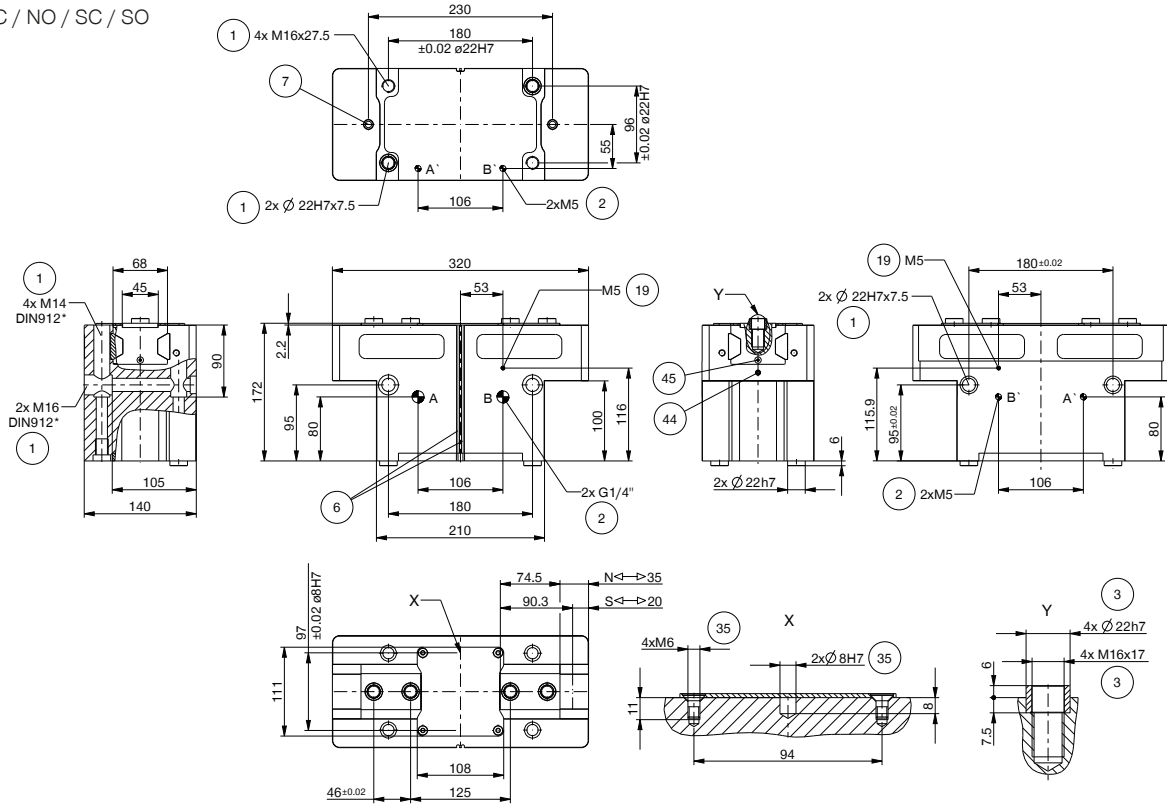
Order no.	Technical Data - High Temperature Protector Version					
	GPP5035N-24-A	GPP5035NC-24-A	GPP5035NO-24-A	GPP5035S-24-A	GPP5035SC-24-A	GPP5035SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	20.2	23	23	20.5	23.3	23.3

\*All data measured at 6 bar  
 \*\* with purged air (max. 0,5 bar)

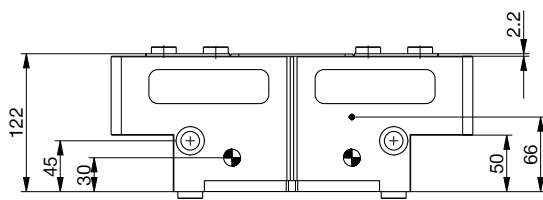


## TECHNICAL DRAWINGS ACCESSORIES

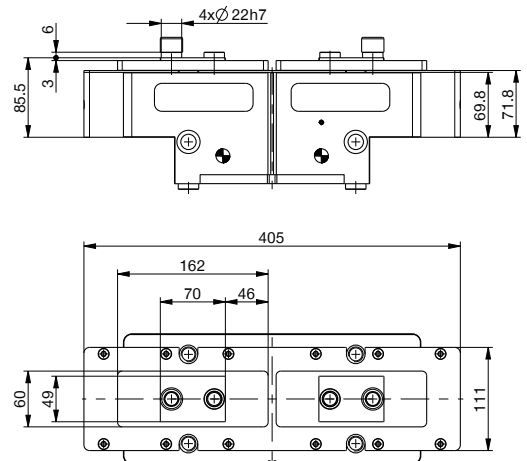
NC / NO / SC / SO



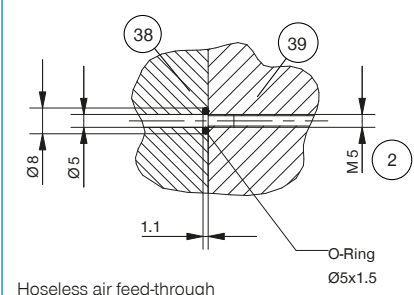
N / S



Protector version



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉔ Gripper
- ㉕ Clamp for sensor
- ㉖ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

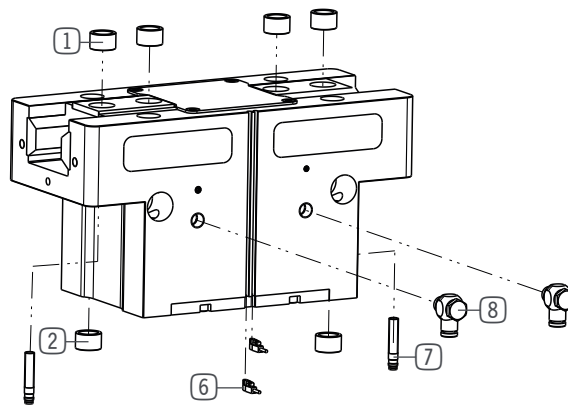


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5035

1

Installation size GPP5035 / 2-Jaw Parallel Grippers / pneumatic / Grippers



### ▶ INCLUDED IN DELIVERY



Centering Disc

035358

► **RECOMMENDED ACCESSORIES**



Inductive proximity switch - Connector M8  
**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8  
**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8  
**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8  
**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)  
**KAG500**



Plug-in connector customizable Straight - Connector M8  
**S8-G-3**



Straight Fittings - Quick Connect Style  
**GV1-4X8**



Angled Fittings - Quick Connect Style  
**WV1-4X8**



Quick Exhaust Valve  
**DEV04**



Pressure Safety Valve  
**DSV1-8**

# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GPP5045

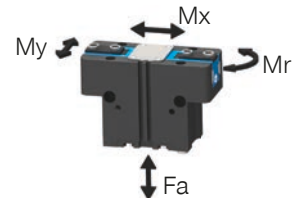
COMING  
SOON

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	390
Mx [Nm]	580
My [Nm]	600
Fa [N]	11500

### ▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPP5045N-00-A	GPP5045NC-00-A	GPP5045NO-00-A	GPP5045S-00-A	GPP5045SC-00-A	GPP5045SO-00-A
Stroke per jaw [mm]	45	45	45	26	26	26
Gripping force in closing [N]	10200	13700		19400	26050	
Gripping force in opening [N]	10700		14200	20300		26950
Gripping force secured by spring min. [N]		3500	3500		6650	6650
Closing time [s]	0.55	0.45	0.7	0.55	0.45	0.7
Opening time [s]	0.55	0.7	0.45	0.55	0.7	0.45
Permissible weight per jaw max [kg]	17	17	17	17	17	17
Length of the gripper fingers max. [mm]	400	350	350	350	300	300
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	6.5	6.5	8	6.5	6.5
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	2420	4400	4400	2420	4400	4400
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	33	40.5	40.5	34	41.5	41.5

Order no.	▶ Technical Data - High Temperature Version					
	GPP5045N-20-A	GPP5045NC-20-A	GPP5045NO-20-A	GPP5045S-20-A	GPP5045SC-20-A	GPP5045SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	▶ Technical Data - Protector Version					
	GPP5045N-21-A	GPP5045NC-21-A	GPP5045NO-21-A	GPP5045S-21-A	GPP5045SC-21-A	GPP5045SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	41.5	49	49	42.5	50	50

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPP5045N-24-A	GPP5045NC-24-A	GPP5045NO-24-A	GPP5045S-24-A	GPP5045SC-24-A	GPP5045SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	41.5	49	49	42.5	50	50

\*All data measured at 6 bar

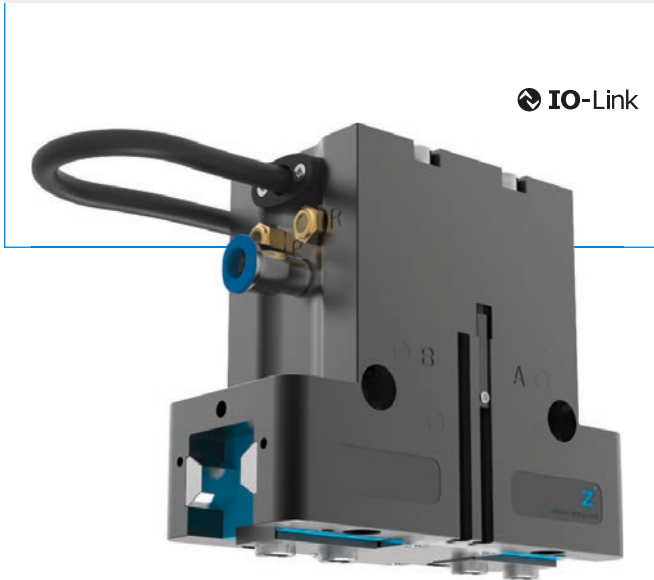
\*\* with purged air (max. 0.5 bar)

# 2-JAW PARALLEL GRIPPERS

## SERIES GPP5000 PNEUMATIC IL

COMING  
SOON

### ▶ PRODUCT ADVANTAGES



⚡ IO-Link

#### “The Universal One”

- ▶ Sealed guide IP64 / Protector version IP67 (with purged air)
- ▶ Protected against corrosion
- ▶ Up to 30 million cycles without maintenance
- ▶ Steel Linear Guide
- ▶ Pneumatic drive combined with IO-Link technology
- ▶ Integrated valves, sensor technology, status display and pressure monitoring
- ▶ Adjustable teach-in window width
- ▶ Connection using a pneumatic line and IO-Link cable
- ▶ 32 workpieces data sets can be programmed

1

Series GPP5000 pneumatic IL / 2-Jaw Parallel Grippers / pneumatic / Grippers

# 2-JAW PARALLEL GRIPPERS

## SERIES GEP5000

### ▶ PRODUCT ADVANTAGES



#### “ALL in ONE”

- ▶ Approximately the same gripping force as a comparable pneumatic gripper
- ▶ Self locking mechanism in case of power drop
- ▶ Same connection hole patterns as a comparable pneumatic gripper
- ▶ Plug and play – single-cable solution, supports incredibly easy control using I/O signals or IO-Link
- ▶ Integrated ACM control module - option of configuring gripping force, travel time and switching points
- ▶ Protected from corrosion and sealed in accordance with IP64
- ▶ Brushless DC motor – up to 30 million cycles without maintenance

### ▶ THE BEST PRODUCT FOR YOUR APPLICATION



#### ▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

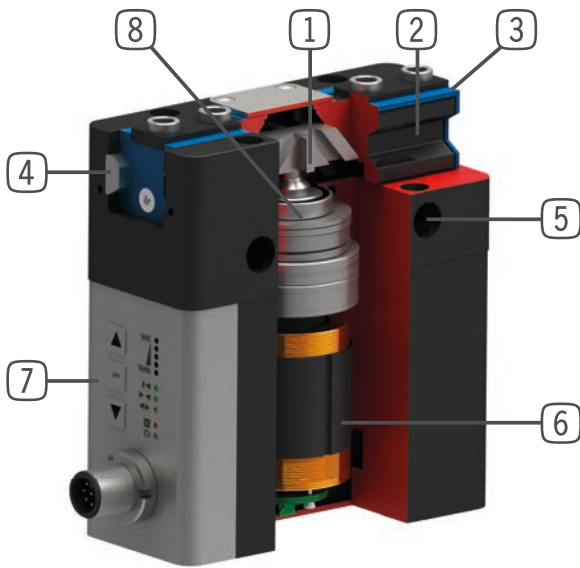
[www.zimmer-group.com](http://www.zimmer-group.com)

#### HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

<b>Order no.</b>	<b>GEP5008</b>	<input type="checkbox"/>	<b>-00</b>	<b>-A</b>
Digital control		<b>IO</b>		
IO-Link control		<b>IL</b>		

► **BENEFITS IN DETAIL**



- ① **Wedge hook mechanism**
  - Supports to absorb high forces and moments
  - Synchronized gripper jaw movement
- ② **Gripper jaw**
  - Gripper fingers mounted using removable centring sleeves
  - Lubricated for life via incorporated lubrication slots
- ③ **Dual lip seal**
  - Enables IP64
  - Prevents grease from being squeezed out, increasing service life
- ④ **Steel Linear Guide**
  - Steel in steel guide
  - Enables use of extremely long gripper fingers
- ⑤ **Mounting and positioning**
  - Alternatively, on several sides for customized mounting
  - Pneumatic and electrical versions identical apart from height
- ⑥ **BLDC motor**
  - Wear-resistant brushless DC motor
- ⑦ **Advanced control module**
  - Integrated control module with single-cable solution
  - Gripping force, travel time and query programmable via the control panel on the housing
- ⑧ **Drive train**
  - Combination of trapezoidal spindle and gear
  - Durable and robust

► **TERMS**

<b>Gripping force:</b>	arithmetic sum of the individual forces occurring at the jaws
<b>Gripping direction:</b>	Movement toward the workpiece to be gripped
→ ←:	Gripping direction of external gripper
↔ :	Gripping direction of internal gripper
<b>Travel time:</b>	Time required for the complete stroke movement of the gripper jaws
<b>Control time:</b>	Response time of the gripping system
<b>Work time:</b>	Time from signal input until the signal output message, including travel time
<b>Mode:</b>	Travel time optimization by adapting to the gripping direction (N / NC / NO mode)
<b>Repeatability:</b>	at end stops after 50/100 consecutive cycles
<b>Cycle:</b>	Path that the gripper jaws travel for a complete opening and closing movement
<b>Maintenance:</b>	recommended at 30 mil. cycles (please see the installation instructions, download from <a href="http://www.zimmer-group.com">www.zimmer-group.com</a> )

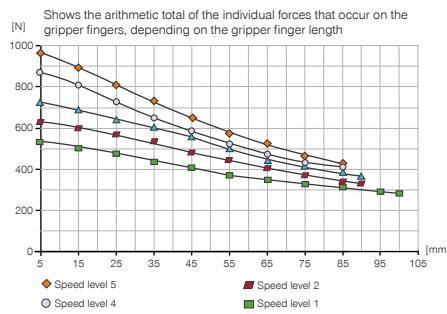
# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GEP5006

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	43
Mx [Nm]	70
My [Nm]	46
Fa [N]	1250

### ▶ TECHNICAL DATA - BASIC VERSION

Order no.	▶ Technical Data	
	GEP5006IO-00-A	GEP5006IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	6	6
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	0.4	0.4
Length of the gripper fingers max. [mm]	100	100
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	0.79	0.79

### ▶ TECHNICAL DATA - MODES

Order no.	▶ Technical data - N mode	
	GEP5006IO-00-A	GEP5006IL-00-A
Gripping force → ← min. / max. [N]	540 / 960	540 / 960
Gripping force  ↔  min. / max. [N]	540 / 960	540 / 960
Travel time → ← min. / max. [s]	0,15 / 0,22	0,15 / 0,22
Travel time  ↔  min. / max. [s]	0,15 / 0,22	0,15 / 0,22

Order no.	▶ Technical data - NC mode	
	GEP5006IO-00-A	GEP5006IL-00-A
Gripping force → ← min. / max. [N]	540 / 960	540 / 960
Gripping force  ↔  min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,15 / 0,22	0,15 / 0,22
Travel time  ↔  min. / max. [s]	0,13	0,13

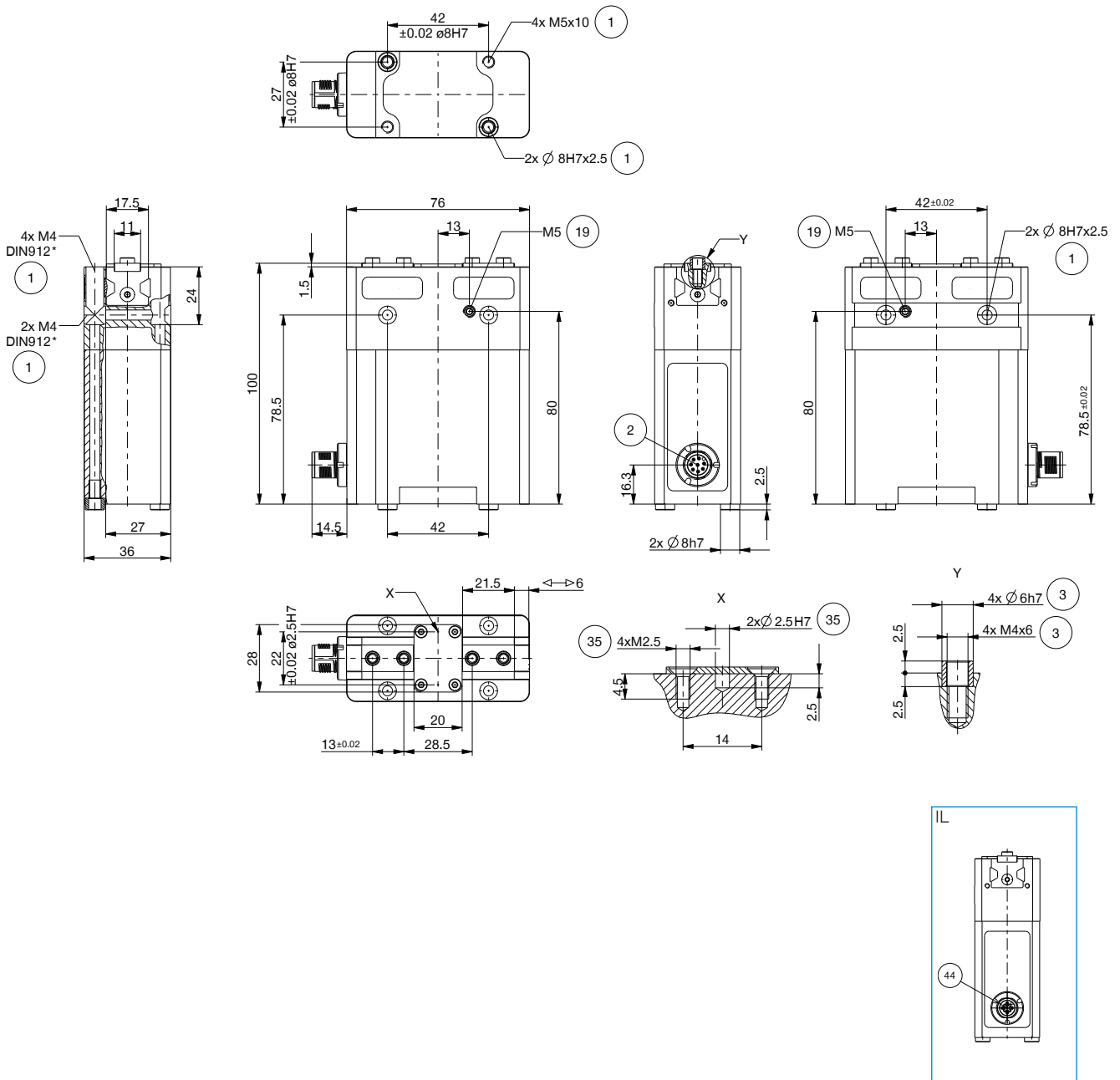
  

Order no.	▶ Technical data - NO mode	
	GEP5006IO-00-A	GEP5006IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force  ↔  min. / max. [N]	540 / 960	540 / 960
Travel time → ← min. / max. [s]	0,13	0,13
Travel time  ↔  min. / max. [s]	0,15 / 0,22	0,15 / 0,22



## TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ④④ Energy supply IO-Link (M12, 5-pole)

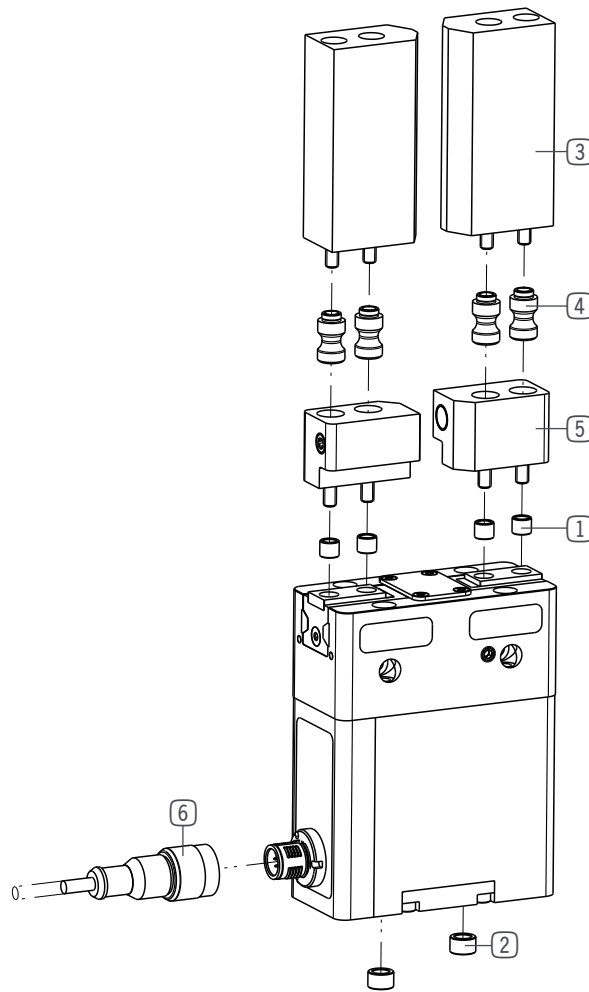


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GEP5006

2

Installation size GEP5006 / 2-Jaw Parallel Grippers / electric / Grippers



### INCLUDED IN DELIVERY



Centering Disc

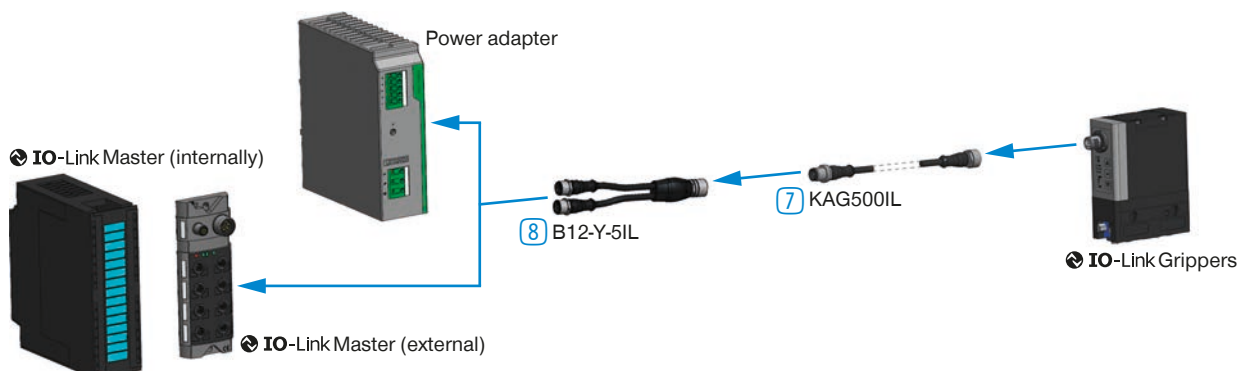
024230



Centering Disc

024231

### INFRASTRUCTURE IO-LINK



## ▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

**UB5006AL**



Universal jaw steel

**UB5006ST**



Aluminum adjustment jaw

**EB5006AL**



Steel adjustment jaw

**EB5006ST**



Changeable jaw, loose-part-set

**WB5006L**



Changeable jaw, fix-part

**WB5006F**



Plug-in Connector Straight Cable 10 m - Female M12

**KAG1000B8**



Plug-in Connector Angled Cable 10 m - Female M12

**KAW1000B8**



Plug-in connector straight 5m - plug / socket M12

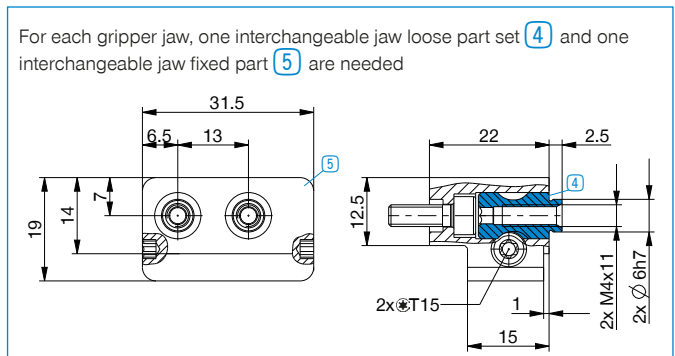
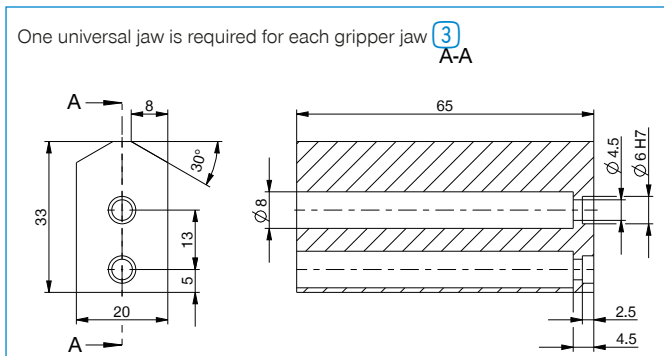
**KAG500IL**



Y-Plug-in Connector

**B12-Y-5IL**

## ▶ TECHNICAL DRAWINGS ACCESSORIES



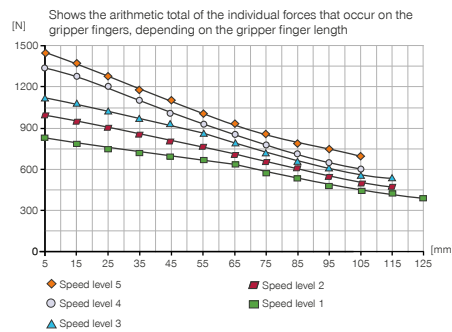
# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GEP5008

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
Mx [Nm]	105
My [Nm]	65
Fa [N]	1900

### ▶ TECHNICAL DATA - BASIC VERSION

Order no.	▶ Technical Data	
	GEP5008IO-00-A	GEP5008IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	8	8
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	0.7	0.7
Length of the gripper fingers max. [mm]	125	125
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	1.16	1.16

### ▶ TECHNICAL DATA - MODES

Order no.	▶ Technical data - N mode	
	GEP5008IO-00-A	GEP5008IL-00-A
Gripping force → ← min. / max. [N]	800 / 1450	800 / 1450
Gripping force  ↔  min. / max. [N]	800 / 1450	800 / 1450
Travel time → ← min. / max. [s]	0,18 / 0,29	0,18 / 0,29
Travel time  ↔  min. / max. [s]	0,18 / 0,29	0,18 / 0,29

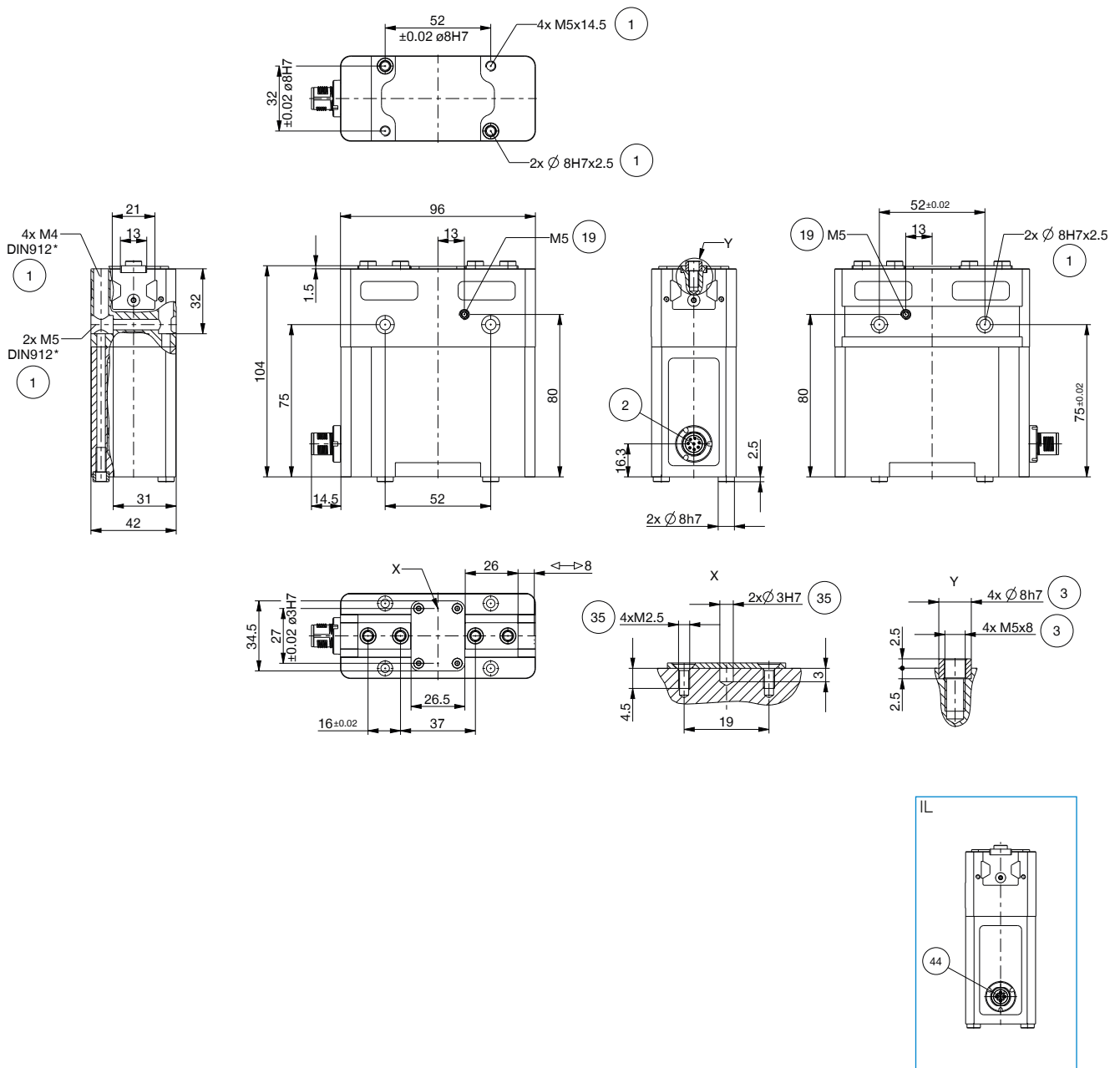
Order no.	▶ Technical data - NC mode	
	GEP5008IO-00-A	GEP5008IL-00-A
Gripping force → ← min. / max. [N]	800 / 1450	800 / 1450
Gripping force  ↔  min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,18 / 0,29	0,18 / 0,29
Travel time  ↔  min. / max. [s]	0,15	0,15

Order no.	▶ Technical data - NO mode	
	GEP5008IO-00-A	GEP5008IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force  ↔  min. / max. [N]	800 / 1450	800 / 1450
Travel time → ← min. / max. [s]	0,15	0,15
Travel time  ↔  min. / max. [s]	0,18 / 0,29	0,18 / 0,29

## TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ④④ Energy supply IO-Link (M12, 5-pole)

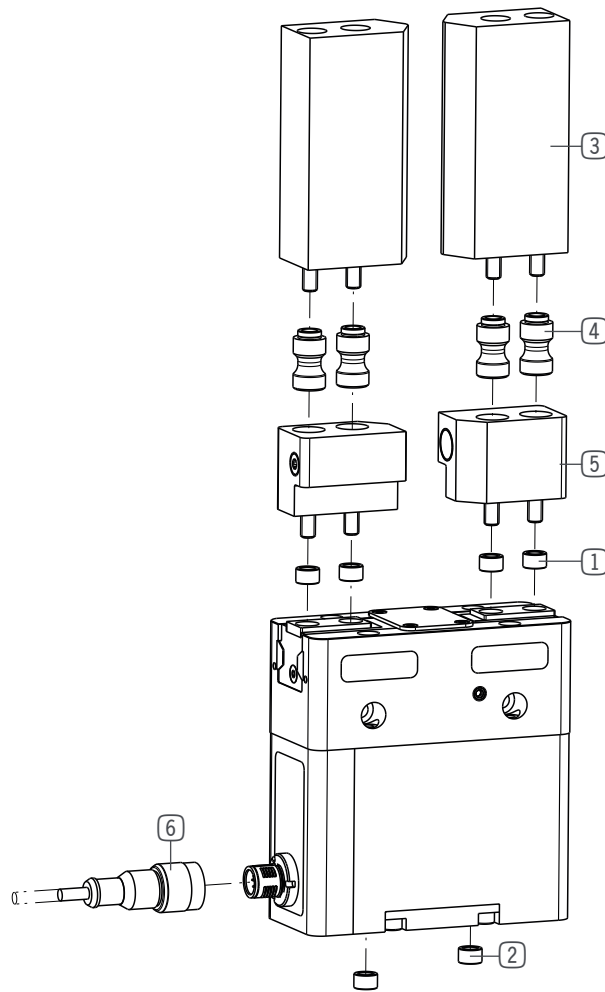


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GEP5008

2

Installation size GEP5008 / 2-Jaw Parallel Grippers / electric / Grippers



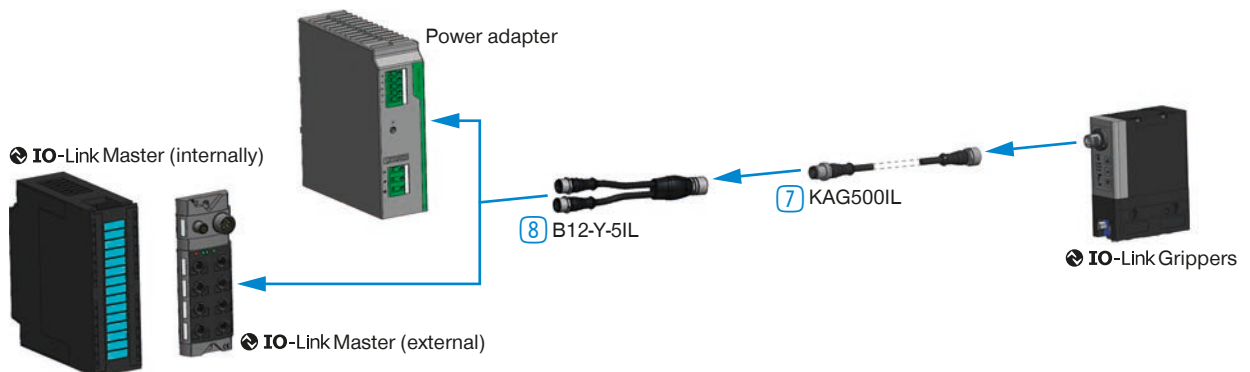
### INCLUDED IN DELIVERY



Centering Disc

024231

### INFRASTRUCTURE IO-LINK



**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5008AL**



Universal jaw steel

**UB5008ST**



Aluminum adjustment jaw

**EB5008AL**



Steel adjustment jaw

**EB5008ST**



Changeable jaw, loose-part-set

**WB5008L**



Changeable jaw, fix-part

**WB5008F**



Plug-in Connector Straight Cable 10 m - Female M12

**KAG1000B8**



Plug-in Connector Angled Cable 10 m - Female M12

**KAW1000B8**



Plug-in connector straight 5m - plug / socket M12

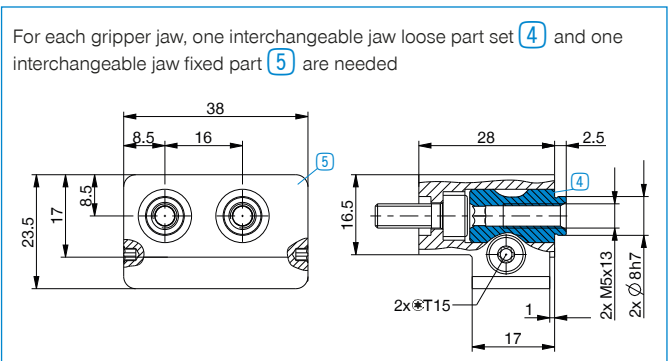
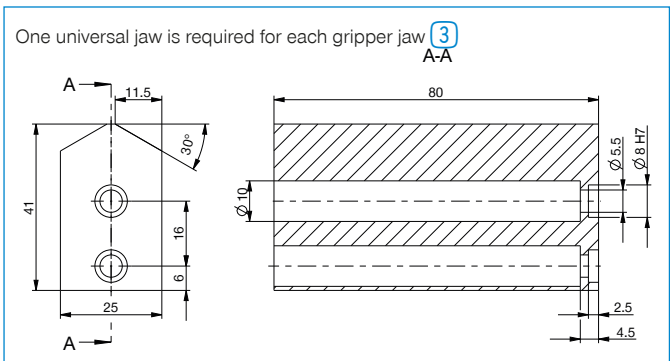
**KAG500IL**



Y-Plug-in Connector

**B12-Y-5IL**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



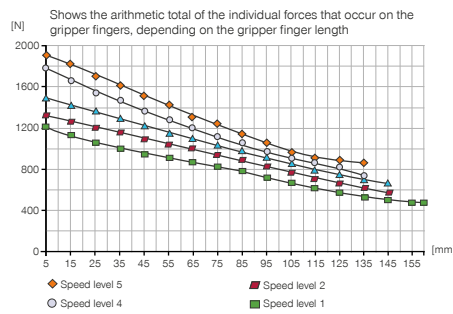
# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GEP5010

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	125
My [Nm]	95
Fa [N]	2700

### ▶ TECHNICAL DATA - BASIC VERSION

Order no.	▶ Technical Data	
	GEP5010IO-00-A	GEP5010IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	10	10
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	1.3	1.3
Length of the gripper fingers max. [mm]	160	160
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	1.66	1.66

### ▶ TECHNICAL DATA - MODES

Order no.	▶ Technical data - N mode	
	GEP5010IO-00-A	GEP5010IL-00-A
Gripping force → ← min. / max. [N]	1200 / 1900	1200 / 1900
Gripping force  ↔  min. / max. [N]	1200 / 1900	1200 / 1900
Travel time → ← min. / max. [s]	0,21 / 0,32	0,21 / 0,32
Travel time  ↔  min. / max. [s]	0,21 / 0,32	0,21 / 0,32

Order no.	▶ Technical data - NC mode	
	GEP5010IO-00-A	GEP5010IL-00-A
Gripping force → ← min. / max. [N]	1200 / 1900	1200 / 1900
Gripping force  ↔  min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,21 / 0,32	0,21 / 0,32
Travel time  ↔  min. / max. [s]	0,16	0,16

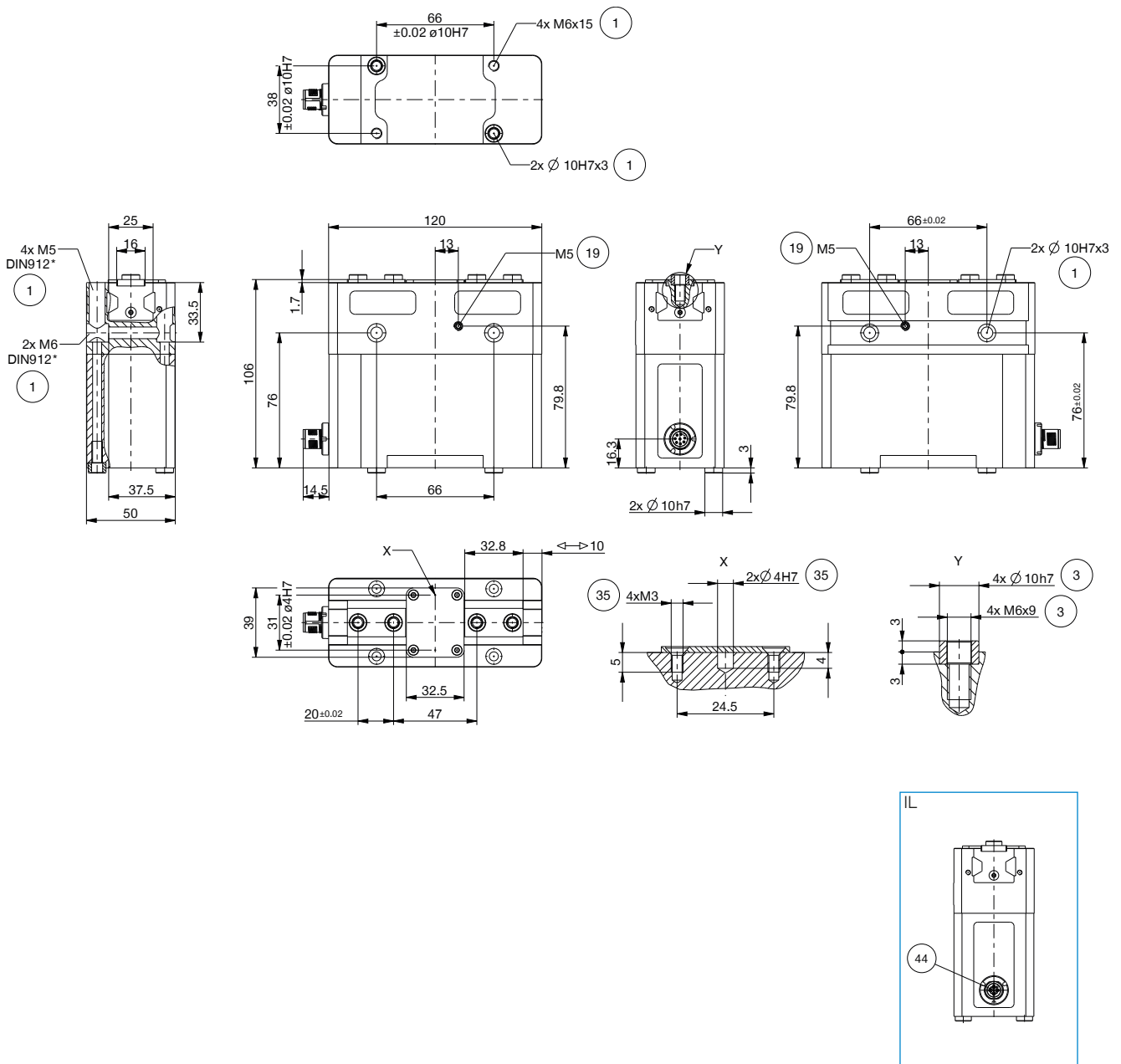
  

Order no.	▶ Technical data - NO mode	
	GEP5010IO-00-A	GEP5010IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force  ↔  min. / max. [N]	1200 / 1900	1200 / 1900
Travel time → ← min. / max. [s]	0,16	0,16
Travel time  ↔  min. / max. [s]	0,21 / 0,32	0,21 / 0,32



## TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ④ Air purge connection option
- ⑤ Attachment option for customer-specific fittings
- ④④ Energy supply IO-Link (M12, 5-pole)

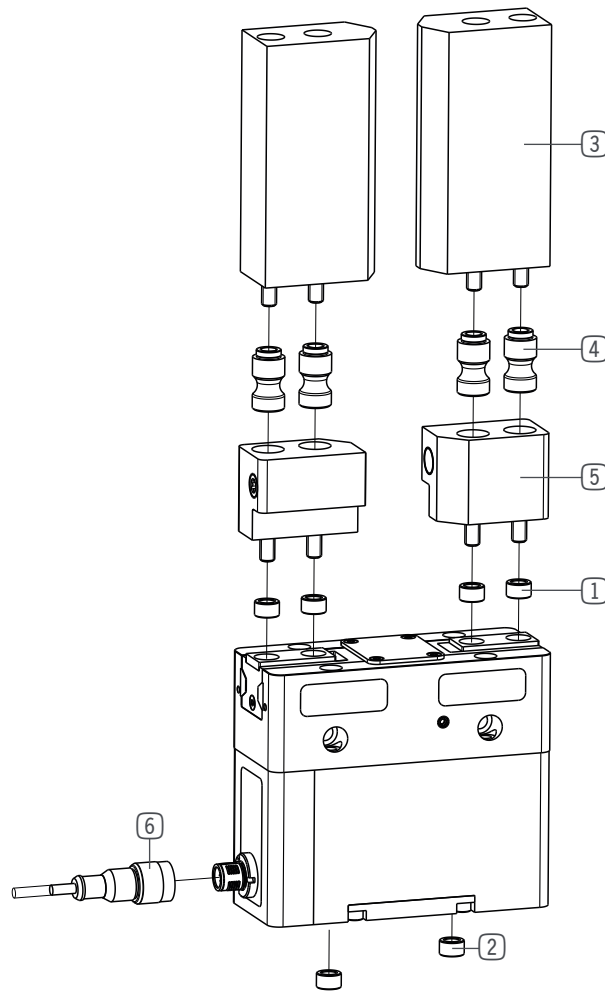


# 2-JAW PARALLEL GRIPPERS

## INSTALLATION SIZE GEP5010

2

Installation size GEP5010 / 2-Jaw Parallel Grippers / electric / Grippers



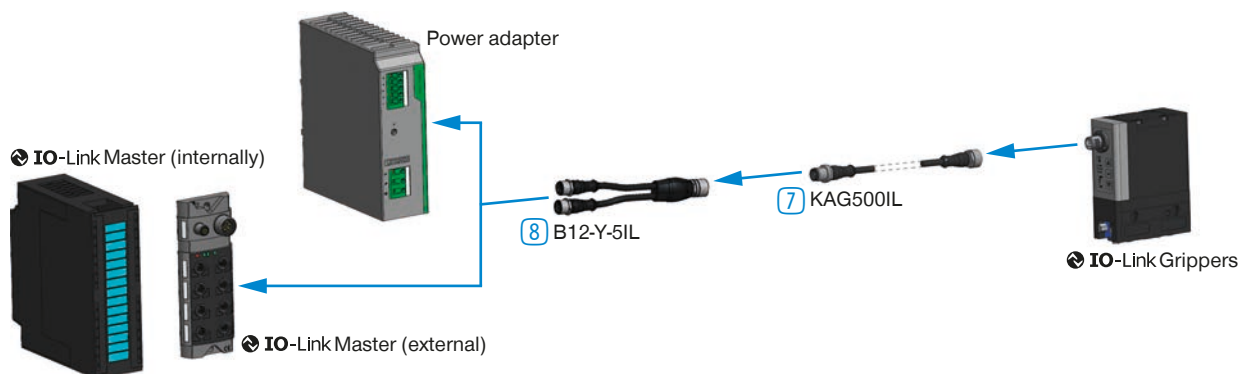
### INCLUDED IN DELIVERY



Centering Disc

018187

### INFRASTRUCTURE IO-LINK



## ▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

**UB5010AL**



Universal jaw steel

**UB5010ST**



Aluminum adjustment jaw

**EB5010AL**



Steel adjustment jaw

**EB5010ST**



Changeable jaw, loose-part-set

**WB5010L**



Changeable jaw, fix-part

**WB5010F**



Plug-in Connector Straight Cable 10 m - Female M12

**KAG1000B8**



Plug-in Connector Angled Cable 10 m - Female M12

**KAW1000B8**



Plug-in connector straight 5m - plug / socket M12

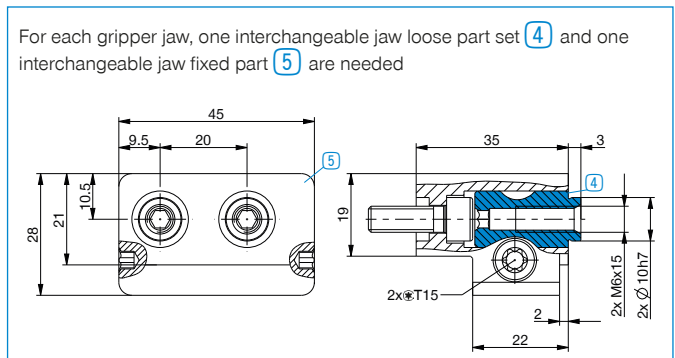
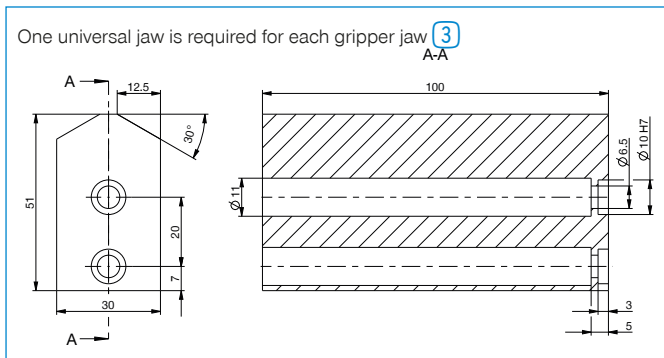
**KAG500IL**



Y-Plug-in Connector

**B12-Y-5IL**

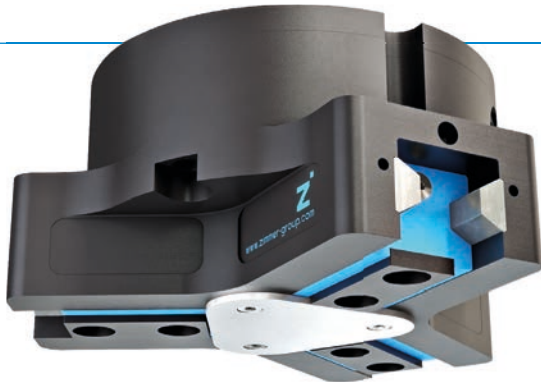
## ▶ TECHNICAL DRAWINGS ACCESSORIES



# 3-JAW CONCENTRIC GRIPPERS

## SERIES GPD5000

### ▶ PRODUCT ADVANTAGES



#### “The Universal One”

- ▶ Up to 30% more gripping force than the benchmark
- ▶ 10% more static forces and moments than the benchmark
- ▶ Gripper fingers up to 10% longer than the benchmark
- ▶ Gripper fingers weight up to 15% higher than the benchmark
- ▶ Sealed guide IP64 / Protector version IP67 (with purged air)
- ▶ Protected against corrosion
- ▶ Up to 30 million cycles without maintenance

### ▶ THE BEST PRODUCT FOR YOUR APPLICATION



#### ▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

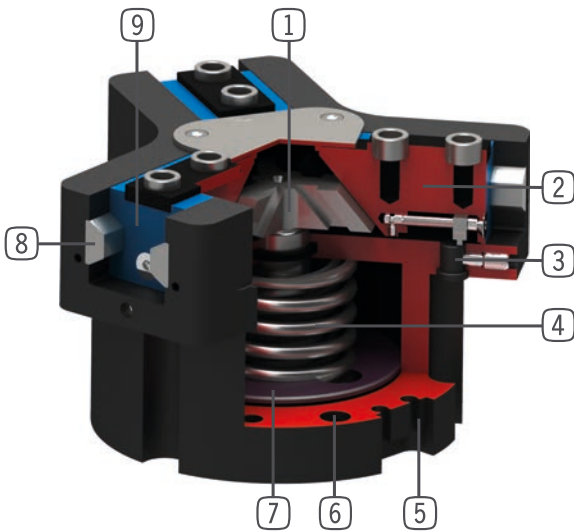
[www.zimmer-group.com](http://www.zimmer-group.com)

#### HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GPD5010	<input type="checkbox"/>	<input type="checkbox"/>	- <input type="checkbox"/>	-A
Basis version	N				
High force	S				
For external gripping, self-locking, spring closing			C		
For internal gripping, self-locking, spring opening			O		
temperature-resistant version to 130 °C					20
Protector version IP67 for use in adverse environments (with purged air)					21
temperature-resistant protector version IP67 for use in adverse environments (with purged air) to 130 °C					24

## ► BENEFITS IN DETAIL



- ① **Wedge hook mechanism**
  - high forces and moments capacity
  - Synchronized gripper jaw movement
- ② **Gripper jaw**
  - Gripper fingers mounted using removable centring sleeves
  - Lubricated for life via incorporated lubrication slots
- ③ **Mounting block**
  - mounting for inductive proximity switch
- ④ **Integrated gripping force safety device**
  - Spring built into cylinder chamber as an energy store
- ⑤ **Sensing slot**
  - mounting and positioning of magnetic field sensors
- ⑥ **Mounting and positioning**
  - Alternatively, on several sides for customized mounting
  - Pneumatic and electrical versions identical apart from height
- ⑦ **Drive**
  - Double-acting pneumatic rotor cylinder
- ⑧ **Steel Linear Guide**
  - Steel in steel guide
  - Enables use of extremely long gripper fingers
- ⑨ **Dual lip seal**
  - IP64 and up to IP67 (with purged air) for Protector version
  - Prevents grease from being squeezed out, increasing service life

## ► TERMS

<b>Gripping force:</b>	arithmetic sum of the individual forces occurring at the jaws
<b>Closing/opening time:</b>	Time required for the gripper jaws to travel the entire stroke distance
<b>Repeatability:</b>	at end stops after 50/100 consecutive cycles
<b>Cycle:</b>	Path that the pistons travel for a complete opening and closing movement
<b>Maintenance:</b>	recommended at 30 mil. cycles (please see the installation instructions, download from <a href="http://www.zimmer-group.com">www.zimmer-group.com</a> )

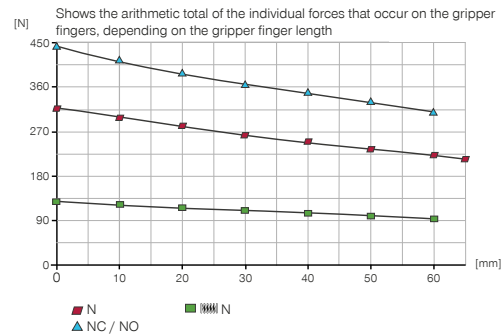
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5003

### ▶ PRODUCT SPECIFICATIONS

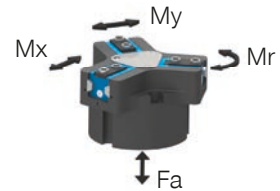


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	7
Mx [Nm]	14
My [Nm]	13
Fa [N]	550

### ▶ TECHNICAL DATA

Order no.	▶ Technical Data*		
	GPD5003N-00-A	GPD5003NC-00-A	GPD5003NO-00-A
Stroke per jaw [mm]	2.5	2.5	2.5
Gripping force in closing [N]	310	440	
Gripping force in opening [N]	335		465
Gripping force secured by spring min. [N]		130	130
Closing time [s]	0.015	0.01	0.02
Opening time [s]	0.015	0.02	0.01
Permissible weight per jaw max [kg]	0.12	0.12	0.12
Length of the gripper fingers max. [mm]	65	60	60
Repetition accuracy +/- [mm]	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4
Operating pressure max. [bar]	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	10 ... +90
Air volume per cycle [cm³]	4.2	9.5	9.5
Protection to IEC 60529	IP64	IP64	IP64
Weight [kg]	0.14	0.18	0.18

Order no.	▶ Technical Data - High Temperature Version		
	GPD5003N-20-A	GPD5003NC-20-A	GPD5003NO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130

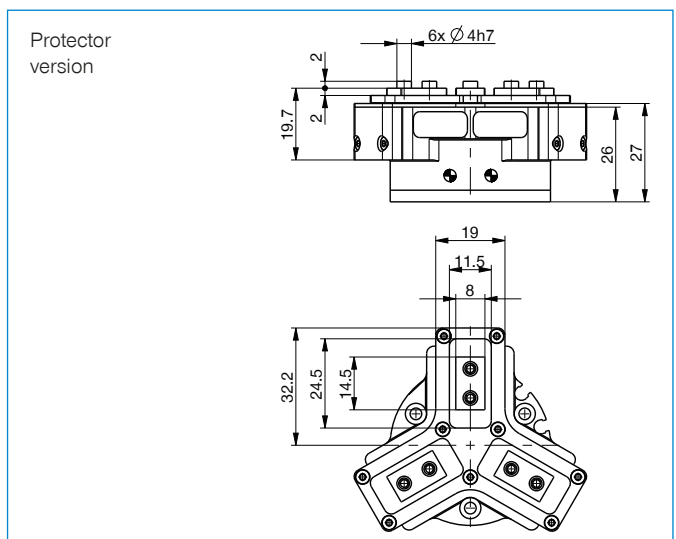
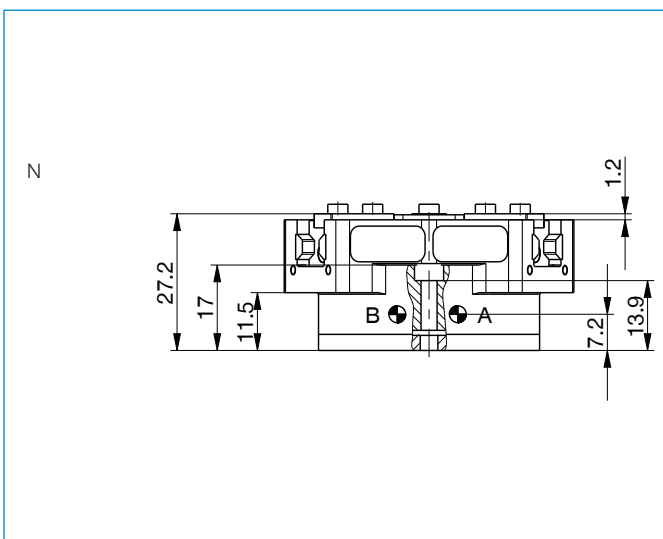
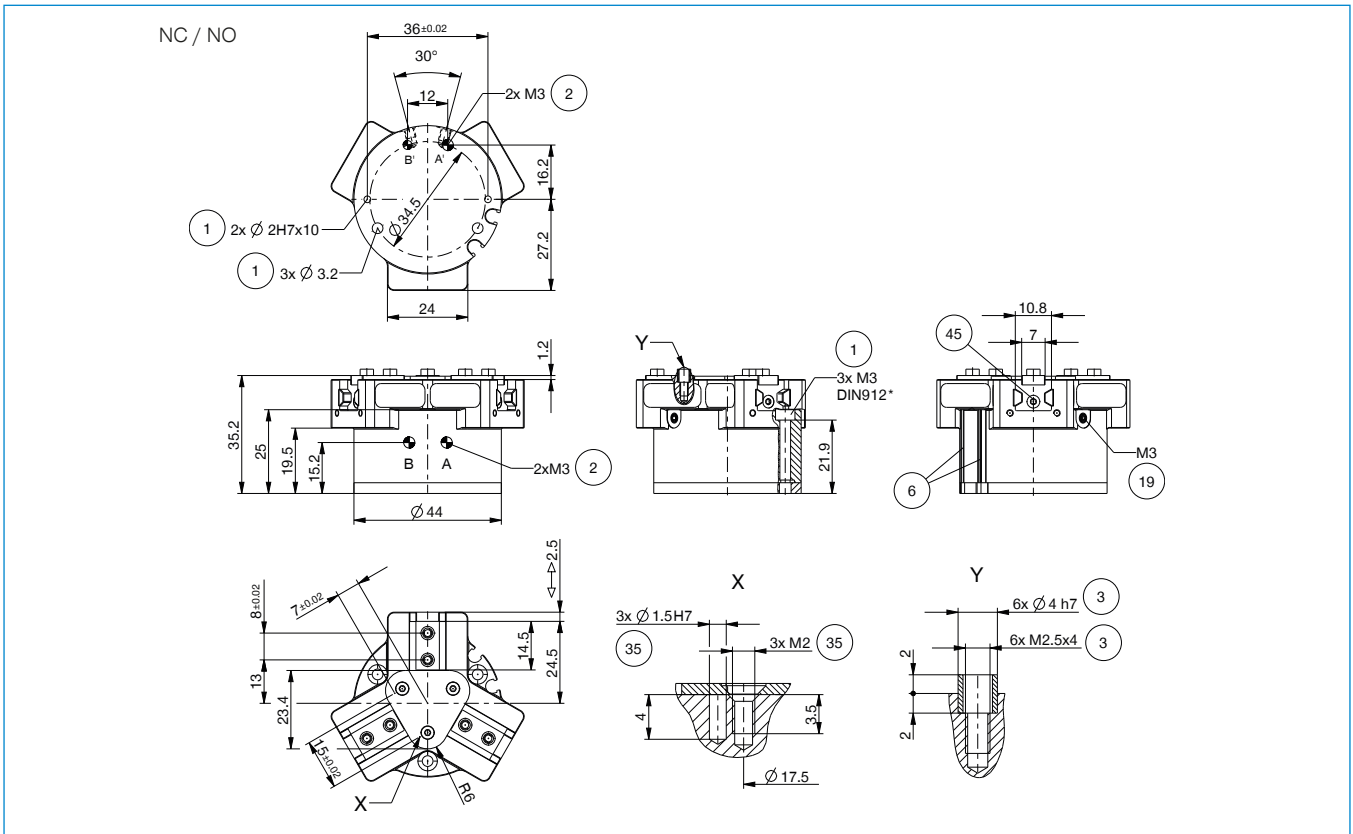
Order no.	▶ Technical Data - Protector Version		
	GPD5003N-21-A	GPD5003NC-21-A	GPD5003NO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**
Weight [kg]	0.18	0.22	0.22

Order no.	▶ Technical Data - High Temperature Protector Version		
	GPD5003N-24-A	GPD5003NC-24-A	GPD5003NO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**
Weight [kg]	0.18	0.22	0.22

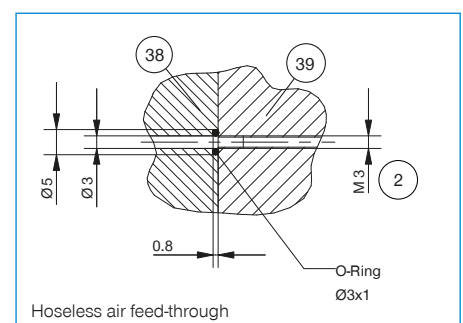
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

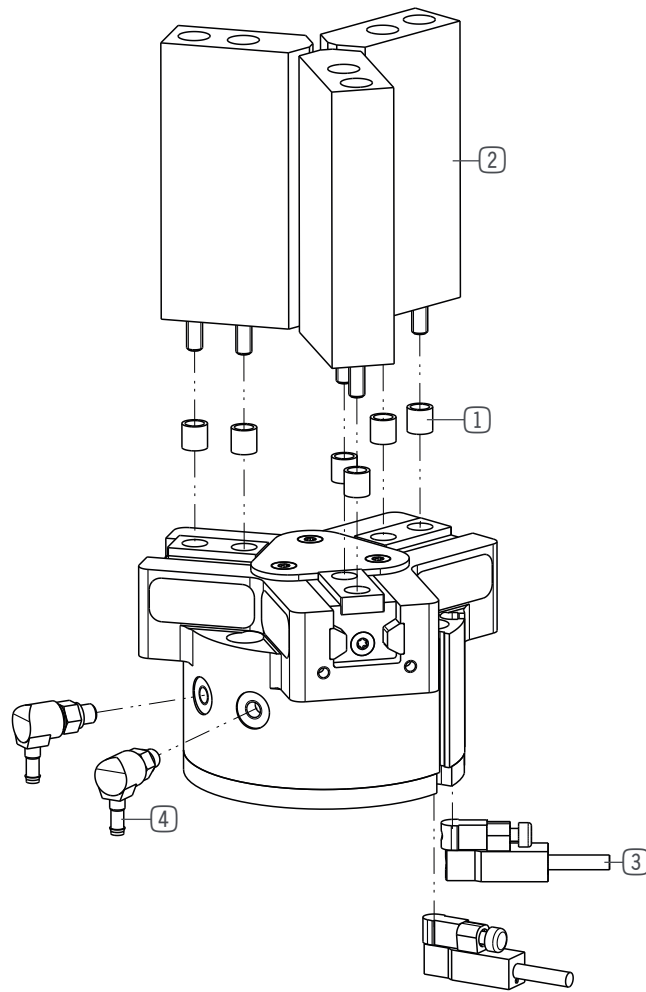


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- ㉚ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5003



### ► INCLUDED IN DELIVERY



Centering Disc

DST06510



**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5003AL**



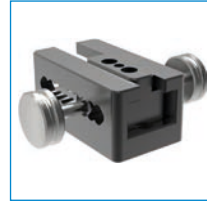
Universal jaw steel

**UB5003ST**



Rubber Coated Tape Knobbed

**KF50N**



Aluminum adjustment jaw

**EB5003AL**



Steel adjustment jaw

**EB5003ST**



Pressure piece N / S

**ADS5003-01**



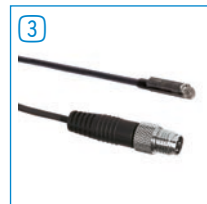
Pressure piece NC / NO / SC / SO

**ADS5003-02**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Plug-in connector customizable Straight - Connector M12

**S12-G-3**



Straight Fittings - Barb Style Connection

**GVM3**



Angled Fittings - Barb Style Connection

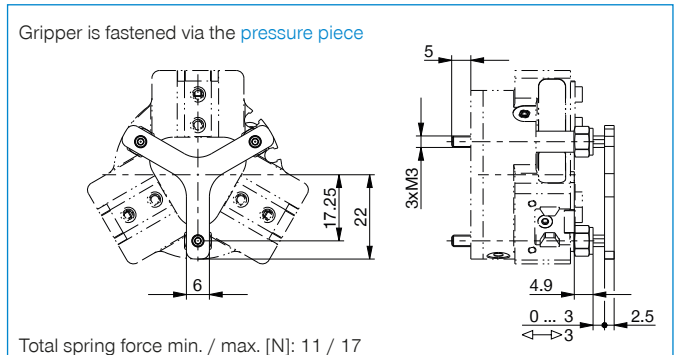
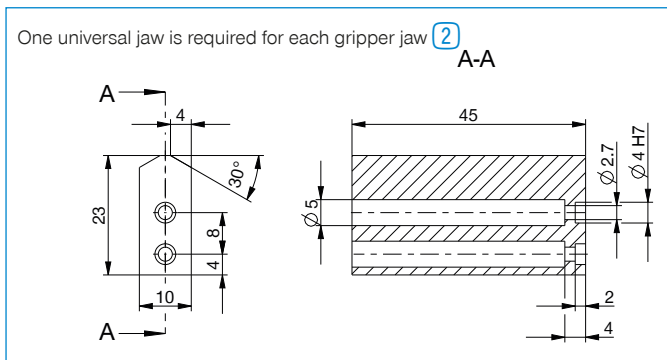
**WVM3**



Pressure Safety Valve

**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



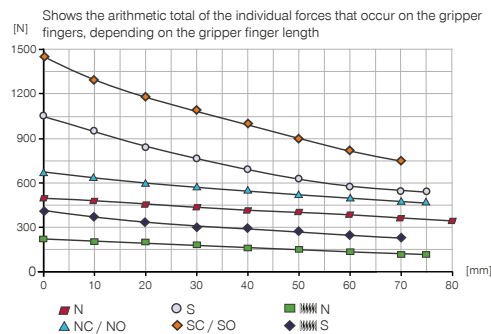
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5004

### ▶ PRODUCT SPECIFICATIONS

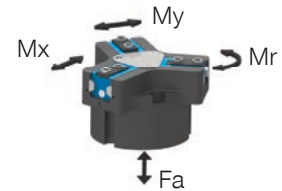


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	14
Mx [Nm]	29
My [Nm]	23
Fa [N]	750

### ▶ TECHNICAL DATA

#### ▶ Technical Data\*

Order no.	GPD5004N-00-A	GPD5004NC-00-A	GPD5004NO-00-A	GPD5004S-00-A	GPD5004SC-00-A	GPD5004SO-00-A
Stroke per jaw [mm]	4	4	4	2	2	2
Gripping force in closing [N]	460	650		1010	1430	
Gripping force in opening [N]	500		690	1100		1520
Gripping force secured by spring min. [N]		190	190		420	420
Closing time [s]	0.025	0.018	0.028	0.025	0.018	0.028
Opening time [s]	0.025	0.028	0.018	0.025	0.028	0.018
Permissible weight per jaw max [kg]	0.2	0.2	0.2	0.2	0.2	0.2
Length of the gripper fingers max. [mm]	80	75	75	75	70	70
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	11	21	21	11	21	21
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.27	0.33	0.33	0.27	0.33	0.33

#### ▶ Technical Data - High Temperature Version

Order no.	GPD5004N-20-A	GPD5004NC-20-A	GPD5004NO-20-A	GPD5004S-20-A	GPD5004SC-20-A	GPD5004SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

#### ▶ Technical Data - Protector Version

Order no.	GPD5004N-21-A	GPD5004NC-21-A	GPD5004NO-21-A	GPD5004S-21-A	GPD5004SC-21-A	GPD5004SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.35	0.41	0.41	0.35	0.41	0.41

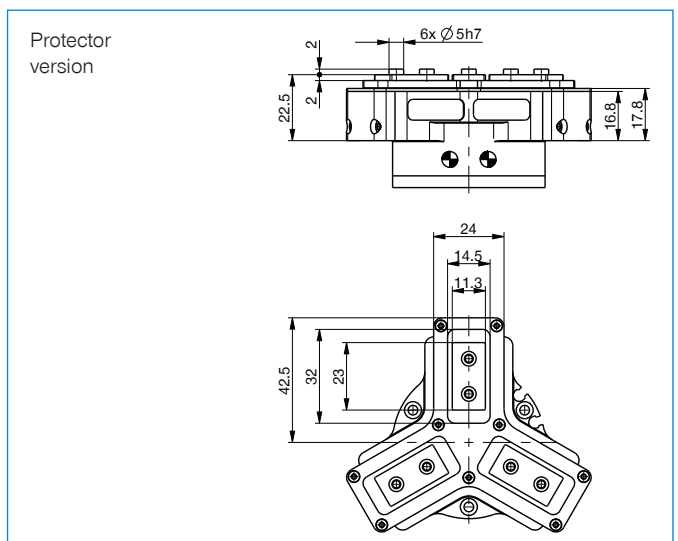
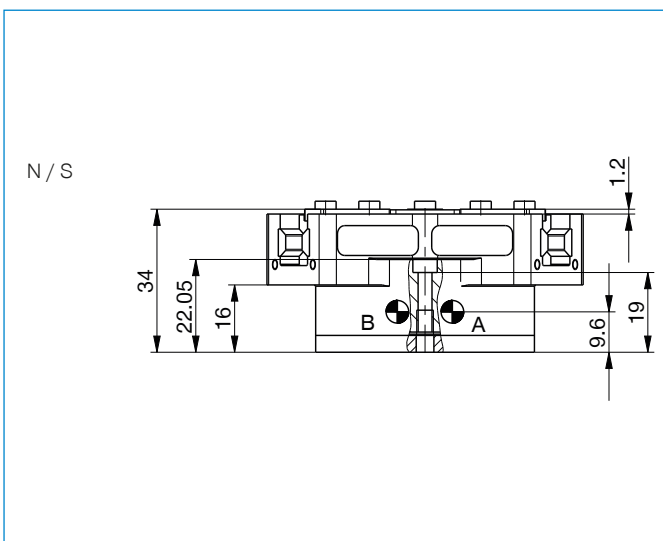
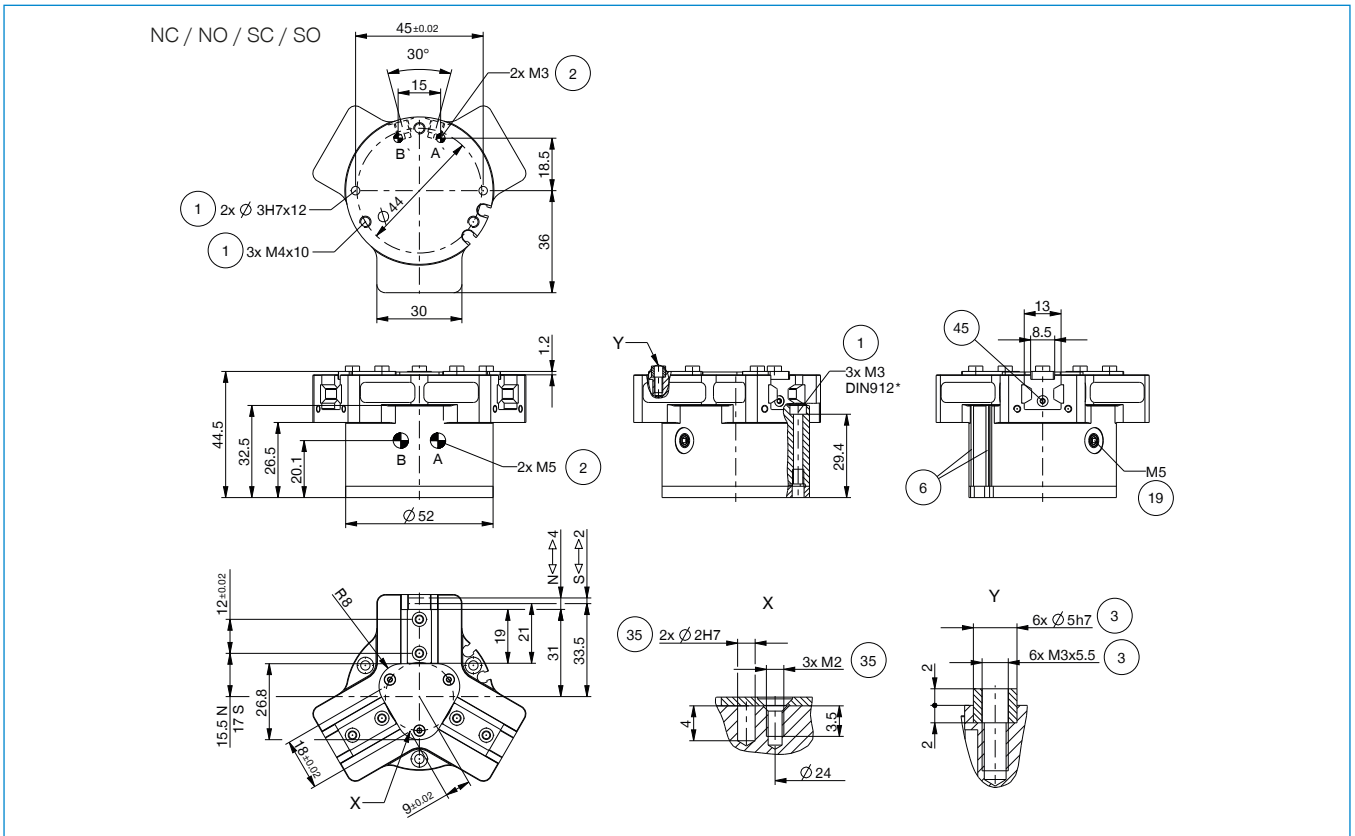
#### ▶ Technical Data - High Temperature Protector Version

Order no.	GPD5004N-24-A	GPD5004NC-24-A	GPD5004NO-24-A	GPD5004S-24-A	GPD5004SC-24-A	GPD5004SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.35	0.41	0.41	0.35	0.41	0.41

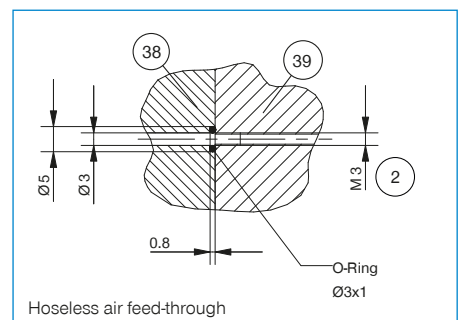
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

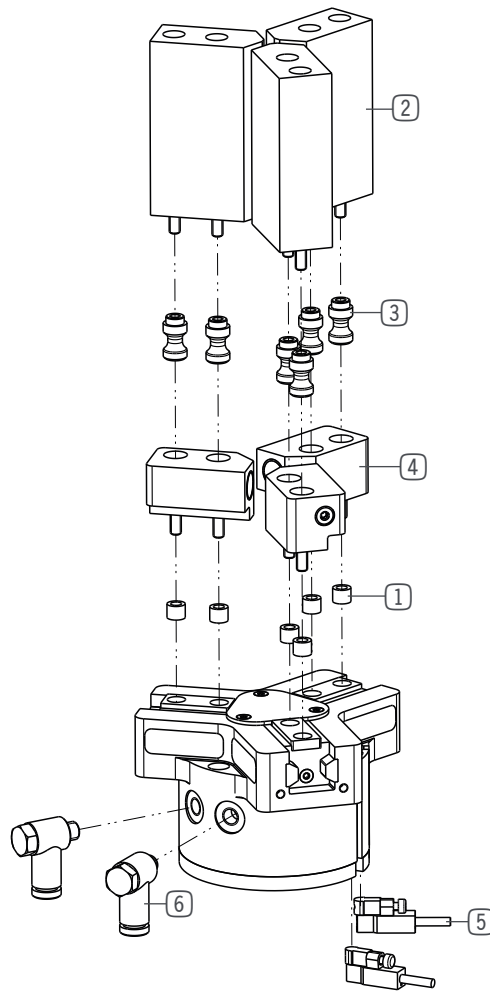


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- ④⑤ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5004



### ► INCLUDED IN DELIVERY



Centering Disc

015761

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5004AL**



Universal jaw steel

**UB5004ST**



Aluminum adjustment jaw

**EB5004AL**



Steel adjustment jaw

**EB5004ST**



Pressure piece N / S

**ADS5004-01**



Pressure piece NC / NO / SC / SO

**ADS5004-02**



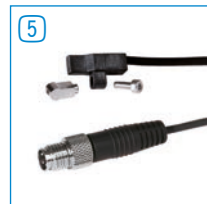
Changeable jaw, loose-part-set

**WB5004L**



Changeable jaw, fix-part

**WB5004F**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Straight Fittings - Quick Connect Style

**GVM5**



Angled Fittings - Quick Connect Style

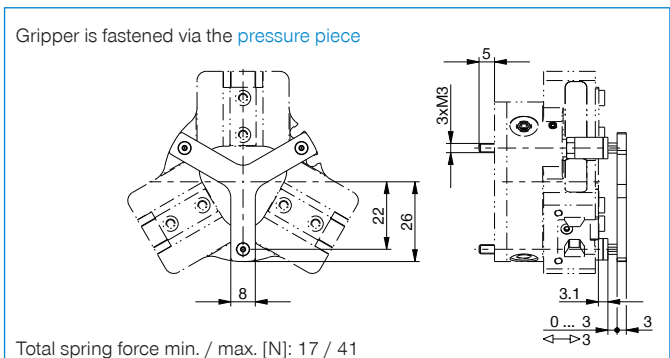
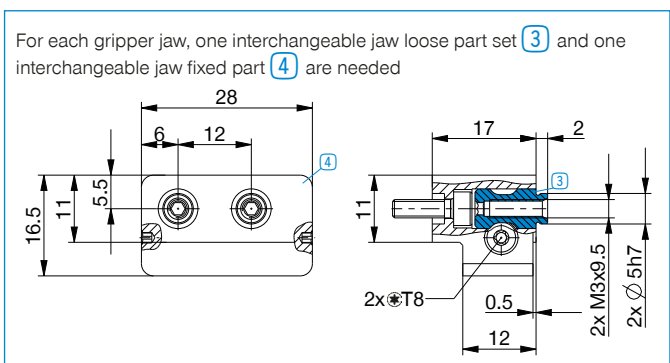
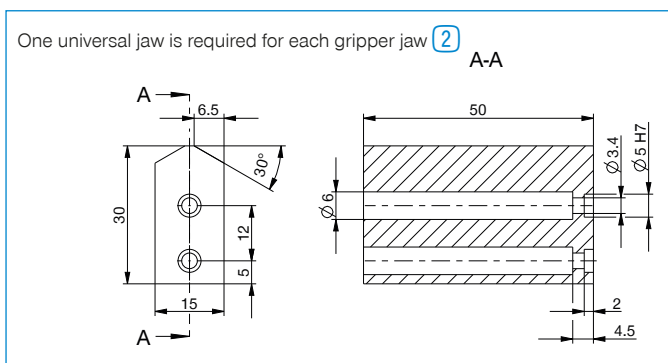
**WVM5**



Pressure Safety Valve

**DSV1-8**

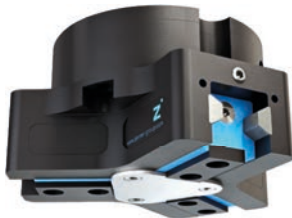
**▶ TECHNICAL DRAWINGS ACCESSORIES**



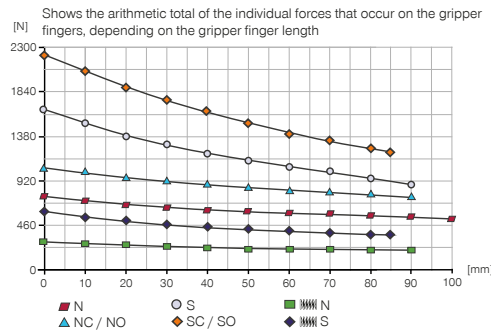
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5006

### ▶ PRODUCT SPECIFICATIONS

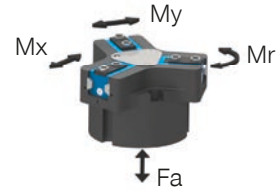


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	43
Mx [Nm]	70
My [Nm]	46
Fa [N]	1250

### ▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPD5006N-00-A	GPD5006NC-00-A	GPD5006NO-00-A	GPD5006S-00-A	GPD5006SC-00-A	GPD5006SO-00-A
Stroke per jaw [mm]	6	6	6	3	3	3
Gripping force in closing [N]	740	1020		1620	2240	
Gripping force in opening [N]	800		1080	1750		2370
Gripping force secured by spring min. [N]		280	280		620	620
Closing time [s]	0.028	0.018	0.038	0.028	0.018	0.038
Opening time [s]	0.028	0.038	0.018	0.028	0.038	0.018
Permissible weight per jaw max [kg]	0.4	0.4	0.4	0.4	0.4	0.4
Length of the gripper fingers max. [mm]	100	90	90	90	85	85
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	22	43	43	22	43	43
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.48	0.58	0.58	0.48	0.58	0.58

Order no.	▶ Technical Data - High Temperature Version					
	GPD5006N-20-A	GPD5006NC-20-A	GPD5006NO-20-A	GPD5006S-20-A	GPD5006SC-20-A	GPD5006SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

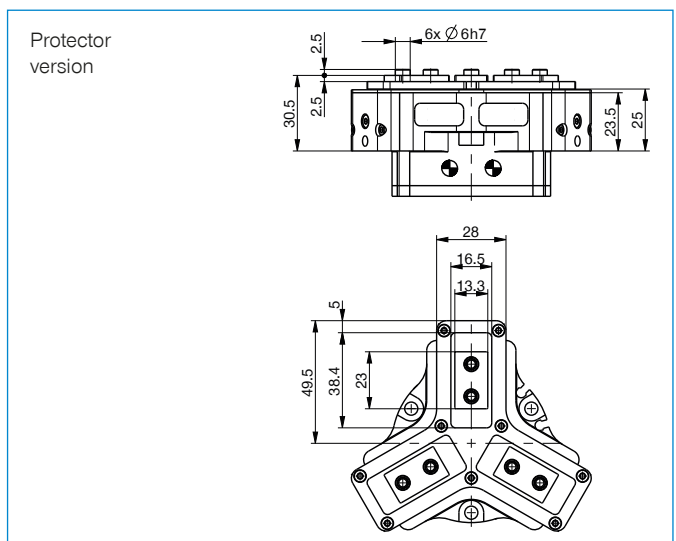
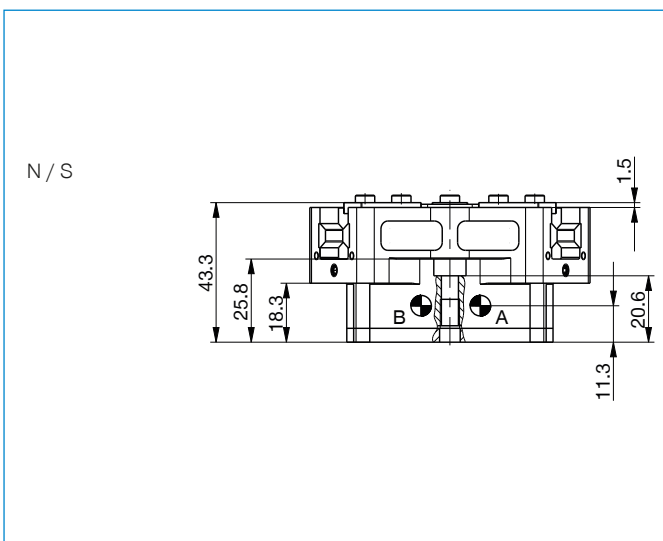
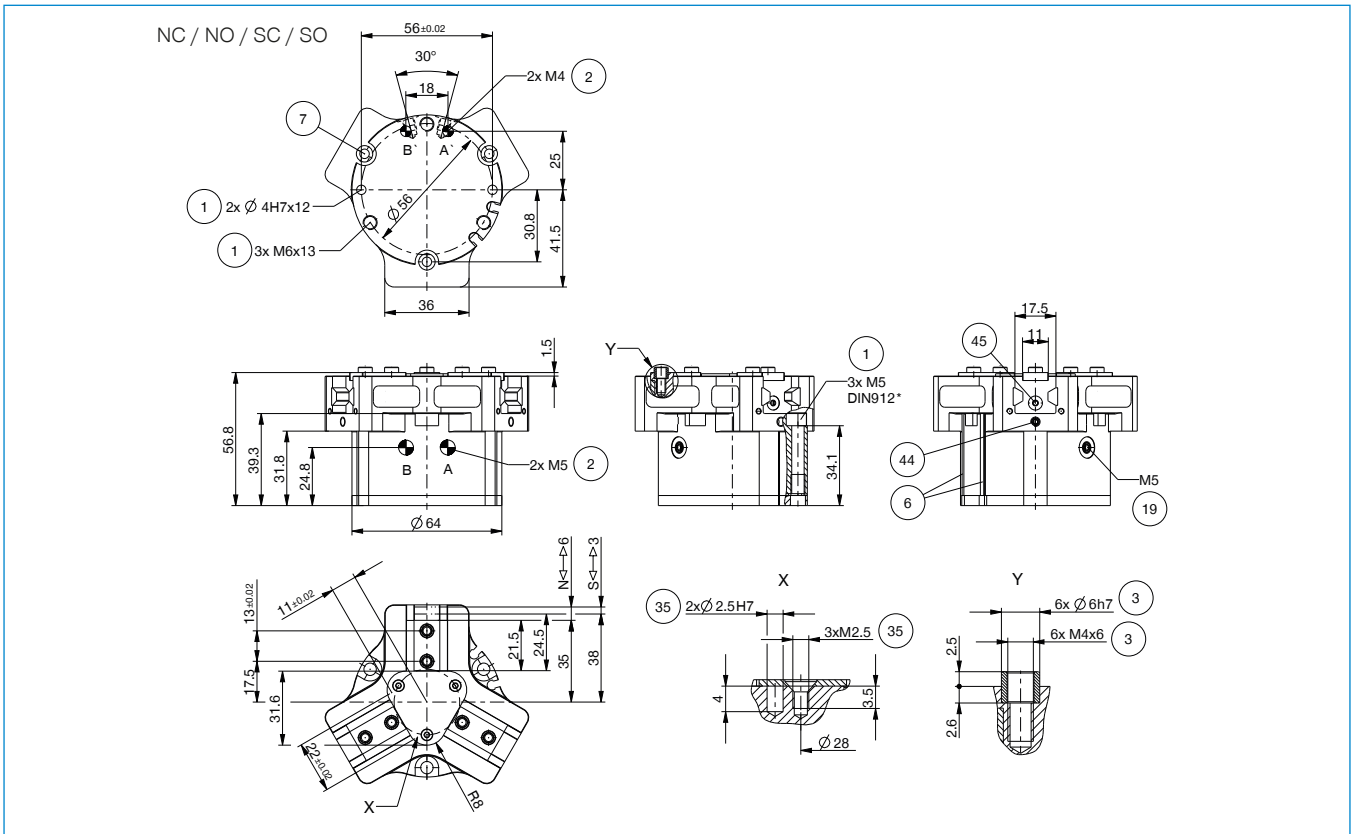
Order no.	▶ Technical Data - Protector Version					
	GPD5006N-21-A	GPD5006NC-21-A	GPD5006NO-21-A	GPD5006S-21-A	GPD5006SC-21-A	GPD5006SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.61	0.71	0.71	0.61	0.71	0.71

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPD5006N-24-A	GPD5006NC-24-A	GPD5006NO-24-A	GPD5006S-24-A	GPD5006SC-24-A	GPD5006SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.61	0.71	0.71	0.61	0.71	0.71

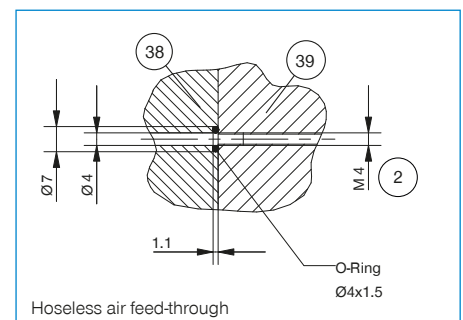
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

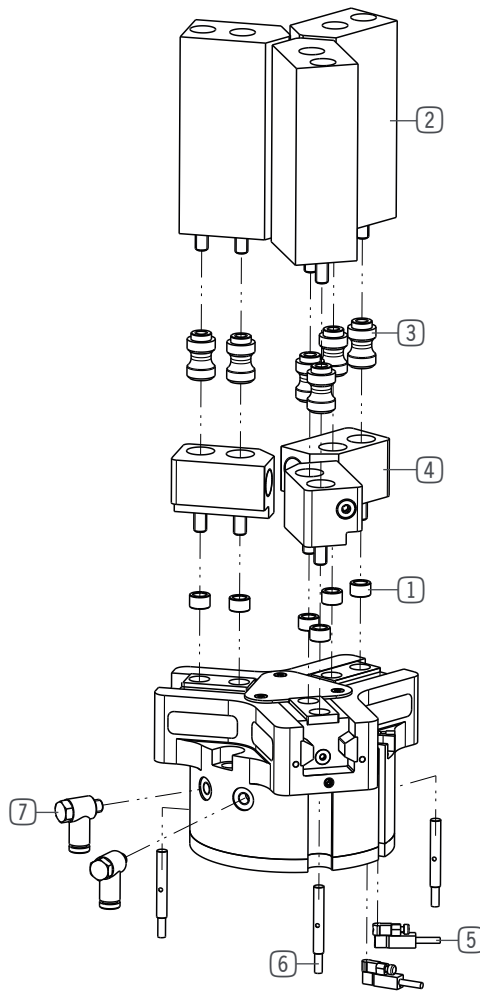


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5006



### ► INCLUDED IN DELIVERY



Centering Disc

024230



**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5006AL**



Universal jaw steel

**UB5006ST**



Aluminum adjustment jaw

**EB5006AL**



Steel adjustment jaw

**EB5006ST**



Changeable jaw, loose-part-set

**WB5006L**



Changeable jaw, fix-part

**WB5006F**



Pressure piece N / S

**ADS5006-01**



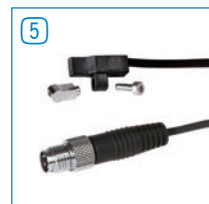
Pressure piece NC / NO / SC / SO

**ADS5006-02**



Inductive Proximity Switch Cable 0,3 m - Connector M8

**NJ4-E2SK-01**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



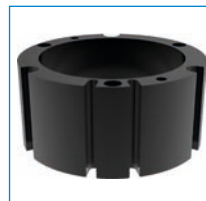
2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Angled Fittings - Quick Connect Style

**WVM5**



Compensation module N / S

**ZUB5006DNS**

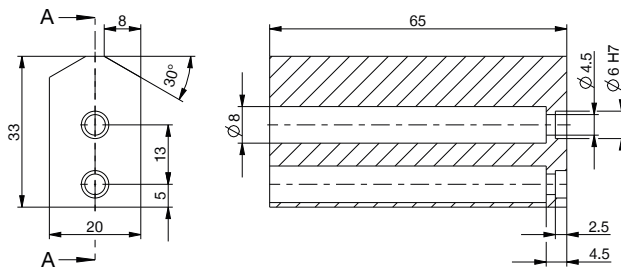


Compensation module NC / NO / SC / SO

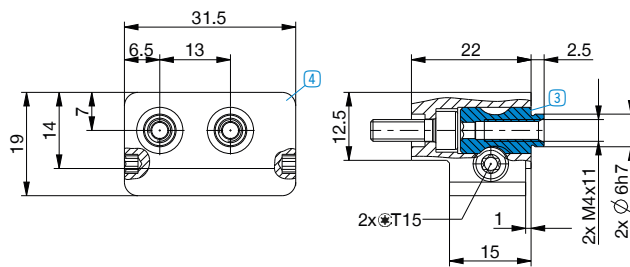
**ZUB5006DCO**

**▶ TECHNICAL DRAWINGS ACCESSORIES**

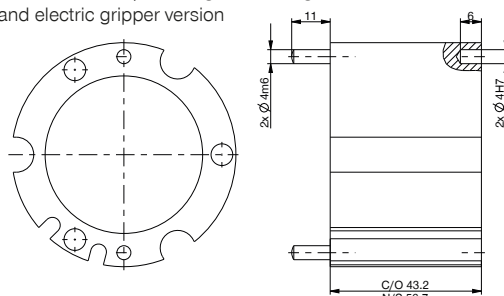
One universal jaw is required for each gripper jaw **2** **A-A**



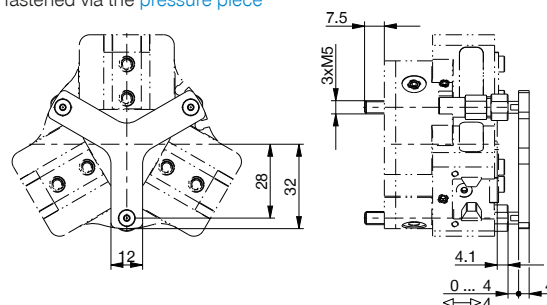
For each gripper jaw, one interchangeable jaw loose part set **3** and one interchangeable jaw fixed part **4** are needed



**Compensation module** for compensating for the height differences between the pneumatic and electric gripper version



Gripper is fastened via the **pressure piece**



Total spring force min. / max. [N]: 36 / 77

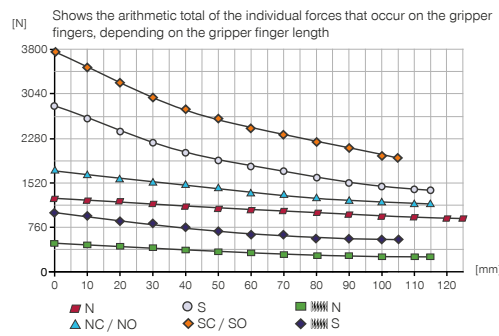
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5008

### ▶ PRODUCT SPECIFICATIONS

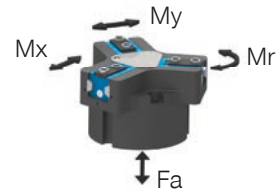


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
Mx [Nm]	105
My [Nm]	65
Fa [N]	1900

### ▶ TECHNICAL DATA

#### ▶ Technical Data\*

Order no.	GPD5008N-00-A	GPD5008NC-00-A	GPD5008NO-00-A	GPD5008S-00-A	GPD5008SC-00-A	GPD5008SO-00-A
Stroke per jaw [mm]	8	8	8	4	4	4
Gripping force in closing [N]	1260	1690		2780	3730	
Gripping force in opening [N]	1340		1770	2960		3910
Gripping force secured by spring min. [N]		430	430		950	950
Closing time [s]	0.048	0.035	0.055	0.048	0.035	0.055
Opening time [s]	0.048	0.055	0.035	0.048	0.055	0.035
Permissible weight per jaw max [kg]	0.7	0.7	0.7	0.7	0.7	0.7
Length of the gripper fingers max. [mm]	125	115	115	115	105	105
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	51	90	90	51	90	90
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.83	1	1	0.83	1	1

#### ▶ Technical Data - High Temperature Version

Order no.	GPD5008N-20-A	GPD5008NC-20-A	GPD5008NO-20-A	GPD5008S-20-A	GPD5008SC-20-A	GPD5008SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

#### ▶ Technical Data - Protector Version

Order no.	GPD5008N-21-A	GPD5008NC-21-A	GPD5008NO-21-A	GPD5008S-21-A	GPD5008SC-21-A	GPD5008SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.03	1.2	1.2	1.03	1.2	1.2

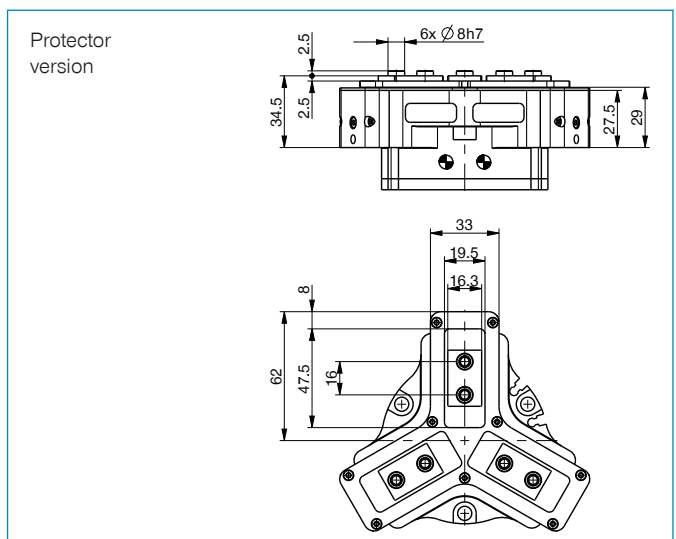
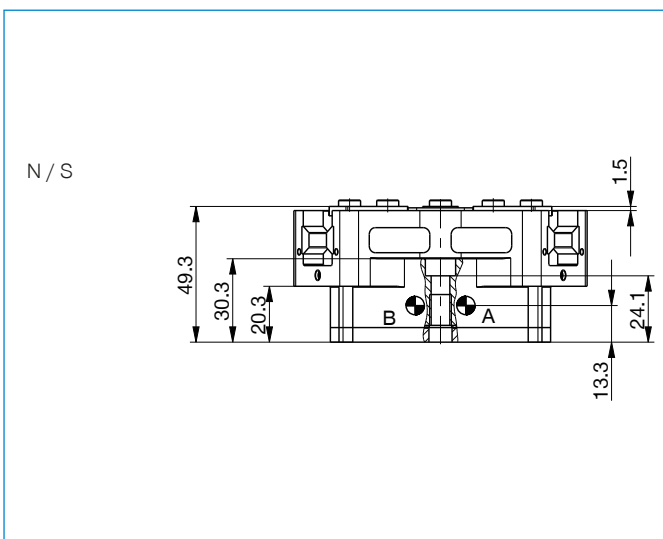
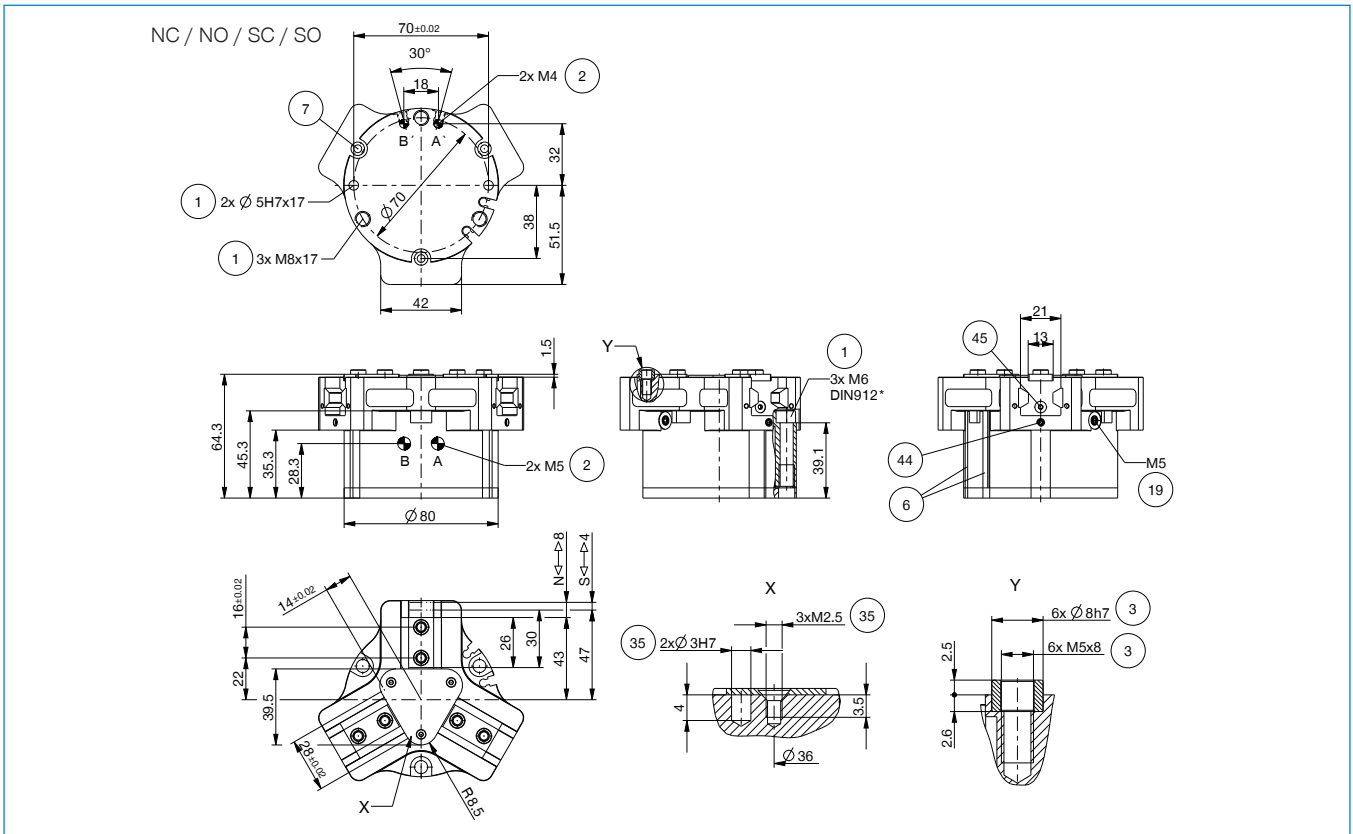
#### ▶ Technical Data - High Temperature Protector Version

Order no.	GPD5008N-24-A	GPD5008NC-24-A	GPD5008NO-24-A	GPD5008S-24-A	GPD5008SC-24-A	GPD5008SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.03	1.2	1.2	1.03	1.2	1.2

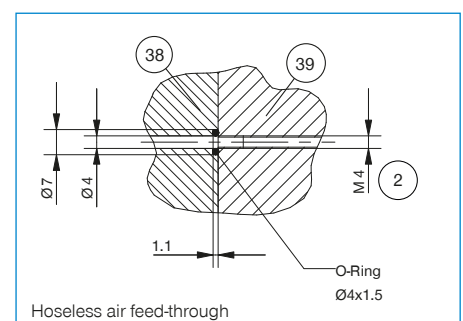
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

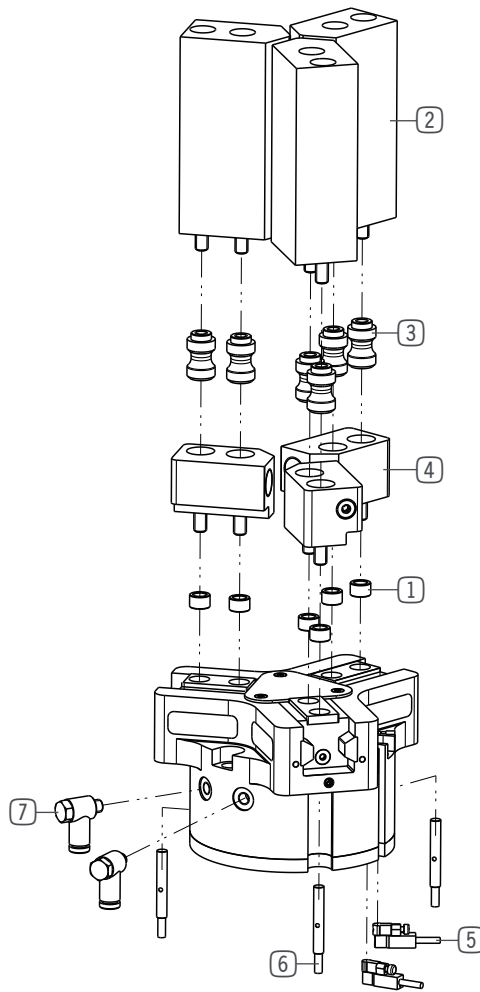


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5008



### ► INCLUDED IN DELIVERY



Centering Disc

024231

► RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5008AL



Universal jaw steel

UB5008ST



Aluminum adjustment jaw

EB5008AL



Steel adjustment jaw

EB5008ST



Changeable jaw, loose-part-set

WB5008L



Changeable jaw, fix-part

WB5008F



Pressure piece N / S

ADS5008-01



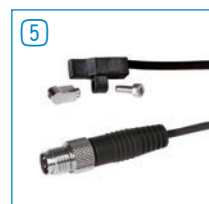
Pressure piece NC / NO / SC / SO

ADS5008-02



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



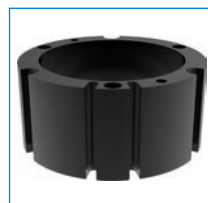
2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Angled Fittings - Quick Connect Style

WVM5



Compensation module N / S

ZUB5008DNS

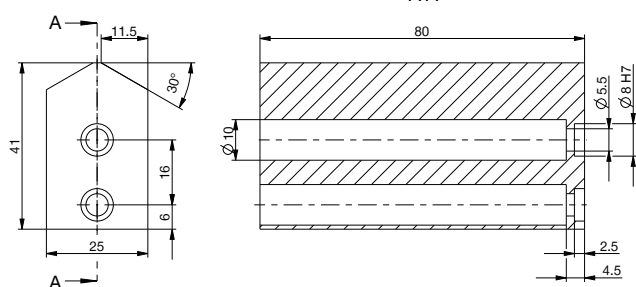


Compensation module NC / NO / SC / SO

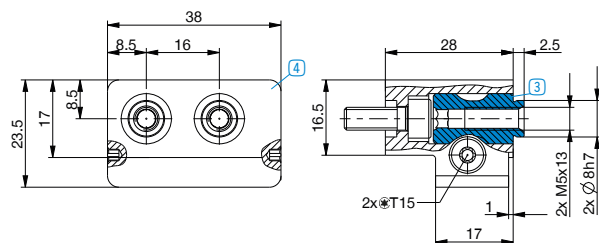
ZUB5008DCO

► TECHNICAL DRAWINGS ACCESSORIES

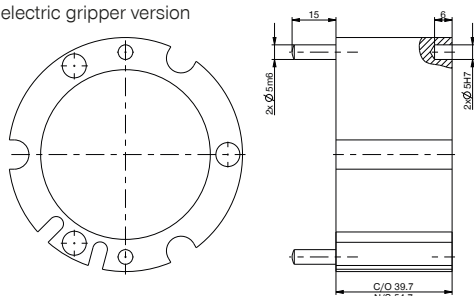
One universal jaw is required for each gripper jaw <sup>2</sup> **A-A**



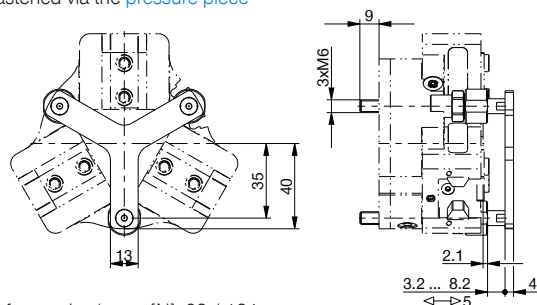
For each gripper jaw, one interchangeable jaw loose part set <sup>3</sup> and one interchangeable jaw fixed part <sup>4</sup> are needed



Compensation module for compensating for the height differences between the pneumatic and electric gripper version



Gripper is fastened via the pressure piece

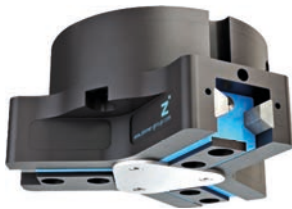


Total spring force min. / max. [N]: 62 / 124

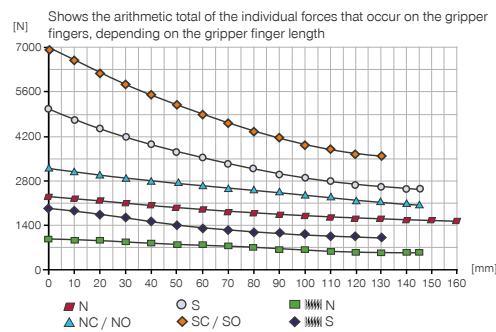
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5010

### ▶ PRODUCT SPECIFICATIONS

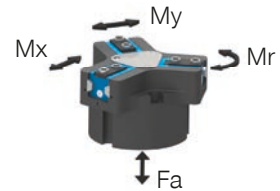


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	125
My [Nm]	95
Fa [N]	2700

### ▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPD5010N-00-A	GPD5010NC-00-A	GPD5010NO-00-A	GPD5010S-00-A	GPD5010SC-00-A	GPD5010SO-00-A
Stroke per jaw [mm]	10	10	10	5	5	5
Gripping force in closing [N]	2290	3140		5050	6930	
Gripping force in opening [N]	2400		3250	5280		7160
Gripping force secured by spring min. [N]		850	850		1880	1880
Closing time [s]	0.095	0.095	0.19	0.095	0.095	0.19
Opening time [s]	0.095	0.19	0.095	0.095	0.19	0.095
Permissible weight per jaw max [kg]	1.3	1.3	1.3	1.3	1.3	1.3
Length of the gripper fingers max. [mm]	160	145	145	145	130	130
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	100	200	200	100	200	200
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	1.45	1.9	1.9	1.45	1.9	1.9

Order no.	▶ Technical Data - High Temperature Version					
	GPD5010N-20-A	GPD5010NC-20-A	GPD5010NO-20-A	GPD5010S-20-A	GPD5010SC-20-A	GPD5010SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

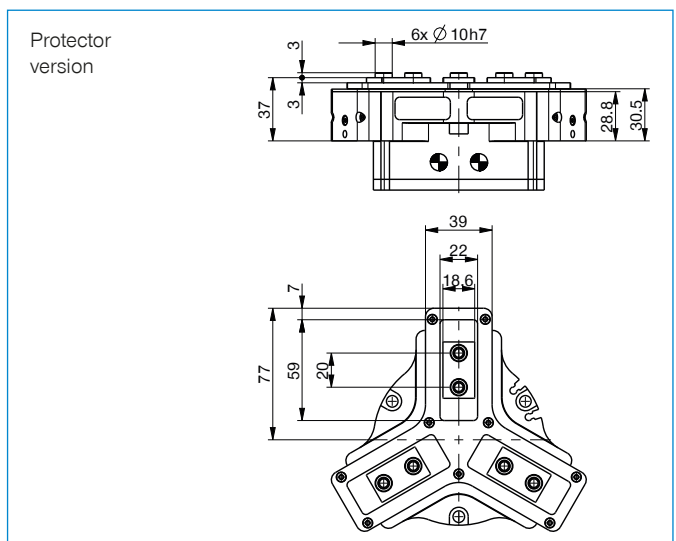
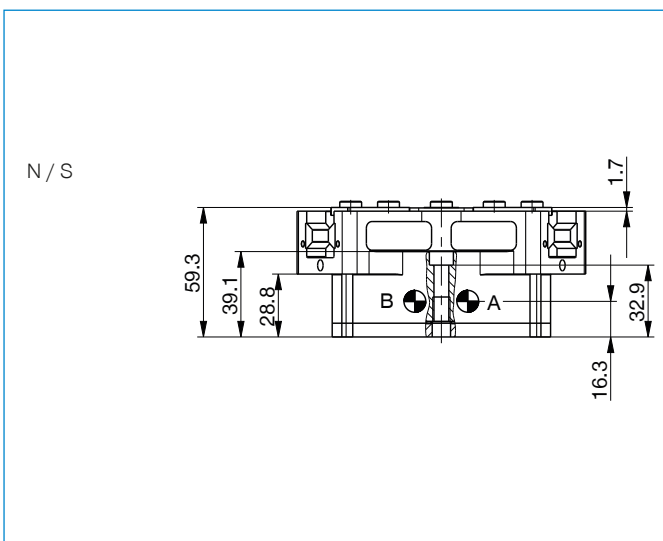
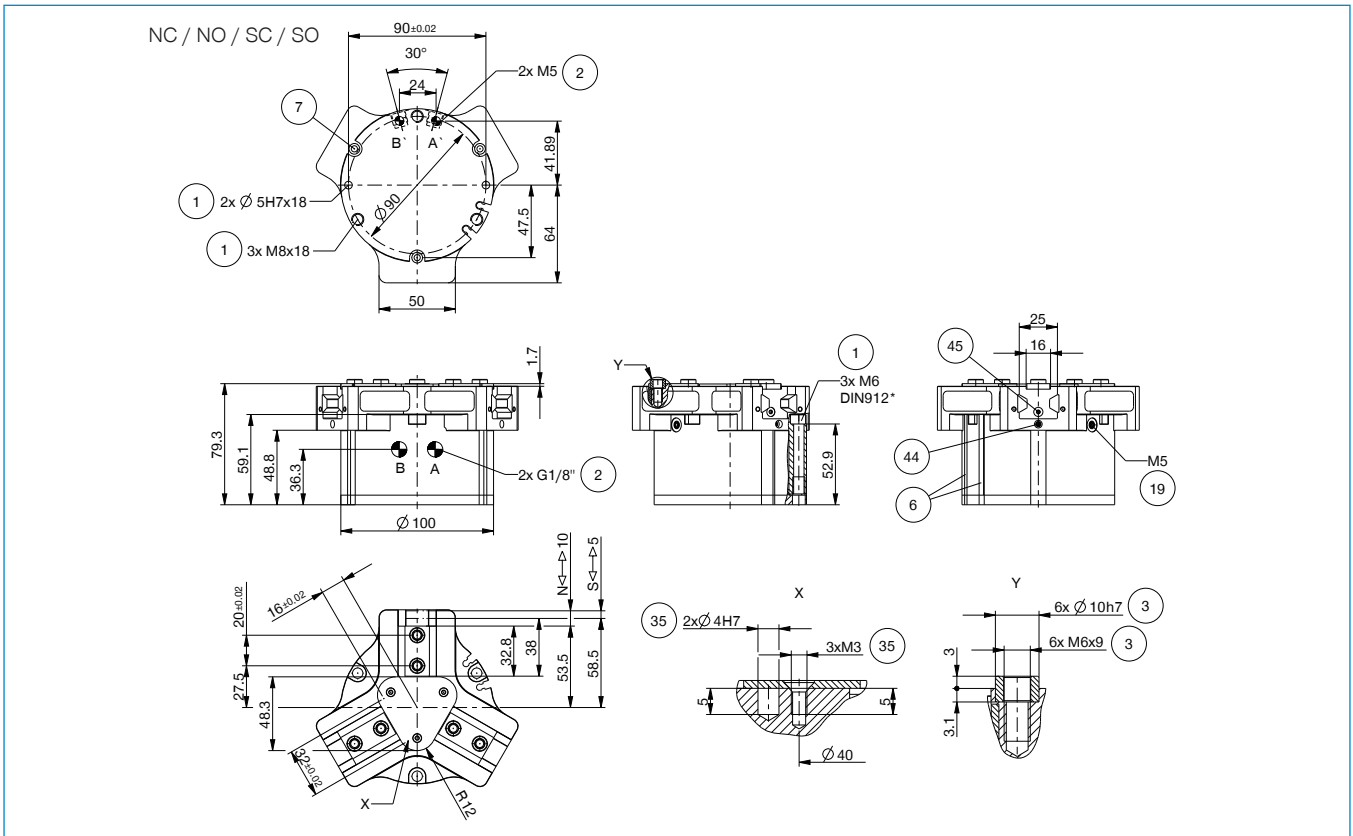
Order no.	▶ Technical Data - Protector Version					
	GPD5010N-21-A	GPD5010NC-21-A	GPD5010NO-21-A	GPD5010S-21-A	GPD5010SC-21-A	GPD5010SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.8	2.23	2.23	1.8	2.23	2.23

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPD5010N-24-A	GPD5010NC-24-A	GPD5010NO-24-A	GPD5010S-24-A	GPD5010SC-24-A	GPD5010SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +90
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.8	2.23	2.23	1.8	2.23	2.23

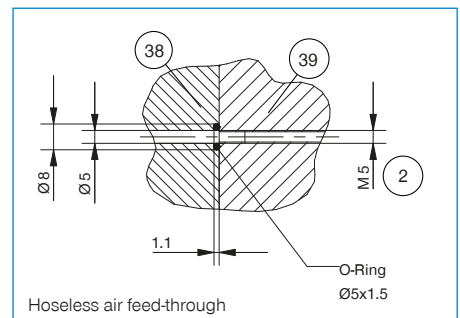
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

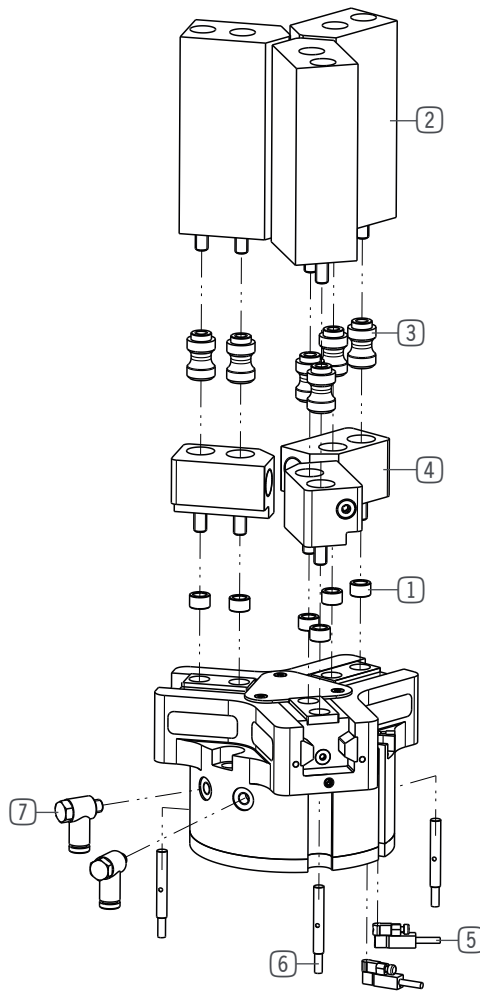


- |  |                                       |
|--|---------------------------------------|
| ① Gripper attachment                               | ③⑨ Gripper                            |
| ② Energy supply                                    | ④④ Clamp for sensor                   |
| ③ Fixing for gripper finger                        | ④⑤ Switch cam adjustment              |
| ⑥ Integrated slot for magnetic field sensor        | Ⓐ Air connection (close)              |
| ⑦ Mounting block                                   | Ⓑ Air connection (open)               |
| ⑱ Air purge connection option                      | Ⓐ Air connection, alternative (close) |
| ⑳ Attachment option for customer-specific fittings | Ⓑ Air connection, alternative (open)  |
| ㉘ Adapter  |                                       |



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5010



### ► INCLUDED IN DELIVERY



Centering Disc

018187



## ▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5010AL



Universal jaw steel

UB5010ST



Aluminum adjustment jaw

EB5010AL



Steel adjustment jaw

EB5010ST



Changeable jaw, loose-part-set

WB5010L



Changeable jaw, fix-part

WB5010F



Pressure piece N / S

ADS5010-01



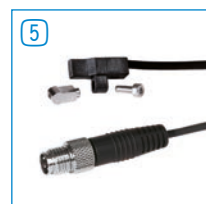
Pressure piece NC / NO / SC / SO

ADS5010-02



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



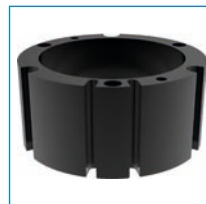
2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Angled Fittings - Quick Connect Style

WV1-8X6



Compensation module N / S

ZUB5010DNS

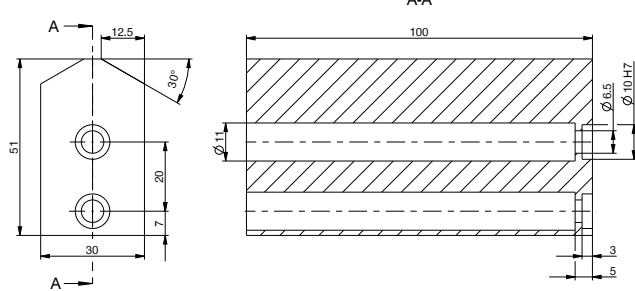


Compensation module NC / NO / SC / SO

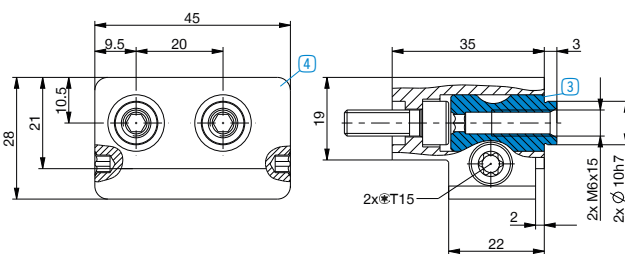
ZUB5010DCO

## ▶ TECHNICAL DRAWINGS ACCESSORIES

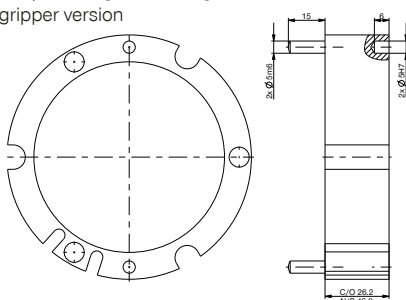
One universal jaw is required for each gripper jaw <sup>(2)</sup>



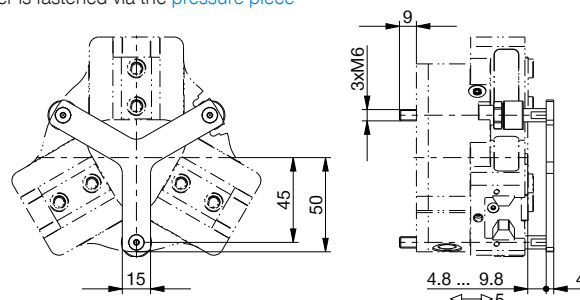
For each gripper jaw, one interchangeable jaw loose part set <sup>(3)</sup> and one interchangeable jaw fixed part <sup>(4)</sup> are needed



Compensation module for compensating for the height differences between the pneumatic and electric gripper version



Gripper is fastened via the pressure piece



Total spring force min. / max. [N]: 62 / 124

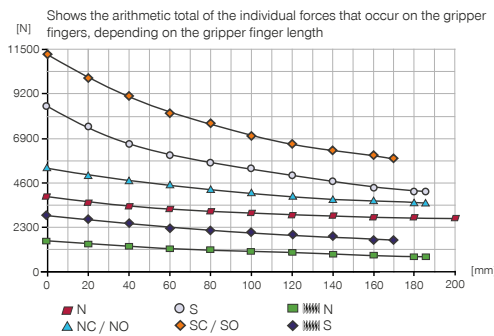
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5013

### ▶ PRODUCT SPECIFICATIONS

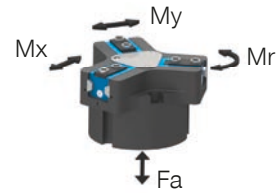


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	110
Mx [Nm]	150
My [Nm]	130
Fa [N]	3300

### ▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPD5013N-00-A	GPD5013NC-00-A	GPD5013NO-00-A	GPD5013S-00-A	GPD5013SC-00-A	GPD5013SO-00-A
Stroke per jaw [mm]	13	13	13	6	6	6
Gripping force in closing [N]	3770	5060		8310	11160	
Gripping force in opening [N]	3910		5200	8600		11450
Gripping force secured by spring min. [N]		1290	1290		2850	2850
Closing time [s]	0.19	0.15	0.25	0.19	0.15	0.25
Opening time [s]	0.19	0.25	0.15	0.19	0.25	0.15
Permissible weight per jaw max [kg]	2.4	2.4	2.4	2.4	2.4	2.4
Length of the gripper fingers max. [mm]	200	185	185	185	170	170
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	230	415	415	230	415	415
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	2.6	3.7	3.7	2.6	3.7	3.7

Order no.	▶ Technical Data - High Temperature Version					
	GPD5013N-20-A	GPD5013NC-20-A	GPD5013NO-20-A	GPD5013S-20-A	GPD5013SC-20-A	GPD5013SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

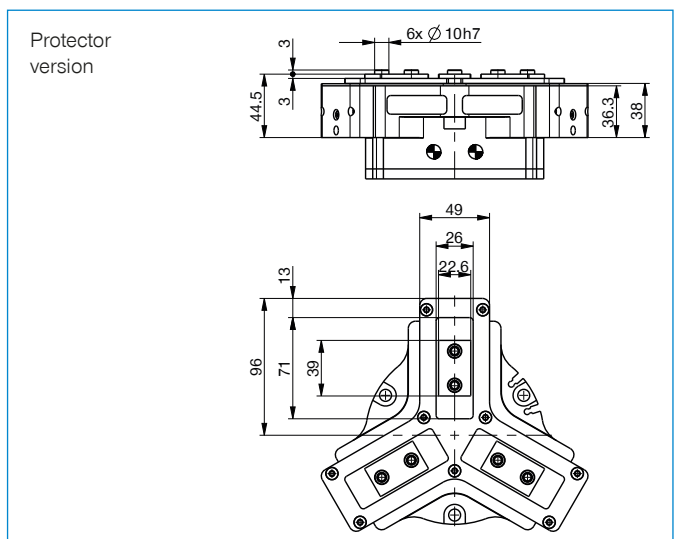
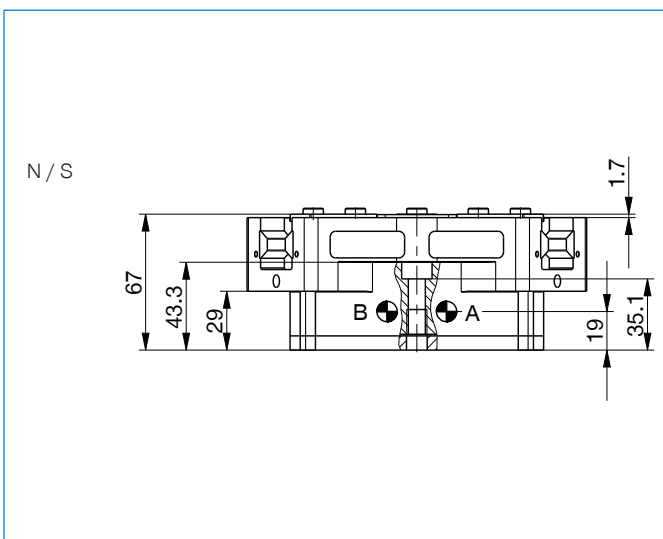
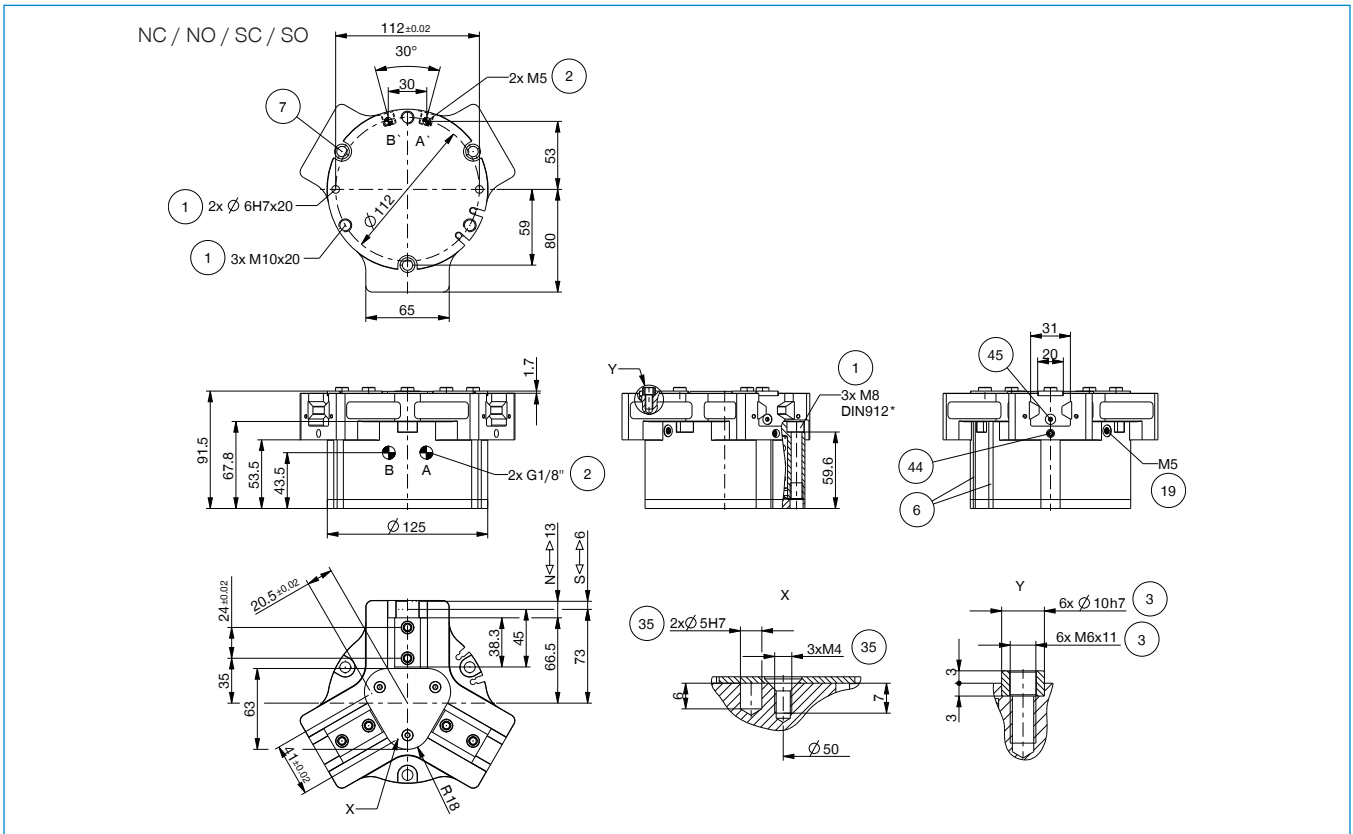
Order no.	▶ Technical Data - Protector Version					
	GPD5013N-21-A	GPD5013NC-21-A	GPD5013NO-21-A	GPD5013S-21-A	GPD5013SC-21-A	GPD5013SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	3.15	4.3	4.3	3.15	4.3	4.3

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPD5013N-24-A	GPD5013NC-24-A	GPD5013NO-24-A	GPD5013S-24-A	GPD5013SC-24-A	GPD5013SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	3.15	4.3	4.3	3.15	4.3	4.3

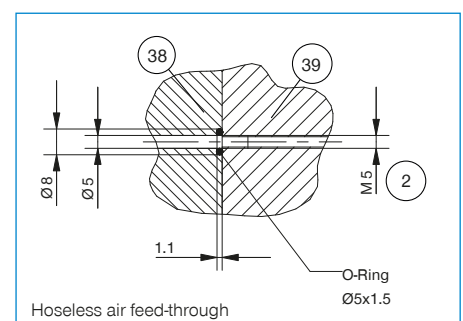
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

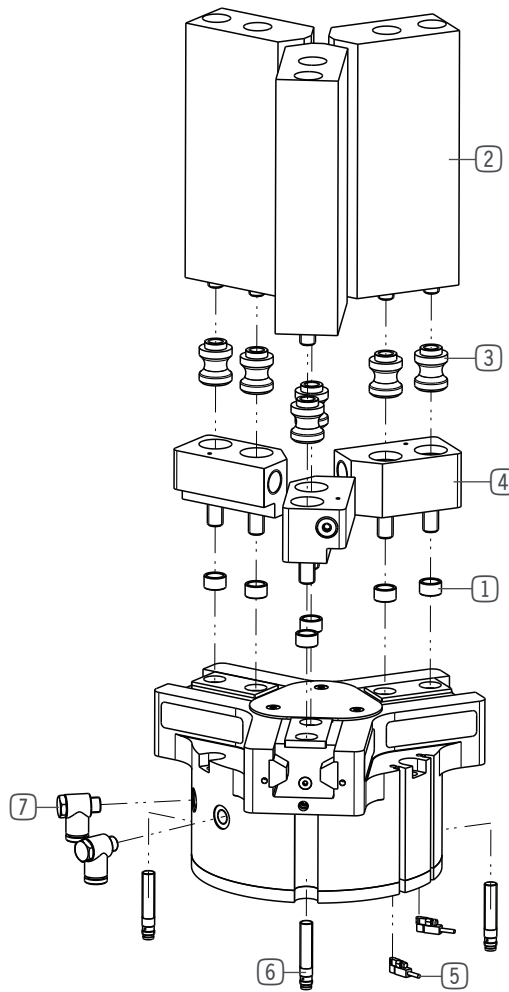


- |   |                                       |
|---|---------------------------------------|
| ① Gripper attachment                                | ③⑨ Gripper                            |
| ② Energy supply                                     | ④④ Clamp for sensor                   |
| ③ Fixing for gripper finger                         | ④⑤ Switch cam adjustment              |
| ⑥ Integrated slot for magnetic field sensor         | Ⓐ Air connection (close)              |
| ⑦ Mounting block                                    | Ⓑ Air connection (open)               |
| ⑱ Air purge connection option                       | Ⓐ Air connection, alternative (close) |
| ③⑤ Attachment option for customer-specific fittings | Ⓑ Air connection, alternative (open)  |
| ③⑧ Adapter  |                                       |



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5013



### ▶ INCLUDED IN DELIVERY



Centering Disc

018187

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5013AL**



Universal jaw steel

**UB5013ST**



Aluminum adjustment jaw

**EB5013AL**



Steel adjustment jaw

**EB5013ST**



Changeable jaw, loose-part-set

**WB5013L**



Changeable jaw, fix-part

**WB5013F**



Pressure piece N / S

**ADS5013-01**



Pressure piece NC / NO / SC / SO

**ADS5013-02**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Angled Fittings - Quick Connect Style

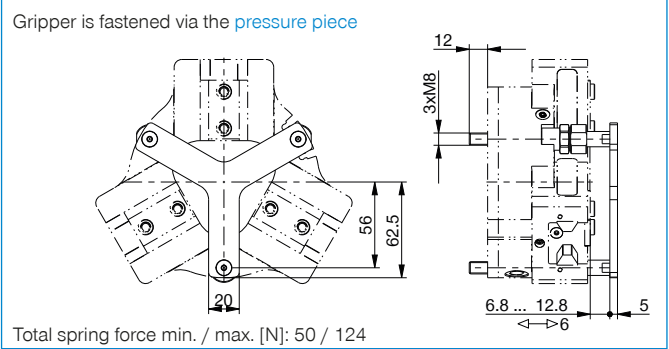
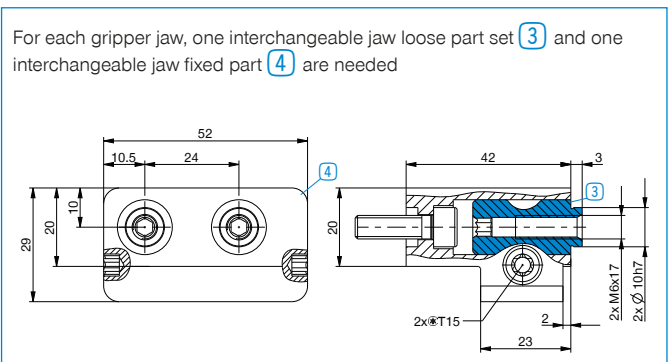
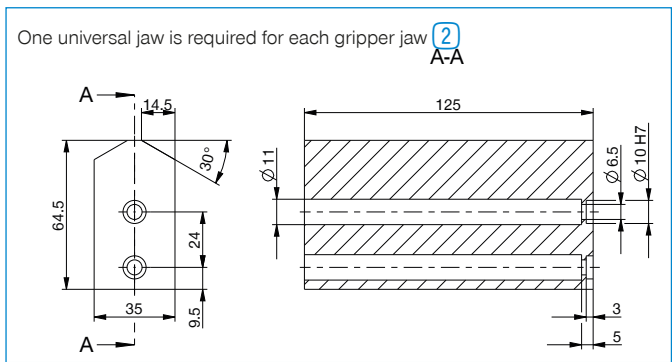
**WV1-8X6**



Pressure Safety Valve

**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



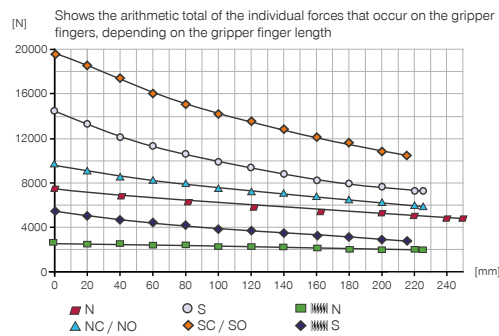
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5016

### ▶ PRODUCT SPECIFICATIONS

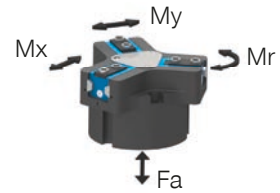


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	145
Mx [Nm]	195
My [Nm]	185
Fa [N]	5200

### ▶ TECHNICAL DATA

#### ▶ Technical Data\*

Order no.	GPD5016N-00-A	GPD5016NC-00-A	GPD5016NO-00-A	GPD5016S-00-A	GPD5016SC-00-A	GPD5016SO-00-A
Stroke per jaw [mm]	16	16	16	8	8	8
Gripping force in closing [N]	6870	9240		14700	19780	
Gripping force in opening [N]	7120		9490	15250		20330
Gripping force secured by spring min. [N]		2370	2370		5080	5080
Closing time [s]	0.4	0.3	0.5	0.4	0.3	0.5
Opening time [s]	0.4	0.5	0.3	0.4	0.5	0.3
Permissible weight per jaw max [kg]	3.8	3.8	3.8	3.8	3.8	3.8
Length of the gripper fingers max. [mm]	245	225	225	225	215	215
Repetition accuracy +/- [mm]	0.02	0.02	0.02	0.02	0.02	0.02
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	525	925	925	525	925	925
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	6.3	8.1	8.1	6.3	8.1	8.1

#### ▶ Technical Data - High Temperature Version

Order no.	GPD5016N-20-A	GPD5016NC-20-A	GPD5016NO-20-A	GPD5016S-20-A	GPD5016SC-20-A	GPD5016SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

#### ▶ Technical Data - Protector Version

Order no.	GPD5016N-21-A	GPD5016NC-21-A	GPD5016NO-21-A	GPD5016S-21-A	GPD5016SC-21-A	GPD5016SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	7.4	9.2	9.2	7.4	9.2	9.2

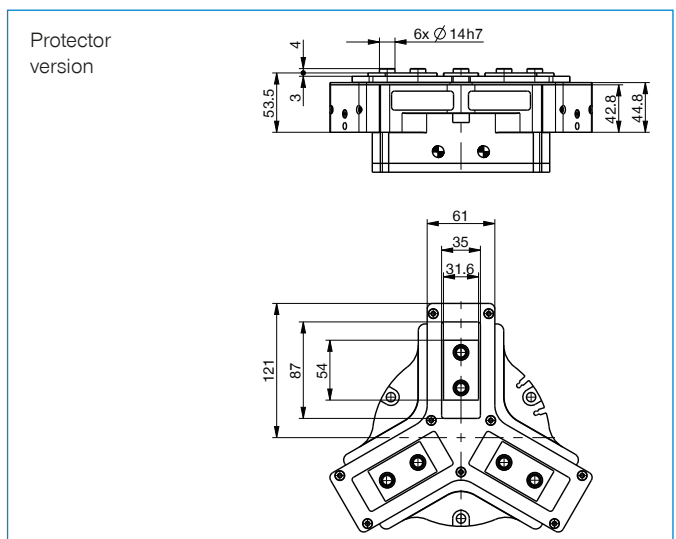
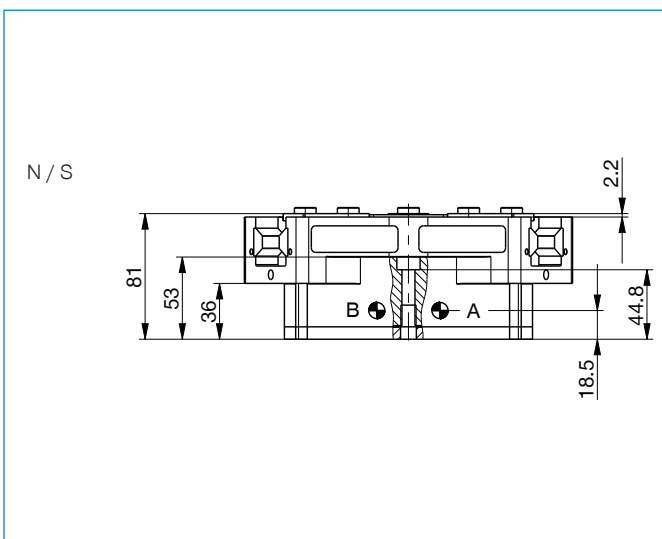
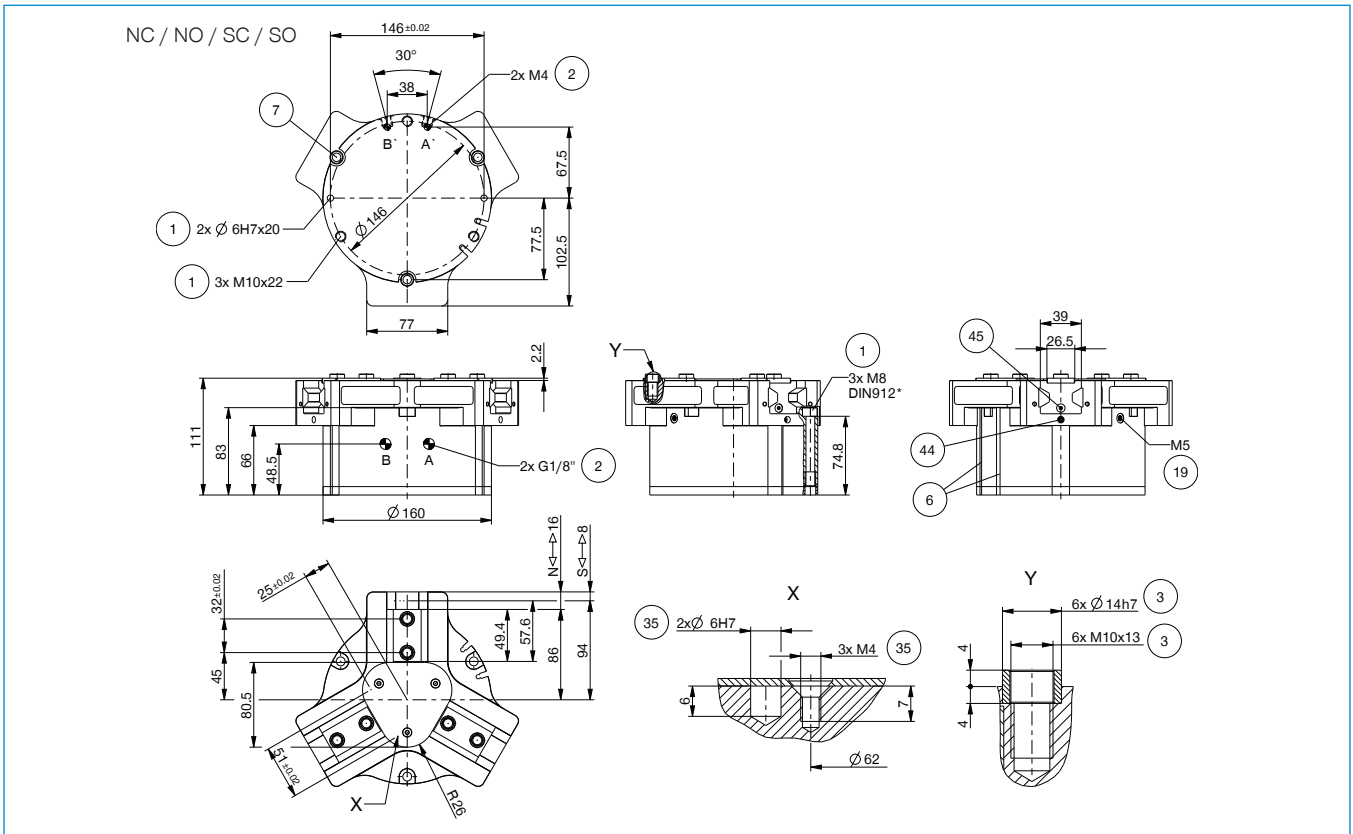
#### ▶ Technical Data - High Temperature Protector Version

Order no.	GPD5016N-24-A	GPD5016NC-24-A	GPD5016NO-24-A	GPD5016S-24-A	GPD5016SC-24-A	GPD5016SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	7.4	9.2	9.2	7.4	9.2	9.2

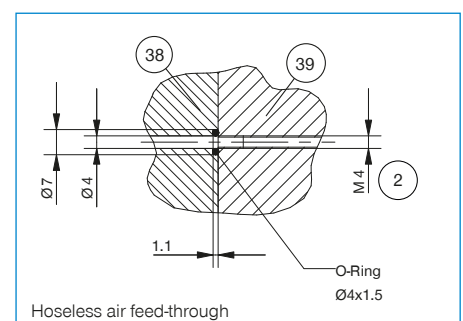
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

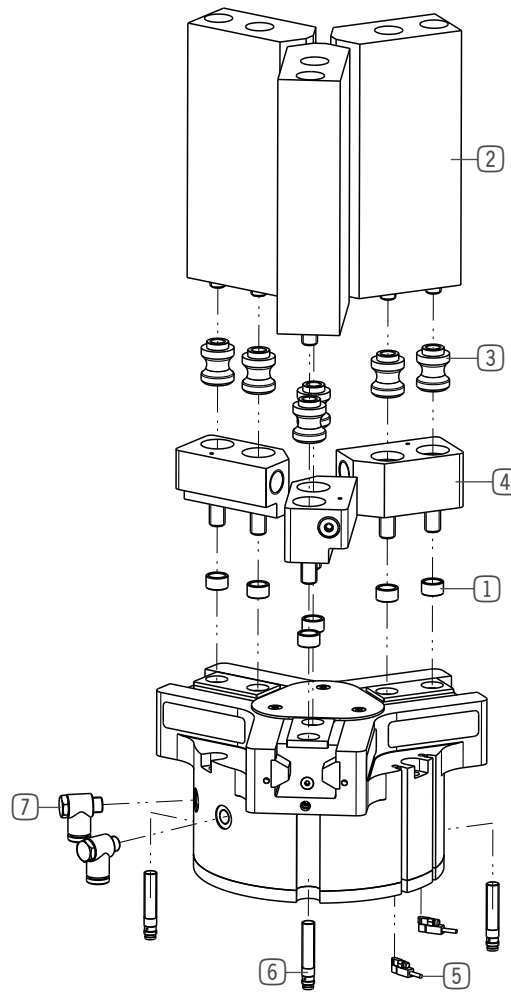


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉑ Adapter
- ㉒ Gripper
- ㉓ Clamp for sensor
- ㉔ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5016



### ▶ INCLUDED IN DELIVERY



Centering Disc

019387



**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5016AL**



Universal jaw steel

**UB5016ST**



Aluminum adjustment jaw

**EB5016AL**



Steel adjustment jaw

**EB5016ST**



Changeable jaw, loose-part-set

**WB5016L**



Changeable jaw, fix-part

**WB5016F**



Pressure piece N / S

**ADS5016-01**



Pressure piece NC / NO / SC / SO

**ADS5016-02**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Angled Fittings - Quick Connect Style

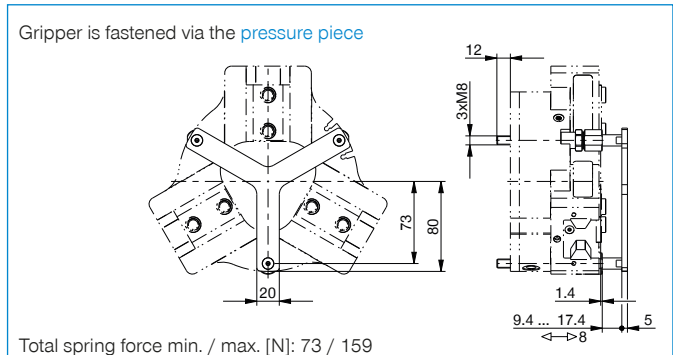
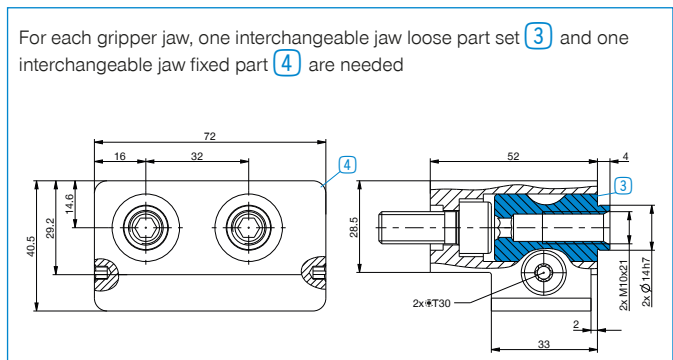
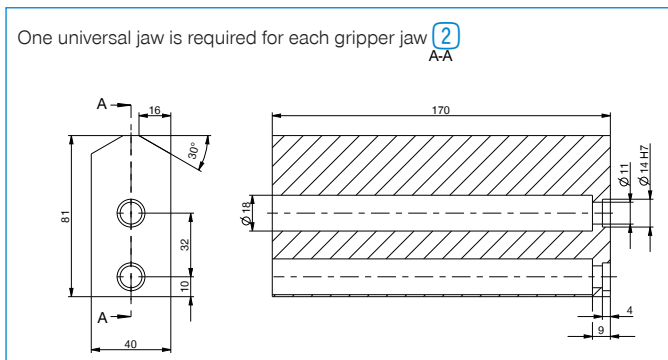
**WV1-8X8**



Pressure Safety Valve

**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



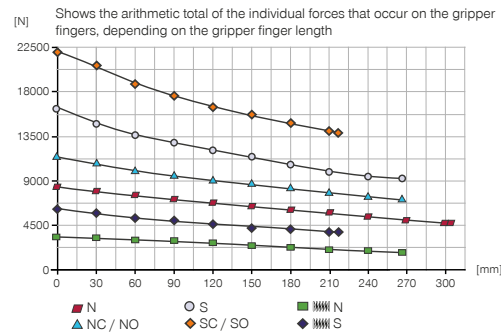
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5025

### ▶ PRODUCT SPECIFICATIONS

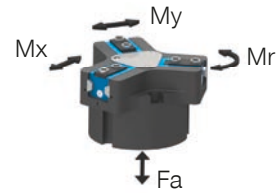


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	180
Mx [Nm]	205
My [Nm]	225
Fa [N]	7500

### ▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPD5025N-00-A	GPD5025NC-00-A	GPD5025NO-00-A	GPD5025S-00-A	GPD5025SC-00-A	GPD5025SO-00-A
Stroke per jaw [mm]	25	25	25	14	14	14
Gripping force in closing [N]	8430	11560		16240	22270	
Gripping force in opening [N]	8730		11860	16820		22850
Gripping force secured by spring min. [N]		3130	3130		6030	6030
Closing time [s]	0.6	0.6	1.0	0.6	0.6	1.0
Opening time [s]	0.6	1.0	0.6	0.6	1.0	0.6
Permissible weight per jaw max [kg]	7	7	7	7	7	7
Length of the gripper fingers max. [mm]	310	265	265	265	220	220
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	1025	1750	1750	1025	1750	1750
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	11.8	15.4	15.4	11.8	15.4	15.4

Order no.	▶ Technical Data - High Temperature Version					
	GPD5025N-20-A	GPD5025NC-20-A	GPD5025NO-20-A	GPD5025S-20-A	GPD5025SC-20-A	GPD5025SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

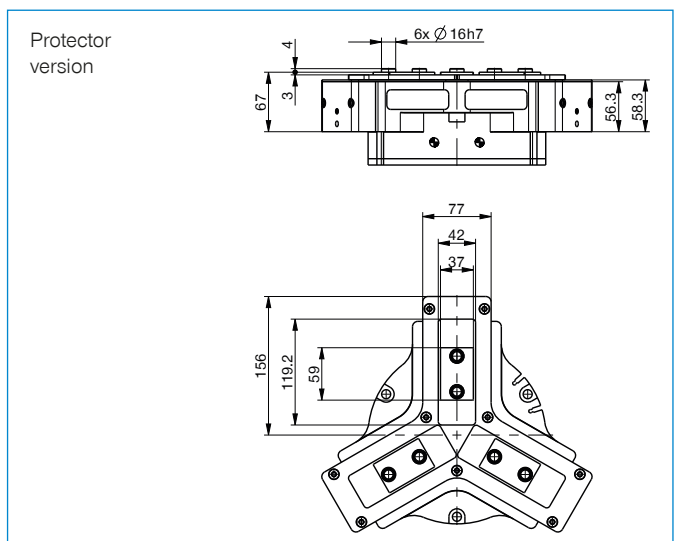
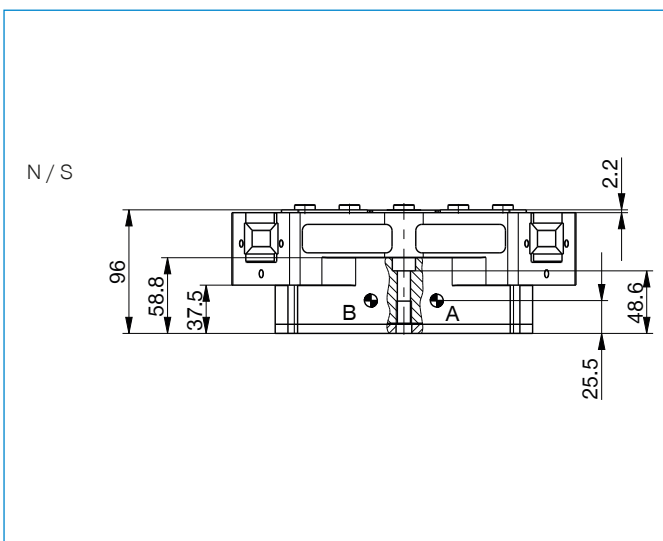
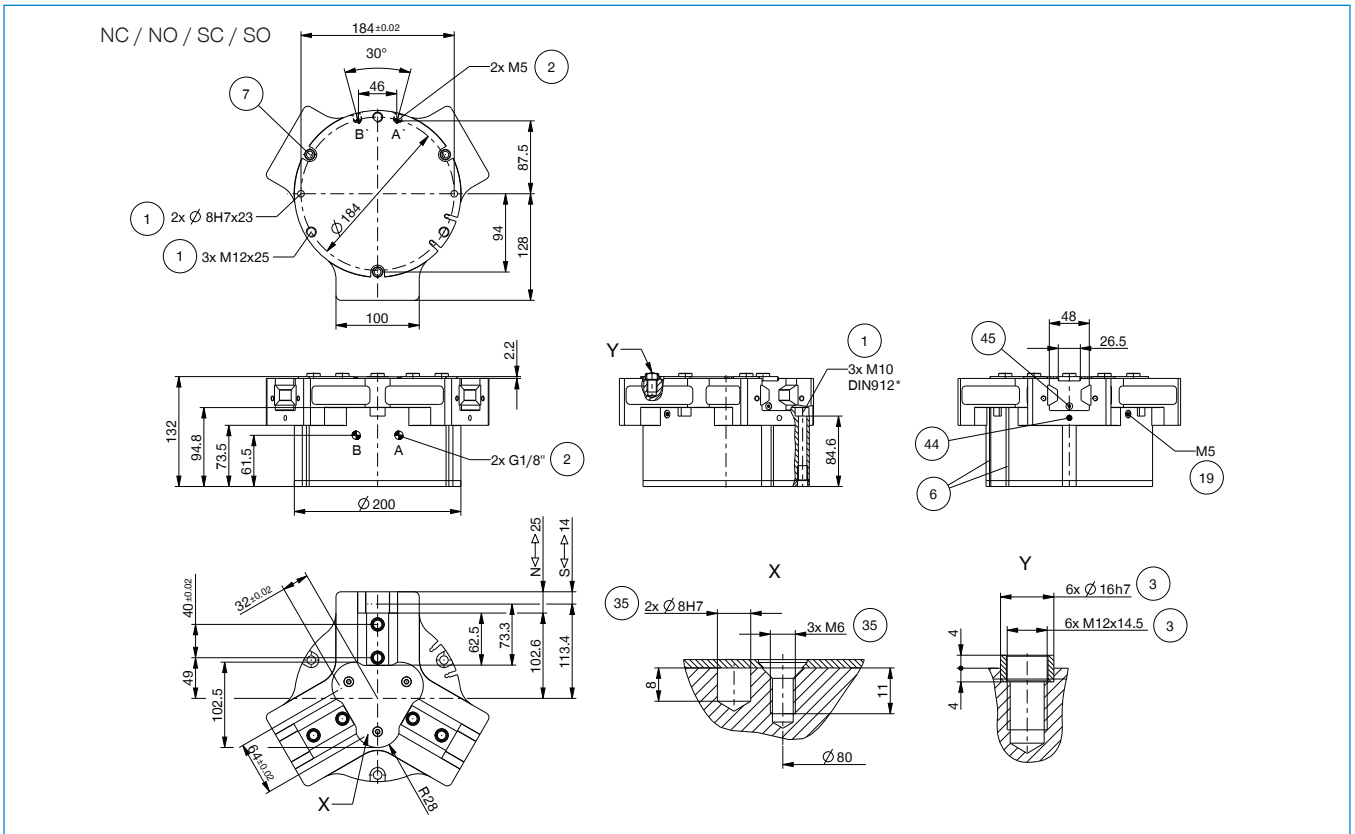
Order no.	▶ Technical Data - Protector Version					
	GPD5025N-21-A	GPD5025NC-21-A	GPD5025NO-21-A	GPD5025S-21-A	GPD5025SC-21-A	GPD5025SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	14	17.6	17.6	14	17.6	17.6

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPD5025N-24-A	GPD5025NC-24-A	GPD5025NO-24-A	GPD5025S-24-A	GPD5025SC-24-A	GPD5025SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	14	17.6	17.6	14	17.6	17.6

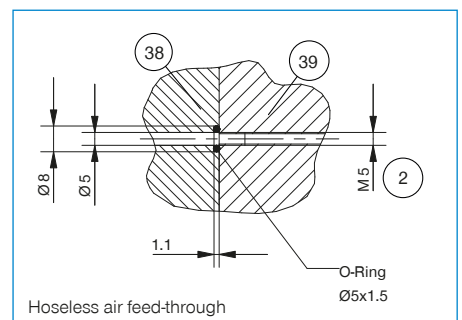
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

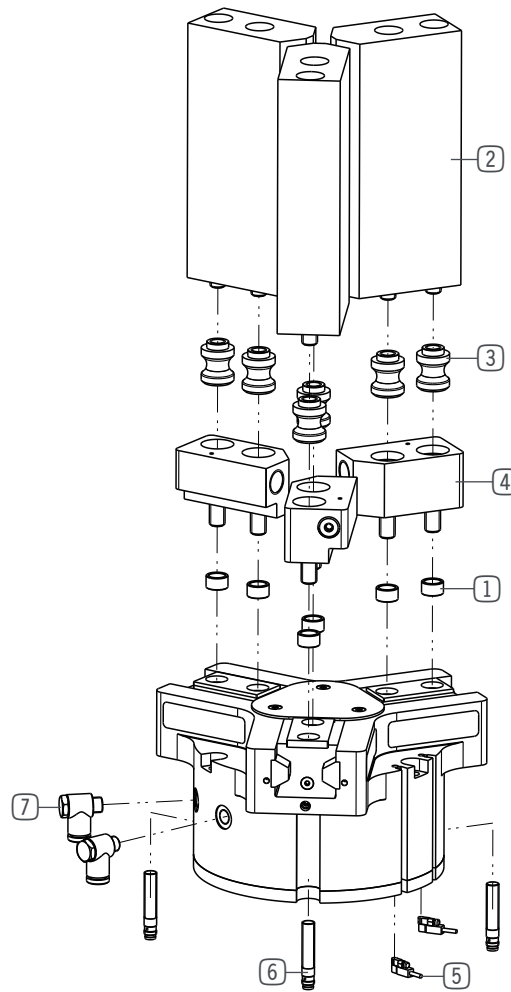


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5025



### ▶ INCLUDED IN DELIVERY



Centering Disc

030529

**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5025AL**



Universal jaw steel

**UB5025ST**



Aluminum adjustment jaw

**EB5025AL**



Steel adjustment jaw

**EB5025ST**



Changeable jaw, loose-part-set

**WB5025L**



Changeable jaw, fix-part

**WB5025F**



Pressure piece N / S

**ADS5025-01**



Pressure piece NC / NO / SC / SO

**ADS5025-02**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Angled Fittings - Quick Connect Style

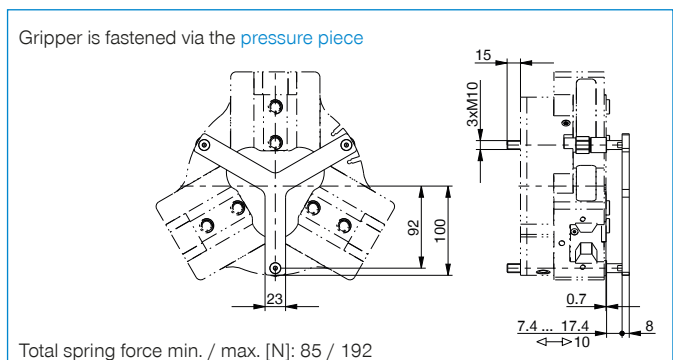
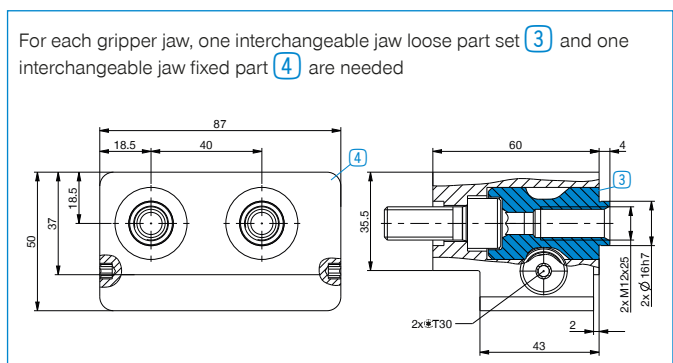
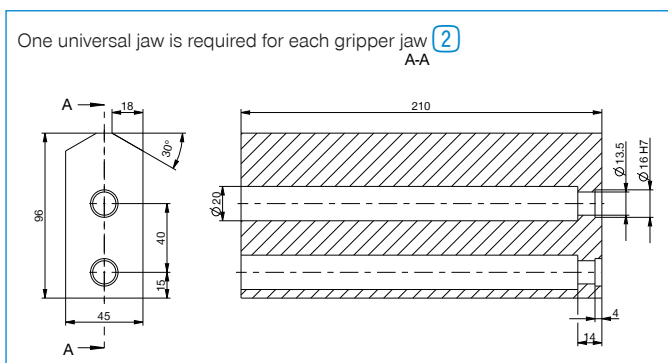
**WV1-8X8**



Pressure Safety Valve

**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



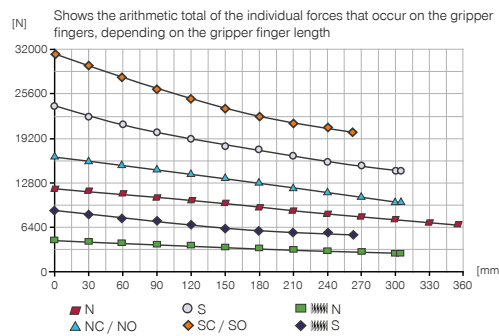
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5030

### ▶ PRODUCT SPECIFICATIONS

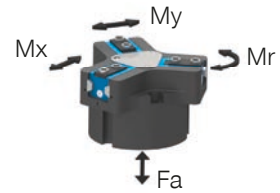


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	210
Mx [Nm]	290
My [Nm]	310
Fa [N]	9500

### ▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPD5030N-00-A	GPD5030NC-00-A	GPD5030NO-00-A	GPD5030S-00-A	GPD5030SC-00-A	GPD5030SO-00-A
Stroke per jaw [mm]	30	30	30	17	17	17
Gripping force in closing [N]	12130	16560		23150	31620	
Gripping force in opening [N]	12540		16970	23930		32400
Gripping force secured by spring min. [N]		4430	4430		8470	8470
Closing time [s]	1.13	1.0	1.9	1.13	1.0	1.9
Opening time [s]	1.13	1.9	1.0	1.13	1.9	1.0
Permissible weight per jaw max [kg]	9.5	9.5	9.5	9.5	9.5	9.5
Length of the gripper fingers max. [mm]	355	305	305	305	260	260
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	1780	3000	3000	1780	3000	3000
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	21	27.5	27.5	21	27.5	27.5

Order no.	▶ Technical Data - High Temperature Version					
	GPD5030N-20-A	GPD5030NC-20-A	GPD5030NO-20-A	GPD5030S-20-A	GPD5030SC-20-A	GPD5030SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

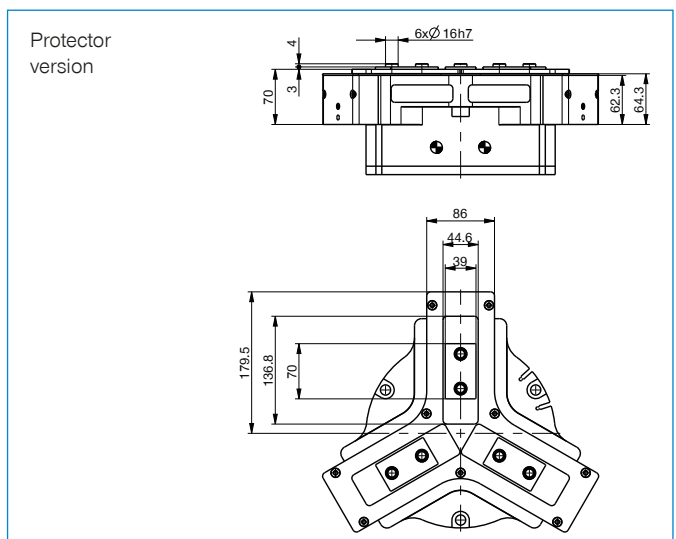
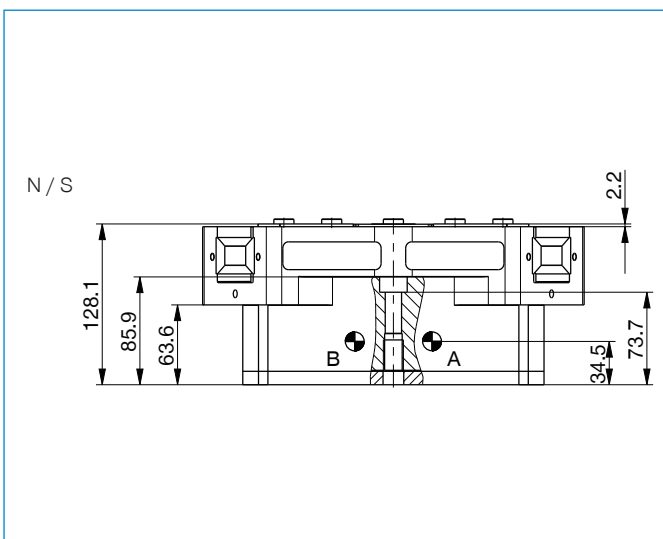
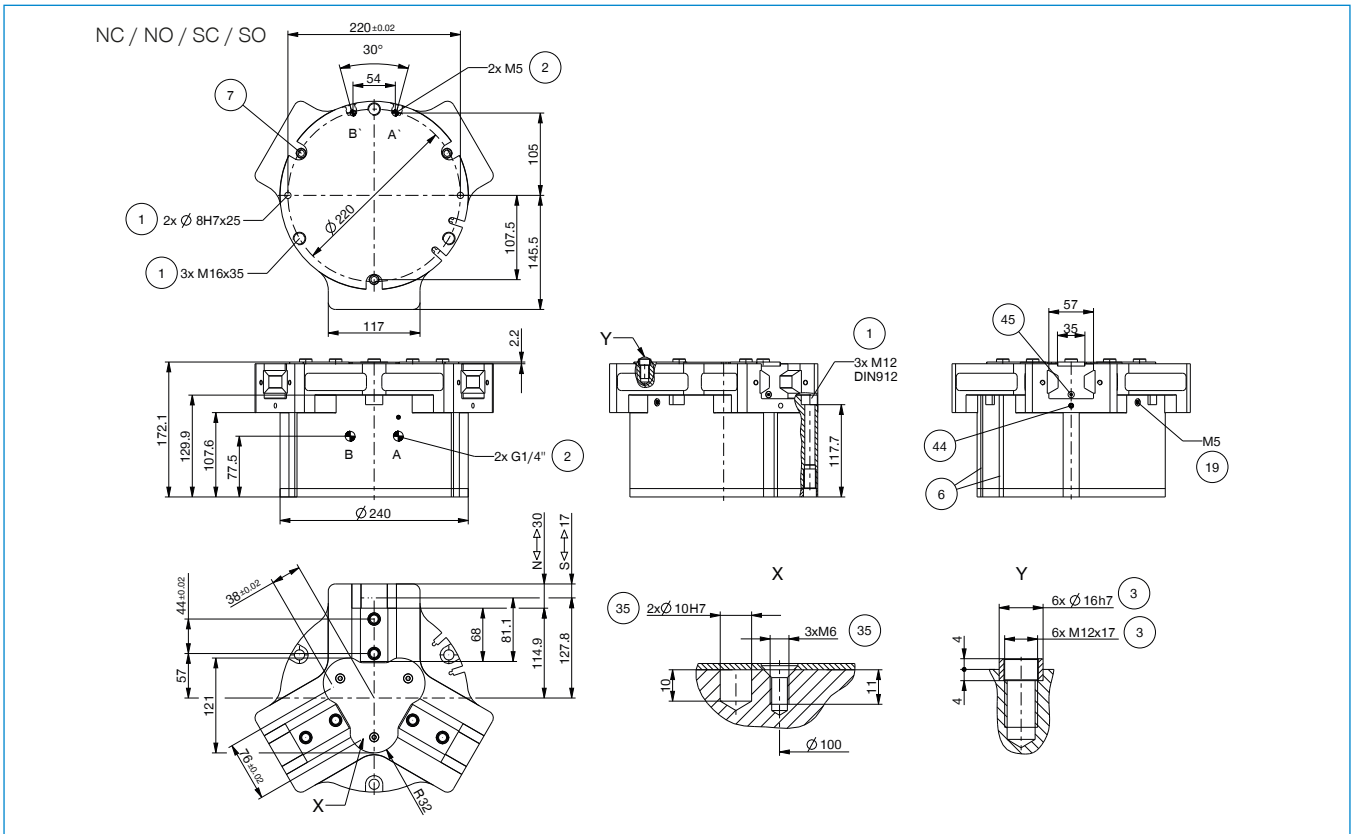
Order no.	▶ Technical Data - Protector Version					
	GPD5030N-21-A	GPD5030NC-21-A	GPD5030NO-21-A	GPD5030S-21-A	GPD5030SC-21-A	GPD5030SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	24	30.5	30.5	24	30.5	30.5

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPD5030N-24-A	GPD5030NC-24-A	GPD5030NO-24-A	GPD5030S-24-A	GPD5030SC-24-A	GPD5030SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	24	30.5	30.5	24	30.5	30.5

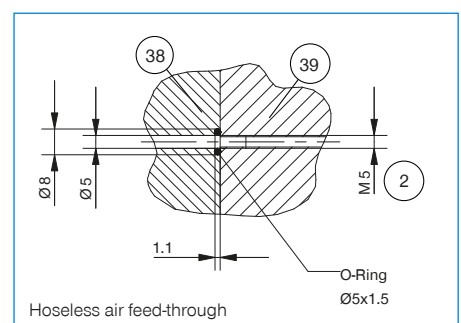
\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

## TECHNICAL DRAWINGS

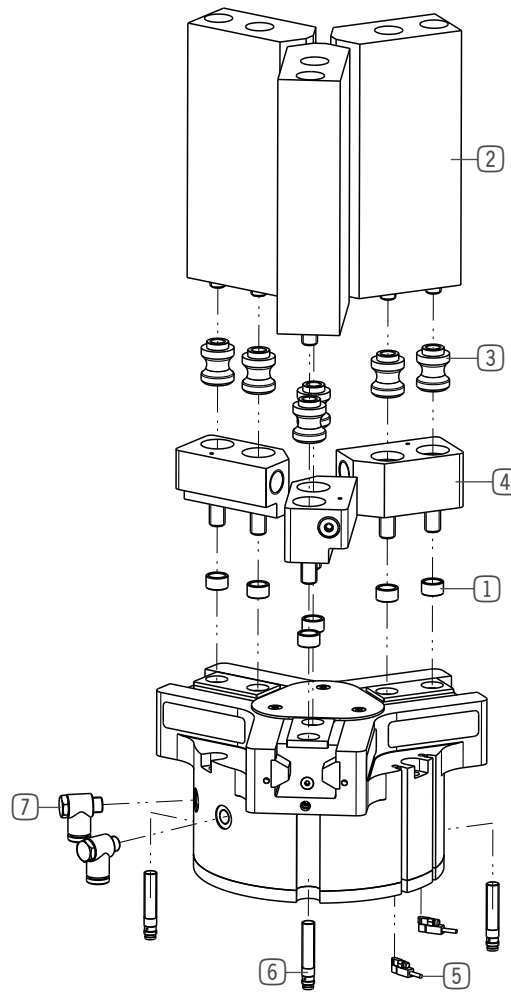


- |  |                                       |
|--|---------------------------------------|
| ① Gripper attachment                               | ③⑨ Gripper                            |
| ② Energy supply                                    | ④④ Clamp for sensor                   |
| ③ Fixing for gripper finger                        | ④⑤ Switch cam adjustment              |
| ⑥ Integrated slot for magnetic field sensor        | Ⓐ Air connection (close)              |
| ⑦ Mounting block                                   | Ⓑ Air connection (open)               |
| ⑱ Air purge connection option                      | Ⓐ Air connection, alternative (close) |
| ⑳ Attachment option for customer-specific fittings | Ⓑ Air connection, alternative (open)  |
| ㉑ Adapter  |                                       |



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5030



### ► INCLUDED IN DELIVERY



Centering Disc

030529



**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5030AL**



Universal jaw steel

**UB5030ST**



Aluminum adjustment jaw

**EB5030AL**



Steel adjustment jaw

**EB5030ST**



Changeable jaw, loose-part-set

**WB5030L**



Changeable jaw, fix-part

**WB5030F**



Pressure piece N / S

**ADS5030-01**



Pressure piece NC / NO / SC / SO

**ADS5030-02**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Angled Fittings - Quick Connect Style

**WV1-4X8**

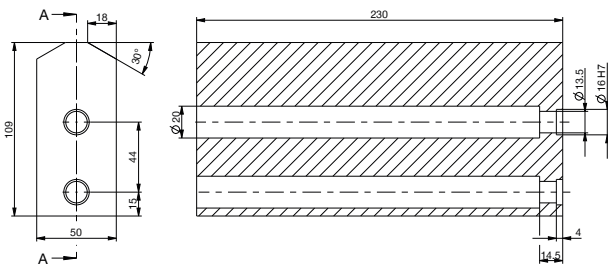


Pressure Safety Valve

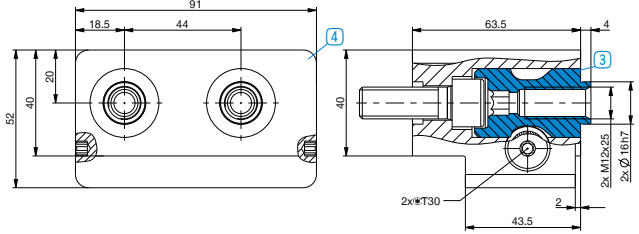
**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**

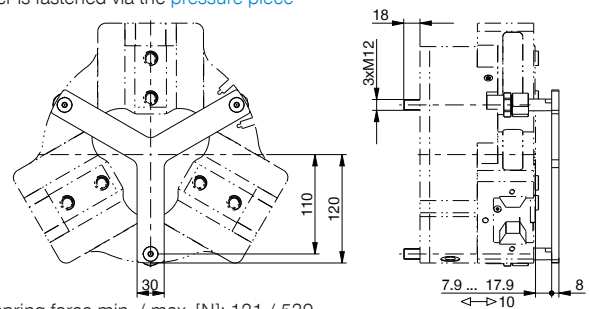
One universal jaw is required for each gripper jaw **2**



For each gripper jaw, one interchangeable jaw loose part set **3** and one interchangeable jaw fixed part **4** are needed



Gripper is fastened via the **pressure piece**



Total spring force min. / max. [N]: 121 / 539

# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5035

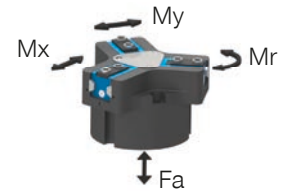
COMING  
SOON

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	260
Mx [Nm]	430
My [Nm]	450
Fa [N]	10400

### ▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPD5035N-00-A	GPD5035NC-00-A	GPD5035NO-00-A	GPD5035S-00-A	GPD5035SC-00-A	GPD5035SO-00-A
Stroke per jaw [mm]	35	35	35	20	20	20
Gripping force in closing [N]	16600	23300		31500	44200	
Gripping force in opening [N]	17100		23800	32500		45200
Gripping force secured by spring min. [N]		6700	6700		12700	12700
Closing time [s]	1.2	1.1	2.3	1.2	1.1	2.3
Opening time [s]	1.2	2.3	1.2	1.2	2.3	1.2
Permissible weight per jaw max [kg]	12.5	12.5	12.5	12.5	12.5	12.5
Length of the gripper fingers max. [mm]	250	225	225	225	200	200
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	6.5	6.5	8	6.5	6.5
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	2904	5477	5477	2904	5477	5477
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	37.8	42	42	37.8	42	42

Order no.	▶ Technical Data - High Temperature Version					
	GPD5035N-20-A	GPD5035NC-20-A	GPD5035NO-20-A	GPD5035S-20-A	GPD5035SC-20-A	GPD5035SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	▶ Technical Data - Protector Version					
	GPD5035N-21-A	GPD5035NC-21-A	GPD5035NO-21-A	GPD5035S-21-A	GPD5035SC-21-A	GPD5035SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	43.8	48	48	43.8	48	48

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPD5035N-24-A	GPD5035NC-24-A	GPD5035NO-24-A	GPD5035S-24-A	GPD5035SC-24-A	GPD5035SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	43.8	48	48	43.8	48	48

\*All data measured at 6 bar

\*\* with purged air (max. 0.5 bar)

# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GPD5045

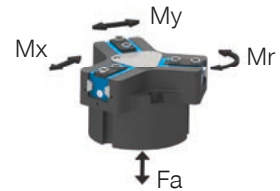
COMING  
SOON

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	390
Mx [Nm]	580
My [Nm]	600
Fa [N]	11500

### ▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPD5045N-00-A	GPD5045NC-00-A	GPD5045NO-00-A	GPD5045S-00-A	GPD5045SC-00-A	GPD5045SO-00-A
Stroke per jaw [mm]	45	45	45	26	26	26
Gripping force in closing [N]	27900	36900		53500	70600	
Gripping force in opening [N]	28850		37850	55400		72500
Gripping force secured by spring min. [N]		9000	9000		17100	17100
Closing time [s]	2.0	1.7	2.8	2.0	1.7	2.8
Opening time [s]	2.0	2.8	1.7	2.0	2.8	1.7
Permissible weight per jaw max [kg]	12.5	12.5	12.5	12.5	12.5	12.5
Length of the gripper fingers max. [mm]	250	225	225	225	200	200
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	6.5	6.5	8	6.5	6.5
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	6500	12400	12400	6500	12400	12400
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	78.6	86.5	86.5	80	88	88

Order no.	▶ Technical Data - High Temperature Version					
	GPD5045N-20-A	GPD5045NC-20-A	GPD5045NO-20-A	GPD5045S-20-A	GPD5045SC-20-A	GPD5045SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	▶ Technical Data - Protector Version					
	GPD5045N-21-A	GPD5045NC-21-A	GPD5045NO-21-A	GPD5045S-21-A	GPD5045SC-21-A	GPD5045SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	90.5	98.4	98.4	91.9	99.9	99.9

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPD5045N-24-A	GPD5045NC-24-A	GPD5045NO-24-A	GPD5045S-24-A	GPD5045SC-24-A	GPD5045SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	90.5	98.4	98.4	91.9	99.9	99.9

\*All data measured at 6 bar

\*\* with purged air (max. 0,5 bar)

# 3-JAW CONCENTRIC GRIPPERS

## SERIES GPD5000 PNEUMATIC IL

COMING  
SOON

### ▶ PRODUCT ADVANTAGES



#### “The Universal One”

- ▶ Sealed guide IP64 / Protector version IP67 (with purged air)
- ▶ Protected against corrosion
- ▶ Up to 30 million cycles without maintenance
- ▶ Steel Linear Guide
- ▶ Pneumatic drive combined with IO-Link technology
- ▶ Integrated valves, sensor technology, status display and pressure monitoring
- ▶ Adjustable teach-in window width
- ▶ Connection using a pneumatic line and IO-Link cable
- ▶ 32 workpieces data sets can be programmed



# 3-JAW CONCENTRIC GRIPPERS

## SERIES GED5000

### ▶ PRODUCT ADVANTAGES



#### “ALL in ONE”

- ▶ Approximately the same gripping force as a comparable pneumatic gripper
- ▶ Self locking mechanism in case of power drop
- ▶ Same connection hole patterns as a comparable pneumatic gripper
- ▶ Plug and play – single-cable solution, supports incredibly easy control using I/O signals or IO-Link
- ▶ Integrated ACM control module - option of configuring gripping force, travel time and switching points
- ▶ Protected from corrosion and sealed in accordance with IP64
- ▶ Brushless DC motor – up to 30 million cycles without maintenance

### ▶ THE BEST PRODUCT FOR YOUR APPLICATION



#### ▶ Our products love the challenge!

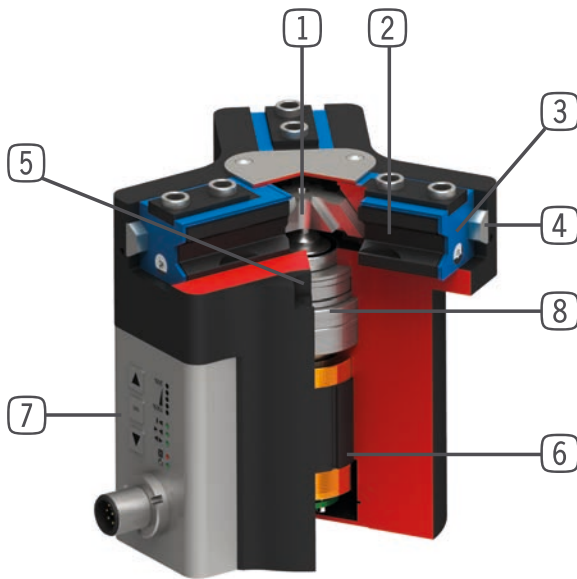
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:  
Find the best product for your specific use:  
[www.zimmer-group.com](http://www.zimmer-group.com)

#### HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

<b>Order no.</b>	<b>GED5008</b>	<input type="checkbox"/>	<b>-00</b>	<b>-A</b>
Digital control		<b>IO</b>		
IO-Link control		<b>IL</b>		

## ► BENEFITS IN DETAIL



- ① **Wedge hook mechanism**
  - high forces and moments capacity
  - Synchronized gripper jaw movement
- ② **Gripper jaw**
  - Gripper fingers mounted using removable centring sleeves
  - Lubricated for life via incorporated lubrication slots
- ③ **Dual lip seal**
  - Enables IP64
  - Prevents grease from being squeezed out, increasing service life
- ④ **Steel Linear Guide**
  - Steel in steel guide
  - Enables use of extremely long gripper fingers
- ⑤ **Mounting and positioning**
  - Alternatively, on several sides for customized mounting
  - Pneumatic and electrical versions identical apart from height
- ⑥ **BLDC motor**
  - Wear-resistant brushless DC motor
- ⑦ **Advanced control module**
  - Integrated control module with single-cable solution
  - Gripping force, travel time and query programmable via the control panel on the housing
- ⑧ **Drive train**
  - Combination of trapezoidal spindle and gear
  - Durable and robust

## ► TERMS

<b>Gripping force:</b>	arithmetic sum of the individual forces occurring at the jaws
<b>Gripping direction:</b>	Movement toward the workpiece to be gripped
→ ←:	Gripping direction of external gripper
↔ :	Gripping direction of internal gripper
<b>Travel time:</b>	Time required for the complete stroke movement of the gripper jaws
<b>Control time:</b>	Response time of the gripping system
<b>Work time:</b>	Time from signal input until the signal output message, including travel time
<b>Mode:</b>	Travel time optimization by adapting to the gripping direction (N / NC / NO mode)
<b>Repeatability:</b>	at end stops after 50/100 consecutive cycles
<b>Cycle:</b>	Path that the gripper jaws travel for a complete opening and closing movement
<b>Maintenance:</b>	recommended at 30 mil. cycles (please see the installation instructions, download from <a href="http://www.zimmer-group.com">www.zimmer-group.com</a> )

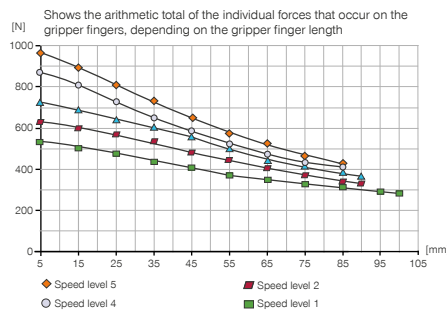
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GED5006

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	43
Mx [Nm]	70
My [Nm]	46
Fa [N]	1250

### ▶ TECHNICAL DATA - BASIC VERSION

Order no.	▶ Technical Data	
	GED5006IO-00-A	GED5006IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	6	6
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	0.4	0.4
Length of the gripper fingers max. [mm]	100	100
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	1.09	1.09

### ▶ TECHNICAL DATA - MODES

Order no.	▶ Technical data - N mode	
	GED5006IO-00-A	GED5006IL-00-A
Gripping force → ← min. / max. [N]	540 / 960	540 / 960
Gripping force  ↔  min. / max. [N]	540 / 960	540 / 960
Travel time → ← min. / max. [s]	0,15 / 0,22	0,15 / 0,22
Travel time  ↔  min. / max. [s]	0,15 / 0,22	0,15 / 0,22

Order no.	▶ Technical data - NC mode	
	GED5006IO-00-A	GED5006IL-00-A
Gripping force → ← min. / max. [N]	540 / 960	540 / 960
Gripping force  ↔  min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,15 / 0,22	0,15 / 0,22
Travel time  ↔  min. / max. [s]	0,13	0,13

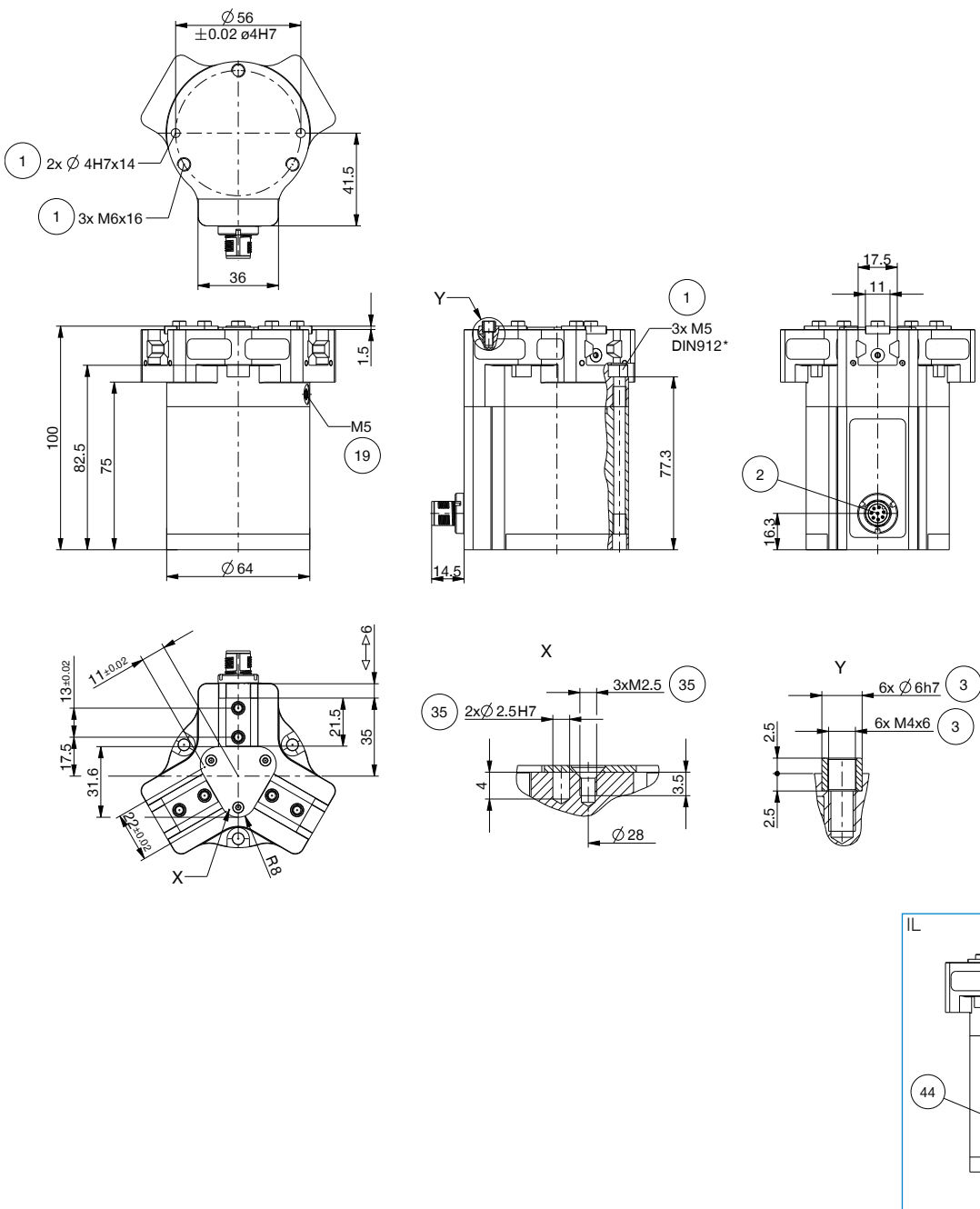
  

Order no.	▶ Technical data - NO mode	
	GED5006IO-00-A	GED5006IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force  ↔  min. / max. [N]	540 / 960	540 / 960
Travel time → ← min. / max. [s]	0,13	0,13
Travel time  ↔  min. / max. [s]	0,15 / 0,22	0,15 / 0,22



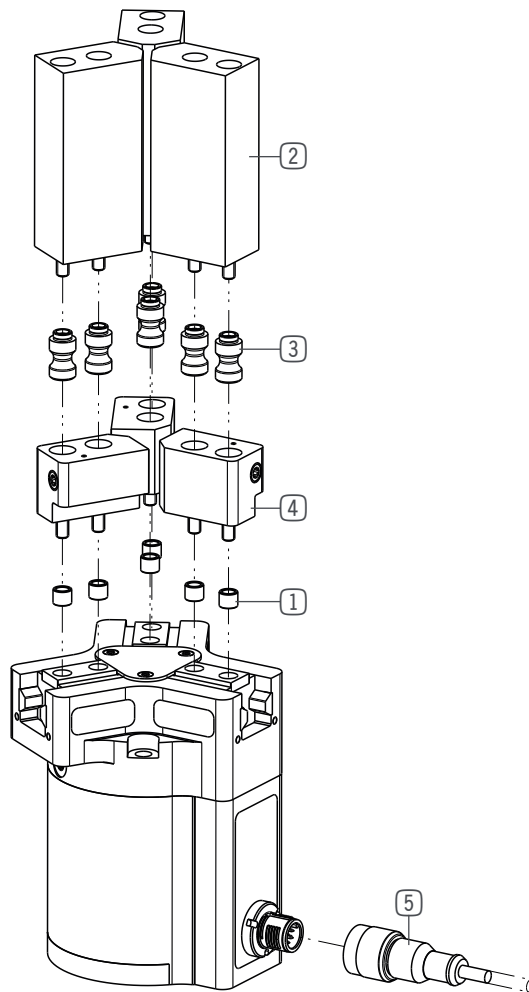
## TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑬ Air purge connection option
- ⑮ Attachment option for customer-specific fittings
- ④④ Energy supply IO-Link (M12, 5-pole)



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GED5006



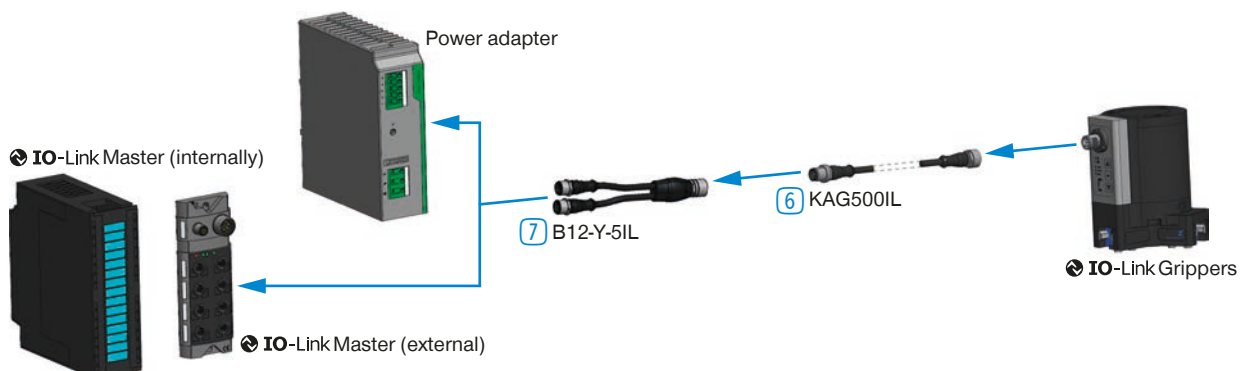
### INCLUDED IN DELIVERY



Centering Disc

024230

### INFRASTRUCTURE IO-LINK



## ▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5006AL



Universal jaw steel

UB5006ST



Aluminum adjustment jaw

EB5006AL



Steel adjustment jaw

EB5006ST



Changeable jaw, loose-part-set

WB5006L



Changeable jaw, fix-part

WB5006F



Pressure piece

ADS5006-05



Plug-in Connector Straight Cable 10 m - Female M12

KAG1000B8



Plug-in Connector Angled Cable 10 m - Female M12

KAW1000B8



Plug-in connector straight 5m - plug / socket M12

KAG500IL

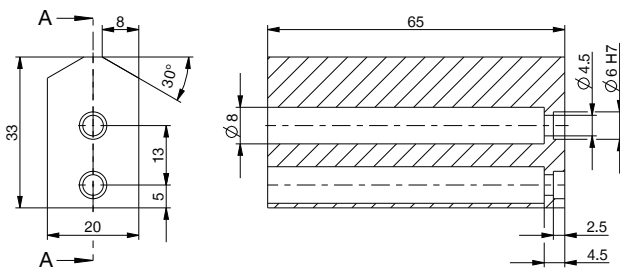


Y-Plug-in Connector

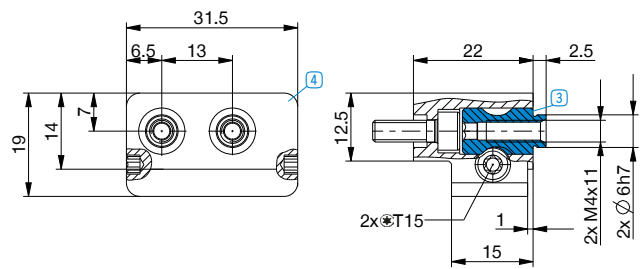
B12-Y-5IL

## ▶ TECHNICAL DRAWINGS ACCESSORIES

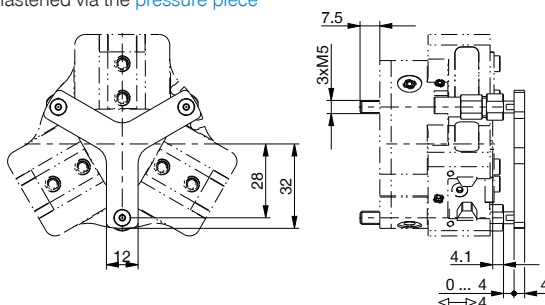
One universal jaw is required for each gripper jaw **2** A-A



For each gripper jaw, one interchangeable jaw loose part set **3** and one interchangeable jaw fixed part **4** are needed



Gripper is fastened via the [pressure piece](#)



Total spring force min. / max. [N]: 36 / 77

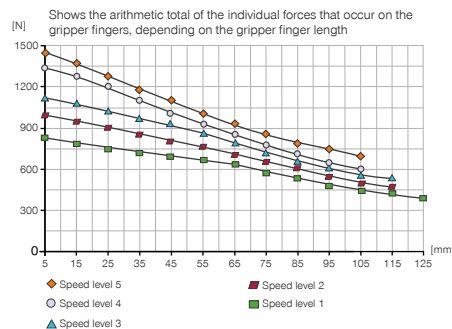
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GED5008

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
Mx [Nm]	105
My [Nm]	65
Fa [N]	1900

### ▶ TECHNICAL DATA - BASIC VERSION

#### ▶ Technical Data

Order no.	GED5008IO-00-A	GED5008IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	8	8
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	0.7	0.7
Length of the gripper fingers max. [mm]	125	125
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	1.66	1.66

### ▶ TECHNICAL DATA - MODES

#### ▶ Technical data - N mode

Order no.	GED5008IO-00-A	GED5008IL-00-A
Gripping force → ← min. / max. [N]	800 / 1450	800 / 1450
Gripping force  ↔  min. / max. [N]	800 / 1450	800 / 1450
Travel time → ← min. / max. [s]	0,18 / 0,29	0,18 / 0,29
Travel time  ↔  min. / max. [s]	0,18 / 0,29	0,18 / 0,29

#### ▶ Technical data - NC mode

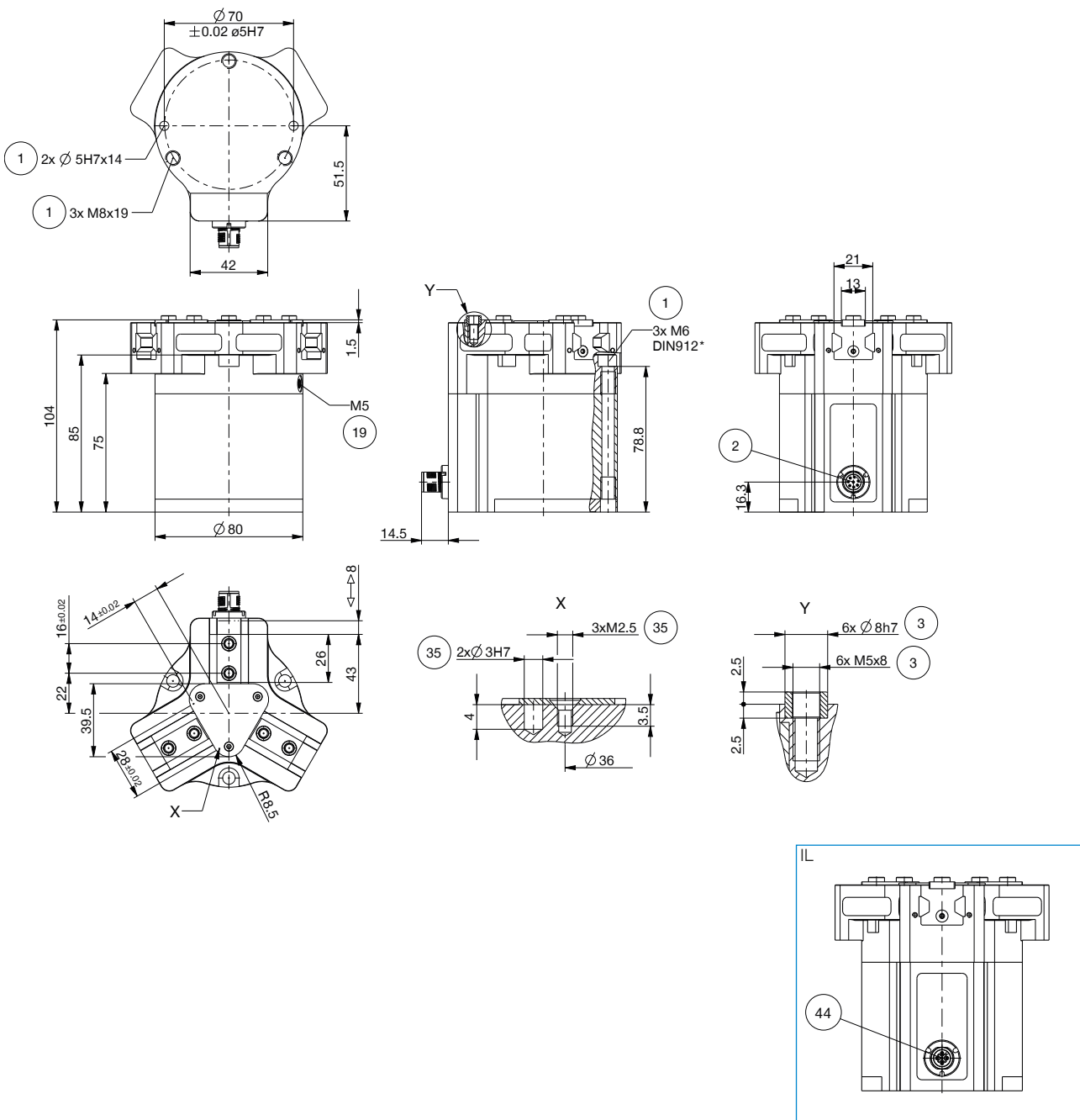
Order no.	GED5008IO-00-A	GED5008IL-00-A
Gripping force → ← min. / max. [N]	800 / 1450	800 / 1450
Gripping force  ↔  min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,18 / 0,29	0,18 / 0,29
Travel time  ↔  min. / max. [s]	0,15	0,15

#### ▶ Technical data - NO mode

Order no.	GED5008IO-00-A	GED5008IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force  ↔  min. / max. [N]	800 / 1450	800 / 1450
Travel time → ← min. / max. [s]	0,15	0,15
Travel time  ↔  min. / max. [s]	0,18 / 0,29	0,18 / 0,29

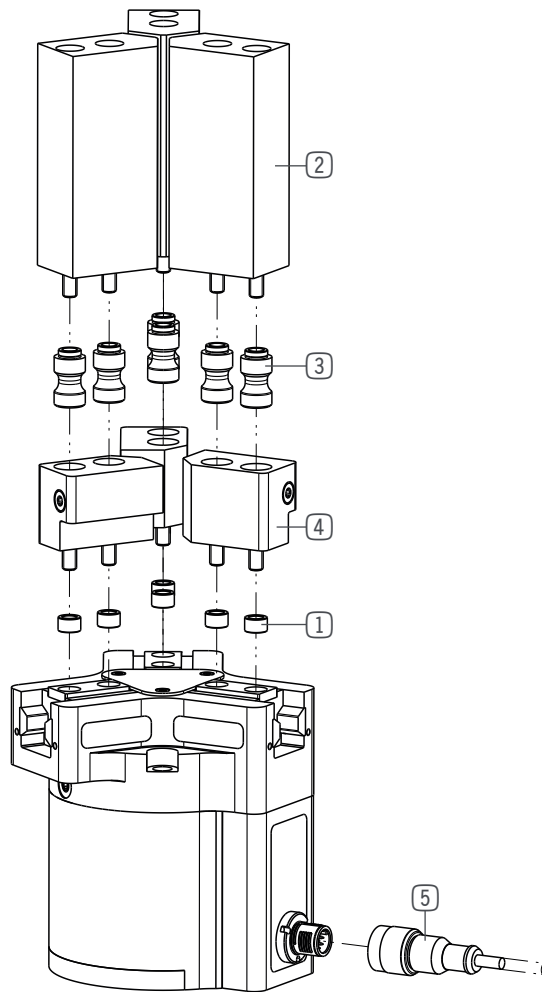
## TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑬ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ④④ Energy supply IO-Link (M12, 5-pole)



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GED5008



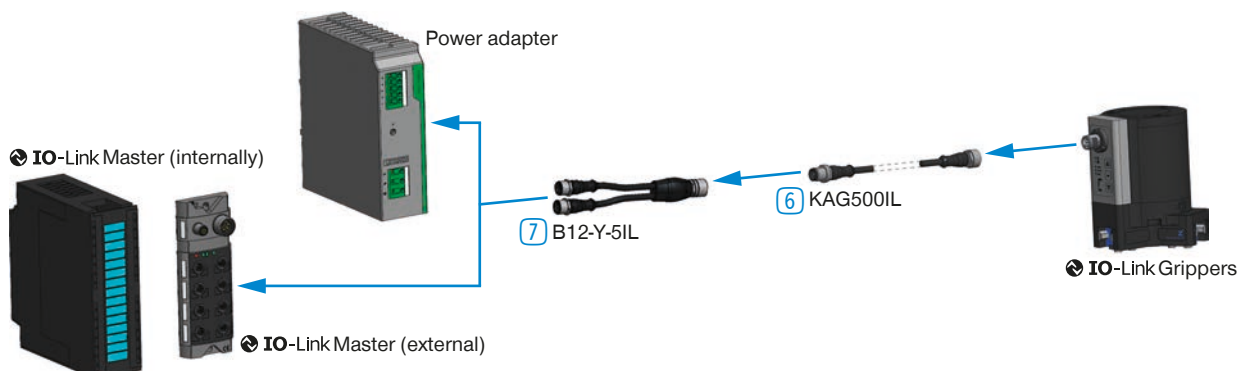
### INCLUDED IN DELIVERY



Centering Disc

024231

### INFRASTRUCTURE IO-LINK



## ▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5008AL



Universal jaw steel

UB5008ST



Aluminum adjustment jaw

EB5008AL



Steel adjustment jaw

EB5008ST



Changeable jaw, loose-part-set

WB5008L



Changeable jaw, fix-part

WB5008F



Pressure piece

ADS5008-05



Plug-in Connector Straight Cable 10 m - Female M12

KAG1000B8



Plug-in Connector Angled Cable 10 m - Female M12

KAW1000B8



Plug-in connector straight 5m - plug / socket M12

KAG500IL

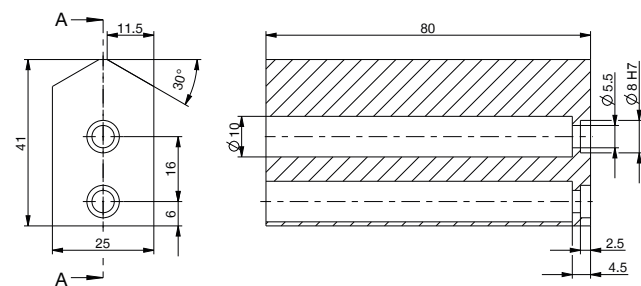


Y-Plug-in Connector

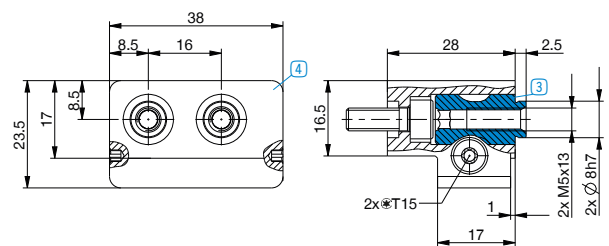
B12-Y-5IL

## ▶ TECHNICAL DRAWINGS ACCESSORIES

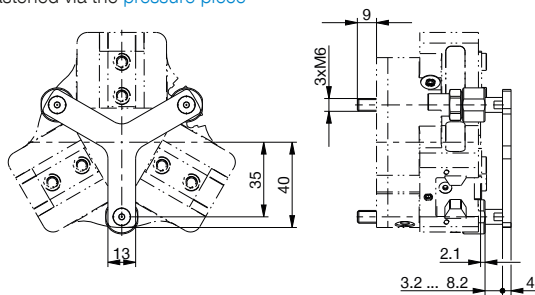
One universal jaw is required for each gripper jaw **2**



For each gripper jaw, one interchangeable jaw loose part set **3** and one interchangeable jaw fixed part **4** are needed



Gripper is fastened via the [pressure piece](#)

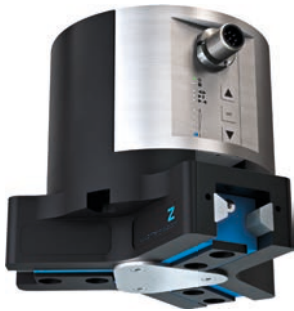


Total spring force min. / max. [N]: 62 / 124

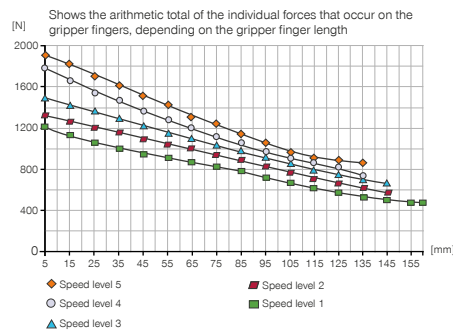
# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GED5010

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	125
My [Nm]	95
Fa [N]	2700

### ▶ TECHNICAL DATA - BASIC VERSION

#### ▶ Technical Data

Order no.	GED5010IO-00-A	GED5010IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	10	10
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	1.3	1.3
Length of the gripper fingers max. [mm]	160	160
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	2.33	2.33

### ▶ TECHNICAL DATA - MODES

#### ▶ Technical data - N mode

Order no.	GED5010IO-00-A	GED5010IL-00-A
Gripping force → ← min. / max. [N]	1200 / 1900	1200 / 1900
Gripping force  ↔  min. / max. [N]	1200 / 1900	1200 / 1900
Travel time → ← min. / max. [s]	0,21 / 0,32	0,21 / 0,32
Travel time  ↔  min. / max. [s]	0,21 / 0,32	0,21 / 0,32

#### ▶ Technical data - NC mode

Order no.	GED5010IO-00-A	GED5010IL-00-A
Gripping force → ← min. / max. [N]	1200 / 1900	1200 / 1900
Gripping force  ↔  min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,21 / 0,32	0,21 / 0,32
Travel time  ↔  min. / max. [s]	0,16	0,16

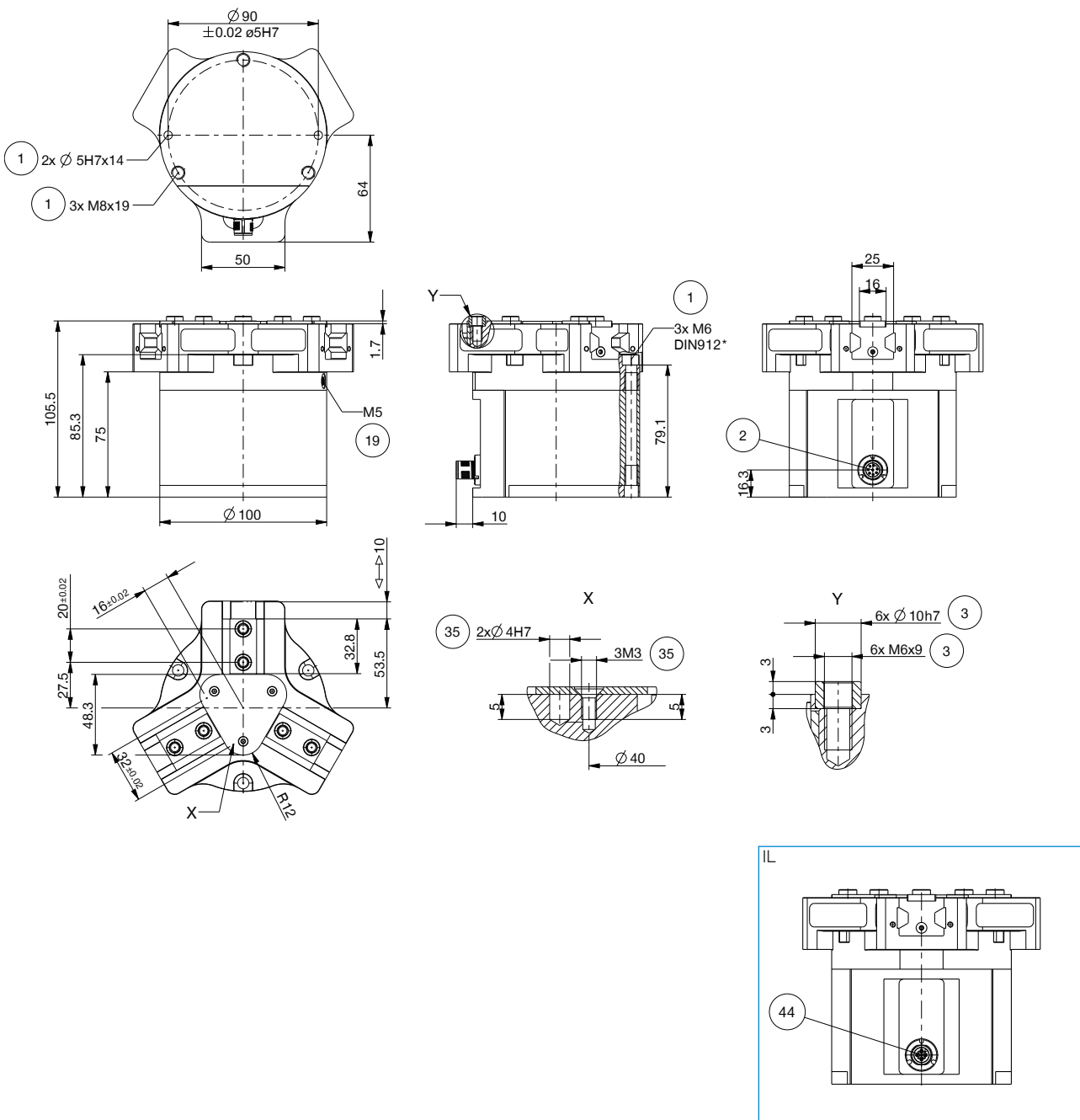
#### ▶ Technical data - NO mode

Order no.	GED5010IO-00-A	GED5010IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force  ↔  min. / max. [N]	1200 / 1900	1200 / 1900
Travel time → ← min. / max. [s]	0,16	0,16
Travel time  ↔  min. / max. [s]	0,21 / 0,32	0,21 / 0,32



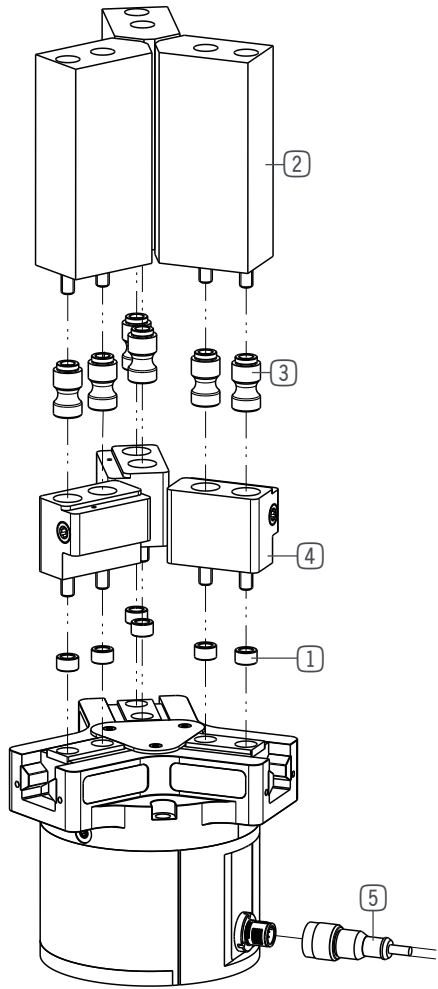
## TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑬ Air purge connection option
- ⑮ Attachment option for customer-specific fittings
- ④④ Energy supply IO-Link (M12, 5-pole)



# 3-JAW CONCENTRIC GRIPPERS

## INSTALLATION SIZE GED5010



4

Grippers

electric /

3-Jaw Concentric Grippers /

Installation size GED5010 /

122

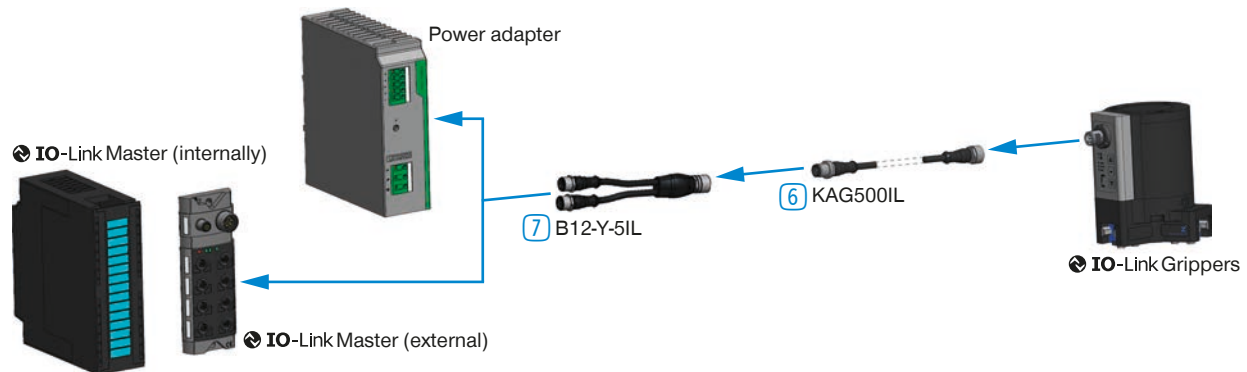
### INCLUDED IN DELIVERY



Centering Disc

018187

### INFRASTRUCTURE IO-LINK



## ▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

**UB5010AL**



Universal jaw steel

**UB5010ST**



Aluminum adjustment jaw

**EB5010AL**



Steel adjustment jaw

**EB5010ST**



Changeable jaw, loose-part-set

**WB5010L**



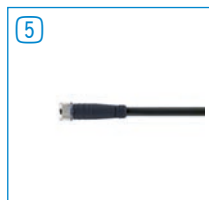
Changeable jaw, fix-part

**WB5010F**



Pressure piece

**ADS5010-05**



Plug-in Connector Straight Cable 10 m - Female M12

**KAG1000B8**



Plug-in Connector Angled Cable 10 m - Female M12

**KAW1000B8**



Plug-in connector straight 5m - plug / socket M12

**KAG500IL**

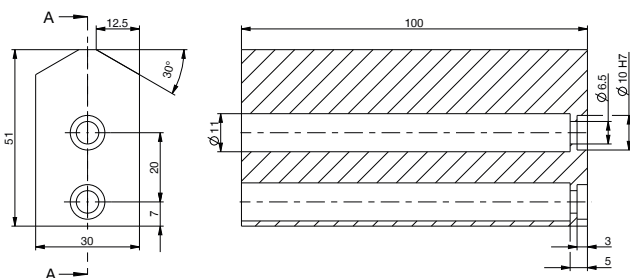


Y-Plug-in Connector

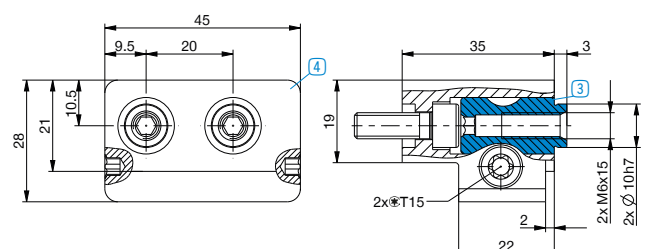
**B12-Y-5IL**

## ▶ TECHNICAL DRAWINGS ACCESSORIES

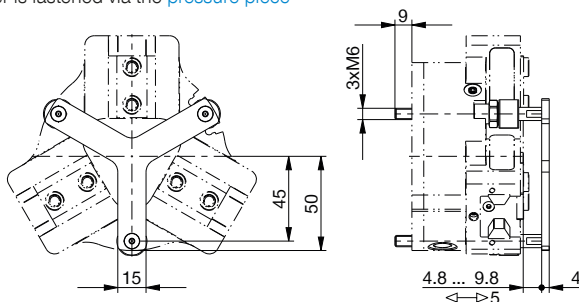
One universal jaw is required for each gripper jaw <sup>(2)</sup>  
A-A



For each gripper jaw, one interchangeable jaw loose part set <sup>(3)</sup> and one interchangeable jaw fixed part <sup>(4)</sup> are needed



Gripper is fastened via the [pressure piece](#)

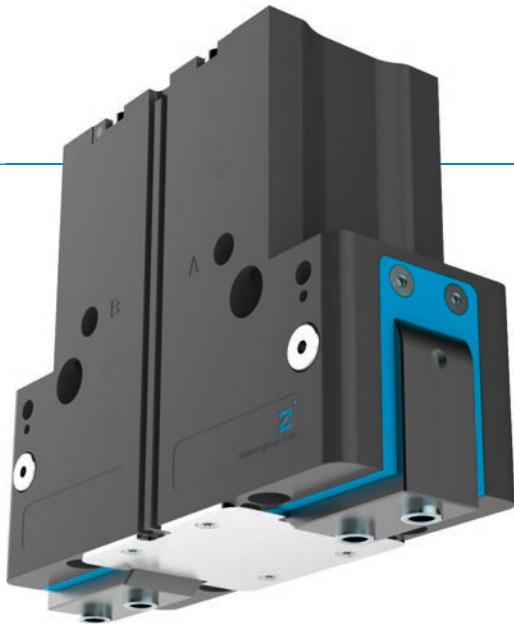


Total spring force min. / max. [N]: 62 / 124

# 2-JAW ANGULAR GRIPPERS

## SERIES GPW5000

### ▶ PRODUCT ADVANTAGES



#### “The Universal One”

- ▶ **Highest performance with the smallest dimensions**  
Features a one-of-a-kind ratio of net mass to gripper finger length and gripping moment. The performance of your machine is increased as a result.
- ▶ **Versatile applicability**  
Thanks to standard functionality such as IP64 and corrosion protection, you are able to use these grippers in almost any of your applications. Even the toughest environments are no problem.
- ▶ **Robust and process-reliable**  
Thanks to a maintenance-free design up to 30 million cycles and the most solid force transmission possible, process assurance is maximized.

### ▶ THE BEST PRODUCT FOR YOUR APPLICATION



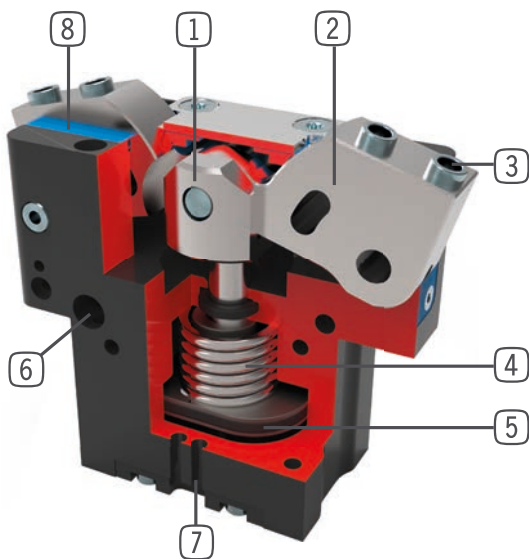
- ▶ **Our products love the challenge!**  
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:  
Find the best product for your specific use:  
[www.zimmer-group.com](http://www.zimmer-group.com)

#### HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

<b>Order no.</b>	<b>GPW5013</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>-A</b>
Basis version		<b>N</b>			
For external gripping, self-locking, spring closing			<b>C</b>		
Temperature-resistant version up to 130°C				<b>20</b>	

► **BENEFITS IN DETAIL**



- ① **Positively driven lever mechanism**  
- synchronized the movement of the gripper jaws
- ② **Gripper jaw**  
- Gripper fingers mounted using removable centring sleeves
- ③ **Removable centering sleeves**  
- quick and economical positioning of the gripper fingers
- ④ **Integrated gripping force safety device**  
- Spring built into cylinder chamber as an energy store
- ⑤ **Drive**  
- Double-acting pneumatic rotor cylinder
- ⑥ **Mounting and positioning**  
- Alternatively, on several sides for customized mounting
- ⑦ **Sensing slot**  
- mounting and positioning of magnetic field sensors
- ⑧ **Dual lip seal**  
- IP64  
- Prevents grease from being squeezed out, increasing service life

► **TERMS**

<b>Gripping force:</b>	arithmetic sum of the individual forces occurring at the jaws
<b>Closing/opening time:</b>	Time required for the gripper jaws to travel the entire stroke distance
<b>Repeatability:</b>	at end stops after 50/100 consecutive cycles
<b>Cycle:</b>	Path that the pistons travel for a complete opening and closing movement
<b>Maintenance:</b>	recommended at 30 mil. cycles (please see the installation instructions, download from <a href="http://www.zimmer-group.com">www.zimmer-group.com</a> )

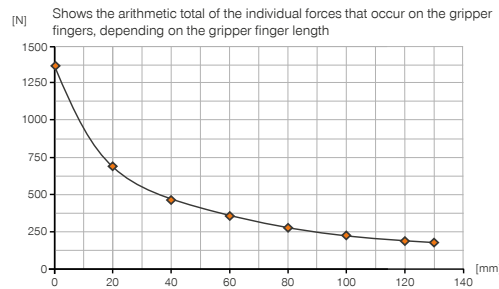
# 2-JAW ANGULAR GRIPPERS

## INSTALLATION SIZE GPW5008

### ▶ PRODUCT SPECIFICATIONS

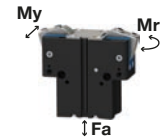


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	65
My [Nm]	60
Fa [N]	1900

### ▶ TECHNICAL DATA

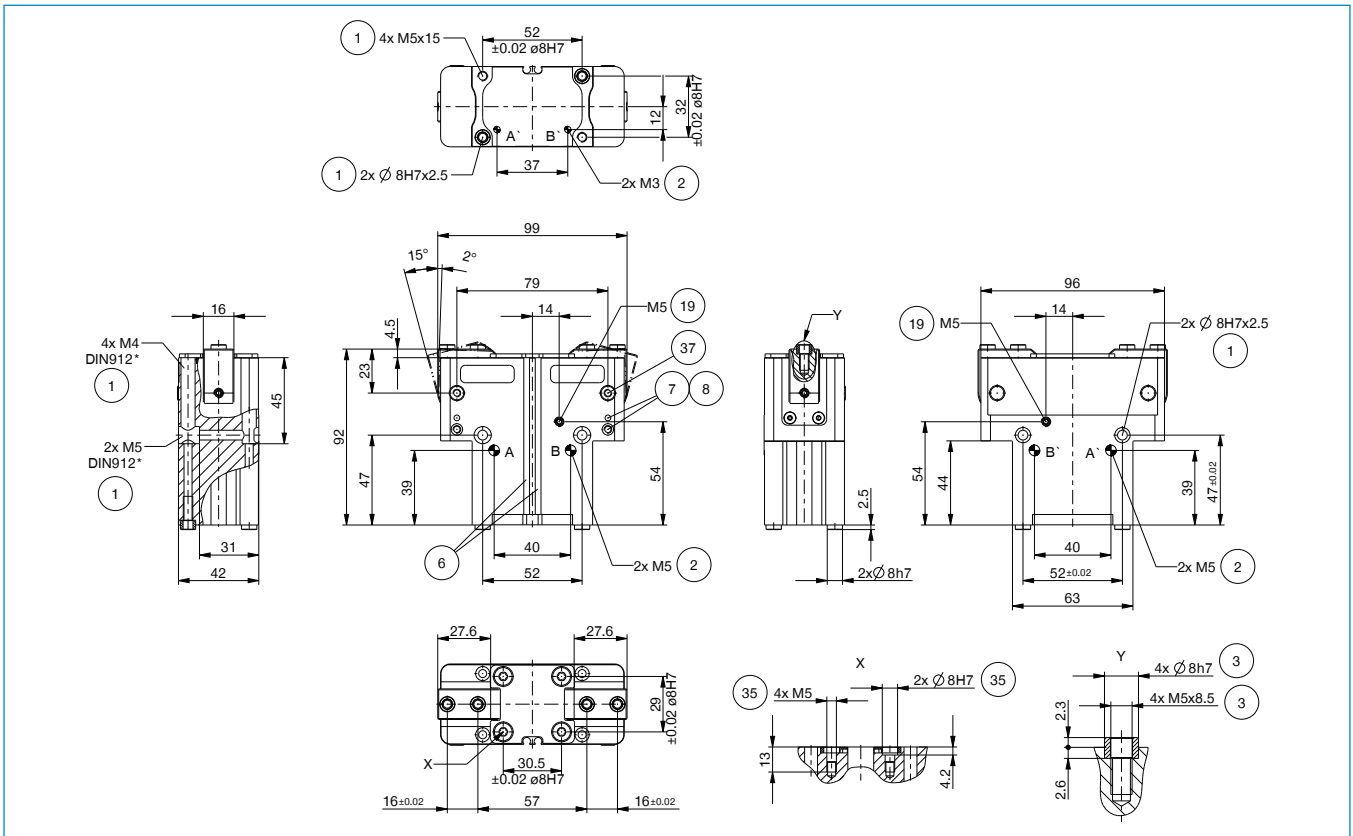
Order no.	Technical Data*
	<b>GPW5008NC-00-A</b>
Stroke per jaw [°]	+15/-2
Gripping moment in closing max. [Nm]	33
Gripping moment secured by spring min. [Nm]	7.5
Gripping force in closing max. (at 0°) [N]*	1450
Length of the gripper fingers max. [mm]	115
Permissible weight per jaw max [kg]	0.7
Closing time [s]	0.1
Opening time [s]	0.17
Repetition accuracy +/- [mm]	0.01
Operating pressure [bar]	4 ... 8
Operating temperature [°C]	-10 ... +90
Air volume per cycle [cm³]	35
Protection to IEC 60529	IP64
Weight [kg]	0.9

Order no.	Technical Data - High Temperature Version
	<b>GPW5008NC-20-A</b>
Operating temperature [°C]	-10 ... +130

\* All data measured at 6 bar

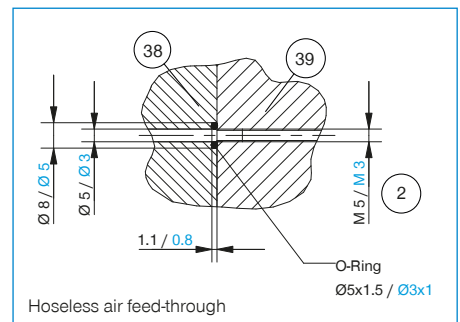
\*\* Measured from top edge of housing

## TECHNICAL DRAWINGS



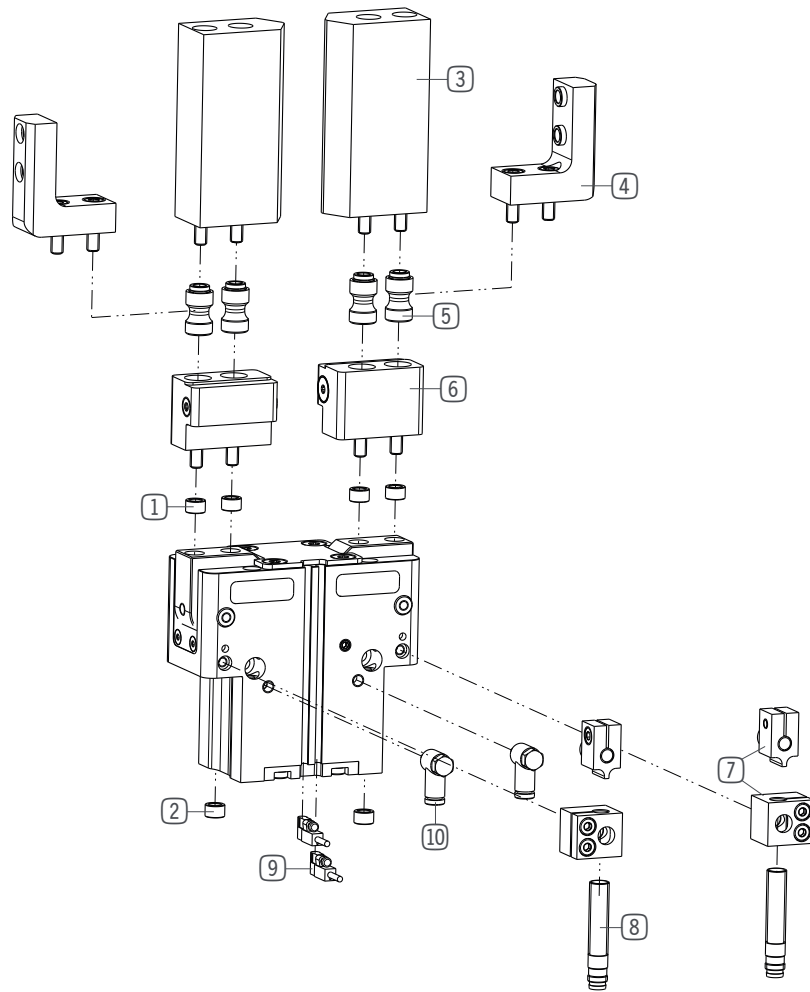
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ⑱ Air purge connection option
- ⑳ Mounting possibility for stroke adjustment

- screwe
- ⑳ Mounting possibility for cam switch
  - ㉑ Adapter
  - ㉒ Gripper
  - Ⓐ Air connection (close)
  - Ⓑ Air connection (open)
  - Ⓐ Air connection, alternative (close)
  - Ⓑ Air connection, alternative (open)



# 2-JAW ANGULAR GRIPPERS

## INSTALLATION SIZE GPW5008



### ► INCLUDED IN DELIVERY



Centering Disc

024231



## ▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

**UB5008AL**



Universal jaw steel

**UB5008ST**



L-jaw

**LB5008**



Changeable jaw, loose-part-set

**WB5008L**



Changeable jaw, fix-part

**WB5008F**



Attachment Kit for Inductive Proximity Switch

**ANS0084**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Angled Fittings - Quick Connect Style

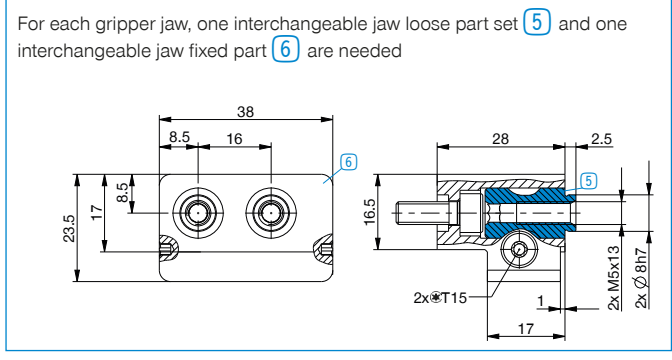
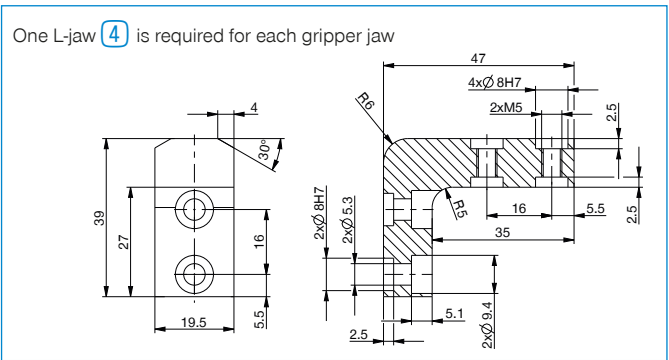
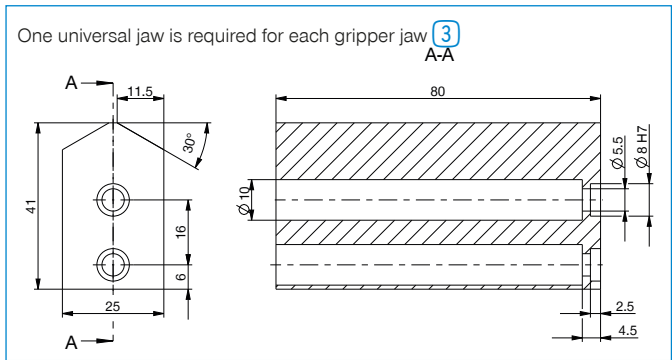
**WVM5**



Pressure Safety Valve

**DSV1-8**

## ▶ TECHNICAL DRAWINGS ACCESSORIES



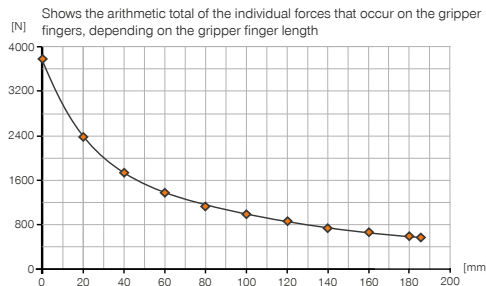
# 2-JAW ANGULAR GRIPPERS

## INSTALLATION SIZE GPW5013

### ▶ PRODUCT SPECIFICATIONS

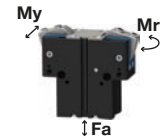


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	110
My [Nm]	130
Fa [N]	3300

### ▶ TECHNICAL DATA

Order no.	GPW5013NC-00-A
Stroke per jaw [°]	+15/-2
Gripping moment in closing max. [Nm]	130
Gripping moment secured by spring min. [Nm]	39.5
Gripping force in closing max. (at 0°) [N]*	4200
Length of the gripper fingers max. [mm]	185
Permissible weight per jaw max [kg]	2.4
Closing time [s]	0.08
Opening time [s]	0.12
Repetition accuracy +/- [mm]	0.01
Operating pressure [bar]	4 ... 8
Operating temperature [°C]	-10 ... +90
Air volume per cycle [cm³]	160
Protection to IEC 60529	IP64
Weight [kg]	3

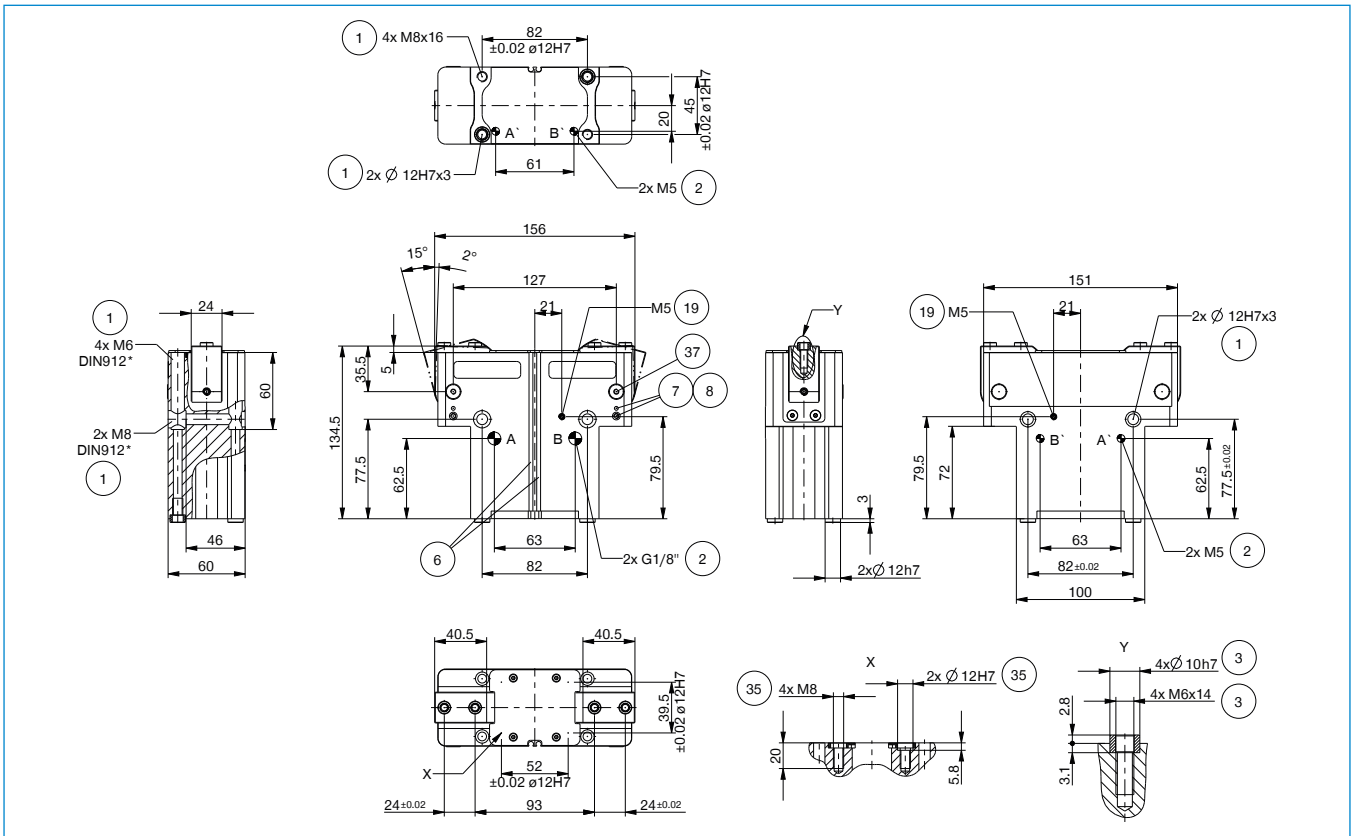
#### ▶ Technical Data - High Temperature Version

Order no.	GPW5013NC-20-A
Operating temperature [°C]	-10 ... +130

\* All data measured at 6 bar

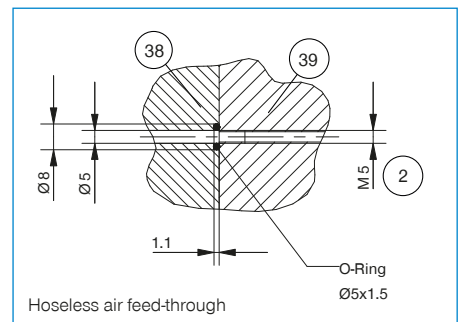
\*\* Measured from top edge of housing

## ▶ TECHNICAL DRAWINGS



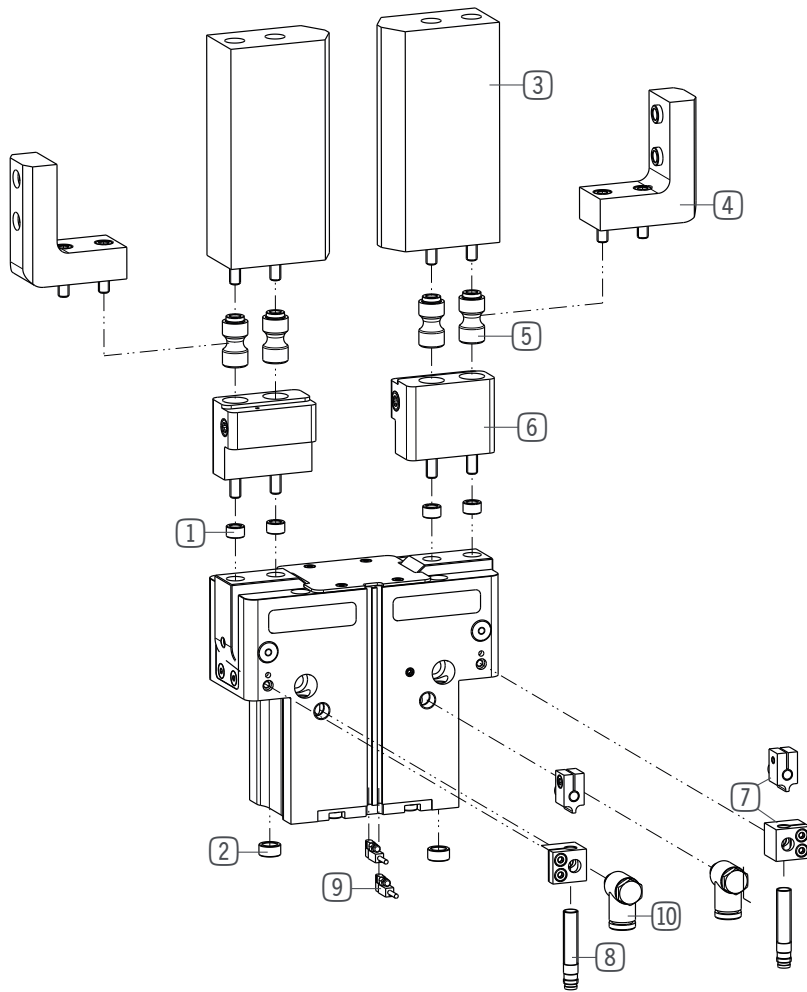
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ⑱ Air purge connection option
- ⑳ Mounting possibility for stroke adjustment

- screwe
- ⑳ Mounting possibility for cam switch
- ㉑ Adapter
- ㉒ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ' Air connection, alternative (close)
- Ⓑ' Air connection, alternative (open)



# 2-JAW ANGULAR GRIPPERS

## INSTALLATION SIZE GPW5013



### ► INCLUDED IN DELIVERY



Centering Disc

018187



Centering Disc

019280

## ▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

**UB5013AL**



Universal jaw steel

**UB5013ST**



L-jaw

**LB5013**



Changeable jaw, loose-part-set

**WB5013L**



Changeable jaw, fix-part

**WB5013F**



Attachment Kit for Inductive Proximity Switch

**ANS0084**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Angled Fittings - Quick Connect Style

**WV1-8X6**

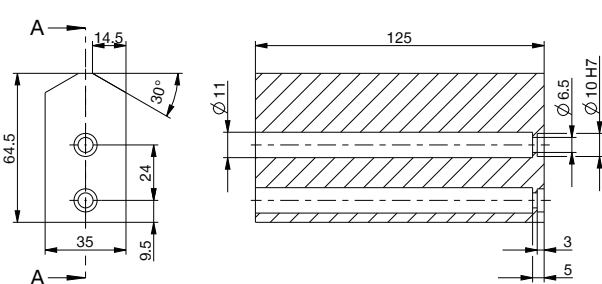


Pressure Safety Valve

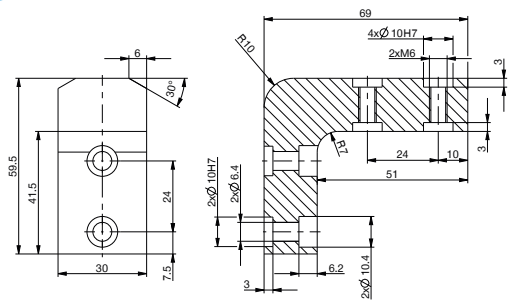
**DSV1-8**

## ▶ TECHNICAL DRAWINGS ACCESSORIES

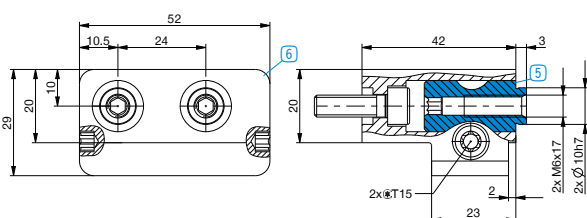
One universal jaw is required for each gripper jaw **3**



One L-jaw **4** is required for each gripper jaw



For each gripper jaw, one interchangeable jaw loose part set **5** and one interchangeable jaw fixed part **6** are needed



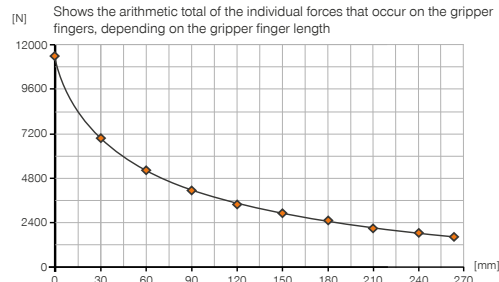
# 2-JAW ANGULAR GRIPPERS

## INSTALLATION SIZE GPW5025

### ▶ PRODUCT SPECIFICATIONS

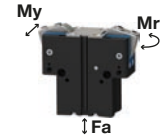


#### ▶ Gripping force diagram



#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	180
My [Nm]	225
Fa [N]	7500

### ▶ TECHNICAL DATA

#### ▶ Technical Data\*

Order no.	GPW5025NC-00-A
Stroke per jaw [°]	+15/-2
Gripping moment in closing max. [Nm]	620
Gripping moment secured by spring min. [Nm]	150
Gripping force in closing max. (at 0°) [N]*	14500
Length of the gripper fingers max. [mm]	265
Permissible weight per jaw max [kg]	7
Closing time [s]	0.155
Opening time [s]	0.30
Repetition accuracy +/- [mm]	0.01
Operating pressure [bar]	4 ... 8
Operating temperature [°C]	-10 ... +90
Air volume per cycle [cm³]	780
Protection to IEC 60529	IP64
Weight [kg]	12.1

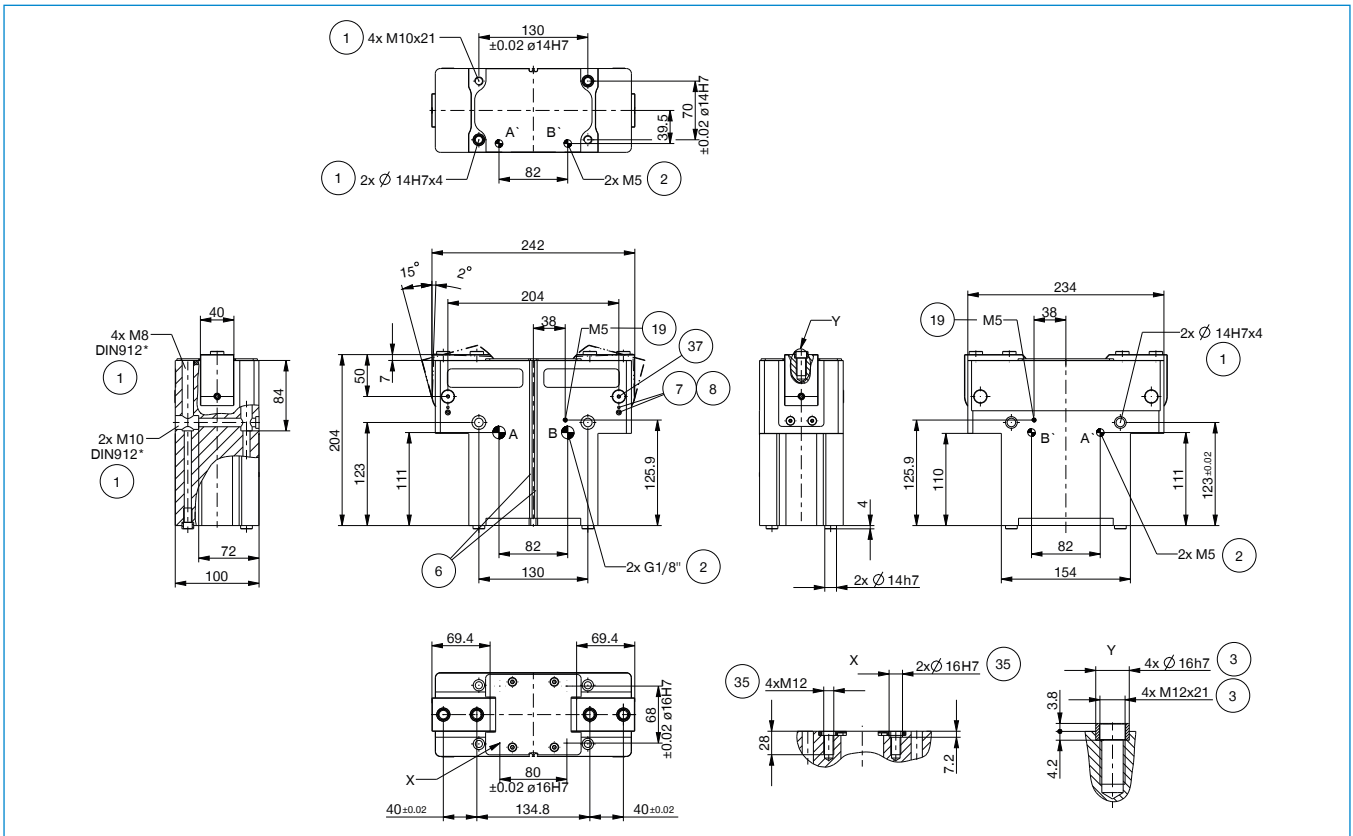
#### ▶ Technical Data - High Temperature Version

Order no.	GPW5025NC-20-A
Operating temperature [°C]	-10 ... +130

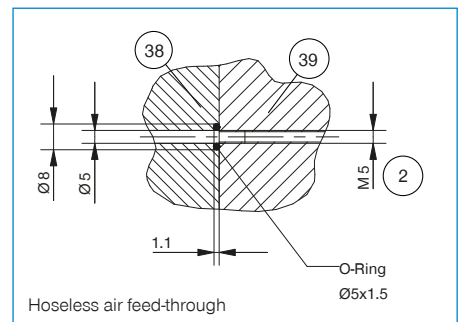
\*All data measured at 6 bar

\*\* Measured from top edge of housing

## TECHNICAL DRAWINGS

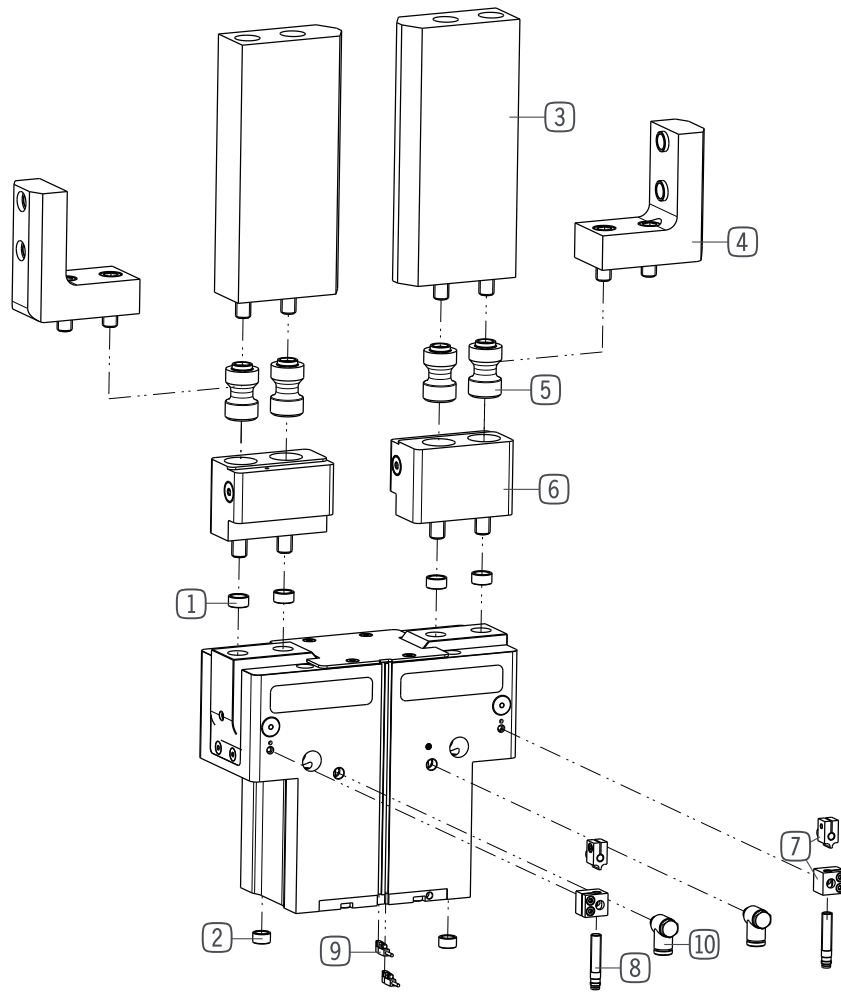


- |   |  |
|---|--|
| ① Gripper attachment                          | screwe                                 |
| ② Energy supply                               | ③⑦ Mounting possibility for cam switch |
| ③ Fixing for gripper finger                   | ③⑧ Adapter                             |
| ⑥ Integrated slot for magnetic field sensor   | ③⑨ Gripper                             |
| ⑦ Fixing for mounting block                   | Ⓐ Air connection (close)               |
| ⑧ Fixing clamping bracket (KHA)               | Ⓑ Air connection (open)                |
| ⑨ Air purge connection option                 | Ⓐ Air connection, alternative (close)  |
| ③⑤ Mounting possibility for stroke adjustment | Ⓑ Air connection, alternative (open)   |



# 2-JAW ANGULAR GRIPPERS

## INSTALLATION SIZE GPW5025



### ► INCLUDED IN DELIVERY



Centering Disc

030529



Centering Disc

019387



**▶ RECOMMENDED ACCESSORIES**



Universal jaw aluminium

**UB5025AL**



Universal jaw steel

**UB5025ST**



L-jaw

**LB5025**



Changeable jaw, loose-part-set

**WB5025L**



Changeable jaw, fix-part

**WB5025F**



Attachment Kit for Inductive Proximity Switch

**ANS0084**



Inductive proximity switch - Connector M8

**NJ8-E2S**



Magnetic field sensor Angled Cable 0,3 m - Connector M8

**MFS103SKHC**



Magnetic field sensor Straight Cable 0,3 m - Connector M8

**MFS204SKHC**



2-Position-Sensor Cable 0,3 m - Connector M8

**MFSP2SKHC-02**



Plug-in connector Straight Cable 5m - Socket M8 (female)

**KAG500**



Angled Fittings - Quick Connect Style

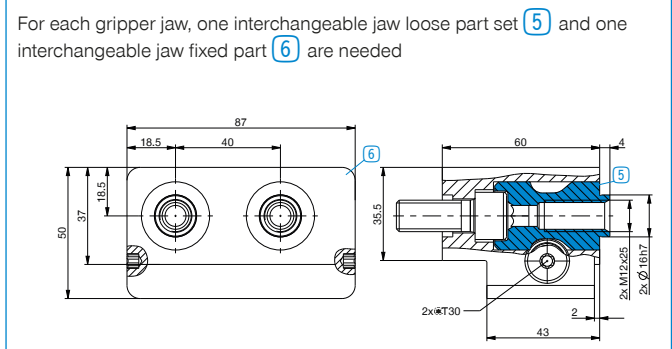
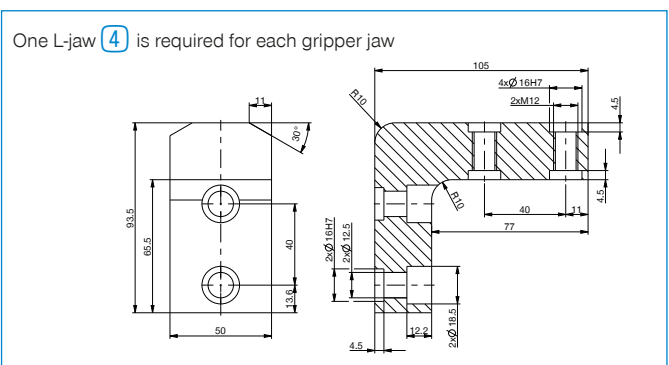
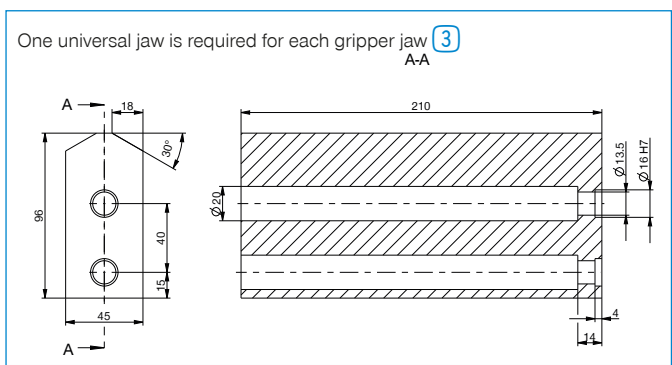
**WV1-8X8**



Pressure Safety Valve

**DSV1-8**

**▶ TECHNICAL DRAWINGS ACCESSORIES**



# ADJUSTMENT JAWS

## SERIES EB5000

### ▶ PRODUCT ADVANTAGES



#### ▶ Easy and fast

Easy gripper finger adjustment to fit various workpieces saves time and money

#### ▶ Reproducible and durable

The numbering of the detent notches allows you to easily configure the gripper finger length and FEM-calculated adjustment jaws guarantee maximum process reliability

- ▶ **You can install one and the same adjustment jaw within the same 5000 gripper range on various gripper types of identical size and combine it with the respective accessory parts. This increases flexibility and reduces the diversity of parts in equal measure, which in turn reduces the storage costs**

### ▶ THE BEST PRODUCT FOR YOUR APPLICATION



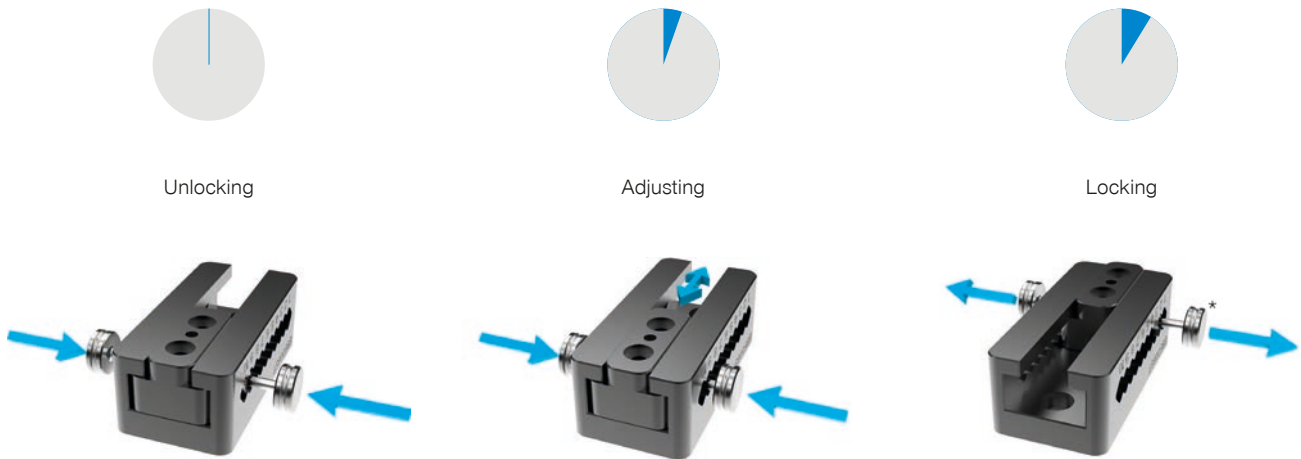
#### ▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

[www.zimmer-group.com](http://www.zimmer-group.com)

## ▶ SETTING THE GRIPPER FINGER POSITION IN UNDER 10 SECONDS



\* Pressure pieces are screwed on and can be removed to minimize interference contours

## ▶ SERIES CHARACTERISTICS



### ▶ Technical Information

All information just a click away at: [www.zimmer-group.com](http://www.zimmer-group.com)

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



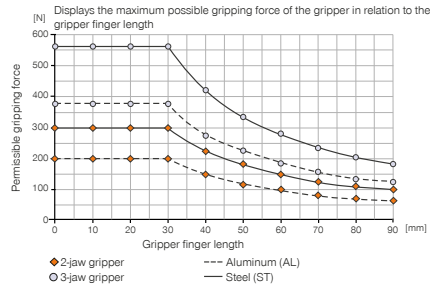
# ADJUSTMENT JAWS

## INSTALLATION SIZE EB5003

### ▶ PRODUCT SPECIFICATIONS

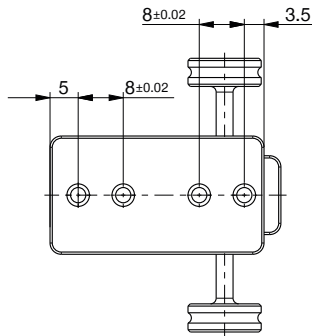


#### ▶ Gripping force diagram

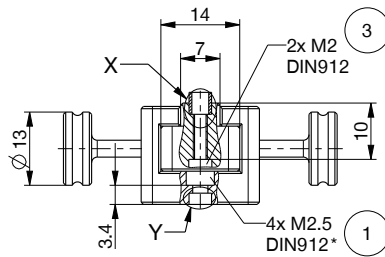
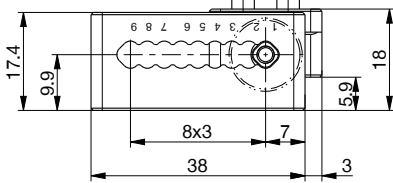


#### ▶ Technical data

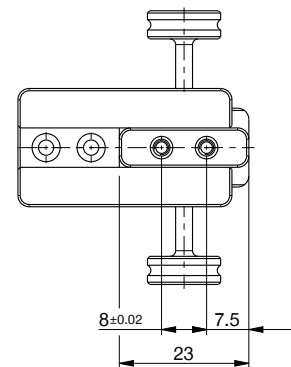
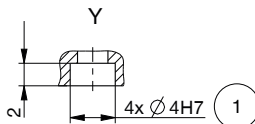
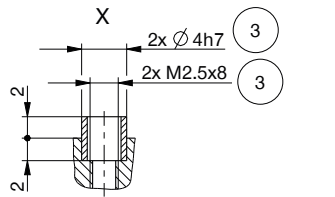
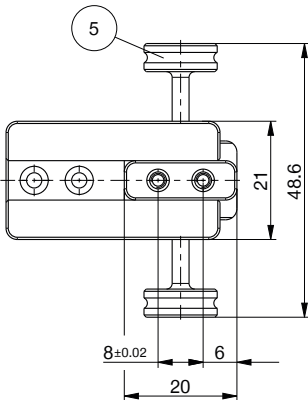
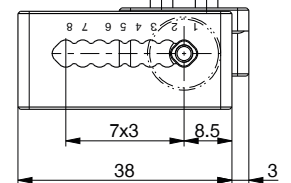
Order no.	EB5003AL	EB5003ST
compatible with installation size	GPP5003 / GPD5003	GPP5003 / GPD5003
Max. adjustment range [mm]	21	24
Spacing [mm]	7x3	8x3
Max. weight per adjustment jaw [kg]	0.04	0.09



EB5003ST



EB5003AL



- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)

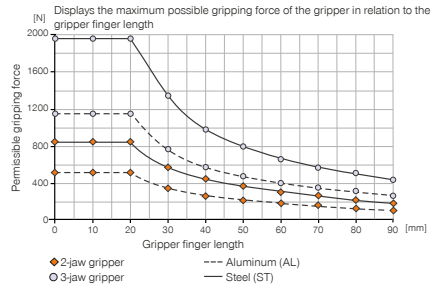
# ADJUSTMENT JAWS

## INSTALLATION SIZE EB5004

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Gripping force diagram



#### ▶ Technical data

Order no.	EB5004AL	EB5004ST
compatible with installation size	GPP5004 / GPD5004	GPP5004 / GPD5004
Max. adjustment range [mm]	28	32
Spacing [mm]	7x4	8x4
Max. weight per adjustment jaw [kg]	0.06	0.13

① Fastening the adjustment jaw  
③ Fixing for gripper finger  
⑤ Adjustment mechanism (removable)

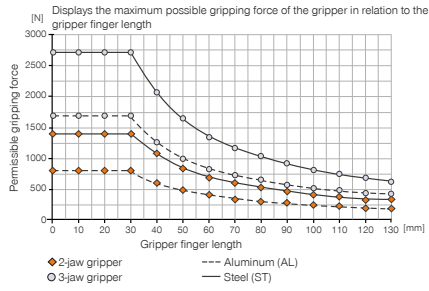
# ADJUSTMENT JAWS

## INSTALLATION SIZE EB5006

### ▶ PRODUCT SPECIFICATIONS

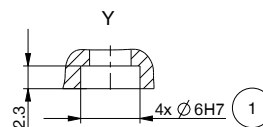
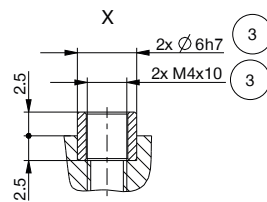
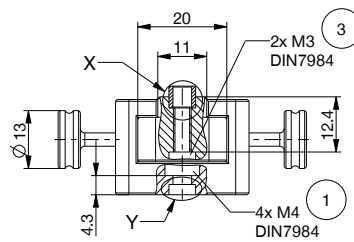
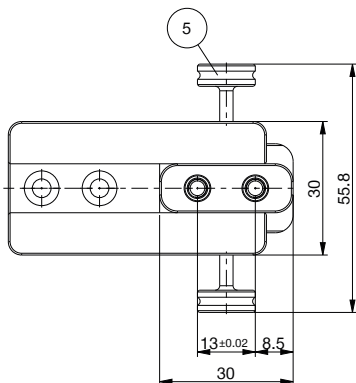
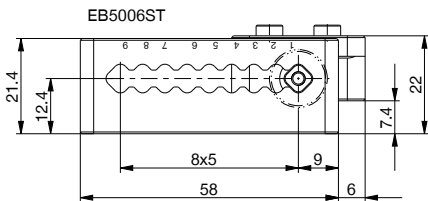
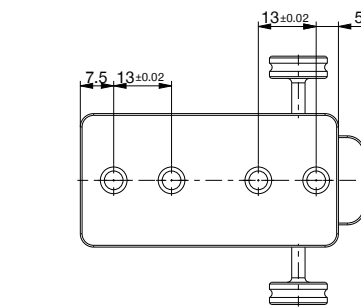


#### ▶ Gripping force diagram

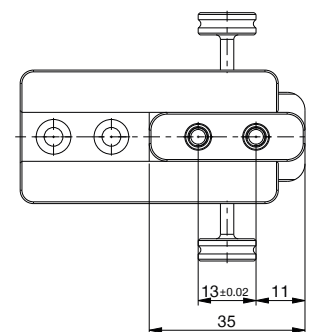
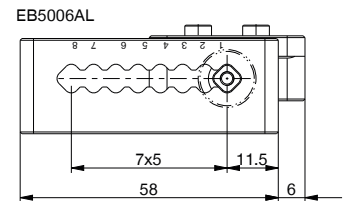


#### ▶ Technical data

Order no.	EB5006AL	EB5006ST
compatible with installation size	GPP5006 / GEP5006 / GPD5006 / GED5006	GPP5006 / GEP5006 / GPD5006 / GED5006
Max. adjustment range [mm]	35	40
Spacing [mm]	7x5	8x5
Max. weight per adjustment jaw [kg]	0.10	0.20



- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



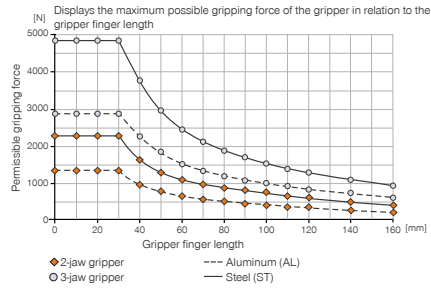
# ADJUSTMENT JAWS

## INSTALLATION SIZE EB5008

### ▶ PRODUCT SPECIFICATIONS



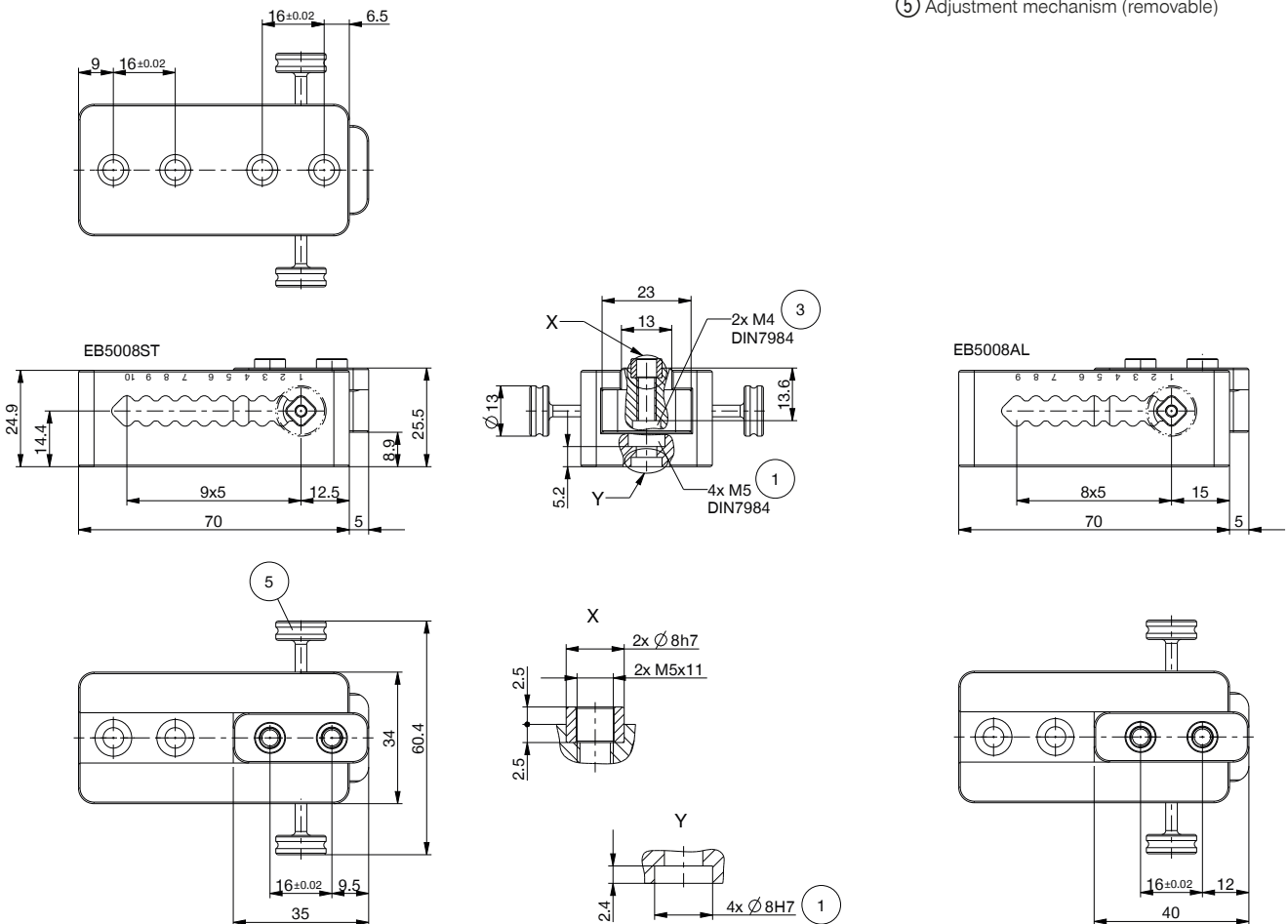
#### ▶ Gripping force diagram



#### ▶ Technical data

Order no.	EB5008AL	EB5008ST
compatible with installation size	GPP5008 / GEP5008 / GPD5008 / GED5008 / GPW5008	GPP5008 / GEP5008 / GPD5008 / GED5008 / GPW5008
Max. adjustment range [mm]	40	45
Spacing [mm]	8x5	9x5
Max. weight per adjustment jaw [kg]	0.14	0.34

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



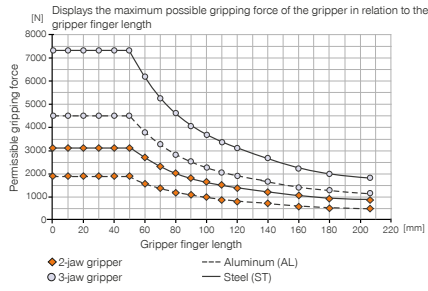
# ADJUSTMENT JAWS

## INSTALLATION SIZE EB5010

### ▶ PRODUCT SPECIFICATIONS



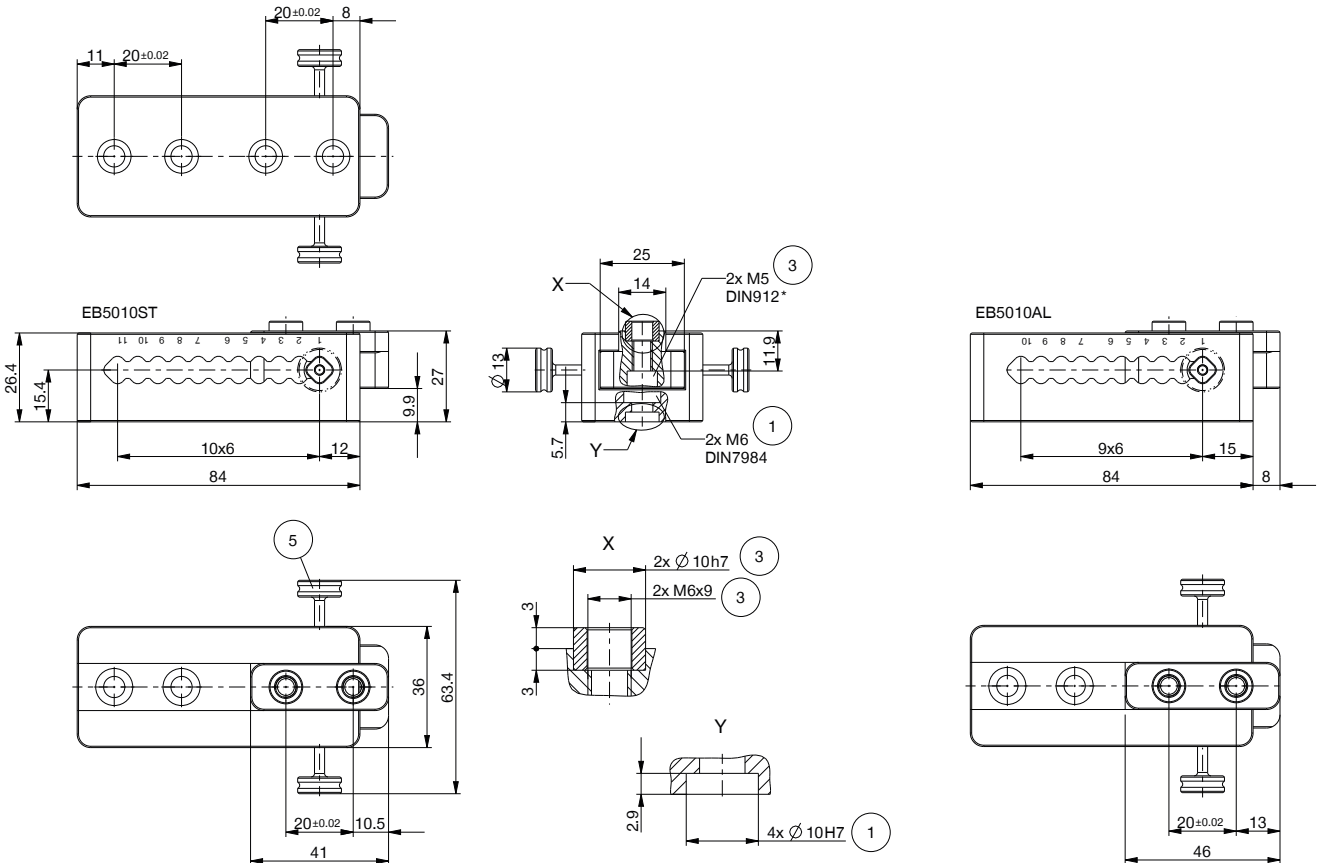
#### ▶ Gripping force diagram



#### ▶ Technical data

Order no.	EB5010AL	EB5010ST
compatible with installation size	GPP5010 / GEP5010 / GPD5010 / GED5010	GPP5010 / GEP5010 / GPD5010 / GED5010
Max. adjustment range [mm]	54	60
Spacing [mm]	9x6	10x6
Max. weight per adjustment jaw [kg]	0.19	0.45

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)





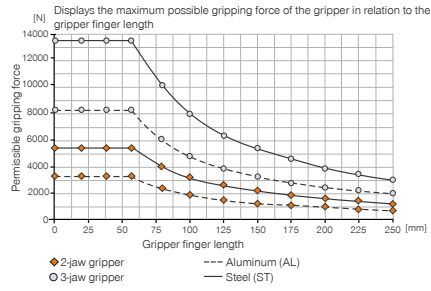
# ADJUSTMENT JAWS

## INSTALLATION SIZE EB5013

### ▶ PRODUCT SPECIFICATIONS



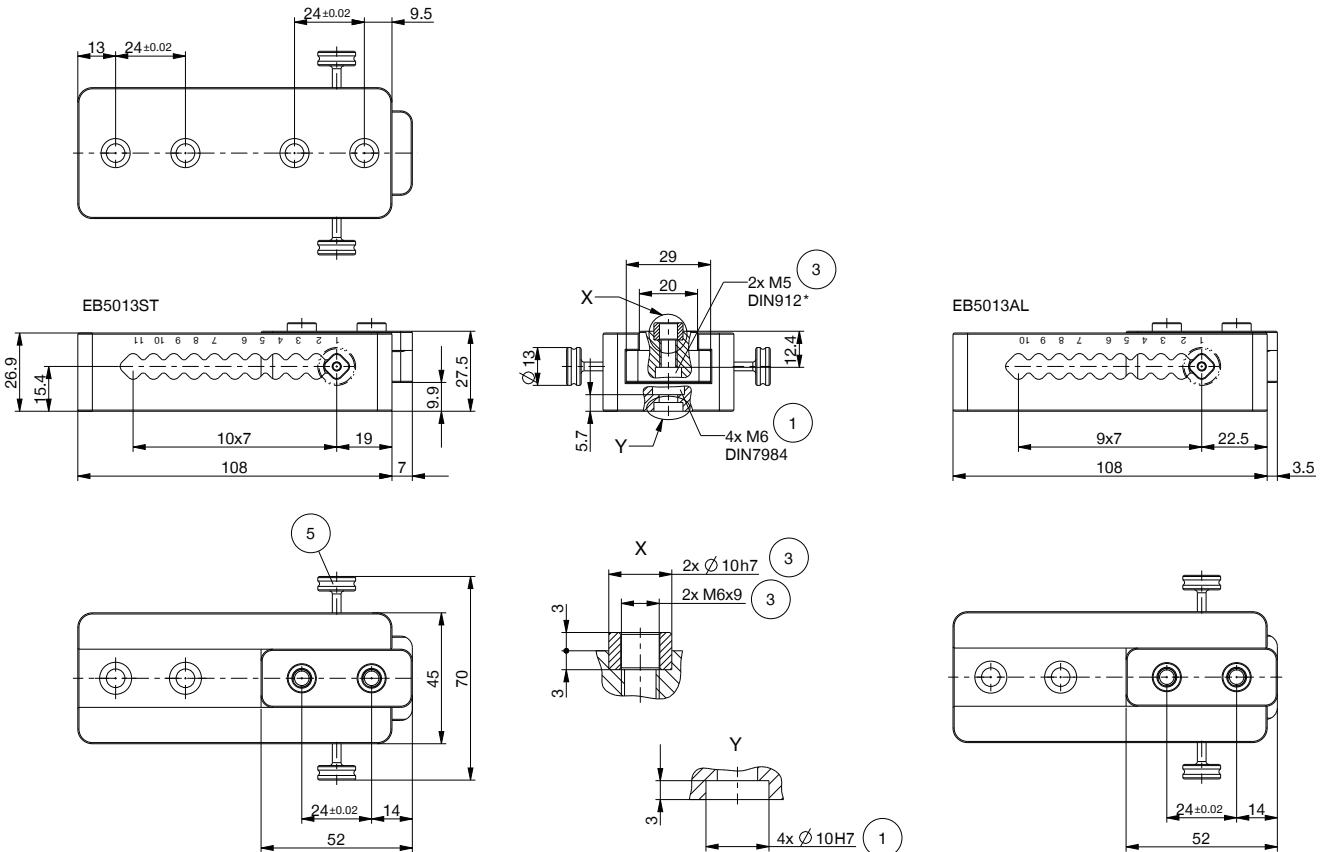
#### ▶ Gripping force diagram



#### ▶ Technical data

Order no.	EB5013AL	EB5013ST
compatible with installation size	GPP5013 / GPD5013 / GPW5013	GPP5013 / GPD5013 / GPW5013
Max. adjustment range [mm]	63	70
Spacing [mm]	9x7	10x7
Max. weight per adjustment jaw [kg]	0.30	0.75

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



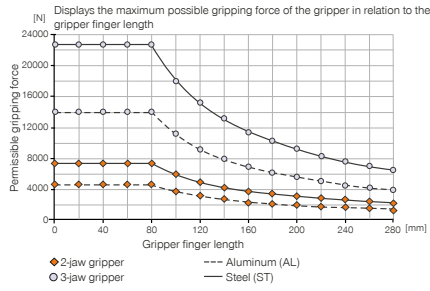
# ADJUSTMENT JAWS

## INSTALLATION SIZE EB5016

### ▶ PRODUCT SPECIFICATIONS



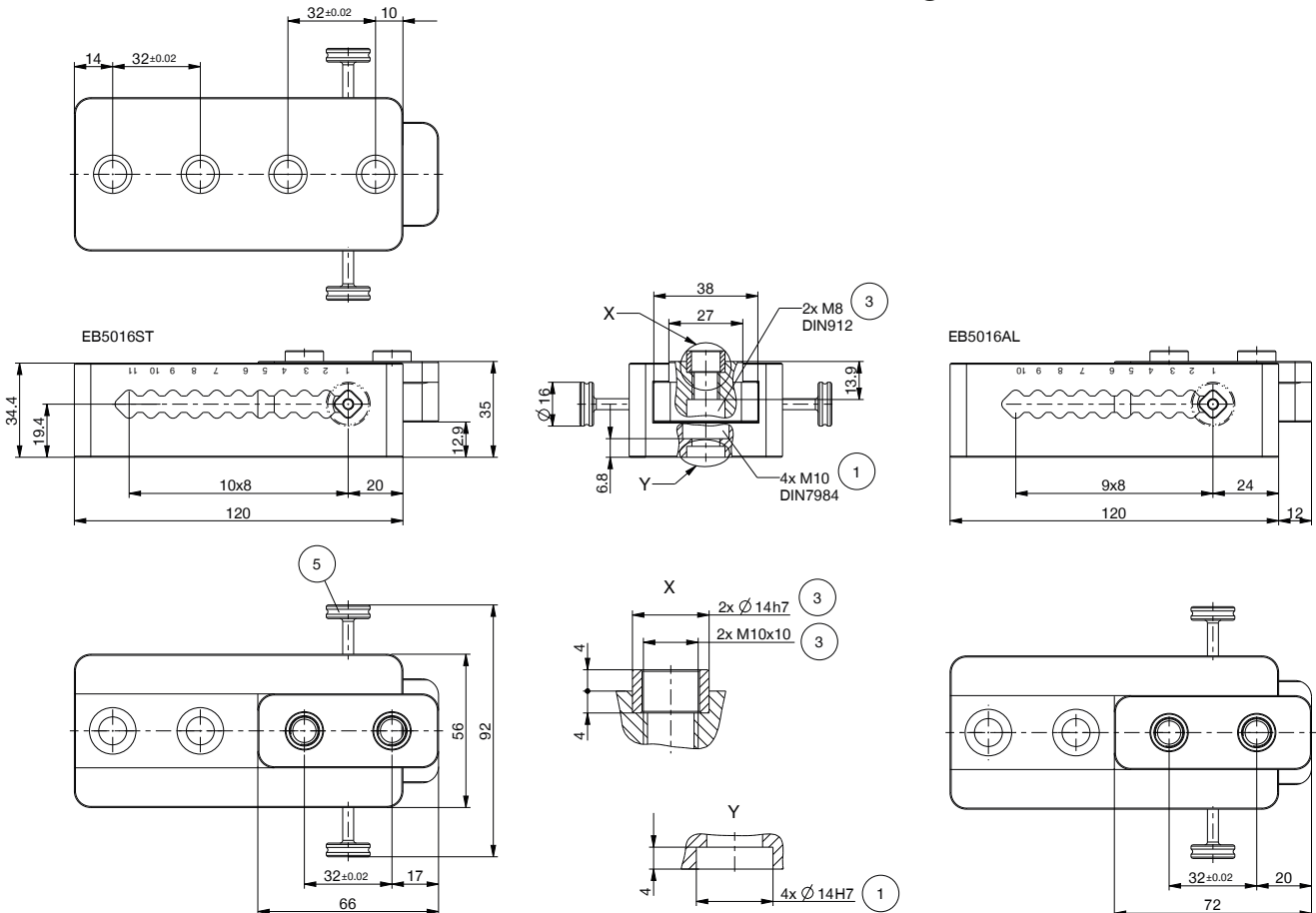
#### ▶ Gripping force diagram



#### ▶ Technical data

Order no.	EB5016AL	EB5016ST
compatible with installation size	GPP5016 / GPD5016	GPP5016 / GPD5016
Max. adjustment range [mm]	72	80
Spacing [mm]	9x8	10x8
Max. weight per adjustment jaw [kg]	0.56	1.35

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



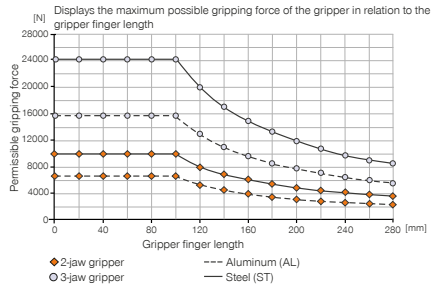
# ADJUSTMENT JAWS

## INSTALLATION SIZE EB5025

### ▶ PRODUCT SPECIFICATIONS



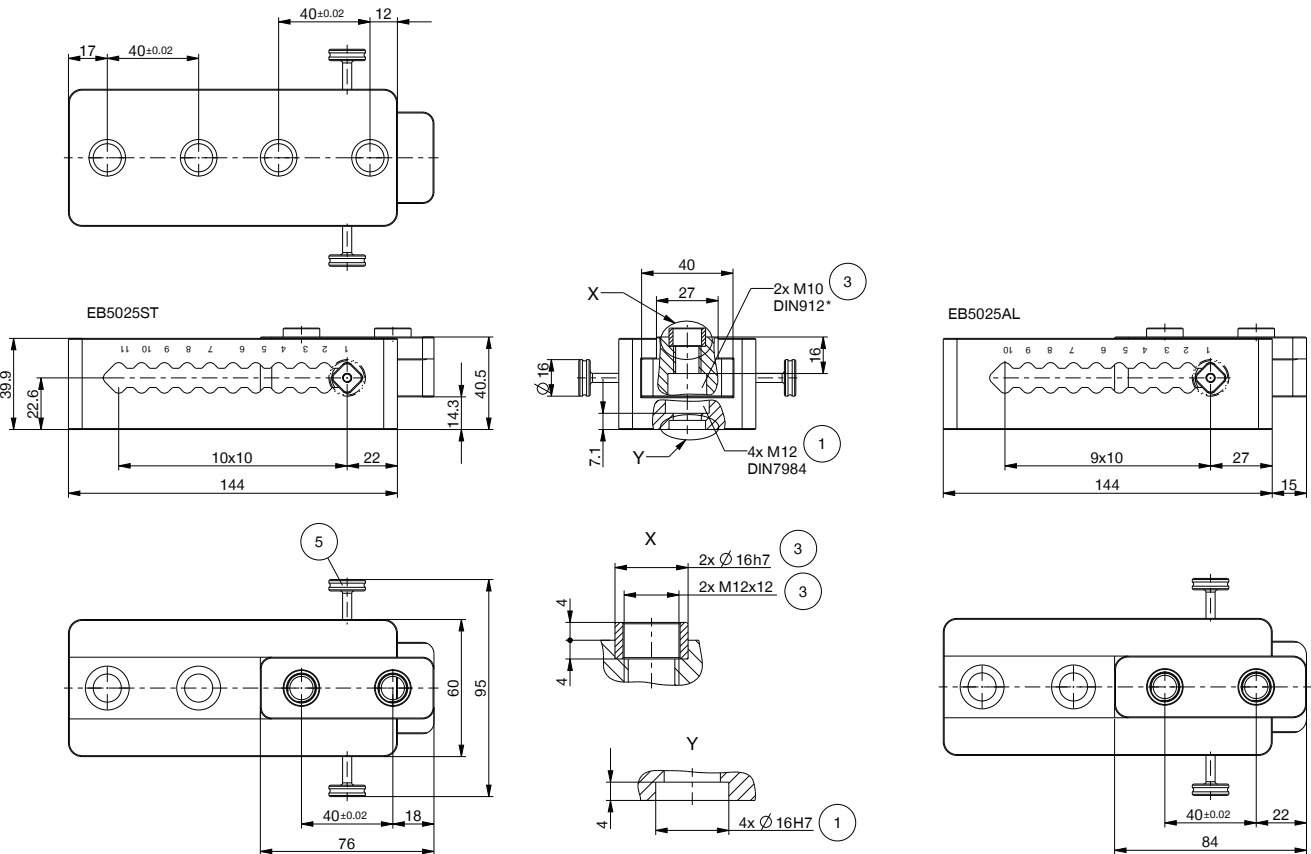
#### ▶ Gripping force diagram



#### ▶ Technical data

Order no.	EB5025AL	EB5025ST
compatible with installation size	GPP5025 / GPD5025 / GPW5025	GPP5025 / GPD5025 / GPW5025
Max. adjustment range [mm]	90	100
Spacing [mm]	9x10	10x10
Max. weight per adjustment jaw [kg]	0.81	1.95

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



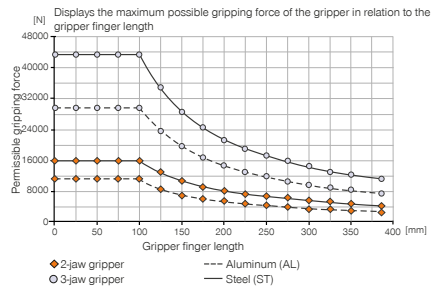
# ADJUSTMENT JAWS

## INSTALLATION SIZE EB5030

### ▶ PRODUCT SPECIFICATIONS



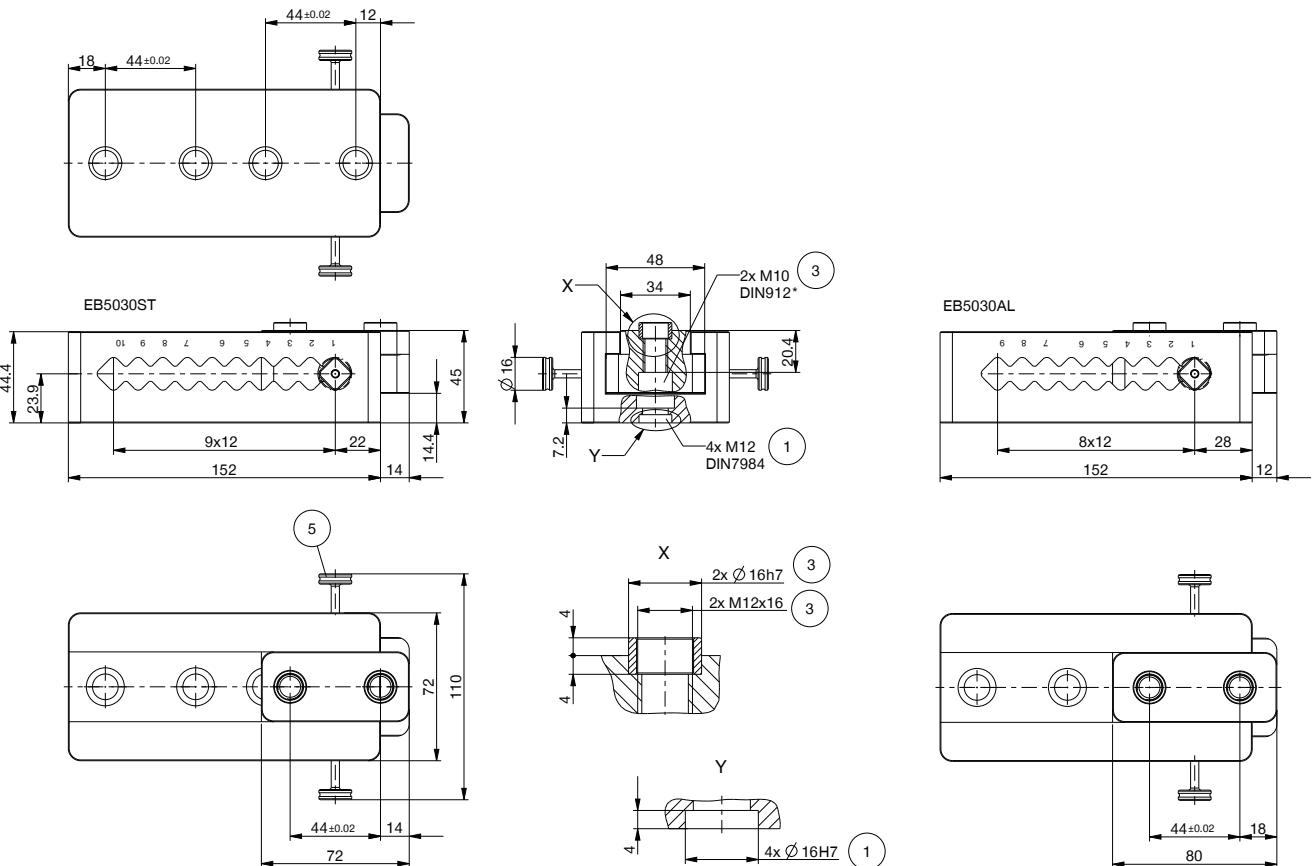
#### ▶ Gripping force diagram



#### ▶ Technical data

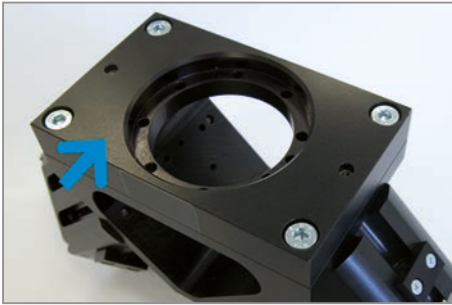
Order no.	EB5030AL	EB5030ST
compatible with installation size	GPP5030 / GPD5030	GPP5030 / GPD5030
Max. adjustment range [mm]	96	108
Spacing [mm]	8x12	9x12
Max. weight per adjustment jaw [kg]	1.07	2.63

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)





# ANGLE FLANGE SERIES WFR



## Flexible connection to your robot

Adapter plate manufactured according to EN ISO 9409-1 matches for a variety of 40 different types of robot manufacturers. In addition, also available for robots with hollow axle.

### 1st step: Select adapter plate

Simply define the type of robot and you get the appropriate adapter plate.



## About 100 different variants

Adapter plates and angle flanges can be combined with 16 different grippers - with the result of more than 100 different varieties. Choose from our main catalog your appropriate gripper. There you will find the most diverse designs: some with other without gripping force safety device, protected from dust or temperature resistant.

### 2nd step: Select Angle flange

Choose a gripper and there follows the right angle flange.

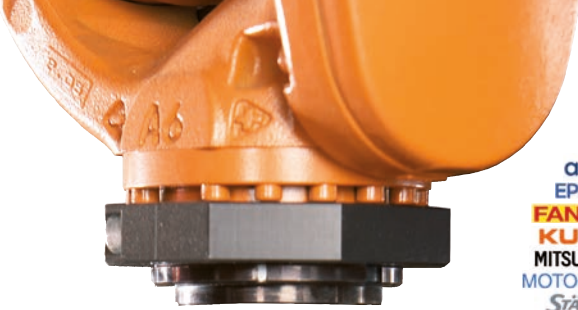


## Extend the functionality of your Angle flange

Cover plate, discharge nozzle or programming pins, with the extensive accessory, you can quickly and individually integrate additional functions.

### 3rd step: Select accessories





**1st step:**



Adapter plate

- adept
- EPSON
- FANUC
- KUKA
- MITSUBISHI
- MOTOMAN
- STÄUBLI
  
- ABB
- adept
- COMAU
- FANUC
- Kawasaki
- KUKA
- MITSUBISHI
- MOTOMAN
- STÄUBLI
  
- KUKA
- Reis
- STÄUBLI
  
- COMAU
- FANUC
- KUKA
- Reis
  
- FANUC

Connecting flange EN-ISO9409-1 TK 31,5	Order no.: Adapter plate
ViperS650 Pro Six LR mate 200 KR5 sixx RV1, RV2, RV3, RV4, RV5, RV6 HP3, HP5, HP6 RX60, TX40, TX60, RS20, RS40, RS60, RS80	APR05
Connecting flange EN-ISO9409-1 TK 40 140, 2400L, 1600-5, 1600-7 viper S13400 smart six M-6iB, M16iB, M710iC/20L FS06, FC06, FA06, FS10C, FC10C KR16L6 (KS) RV12 UP6, HP6, HP20, IA20 RX90, RX130XL	APR01
Connecting flange EN-ISO9409-1 TK 50 KR6, KR16, KR30L16 RV10-6, RV20-6 RX130, TX90, RX160	APR02
Connecting flange EN-ISO9409-1 TK 100 NM 16-3.1, NM 25-2.2, NM 45-2.0 M-420iA, M710iC/50/70 KR30, KR60 RV60-40, RV60-60	APR03
M10iA	APR04

**2nd step:**



Angle flange

All other informations about your gripper, you will find in our catalog or online at: [www.zimmer-group.com](http://www.zimmer-group.com)

Grippers to match for WFR03:	Order no.: Angle flange
GPP5004 GPP5006 GPD5004 GPD5006	WFR03
Grippers to match for WFR04:	
GPP5008 GPP5010 GPD5008 GPD5010 GPW5008	WFR04

**3rd step:**



Cover plate



Discharge nozzle



Programming pins

	Order no.: Accessories
WFR03	ABWFR01
WFR04	ABWFR02
WFR03 + WFR04	DUWFR01
WFR03 + WFR04	SPWFR01

# CHECKLIST GRIPPER

Customer number	<input type="text"/>	Telephone number	<input type="text"/>
Company	<input type="text"/>	Fax number	<input type="text"/>
Contact Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/>	<input type="text"/>	E-Mail	<input type="text"/>
<input type="checkbox"/> Request	Desired date	<input type="text"/>	Req. No. <input type="text"/>
<input type="checkbox"/> Order			Ord No. <input type="text"/>
<input type="checkbox"/> Parallel gripper	<input type="checkbox"/> Three-jaw gripper	<input type="checkbox"/> Angular gripper	
<input type="checkbox"/> Other / If yes, which type	<input type="text"/>		

## Drive

Pneumatic                       Electric                       Hydraulic

Operating pressure  bar                      Voltage  Volts

## Required stroke

Per jaw  mm                      or                      Total stroke  mm

## Gripper finger length

Gripper top edge to force application point  mm

## Ambient conditions

Clean / Dry                       Small amount of swarf  
Coolant overspray                       Large amount of swarf Coolant  
under pressure of grinding agents

Chemical substances / If yes, which

Temperature  °C                      Cycles  per minute

## Required force

Gripping force  N                      or                      Workpiece weight  kg  g

## Gripping type

Gripping inward                       Gripping outward

Frictional fit                       Form fit

Prism angle  °                      Coefficient of friction                       Axis acceleration  m/s<sup>2</sup>

## Self Locking

Not required                       When closing                       When opening                       Pressure safety valve



**Desired accessories**

Inductive sensor       Magnetic field sensor       With cable       Pluggable

Separate cable / If yes, how long  m

Straight fitting

Angled fitting

Pressure safety valve

Pneumatic fittings / If yes, which

Straight

Angled

Flow control valve

Notes/comments

Editor/Date

**Desired accessories**

Sketch       3D model       Other

# USAGE NOTE

## GENERAL

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# USAGE NOTE

## INDIVIDUAL

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### **DECLARATION OF INCORPORATION IN TERMS OF THE EC DIRECTIVE 2006/42/EC ON MACHINERY (ANNEX II 1 B)**

We hereby declare that our elements meet the following basic requirements of the Machinery Directive 2006/42/EC as an incomplete machine

No.1.1.2., No.1.1.3., No.1.1.5., No.1.3.2, No. 1.3.4, No. 1.3.7, No.1.5.3, No.1.5.4, No.1.5.8., No.1.6.4, No.1.7.1, No.1.7.3, No.1.7.4.

We also declare that the specific technical documents were produced in accordance with Annex VII Part B of this Directive. We undertake to provide the market supervisory bodies with electronic versions of the incomplete machine's special documents via our documentation department should they have reason to request them.

The incomplete machine may only be commissioned if the machine or system in which the incomplete machine is to be installed has been determined to satisfy the conditions of the Machinery Directive 2006/42/EC and the EC Declaration of Conformity has been produced in accordance with Annex II A.







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