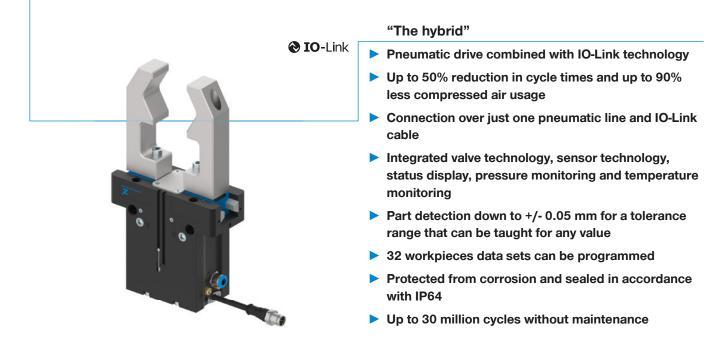
# 2-JAW PARALLEL GRIPPERS SERIES GPP5000IL

## PRODUCT ADVANTAGES

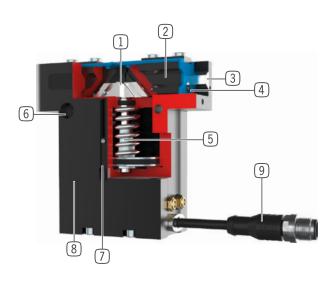


### SERIES CHARACTERISTICS

Installation size	Version					
GPP50XXIL	Ν	NC	NO	S	SC	SO
No-Link	•	•	•	•	•	•
Spring closing C		•			•	
Spring opening O			•			•
F High-strength S				•	•	•
30 million maintenance-free cycles (max.)	•	•	•	•	•	•
Integrated sensing	•	•	•	•	•	•
Integrated valve technology	•	•	•	•	•	•
Protected against corrosion	•	•	•	•	•	•
Purged air	•	•	•	•	•	•
IP 64 IP64	•	•	•	•	•	•



## 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 centering sleeves
- Lubricated for life via incorporated lubrication slots

#### 3 Steel Linear Guide

Steel in steel guideEnables use of extremely long gripper fingers

#### 4 Dual lip seal

- IP64
- Prevents grease from being squeezed out, increasing service life
- 5 Integrated gripping force safety device

   Spring built into cylinder chamber as an energy store
   6 Mounting and positioning

   Alternatively, on several sides for customized mounting

#### 7 Position sensing

- integrated Hallsensor
- 8 Integrated valve technology
  - Activation of the gripper by means of a compressed air supply

#### 9 Integrated control module

- Single-cable solution via IO-Link
- Pressure, temperature, position and other parameters are readable

### TECHNICAL DATA

	Stroke per jaw	Gripping force	Weight	IP class	
Installation size	[mm]	[N]	[kg]		
GPP5006IL	3 - 6	330 - 1080	0,45 - 0,53	IP64	
GPP5008IL	4 - 8	520 - 1670	0,75 - 0,87	IP64	
GPP5010IL	5 - 10	885 - 2890	1,23 - 1,45	IP64	
GPP5013IL	6 - 13	1410 - 4400	2,5 - 2,9	IP64	
GPP5016IL	8 - 16	2090 - 6600	4,4 - 5,1	IP64	
GPP5025IL	14 - 25	3280 - 9130	8,5 - 10,4	IP64	

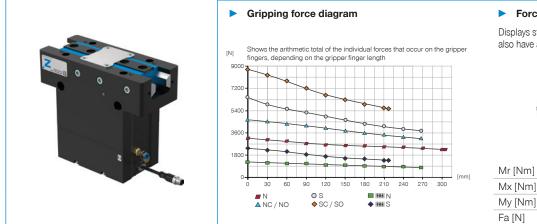
### FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: 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.

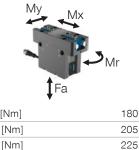
# 2-JAW PARALLEL GRIPPERS INSTALLATION SIZE GPP5025IL

## PRODUCT SPECIFICATIONS



#### Forces and moments

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

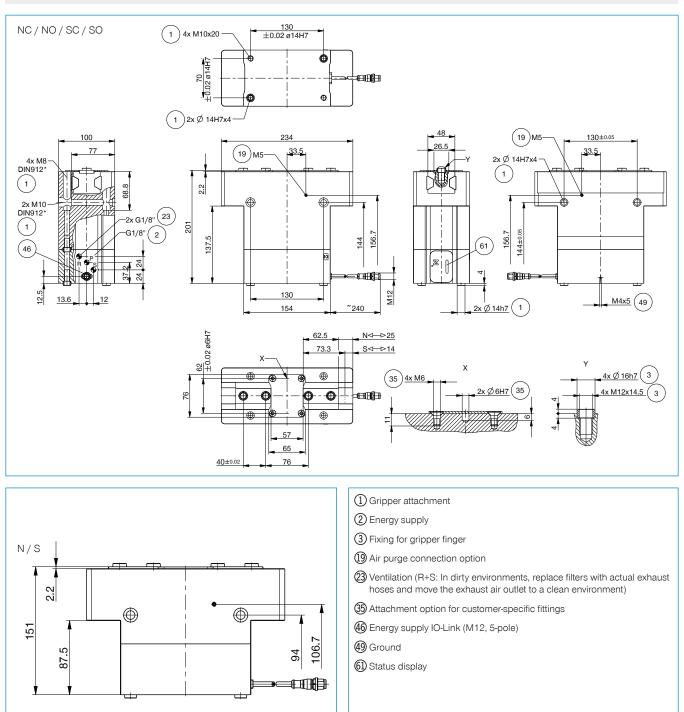


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## **TECHNICAL DATA**

	Technical data						
Order no.	GPP5025N-IL-10-A	GPP5025NC-IL-10-A	GPP5025NO-IL-10-A	GPP5025S-IL-10-A	GPP5025SC-IL-10-A	GPP5025SO-IL-10-A	
Control	<b>ð 10</b> -Link	🚷 IO-Link	🚷 IO-Link	🚷 IO-Link	🚷 IO-Link	🚷 IO-Link	
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	
Cycle count max. [cycle/min]	120	80	80	120	80	80	
Dead weight of mounted gripper finger 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	
Nominal operating pressure [bar]	6	6	6	6	6	6	
Operating temperature [°C]	+5 +50	+5 +50	+5 +50	+5 +50	+5 +50	+5 +50	
Air volume per cycle [cm <sup>3</sup> ]	420	830	830	420	830	830	
Integrated valve technology	Yes	Yes	Yes	Yes	Yes	Yes	
Integrated position sensing	Yes	Yes	Yes	Yes	Yes	Yes	
Voltage [V]	24	24	24	24	24	24	
Current consumption max. [A]	0.12	0.12	0.12	0.12	0.12	0.12	
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64	
Weight [kg]	8.6	10	10	8.8	11	10	





# 2-JAW PARALLEL GRIPPERS INSTALLATION SIZE GPP5025IL

## ACCESORIES



### INCLUDED IN DELIVERY







4 [piece] Centering Disc 030529 2 [piece] Centering Disc 019387

CFILT00011

Filters

## RECOMMENDED ACCESSORIES



# **GRIPPING COMPONENTS**







Aluminum adjustment jaw

EB5025AL



EB5025ST W Steel adjustment jaw Ch



WB5025L Changeable jaw, loosepart-set



WB5025F Changeable jaw, fix-part

**UB5025AL** Universal jaw aluminium

Universal jaw steel



## **ENERGY SUPPLY**



**GV1-8X8** Straight Fittings - Quick Connect Style



# **CONNECTIONS / OTHER**



KAG500IL Plug-in connector straight 5 m - plug, socket M12

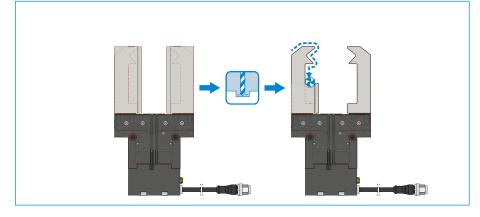


SCM-C-00-00-A Smart Communication Module

# 2-JAW PARALLEL GRIPPERS SERIES GPP5000IL FUNCTIONAL DESCRIPTION



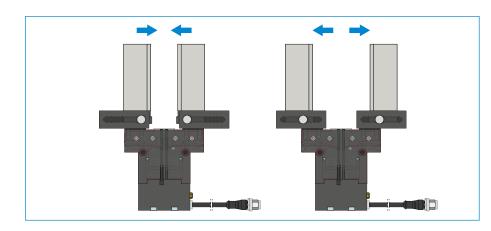
# **GRIPPING COMPONENTS**



#### Universal jaws – UB5000

Can be used immediately or for individual reprocessing

The gripper blanks are available in aluminum (AL) and steel (ST) versions and are installed directly on the gripper using the screws in the scope of delivery. The fits for the centering sleeves are already in place for this purpose. One universal jaw is required for each gripper jaw.



#### Adjustment jaws - EB5000

For tool-free adaptation of the gripper range

By manually activating the locking mechanism, which is pre-tensioned by a spring, the adjustment jaw can be moved within a grid of detent notches that has a number scale. Depending on the forces and torques that apply, the adjustment jaws are available in aluminum (AL) and steel (ST) versions. One adjustment jaw is required for each gripper jaw.



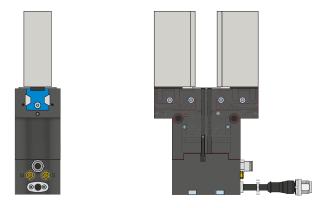
Enable fast change of individual gripper fingers

For each gripper jaw, a fixed part and at least one loose part set is needed, depending on the number of gripper fingers to be changed. Manual locking via the Torx wrench included in the scope of delivery of the fixed part can take place from two sides.

### THE GRIPPING COMPONENTS CAN BE COMBINED!

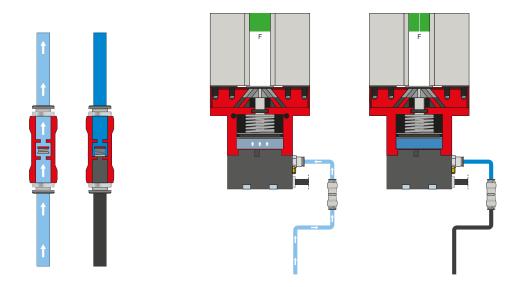
The gripper components listed above can be combined with each other and are compatible with the various series of the 5000 gripper family.

# 



#### **Pneumatic threaded connections**

Available in straight and angled design. Can be chosen freely depending on the space conditions or installation situation.

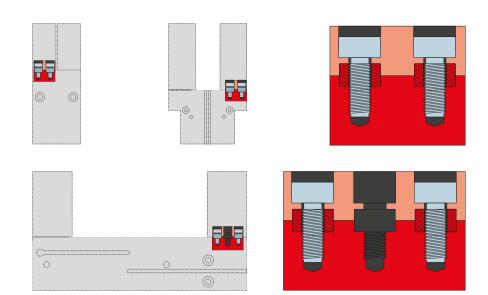


#### Pressure safety valve - DSV

The throttle check valve integrated into the supply air line retains the system pressure in case of EMERGENCY STOP. To ensure the function, the valve must be installed as close to the gripper's air connection as possible. Control voltage and actuator voltage must be maintained for this purpose.

# 2-JAW PARALLEL GRIPPERS SERIES GPP5000IL FUNCTIONAL DESCRIPTION

**CONNECTIONS / OTHER** 



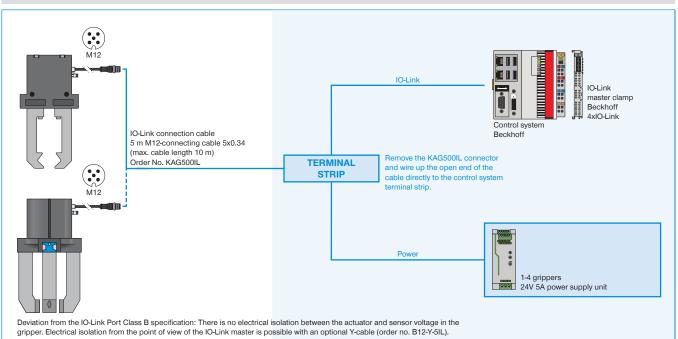
### **Centering sleeves**

For defined position measurement of the gripper fingers

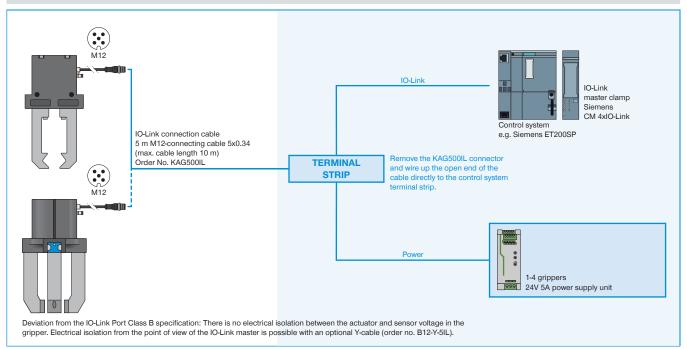
The centering sleeves are inserted into the fits of the gripper jaws to define the position of the gripper fingers. The centering sleeves are comparable to a pin connection.

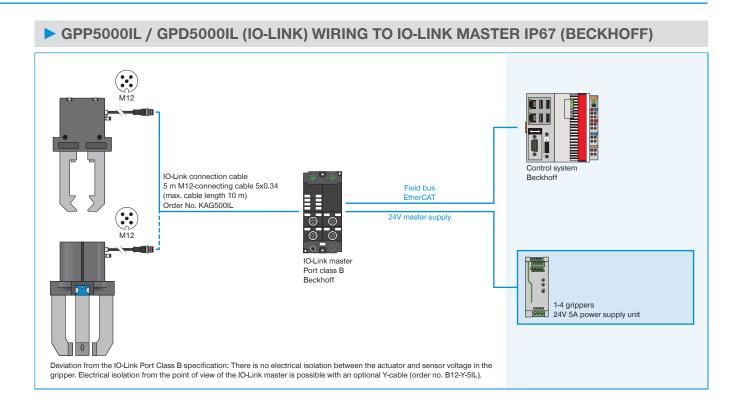
# SECURED CONFIGURATION EXAMPLES GPP5000IL / GPD5000IL SERIES

## GPP5000IL / GPD5000IL (IO-LINK) WIRING TO CONTROL CABINET (BECKHOFF)



## GPP5000IL / GPD5000IL (IO-LINK) WIRING TO CONTROL CABINET (SIEMENS)





## ► GPP5000IL / GPD5000IL (IO-LINK) WIRING TO IO-LINK MASTER IP67 (SIEMENS)

