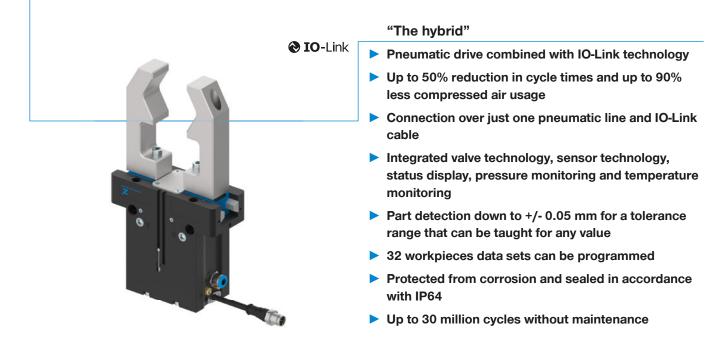
2-JAW PARALLEL GRIPPERS SERIES GPP5000IL

PRODUCT ADVANTAGES

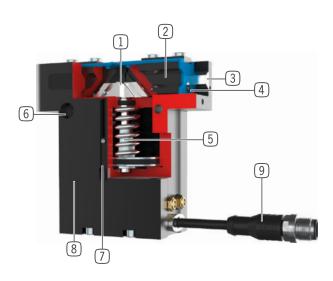


SERIES CHARACTERISTICS

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	

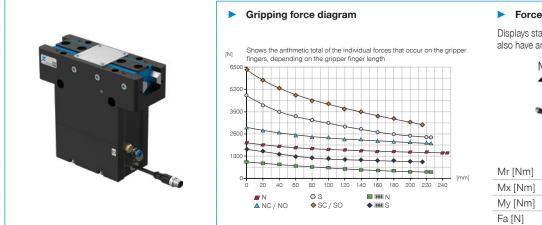
FURTHER INFORMATION IS AVAILABLE ONLINE



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 GPP5016IL

PRODUCT SPECIFICATIONS



Forces and moments

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

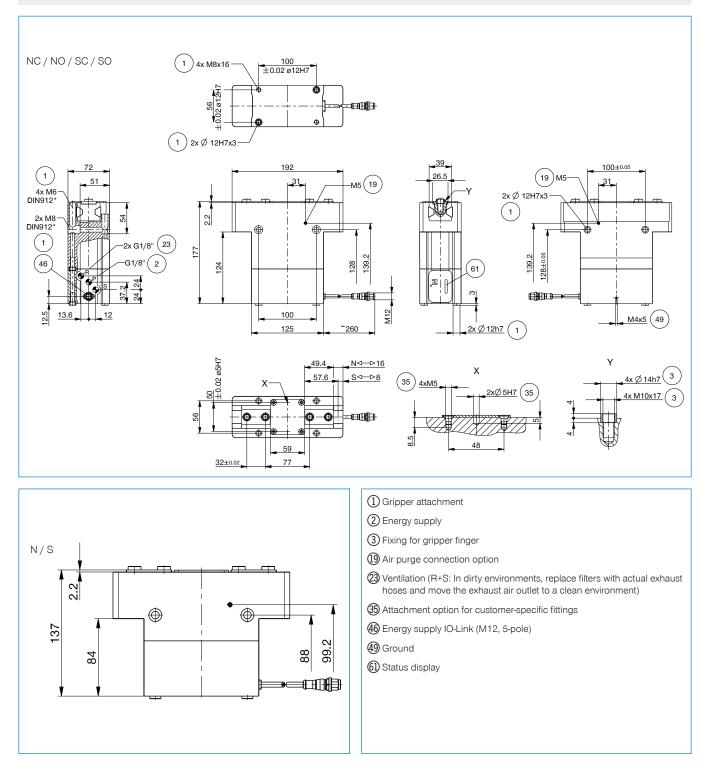


5200

TECHNICAL DATA

	Technical data						
Order no.	GPP5016N-IL-10-A	GPP5016NC-IL-10-A	GPP5016NO-IL-10-A	GPP5016S-IL-10-A	GPP5016SC-IL-10-A	GPP5016SO-IL-10-A	
Control	🚷 IO-Link	🚷 IO-Link	🚷 IO-Link	🚷 IO-Link	🚷 IO-Link	🚷 IO-Link	
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	
Cycle count max. [cycle/min]	230	160	160	230	160	160	
Dead weight of mounted gripper finger 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	
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 ³]	166	332	332	166	332	332	
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]	4.4	5.2	5.1	4.5	5.3	5.2	

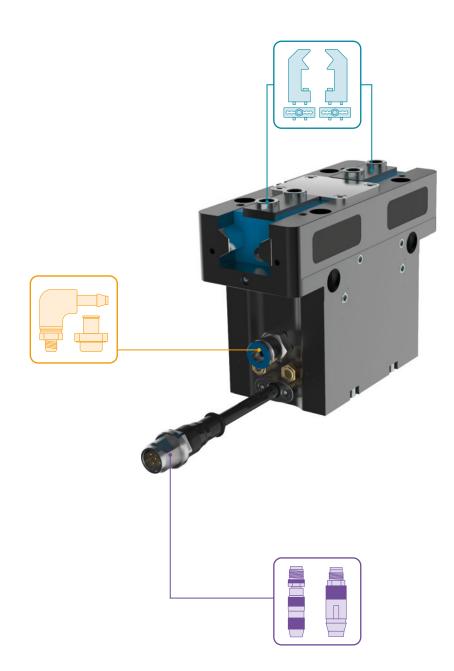
TECHNICAL DRAWINGS



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2-JAW PARALLEL GRIPPERS INSTALLATION SIZE GPP5016IL

ACCESORIES



INCLUDED IN DELIVERY







4 [piece] Centering Disc 019387 2 [piece] Centering Disc 019280

CFILT00011

Filters

2 www.zimmer-group.com > Data, Drawings, 3-D Models, Operating Instructions

RECOMMENDED ACCESSORIES



GRIPPING COMPONENTS







EB5016AL



Steel adjustment jaw





WB5016F Changeable jaw, fix-part

UB5016AL 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

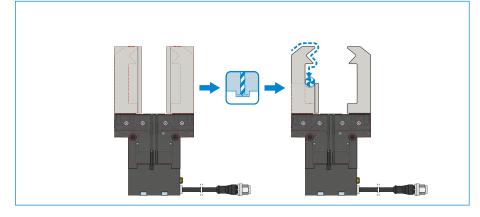




2-JAW PARALLEL GRIPPERS SERIES GPP5000IL FUNCTIONAL DESCRIPTION



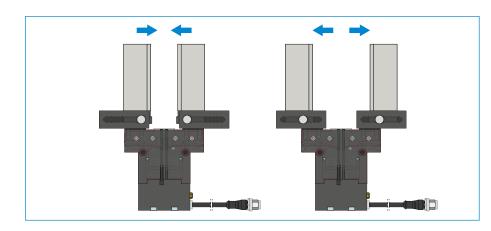
GRIPPING COMPONENTS



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.

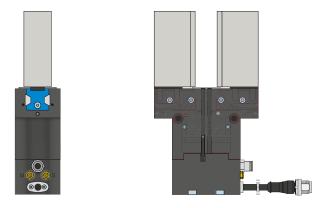


Enable fast change of individual gripper fingers

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.

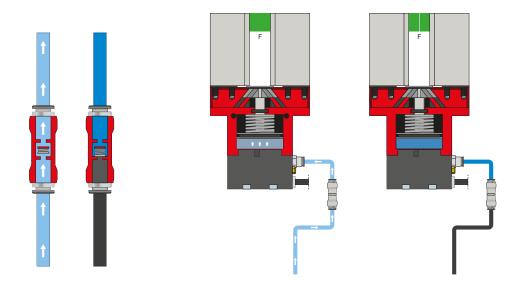
THE GRIPPING COMPONENTS CAN BE COMBINED!

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.

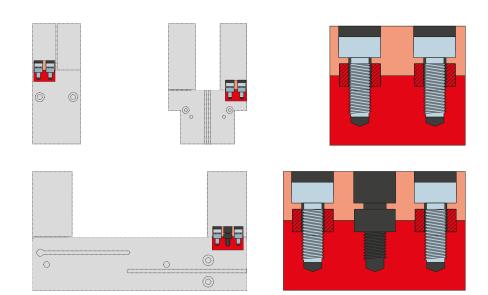


Pressure safety valve - DSV

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



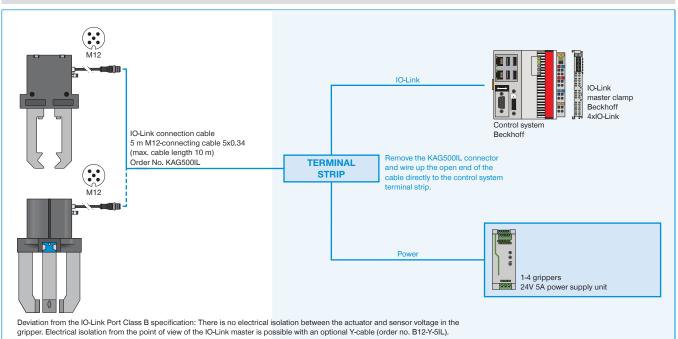
Centering sleeves

For defined position measurement of the gripper fingers

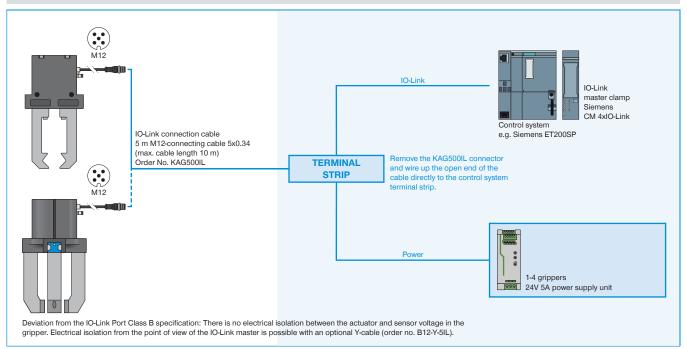
The centering sleeves are inserted into the fits of the gripper jaws to define the position of the gripper fingers. The centering sleeves are comparable to a pin connection.

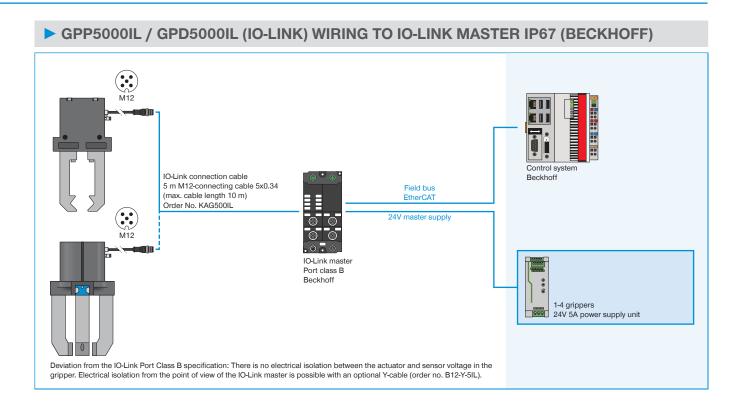
SECURED CONFIGURATION EXAMPLES GPP5000IL / GPD5000IL SERIES

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)

