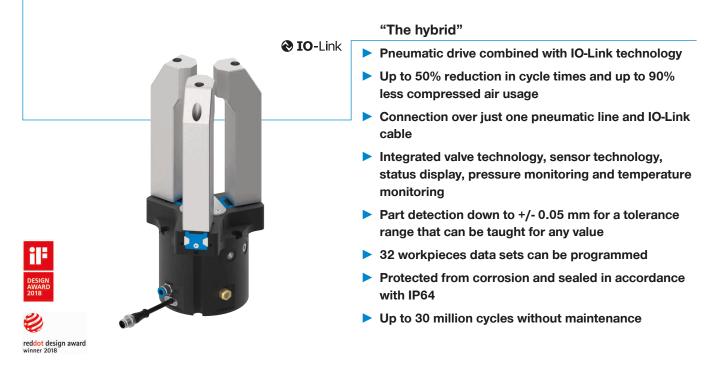
3-JAW CONCENTRIC GRIPPERS SERIES GPD5000IL

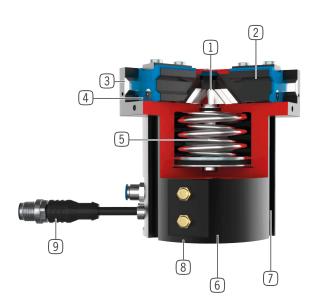
PRODUCT ADVANTAGES



SERIES CHARACTERISTICS

Installation size	Version					
GPD50XXIL	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

- high forces and moments capacity
- Synchronized gripper jaw movement

2 Gripper jaw

Gripper fingers mounted using removable centering sleevesLubricated for life via incorporated lubrication slots

3 Steel Linear Guide

- Steel in steel guideEnables use of extremely long gripper fingers
- -----

4 Dual lip seal

- 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]		
GPD5006IL	3 - 6	740 - 2370	0,75 - 0,85	IP64	
GPD5008IL	4 - 8	1260 - 3910	1,25 - 1,45	IP64	
GPD5010IL	5 - 10	2290 - 7160	2,1 - 2,5	IP64	

FURTHER INFORMATION IS AVAILABLE ONLINE

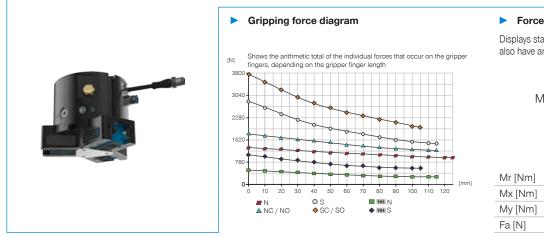
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All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

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3-JAW CONCENTRIC GRIPPERS INSTALLATION SIZE GPD5008IL

PRODUCT SPECIFICATIONS



Forces and moments

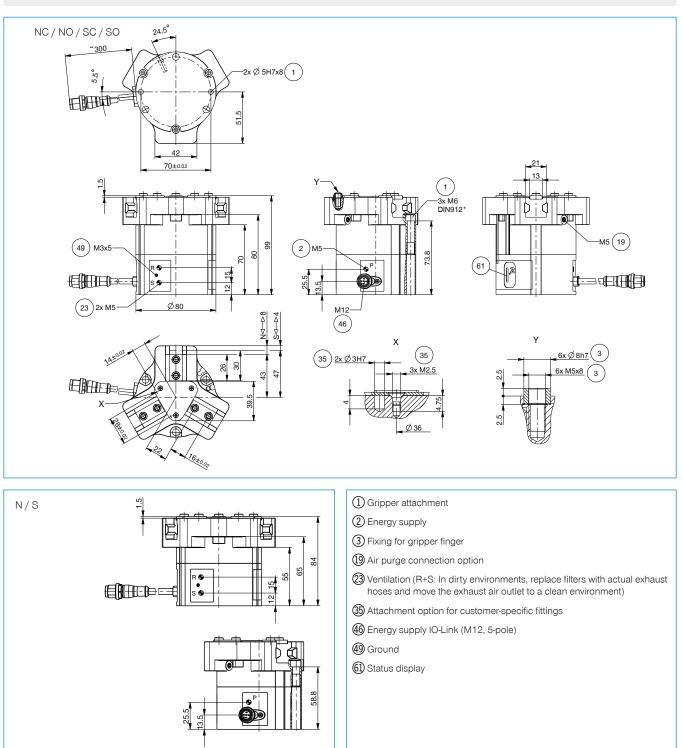
Displays static forces and moments that can also have an effect, besides the gripping force.



TECHNICAL DATA

	Technical data						
Order no.	GPD5008N-IL-10-A	GPD5008NC-IL-10-A	GPD5008NO-IL-10-A	GPD5008S-IL-10-A	GPD5008SC-IL-10-A	GPD5008SO-IL-10-A	
Control	ð IO -Link	🚷 IO-Link	🚷 IO-Link	🚷 IO-Link	🚷 IO-Link	ð 10- Link	
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	
Cycle count max. [cycle/min]	210	160	160	210	160	160	
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	
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]	51	90	90	51	90	90	
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]	0.10	0.10	0.10	0.10	0.10	0.10	
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64	
Weight [kg]	1.25	1.45	1.45	1.25	1.45	1.45	

TECHNICAL DRAWINGS



3-JAW CONCENTRIC GRIPPERS INSTALLATION SIZE GPD5008IL

ACCESORIES



INCLUDED IN DELIVERY



6 [piece] Centering Disc

024231





CFILT0001

RECOMMENDED ACCESSORIES



GRIPPING COMPONENTS







Aluminum adjustment jaw

EB5008AL



EB5008ST Steel adjustment jaw part-set







Changeable jaw, fix-part

UB5008AL Universal jaw aluminium

Universal jaw steel









GVM5 Straight Fittings - Quick Connect Style



Return valve

DSV06



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





CONNECTIONS / OTHER

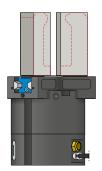
SCM-C-00-00-A Smart Communication

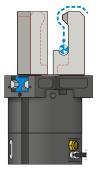


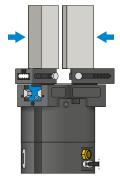
3-JAW CONCENTRIC GRIPPERS SERIES GPD5000IL FUNCTIONAL DESCRIPTION

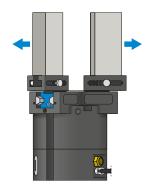


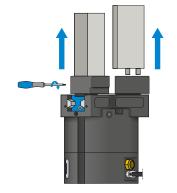
GRIPPING COMPONENTS



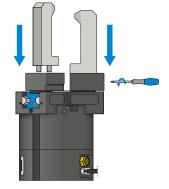








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Universal jaws – UB5000

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.

Interchangeable jaws - WB5000

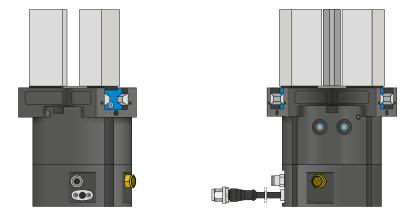
Enable fast change of individual gripper fingers

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!

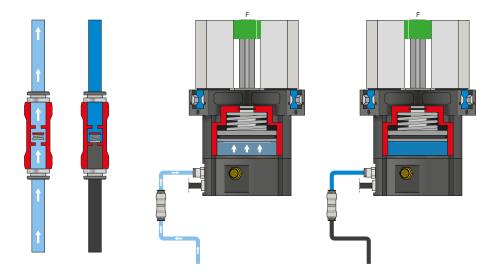
The gripper components listed above can be combined with each other and are compatible with the various series of the 5000 gripper family.

ENERGY SUPPLY



Pneumatic threaded connections

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

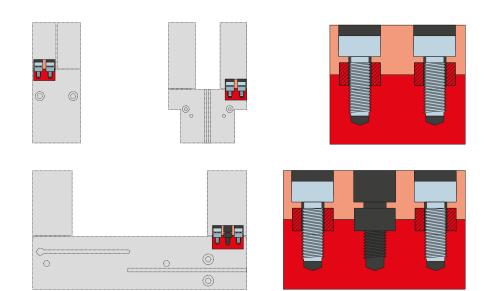


Pressure safety valve - DSV

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.

3-JAW CONCENTRIC GRIPPERS SERIES GPD5000IL FUNCTIONAL DESCRIPTION

CONNECTIONS / OTHER



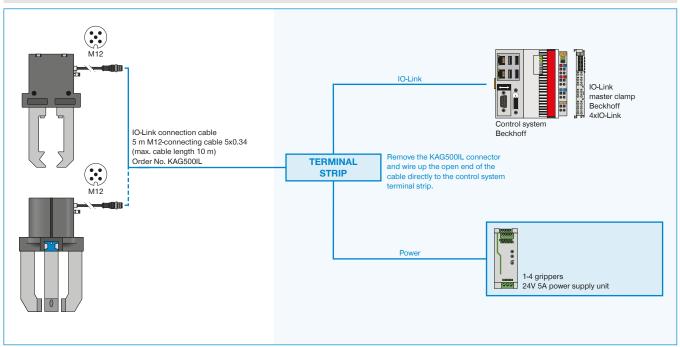
Centering sleeves

For defined position measurement of the gripper fingers

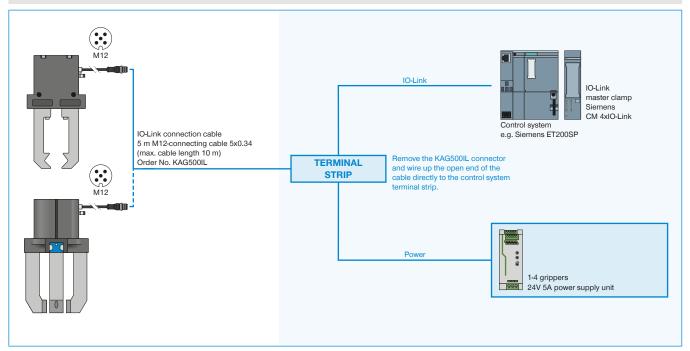
The centering sleeves are inserted into the fits of the gripper jaws to define the position of the gripper fingers. The centering sleeves are comparable to a pin connection.

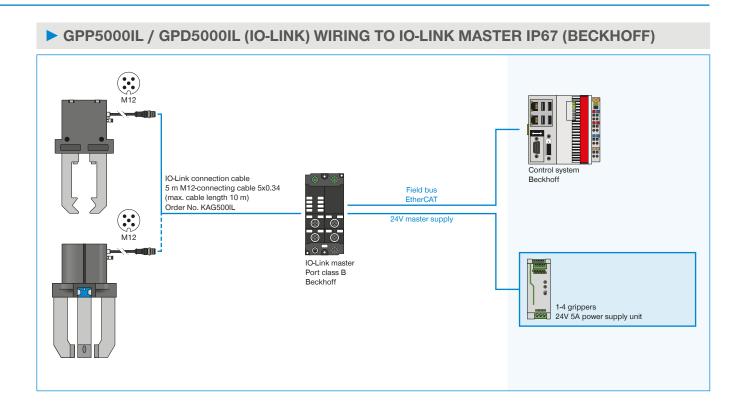
SECURED CONFIGURATION EXAMPLES GPP5000IL / GPD5000IL SERIES

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)

