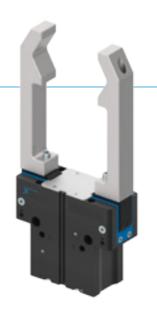
2-JAW ANGULAR GRIPPERS **SERIES GPW5000**

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

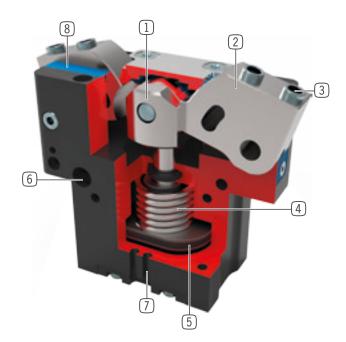
Thanks to a maintenance-free design up to 30 million cycles and the most solid force transmission possible, process assurance is maximized.

SERIES CHARACTERISTICS

Installation size	Base version	Varia	ants
GPW50XX	NC	-00	-20
Spring closing C	•		
30 million maintenance-free cycles (max.)	•		_
+ W Inductive sensor	•		High Temperature Version
+ Magnetic field sensor	•		peratur
Protected against corrosion	•		ligh Tem
Purged air	•		
IP 64 IP64	•		
Temperature-resistant	•		



BENEFITS IN DETAIL



1 Positively driven lever mechanism

- synchronized the movement of the gripper jaws

2 Gripper jaw

- Gripper fingers mounted using removable centering 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

► TECHNICAL DATA

	Stroke per jaw	Gripping force	Weight	IP class
Installation size	[°]	[N]	[kg]	
GPW5008	+15/-2	1450	0.9	IP64
GPW5013	+15/-2	4200	3	IP64
GPW5025	+15/-2	14500	12.1	IP64

► FURTHER INFORMATION IS AVAILABLE ONLINE



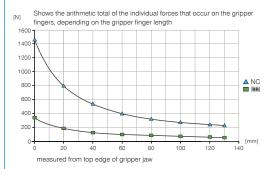
All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

2-JAW 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

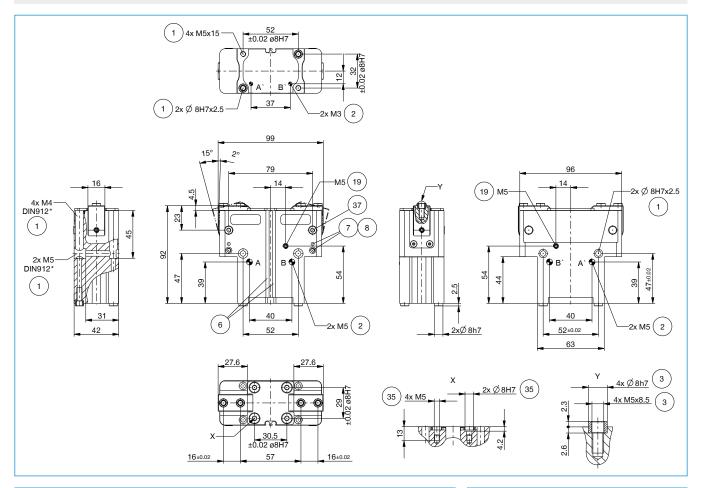
► TECHNICAL DATA

	► Technical data
Order no.	GPW5008NC-00-A
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
Closing time [s]	0.1
Opening time [s]	0.17
Permissible weight per jaw max [kg]	0.7
Length of the gripper fingers max. [mm]	115
Repetition accuracy +/- [mm]	0.01
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Nominal operating pressure [bar]	6
Operating temperature [°C]	-10 +90
Air volume per cycle [cm³]	35
Protection to IEC 60529	IP64
Weight [kg]	0.9

^{*}measured from top edge of gripper jaw

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

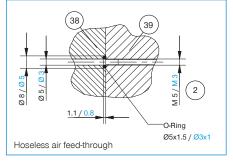
► TECHNICAL DRAWINGS



- 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)
- 19 Air purge connection option
- 35 Mounting posibillity for stroke adjustment

screwe

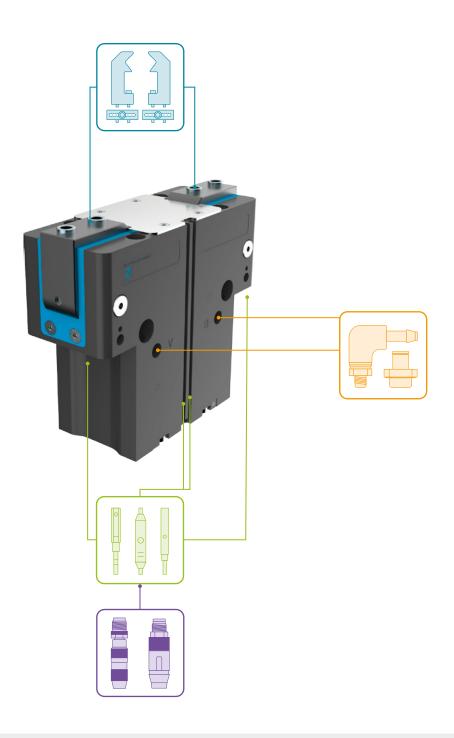
- Mounting posibillity for cam switch
- 38 Adapter
- 39 Gripper
- Air connection (close)
- B Air connection (open)
- Air connection, alternative (close)
- (open)





2-JAW ANGULAR GRIPPERS **INSTALLATION SIZE GPW5008**

ACCESORIES



► INCLUDED IN DELIVERY



6 [piece] Centering Disc

024231

► RECOMMENDED ACCESSORIES



GRIPPING COMPONENTS



UB5008ALUniversal jaw aluminium



UB5008ST Universal jaw steel



EB5008AL Aluminum adjustment jaw



EB5008ST Steel adjustment jaw



LB5008 L-jaw



WB5008L Changeable jaw, loose-part-set



WB5008F Changeable jaw, fix-part



ENERGY SUPPLY



WVM5Angled Fittings - Quick
Connect Style



DSV1-8Pressure safety valve



DSV1-8EPressure safety valve with quick exhaust



SENSORS



ANS0084 Attachment Kit for Inductive Proximity Switch



NJ8-E2S Inductive proximity switch - Connector M8



MFS01-S-KHC-P1-PNP Magnetic field sensor angled, cable 0.3 m - M8 connector



MFS02-S-KHC-P1-PNP Magnetic field sensor straight, cable 0.3 m - M8 connector



MFS01-S-KHC-P2-PNP 2-point sensor angled, cable 0.3 m - M8 connector



MFS02-S-KHC-P2-PNP 2-point sensor straight, cable 0.3 m - M8 connector



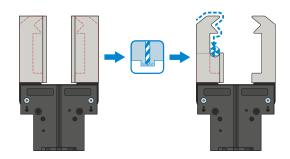
CONNECTIONS / OTHER



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



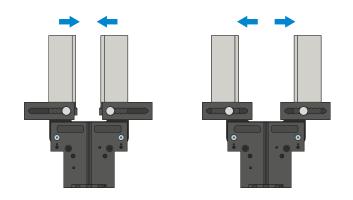
GRIPPING COMPONENTS



Universal jaws - UB5000

Can be used immediately or for individual reprocessing

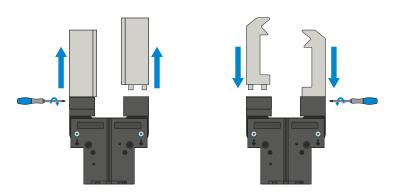
The gripper blanks are available in aluminum (AL) and steel (ST) versions and are installed directly on the gripper using the screws in the scope of delivery. The fits for the centering sleeves are already in place for this purpose. One universal jaw is required for each gripper jaw.



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.



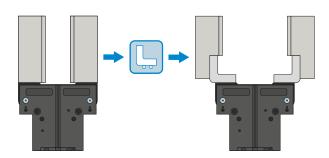
Interchangeable jaws - WB5000

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.



GRIPPING COMPONENTS



L-gripper jaw – LB5000

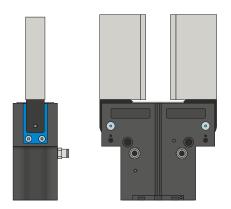
Fast and easy method for adapting and installing the gripper fingers on the sides.

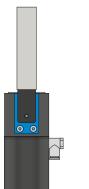


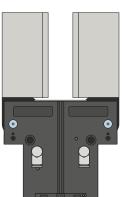
THE GRIPPING COMPONENTS CAN BE COMBINED!

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





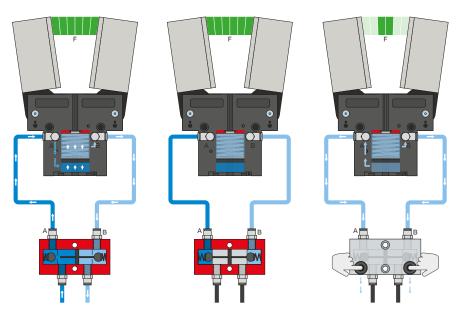




Pneumatic threaded connections

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



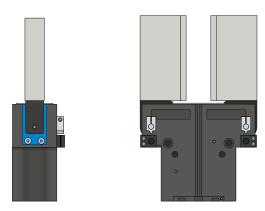


Pressure safety valve - DSV

Ensures safe retention of force and position if the system pressure drops

The integrated double check valve, which can be unlocked, retains the system pressure of the gripper in case of EMERGENCY STOP. To ensure the function, the valve must be installed as close to the gripper's air connection as possible. In variant E, two pushbuttons are installed that allow for controlled bleeding of the gripper.

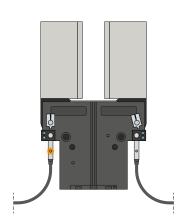


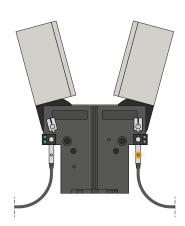


Attachment kit

The attachment kit is installed on the gripper using the fastening material included in the scope of delivery. The attachment kit enables sensing of the gripper positions via inductive proximity switches.

SENSORS





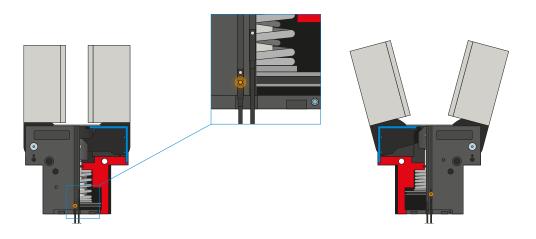
Inductive sensors - NJ

For direct position sensing of the gripper jaws

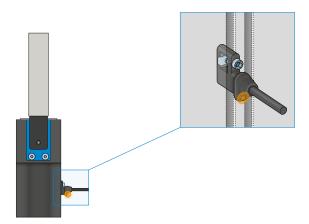
The sensor is guided into the intake as far as it will go and fixed in place using the lateral clamping screw. Tuning to the desired position then takes place by adjusting the cam switch. The sensors are available in versions with 5 m cables with exposed leads and 0,3 m cable with connector, as well as with direct plug orientation.



MFS02



MFS01

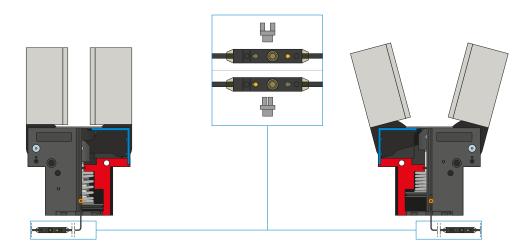


1-point magnetic field sensors - MFS

For non-contact sensing of the piston position

These sensors are installed in the C-groove of the gripper and detect the magnet attached to the piston of the gripper. To ensure use in a wide variety of space conditions, the sensors are available in two variants. While the horizontal MFS02, with straight cable outlet, disappears into the C-groove of the gripper almost completely, the vertical MFS01 is taller, but has a cable outlet that is offset at an angle of 90°. The variants are available in versions with 5 m cables with exposed leads and 0,3 m cable with connector.





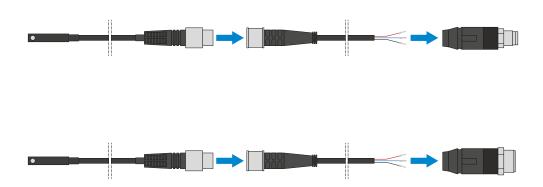
2-point magnetic field sensors - MFS

With two freely programmable switching points

Using the programming unit integrated in the cable, two switch points can be freely defined for this sensor. To do so, the sensor is clamped in the C-groove, the gripper approaches position one and the position is taught in using the teach button. Afterwards, the second position is approached with the gripper and programmed. To ensure use in a wide variety of space conditions, the sensors are available in two variants. While the horizontal MFS02, with straight cable outlet, disappears into the C-groove of the gripper almost completely, the vertical MFS01 is taller, but has a cable outlet that is offset at an angle of 90°. The sensors are available in versions with 5 m cables with exposed leads and 0,3 m cable with connector.



CONNECTIONS / OTHER



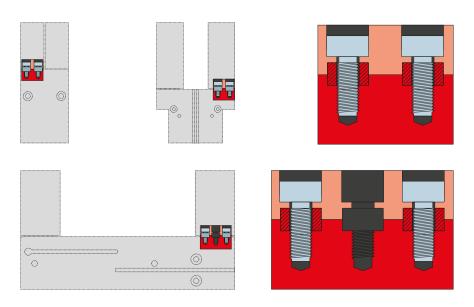
Plug-in connectors

For extending and fabricating the connection lines for the sensors

Cables with a length of 5 m with exposed leads are available. Depending on the specific needs, the cables can be shortened or fabricated with connectors in sizes M8 and M12.



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.