



Hand in hand for tomorrow



## Product data sheet

Universal gripper PGN-plus 50

# PGN-plus

Universal gripper

**Reliable. Robust. Flexible.**

## Universal gripper PGN-plus

Universal 2-finger parallel gripper with a high gripping force and high maximum moments due to the use of a multi-tooth guidance

### Field of application

Optimal standard solution for many fields of application.  
For universal use in clean to slightly dirty environments.  
Special versions available for dirty environments.

### Advantages – Your benefits

**Robust multi-tooth guidance** for precise handling

**High maximum moments possible** suitable for using long gripper fingers

**Drive concept oval piston** for maximum gripping forces

**Mounting from two sides in three screw directions** for universal and flexible gripper assembly

**Air supply via hose-free direct connection or screw connections** for universal and flexible gripper assembly

**Comprehensive sensor accessory program** for versatile querying possibilities and stroke position monitoring

**Compact dimensions** for minimal interfering contours in handling

**Manifold options** for special optimization for your specific case of application (dustproof, high-temperature, corrosion-protected, etc.)



Sizes  
Quantity: 11



Weight  
0.08 .. 39.5 kg



Gripping force  
123 .. 21150 N



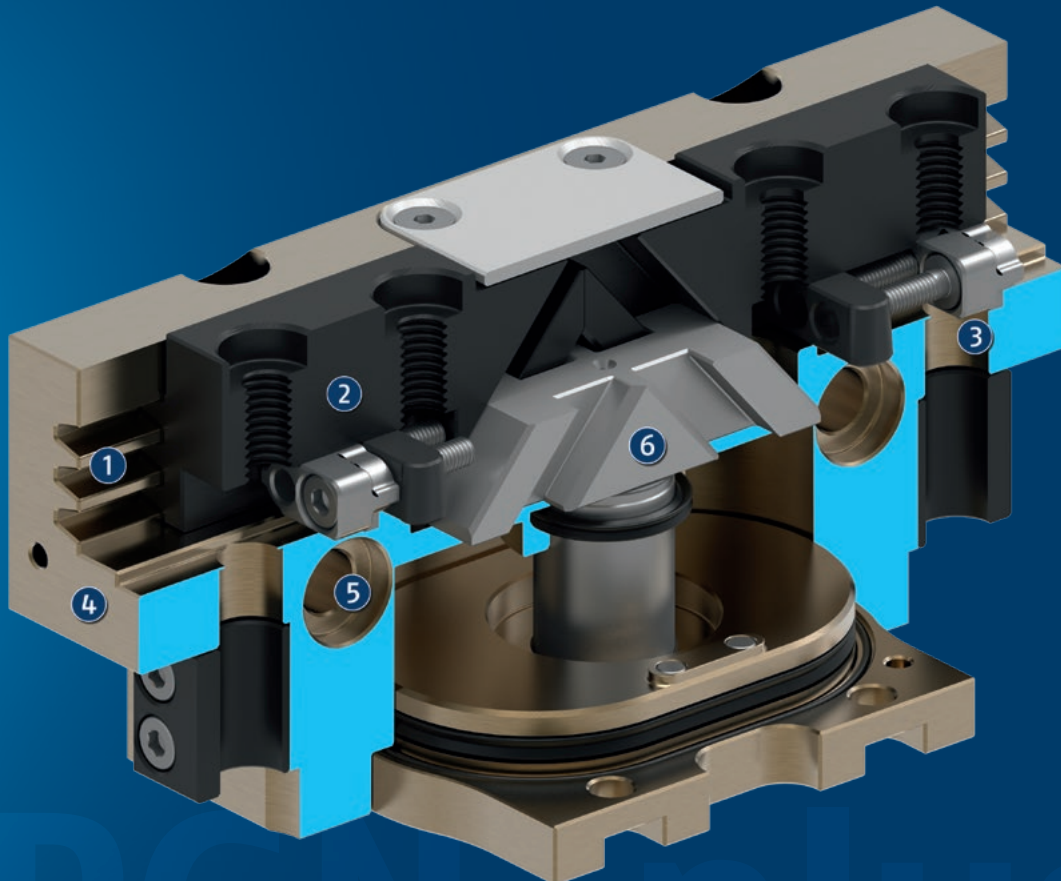
Stroke per jaw  
2 .. 45 mm



Workpiece weight  
0.62 .. 80.5 kg

## Functional description

The oval piston is moved up or down by compressed air. The angled active surfaces of the wedge-hook produce a synchronized, parallel jaw motion.



- ① **Multi-tooth guidance**  
highly loadable, nearly backlash-free base jaw guidance for long finger lengths
- ② **Base jaw**  
for the connection of workpiece-specific gripper fingers
- ③ **Sensor system**  
Brackets for proximity switches and adjustable control cams in the housing
- ④ **Housing**  
is weight-optimized due to the use of high-strength aluminum alloy
- ⑤ **Centering and mounting possibilities**  
for universal assembly of the gripper
- ⑥ **Wedge-hook design**  
for high force transmission and centric gripping

## General notes about the series

**Operating principle:** Wedge gear with surface power transmission

**Housing material:** Aluminum

**Base jaw material:** Steel

**Actuation:** pneumatic, with filtered compressed air as per ISO 8573-1:2010 [7:4:4].

**Warranty:** 36 months

**Service life characteristics:** on request

**Scope of delivery:** Gripper in the ordered variant, accessory kit (centering sleeves, O-rings for direct connection/detailed contents see operating manual) and safety information. Product-specific instructions can be downloaded at [schunk.com/downloads-manuals](https://schunk.com/downloads-manuals).

**Gripping force maintenance:** possible by using the version with mechanical gripping force maintenance or pressure maintenance valve SDV-P

**Gripping force:** is the arithmetic sum of the individual force applied to each jaw at distance P (see illustration).

**Finger length:** is measured from the reference surface as the distance P in direction to the main axis.

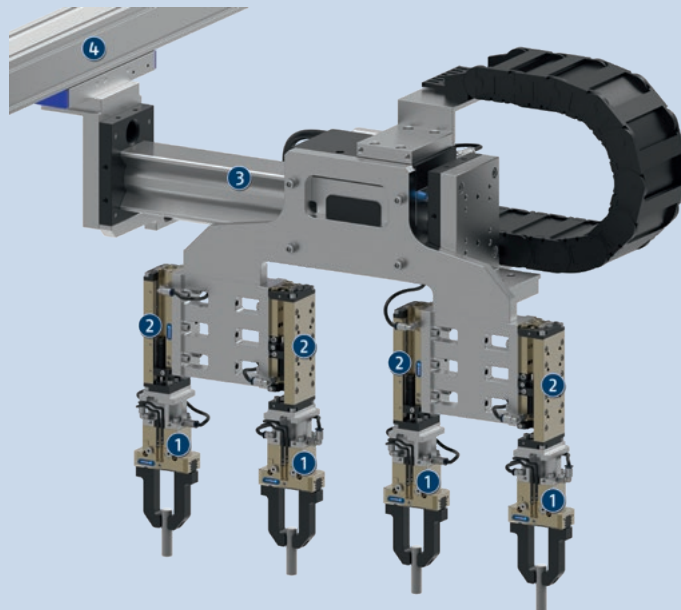
The maximum permissible finger length applies until the nominal operating pressure is achieved. With higher pressures, the finger length must be reduced proportionally to the nominal operating pressure.

**Repeat accuracy:** is defined as a distribution of the end Position for 100 consecutive strokes.

**Workpiece weight:** is calculated for force-fit gripping with a coefficient of static friction of 0.1 and a safety factor of 2 against workpiece slippage at acceleration due to gravity g. For form-fit or capture gripping, there are significantly higher permissible workpiece weights.

**Closing and opening times:** are movement times of the base jaws only, without application-specific gripper fingers. Valve switching times, hose fill times, or PLC reaction times are not included, and are to be considered when cycle times are calculated.

**Cleanroom class ISO 14644-1:1999:** 5



## Application example

Handling gantry with multiple grippers for simultaneous removal of several workpieces

① 2-finger parallel gripper PGN-plus

② Linear module CLM

③ Universal linear module LDN

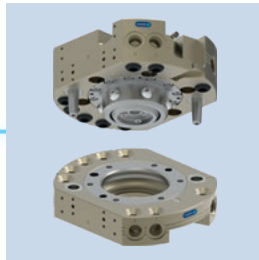
④ Universal linear module Beta

## SCHUNK offers more ...

The following components make the product even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



Linear module



Tool changer



Universal swivel unit



Compensation unit



Jaw quick-change system



Universal intermediate jaw



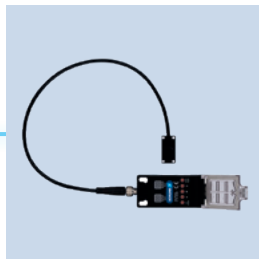
Pressure maintenance valve



Manual change system



Finger blank



Flexible position sensor



Magnetic switches



Inductive proximity switch

① For more information on these products can be found on the following product pages or at [schunk.com](https://www.schunk.com).

## Options and special information

**Gripping force maintenance version AS/IS:** The mechanical gripping force maintenance version ensures minimum gripping force even in the event of a pressure drop. In the AS/IS version this acts as a closing force, in the IS version as an opening force.

**Anti-corrosion version K:** for use in corrosion-inducing atmospheres

**High-temperature version VHT:** for use in hot environments

**Power booster version KVZ:** if higher gripping forces are required

**Precision version P:** for the highest accuracy

**ATEX version EX:** for explosive environments

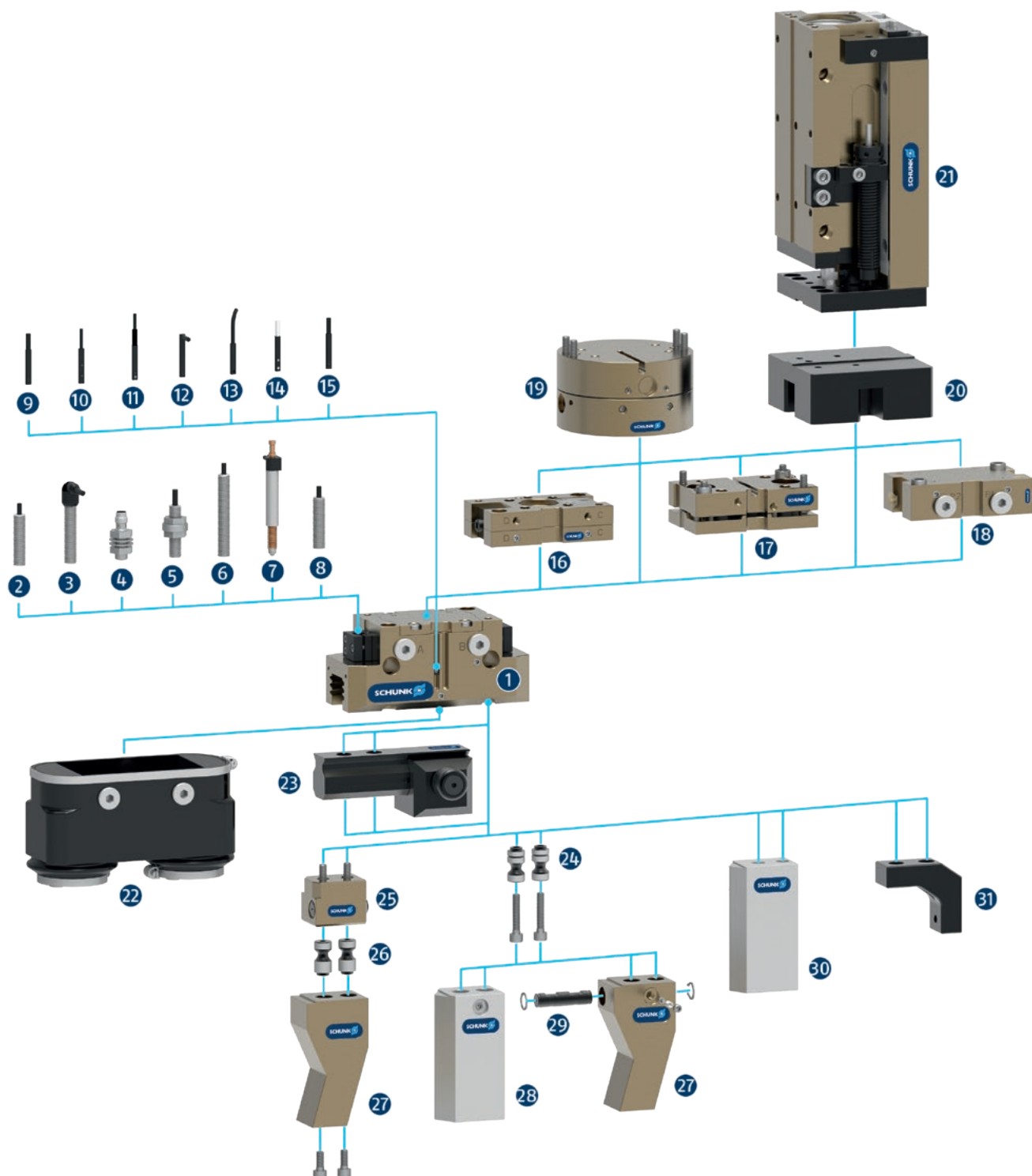
**Dustproof version SD:** absolutely dustproof, increased degree of protection against ingress of materials.

**Additional versions:** Various options can be combined with each other.

**Food-grade lubrication:** The product contains food-compliant lubricants as standard. The requirements of EN 1672-2:2020 are not fully met. The relevant NSF certificates are available at <https://info.nsf.org/USDA/Listings.asp> using the lubricant information in the operating manual.

## SCHUNK gripper PGN-plus

### Overview Accessories





- 1 **PGN-plus**  
Universal 2-finger parallel gripper with a high gripping force and high maximum moments due to the use of a multi-tooth guidance

## Sensor system

- 2 **IN ...**  
Inductive proximity switch with molded cable and straight cable outlet
- 3 **IN ...-SA**  
Inductive proximity switch with molded cable and lateral cable outlet
- 4 **IN-C 80**  
Inductive proximity switch, directly pluggable
- 5 **FPS**  
Flexible position sensor for monitoring up to five different, freely selectable positions
- 6 **APS-Z80**  
Inductive position sensor for precise position detection of the gripper jaws with analog output
- 7 **APS-M15**  
Mechanical measuring system for precise position detection of the gripper jaw with analog output
- 8 **RMS 80**  
Reed switch in round version
- 9 **MMS 22**  
Magnetic switch with straight cable outlet for monitoring a position  
  
**MMS 22-PI1**  
Magnetic switch with straight cable outlet for monitoring a freely programmable position
- 10 **MMS 22-PI2**  
Magnetic switch with straight cable outlet for monitoring two freely programmable positions
- 11 **MMS 22-PI1-HD**  
MMS 22-PI1 in robust design  
  
**MMS 22-PI2-HD**  
MMS 22-PI2 in robust design
- 12 **MMS 22-SA**  
Magnetic switch with lateral cable outlet for monitoring a position  
  
**MMS 22-PI1-SA**  
Magnetic switch with side cable outlet for monitoring a freely programmable position
- 13 **MMS-P**  
Magnetic switch with straight cable outlet for monitoring two freely programmable positions
- 14 **MMS 22-A**  
Analog magnetic switch with straight cable outlet for measuring the gripper jaw position with analog output and teach function

- 15 **RMS 22**  
Reed switch for direct assembly in the C-slot

## Complementary products

- 16 **CWS**  
Manual change system with integrated air feed-through for simple exchange of the handling components
- 17 **TCU**  
Tolerance compensation unit for compensating small tolerances in the plane
- 18 **SDV-P-E-P**  
Pressure maintenance valve for temporary force and position maintenance
- 19 **AGE**  
Compensation unit for compensation of large tolerances along the X and Y axes
- 20 **ASG**  
Adapter plate for combining various automation components in the modular system
- 21 **CLM**  
Linear module with pneumatic drive and scope-free pre-loaded junction rollers
- 22 **HUE**  
Sleeve for protection against dirt

## Finger Accessories

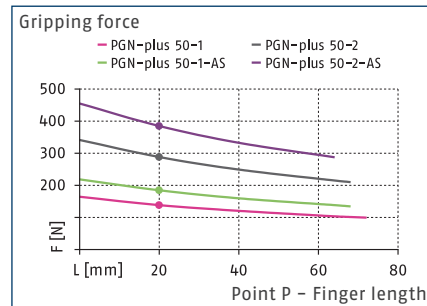
- 23 **UZB**  
The universal intermediate jaw allows fast tool-free and reliable plugging and shifting of top jaws at the gripper.
- 24 **BSWS-AR**  
Adapter pin of the jaw quick-change system for fast, manual change of top jaws
- 25 **BSWS-B**  
Locking mechanism of the jaw quick-change system for fast, manual exchange of top jaws
- 26 **BSWS-A**  
Adapter pin of the jaw quick-change system for adaptation to the customized finger
- 27 **Customized fingers**
- 28 **BSWS-ABR**  
Finger blank made of aluminum with interface to the jaw quick-change system  
  
**BSWS-SBR**  
Finger blank made of steel with interface to the jaw quick-change system
- 29 **BSWS-UR**  
Locking mechanism for the integration of the jaw quick-change system into customized fingers
- 30 **ABR/SBR**  
Finger blanks made of steel or aluminum with standardized screw connection diagram
- 31 **ZBA**  
Intermediate jaws for reorientation of the mounting surface

# PGN-plus 50

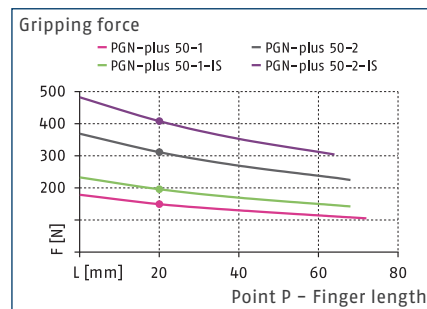
Universal gripper



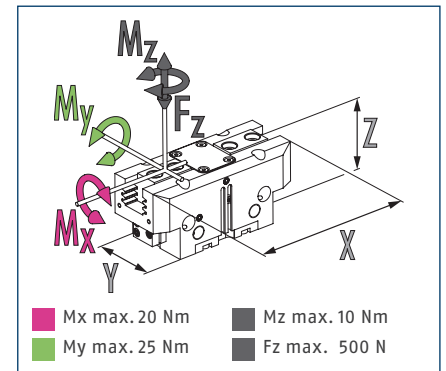
## Gripping force O.D. gripping



## Gripping force I.D. gripping



## Dimensions and maximum loads



① The indicated moments and forces are static values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

## Technical data

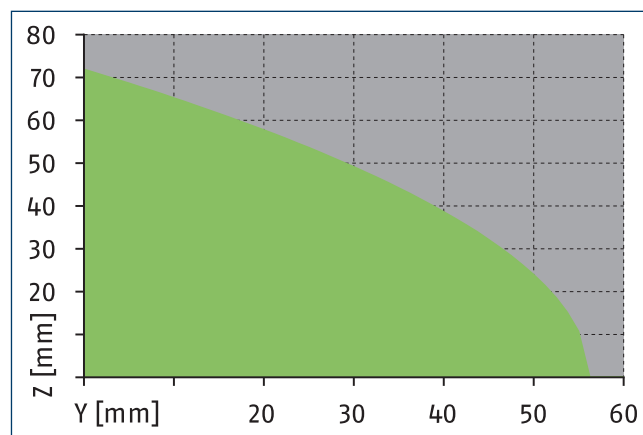
| Description                              |       | PGN-plus 50-1 | PGN-plus 50-2 | PGN-plus 50-1-AS | PGN-plus 50-2-AS | PGN-plus 50-1-IS | PGN-plus 50-2-IS |
|------------------------------------------|-------|---------------|---------------|------------------|------------------|------------------|------------------|
| ID                                       |       | 0371099       | 0371149       | 0371399          | 0371449          | 0371459          | 0371469          |
| Stroke per jaw                           | [mm]  | 4             | 2             | 4                | 2                | 4                | 2                |
| Closing/opening force                    | [N]   | 135/145       | 285/310       | 180/-            | 380/-            | -/190            | -/405            |
| Min. spring force                        | [N]   |               |               | 45               | 95               | 45               | 95               |
| Weight                                   | [kg]  | 0.17          | 0.17          | 0.21             | 0.21             | 0.21             | 0.21             |
| Recommended workpiece weight             | [kg]  | 0.7           | 1.45          | 0.7              | 1.45             | 0.7              | 1.45             |
| Cylinder volume per double stroke        | [cm³] | 5             | 5             | 8.5              | 8.5              | 11               | 11               |
| Min./nom./max. operating pressure        | [bar] | 2.5/6/8       | 2.5/6/8       | 4/6/6.5          | 4/6/6.5          | 4/6/6.5          | 4/6/6.5          |
| Min./max. air purge pressure             | [bar] | 0.5/1         | 0.5/1         | 0.5/1            | 0.5/1            | 0.5/1            | 0.5/1            |
| Closing/opening time                     | [s]   | 0.02/0.02     | 0.02/0.02     | 0.02/0.03        | 0.02/0.03        | 0.03/0.02        | 0.03/0.02        |
| Closing/opening time with spring         | [s]   |               |               | 0.05             | 0.05             | 0.05             | 0.05             |
| Max. permissible finger length           | [mm]  | 72            | 68            | 68               | 64               | 68               | 64               |
| Max. permissible weight per finger       | [kg]  | 0.18          | 0.18          | 0.18             | 0.18             | 0.18             | 0.18             |
| IP protection class                      |       | 40            | 40            | 40               | 40               | 40               | 40               |
| Min./max. ambient temperature            | [°C]  | 5/90          | 5/90          | 5/90             | 5/90             | 5/90             | 5/90             |
| Repeat accuracy                          | [mm]  | 0.01          | 0.01          | 0.01             | 0.01             | 0.01             | 0.01             |
| Dimensions X x Y x Z                     | [mm]  | 65 x 30 x 31  | 65 x 30 x 31  | 65 x 30 x 47     | 65 x 30 x 47     | 65 x 30 x 47     | 65 x 30 x 47     |
| <b>Options and their characteristics</b> |       |               |               |                  |                  |                  |                  |
| Dustproof version                        |       | 37371099      | 37371149      | 37371399         | 37371449         | 37371459         | 37371469         |
| IP protection class                      |       | 64            | 64            | 64               | 64               | 64               | 64               |
| Weight                                   | [kg]  | 0.2           | 0.2           | 0.24             | 0.24             | 0.24             | 0.24             |
| Corrosion-protected version              |       | 38371099      | 38371149      | 38371399         | 38371449         | 38371459         | 38371469         |
| High-temperature version                 |       | 39371099      | 39371149      | 39371399         | 39371449         | 39371459         | 39371469         |
| Min./max. ambient temperature            | [°C]  | 5/130         | 5/130         | 5/130            | 5/130            | 5/130            | 5/130            |
| Power booster version                    |       | 0372099       | 0372149       | 0372399          |                  | 0372459          |                  |
| Closing/opening force                    | [N]   | 224/231       | 467/503       | 261/-            |                  | -/268            |                  |
| Weight                                   | [kg]  | 0.21          | 0.21          | 0.26             |                  | 0.26             |                  |
| Maximum pressure                         | [bar] | 6             | 6             | 6                |                  | 6                |                  |
| Max. permissible finger length           | [mm]  | 64            | 50            | 50               |                  | 50               |                  |
| Precision version                        |       | 0371121       | 0371171       | 0371421          | 0371436          |                  |                  |

① It may take a few 100 gripping cycles until the full gripping force (as indicated in the data table) will be available.



[illegible]

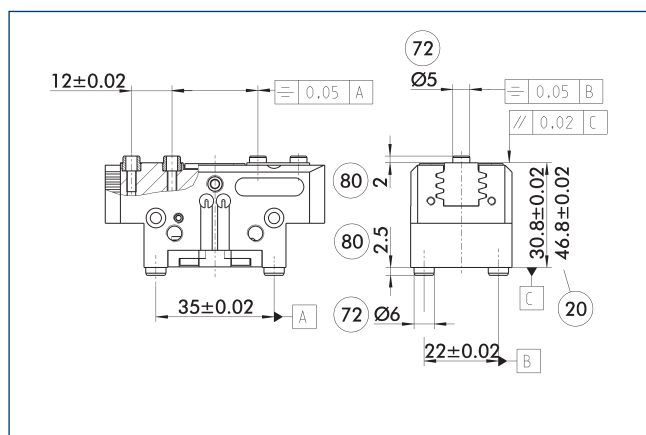
A schematic diagram of a mechanical assembly. The assembly consists of a base block with two circular features, a middle block with two wavy lines, and a top block with a grid pattern. A vertical dimension line labeled  $z$  indicates the height of the top block. A horizontal dimension line labeled  $y$  indicates the width of the top block. The top block is connected to a vertical shaft that passes through the middle block.



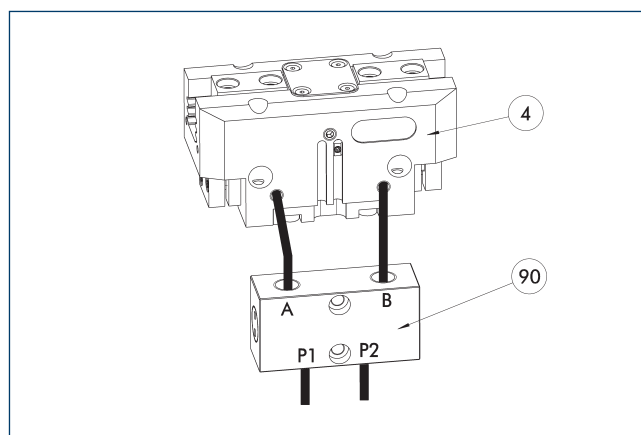
The curve applies for stroke version 1. For other versions, the curve must be parallelly off-set to the max. permissible finger length.



### SDV-P pressure maintenance valve



- The indicated tolerances just refer to the variants of precision versions shown in the chart of technical specifications. All other variants of precision versions are available on request.



- The SDV-P pressure maintenance valve ensures in emergency STOP situations that the pressure in the piston chamber of pneumatic gripper, swivel, linear, and quick-change modules is temporarily maintained.

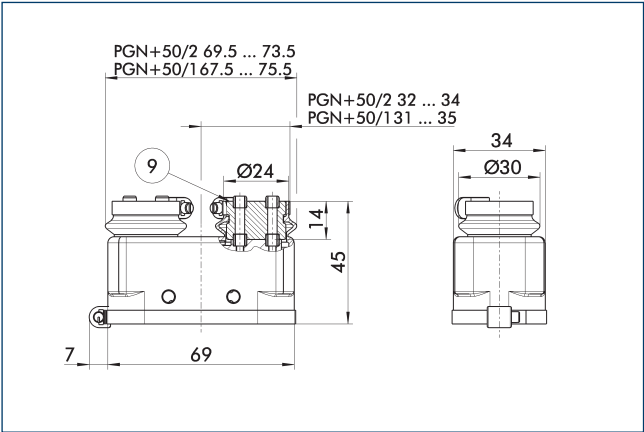
| Description                                     | ID      | Recommended hose diameter |
|-------------------------------------------------|---------|---------------------------|
|                                                 |         | [mm]                      |
| Pressure maintenance valve                      |         |                           |
| SDV-P 04                                        | 0403130 | 6                         |
| Pressure maintenance valve with air bleed screw |         |                           |
| SDV-P 04-E                                      | 0300120 | 6                         |

- ① In order to achieve the specified closing and opening time for each gripper variant, the recommended hose diameter must be used. The direct allocation of the respective variant of the gripper for the respective SDV-P can be found at [schunk.com](http://schunk.com).

# PGN-plus 50

Universal gripper

## Protective cover HUE PGN-plus 50



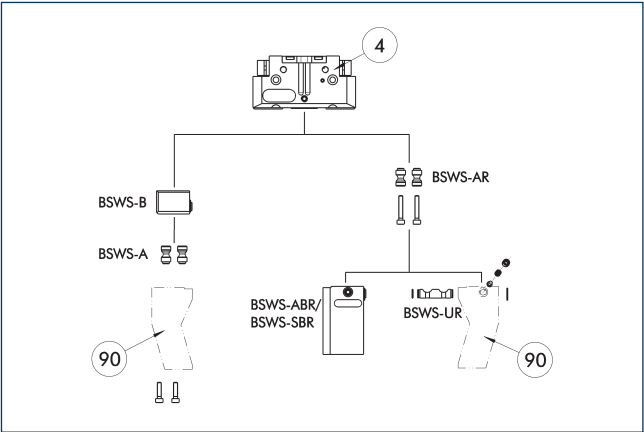
⑨ For mounting screw connection diagram, see basic version

The HUE protective cover fully protects the gripper against external influences. The cover is suitable for applications of up to IP65 if an additional sealing of the cover bottom is provided. For detailed information, please see the HUE series. The connection diagram shifts by the height of the intermediate jaw.

| Description      | ID      | IP protection class |
|------------------|---------|---------------------|
| Protection cover |         |                     |
| HUE PGN-plus 50  | 0371479 | 65                  |

① The HUE protective cover is not suitable for use on grippers with gripping force maintenance. An inductive monitoring of the gripper in connection with the HUE protective cover is not possible. SCHUNK recommends the use of magnetic sensors that are approved for the respective gripper variant.

## BSWS jaw quick-change jaw systems



④ Grippers

⑨0 Customized gripper fingers

There are various jaw quick-change systems available for the gripper. For detailed information, please refer to the corresponding product.

| Description                               | ID      | Scope of delivery |
|-------------------------------------------|---------|-------------------|
| Jaw quick-change system adapter pin       |         |                   |
| BSWS-A 50                                 | 0303020 | 2                 |
| BSWS-AR 50                                | 0300091 | 2                 |
| Quick-change jaw system base              |         |                   |
| BSWS-B 50                                 | 0303021 | 1                 |
| Jaw quick-change system finger blank      |         |                   |
| BSWS-ABR-PGZN-plus 50                     | 0300071 | 1                 |
| BSWS-SBR-PGZN-plus 50                     | 0300081 | 1                 |
| Jaw quick-change system locking mechanism |         |                   |
| BSWS-UR 50                                | 0302990 | 1                 |

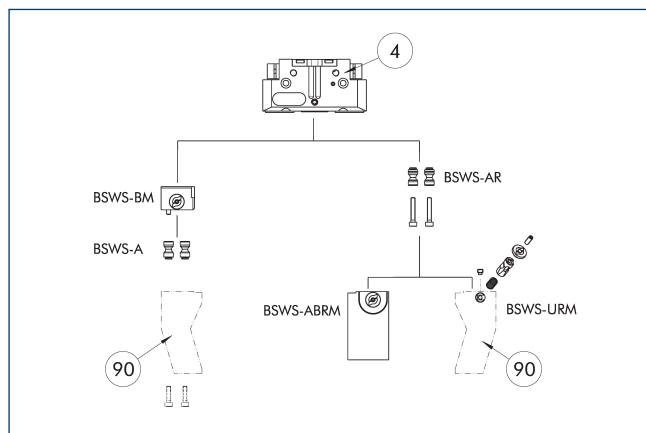
① If the operating pressure is higher than 6 bar, suitability for use beyond the application limits must be checked. Only systems that are listed in the table, can be used.

### Fields of application

| Series   | Size                                       | Variant            | Suitability |
|----------|--------------------------------------------|--------------------|-------------|
| PGN-plus | 50                                         | -1 (6 bar)         | ■■■■■       |
| PGN-plus | 50                                         | -1-AS/1-IS (6 bar) | ■■■■■       |
| PGN-plus | 50                                         | -2 (6 bar)         | ■■■■■       |
| PGN-plus | 50                                         | -2-AS/2-IS (6 bar) | ■■■■■       |
| PGN-plus | 50                                         | -...-KVZ (6 bar)   | ■■■□□       |
| Legend   |                                            |                    |             |
| ■■■■■    | Can be combined without restrictions       |                    |             |
| ■■■□□    | Use with restrictions (see loading limits) |                    |             |
| □□□□□    | cannot be combined                         |                    |             |

The load limits for describing the application limits can be found in the catalog chapter of the corresponding accessories.

## Jaw quick-change system BSWs-M



④ Grippers

⑨⑩ Customized gripper fingers

There are various jaw quick-change systems available for the gripper. For detailed information, please refer to the corresponding product.

| Description                               | ID      | Scope of delivery |
|-------------------------------------------|---------|-------------------|
| Jaw quick-change system adapter pin       |         |                   |
| BSWS-A 50                                 | 0303020 | 2                 |
| BSWS-AR 50                                | 0300091 | 2                 |
| Quick-change jaw system base              |         |                   |
| BSWS-BM 50                                | 1313899 | 1                 |
| Jaw quick-change system finger blank      |         |                   |
| BSWS-ABRM-PGZN-plus 50                    | 1420850 | 1                 |
| Jaw quick-change system locking mechanism |         |                   |
| BSWS-URM 50                               | 1380614 | 1                 |

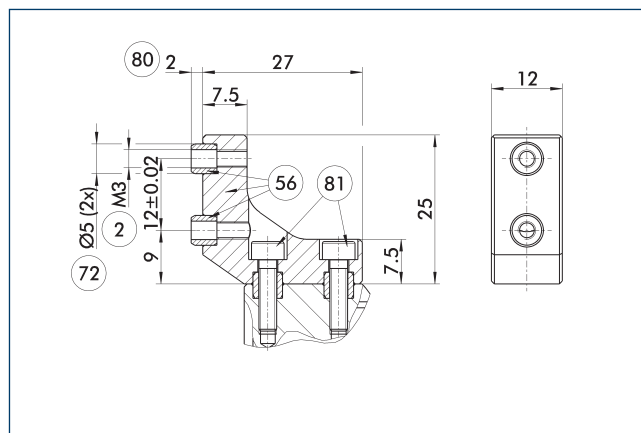
① If the operating pressure is higher than 6 bar, suitability for use beyond the application limits must be checked. Only systems that are listed in the table, can be used.

## Fields of application

| Series   | Size                                       | Variant            | Suitability |
|----------|--------------------------------------------|--------------------|-------------|
| PGN-plus | 50                                         | -1 (6 bar)         | ■■■■■       |
| PGN-plus | 50                                         | -1-AS/1-IS (6 bar) | ■■■■■       |
| PGN-plus | 50                                         | -2 (6 bar)         | ■■■■■       |
| PGN-plus | 50                                         | -2-AS/2-IS (6 bar) | ■■■■■       |
| PGN-plus | 50                                         | ...-KVZ (6 bar)    | ■■□□        |
| Legend   |                                            |                    |             |
| ■■■■■    | Can be combined without restrictions       |                    |             |
| ■■□□     | Use with restrictions (see loading limits) |                    |             |
| □□□□     | cannot be combined                         |                    |             |

The load limits for describing the application limits can be found in the catalog chapter of the corresponding accessories.

## ZBA-L-plus 50 intermediate jaws



② Finger connection

⑤⑥ Included in the scope of delivery

⑦② Fit for centering sleeves

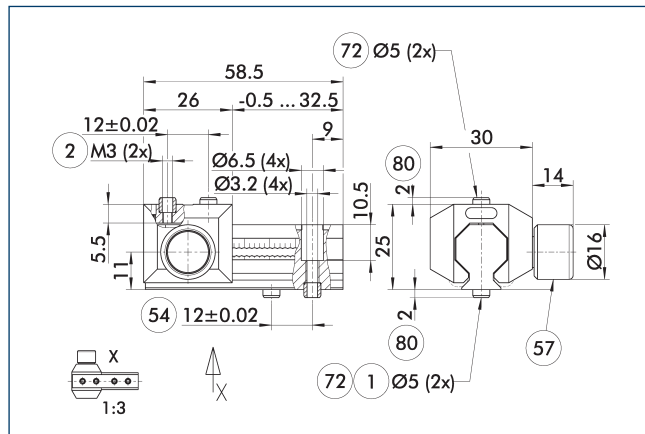
⑧⑩ Depth of the centering sleeve hole in the counter part

⑧① Not included in the scope of delivery

The optional ZBA-L-plus intermediate jaws allow the screw connection diagram of the top jaws to be rotated by 90°. This makes it easier to design and produce top jaws (particularly for long versions) because no deep through-bores are required.

| Description      | ID      | Material | Finger interface | Scope of delivery |
|------------------|---------|----------|------------------|-------------------|
| Intermediate jaw |         |          |                  |                   |
| ZBA-L-plus 50    | 0311712 | Aluminum | PGN-plus 50      | 1                 |

### UZZ 50 universal intermediate jaw



- ① Gripper connection
- ② Finger connection
- ⑤4 Optional right or left connection
- ⑤7 Locking
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

The drawing shows the UZZ universal intermediate jaw.

| Description                | ID      | Grid dimension |
|----------------------------|---------|----------------|
|                            |         | [mm]           |
| Universal intermediate jaw |         |                |
| UZZ 50                     | 0300041 | 1.5            |
| Finger blank               |         |                |
| ABR-PGZN-plus 50           | 0300009 |                |
| SBR-PGZN-plus 50           | 0300019 |                |

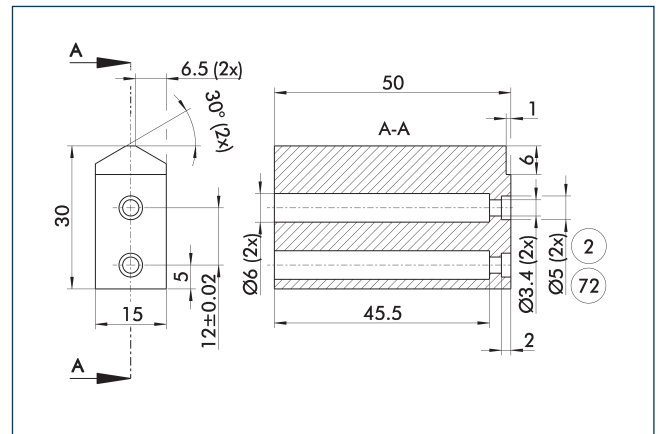
- ① If the operating pressure is higher than 6 bar, suitability for use beyond the application limits must be checked.

### Fields of application

| Series   | Size                                       | Variant            | Suitability |
|----------|--------------------------------------------|--------------------|-------------|
| PGN-plus | 50                                         | -1 (6 bar)         | ■■■■        |
| PGN-plus | 50                                         | -1-AS/1-IS (6 bar) | ■■■■        |
| PGN-plus | 50                                         | -2 (6 bar)         | ■■■■        |
| PGN-plus | 50                                         | -2-AS/2-IS (6 bar) | ■■□□        |
| PGN-plus | 50                                         | -...-KVZ (6 bar)   | □□□□        |
| Legend   |                                            |                    |             |
| ■■■■     | Can be combined without restrictions       |                    |             |
| ■■□□     | Use with restrictions (see loading limits) |                    |             |
| □□□□     | cannot be combined                         |                    |             |

The load limits for describing the application limits can be found in the catalog chapter of the corresponding accessories.

### Finger blanks ABR/SBR-PGZN-plus 50



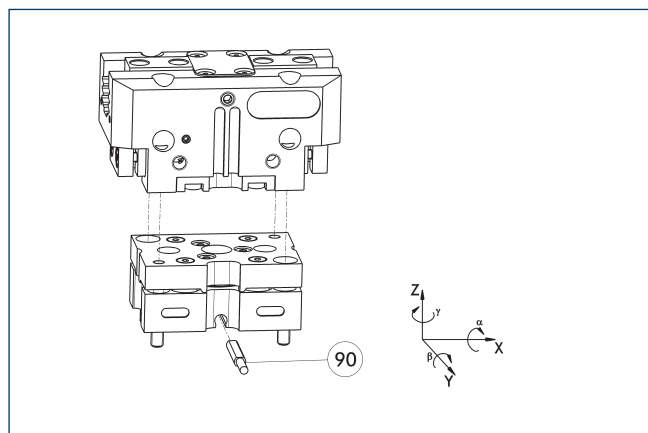
- ② Finger connection
- 72 Fit for centering sleeves

The drawing shows the finger blank which can be reworked by the customer.

| Description      | ID      | Material          | Scope of delivery |
|------------------|---------|-------------------|-------------------|
| Finger blank     |         |                   |                   |
| ABR-PGZN-plus 50 | 0300009 | Aluminum (3.4365) | 1                 |
| SBR-PGZN-plus 50 | 0300019 | Steel (1.7131)    | 1                 |



### Tolerance compensation unit TCU

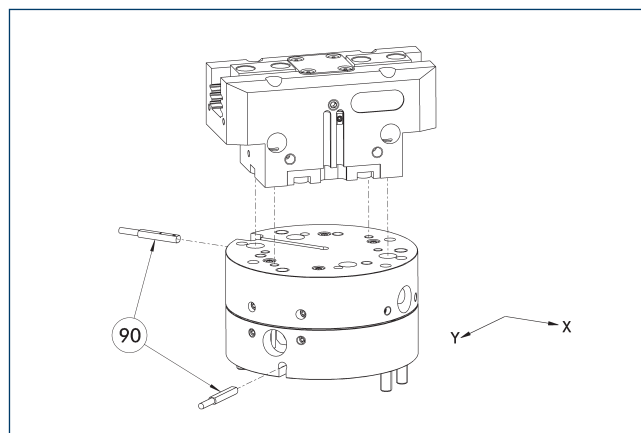


#### 90 Monitoring of locking

Grippers can be directly mounted without an adapter plate. Tolerance compensation unit and gripper have an identical screw connection diagram. Therefore the tolerance compensation units can be assembled later. Please consider the additional assembly height of the tolerance compensation unit. For details please refer to our catalog robot accessories.

| Description       | ID      | Locking | Deflection                                  |
|-------------------|---------|---------|---------------------------------------------|
| Compensation unit |         |         |                                             |
| TCU-P-050-3-0V    | 0324757 | no      | $\pm 1^\circ / \pm 1^\circ / \pm 1,5^\circ$ |

### Compensation unit AGE-F



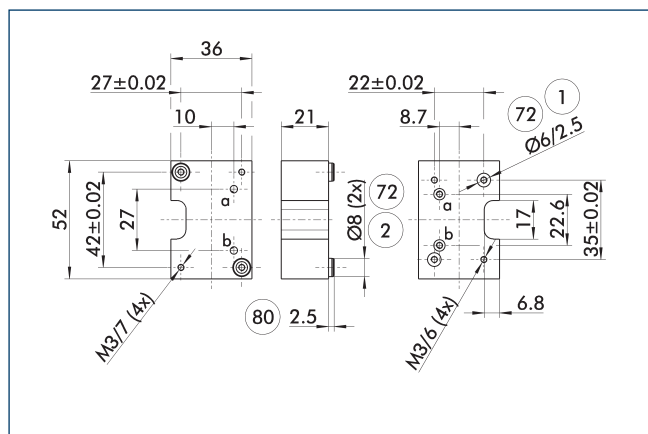
#### 90 Monitoring

The unit has direct connection possibilities for different grippers of the PGN-plus, PGN-plus-P and PZN-plus series. For more detailed information, please refer to the main view.

| Description       | ID      | Compensation XY | Reset force | Often combined |
|-------------------|---------|-----------------|-------------|----------------|
|                   |         | [mm]            | [N]         |                |
| Compensation unit |         |                 |             |                |
| AGE-F-XY-040-1    | 0324920 | $\pm 2$         | 3           |                |
| AGE-F-XY-040-2    | 0324921 | $\pm 2$         | 4           |                |
| AGE-F-XY-040-3    | 0324922 | $\pm 2$         | 4.5         | ●              |

① Due to the interfering contour, monitoring of the gripper is not possible.

### Adapter plate for PGN-plus 50

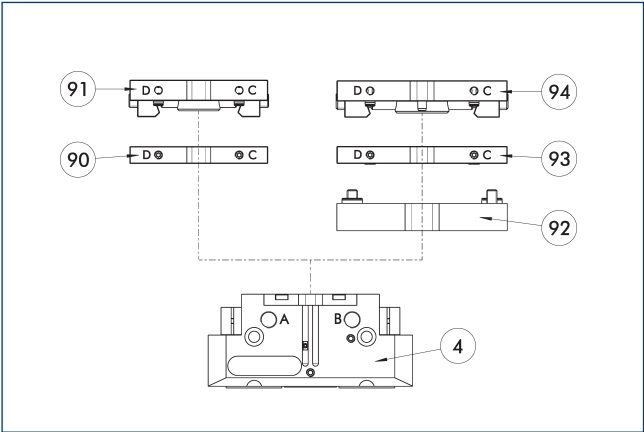


- ① Robot-side connection
- ② Tool-side connection
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

The adapter plate has integrated air feed-throughs in order to be able to use the hose-free direct connection of the appropriate gripper.

| Description     | ID      |
|-----------------|---------|
| Tool side       |         |
| A-CWA-064-050-P | 0305768 |

Compact change system for grippers



- ④

Grippers
- ⑨②

A-CWA adapter plate
- ⑨①

CWA compact change adapter
- ⑨③

CWA compact change adapter
- ⑨①

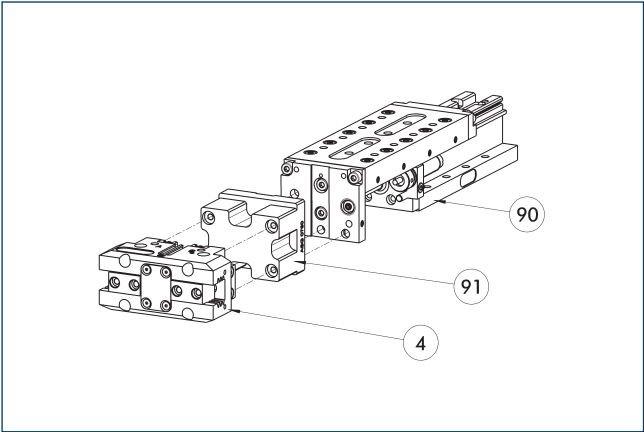
CWK compact change master
- ⑨④

CWK compact change master

The CWS is a manual change system with integrated air feed-through for simple exchange of the handling components. The gripper can either be attached directly to a change system of the same size or mounted to a change system one size larger via an adapter plate. The adapter plate also has integrated air feed-throughs.

| Description                | ID      |  |
|----------------------------|---------|--|
| Tool side                  |         |  |
| A-CWA-064-050-P            | 0305768 |  |
| CWA compact change adapter |         |  |
| CWA-050-P                  | 0305751 |  |
| CWK compact change master  |         |  |
| CWK-050-P                  | 0305750 |  |

Modular Assembly Automation



- ④

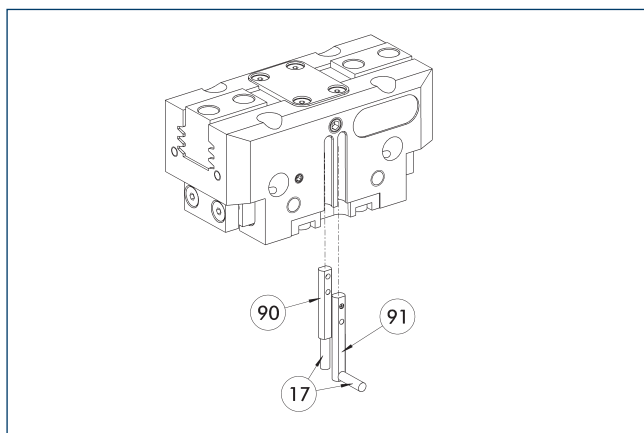
Grippers
- ⑨①

ASG adapter plate
- ⑨①

Linear module CLM/KLM/LM/ELP/  
ELM/ELS/HLM

Grippers and linear modules can be combined with standard adapter plates from the modular assembly system. For more information see our main catalog "Modular Assembly Automation".

## Electronic magnetic switch MMS



⑰ Cable outlet

⑨① Sensor MMS 22...-SA

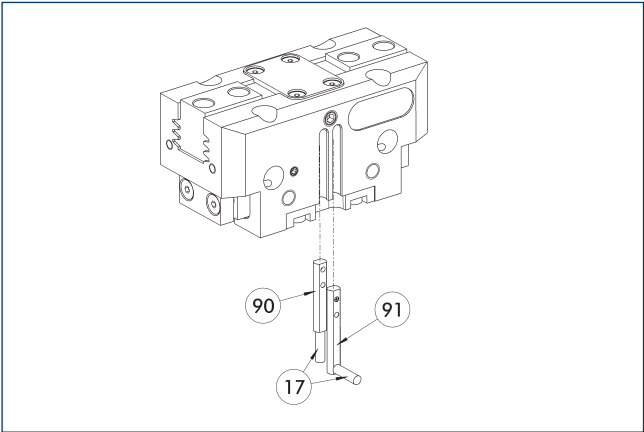
⑨① Sensor MMS 22..

End position monitoring for mounting in the C-slot.

| Description                                            | ID      | Often combined |
|--------------------------------------------------------|---------|----------------|
| Electronic magnetic switch                             |         |                |
| MMS 22-S-M8-PNP                                        | 0301032 | ●              |
| MMSK 22-S-PNP                                          | 0301034 |                |
| Electronic magnetic switches with lateral cable outlet |         |                |
| MMS 22-S-M8-PNP-SA                                     | 0301042 | ●              |
| MMSK 22-S-PNP-SA                                       | 0301044 |                |
| Connection cables                                      |         |                |
| KA BG08-L 3P-0300-PNP                                  | 0301622 | ●              |
| KA BG08-L 3P-0500-PNP                                  | 0301623 |                |
| KA BW08-L 3P-0300-PNP                                  | 0301594 |                |
| KA BW08-L 3P-0500-PNP                                  | 0301502 |                |
| Clip for connector/socket                              |         |                |
| CLI-M8                                                 | 0301463 |                |
| Cable extension                                        |         |                |
| KV BW08-SG08 3P-0030-PNP                               | 0301495 |                |
| KV BW08-SG08 3P-0100-PNP                               | 0301496 |                |
| KV BW08-SG08 3P-0200-PNP                               | 0301497 | ●              |
| Sensor distributor                                     |         |                |
| V2-M8                                                  | 0301775 | ●              |
| V4-M8                                                  | 0301746 |                |
| V8-M8                                                  | 0301751 |                |

- ① Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

Programmable magnetic switch MMS 22-PI1



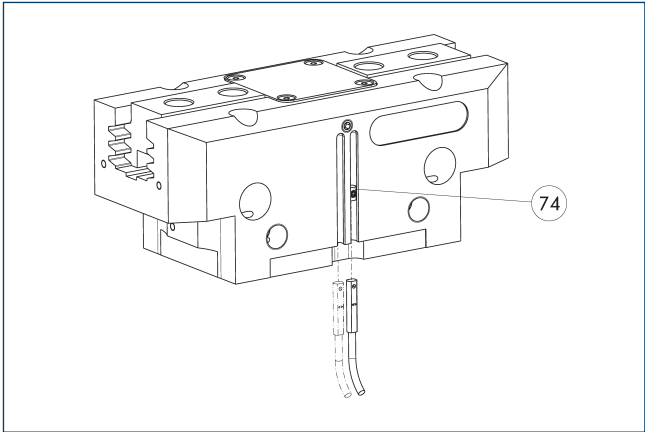
17 Cable outlet  
90 Sensor MMS 22 PI1-...  
91 Sensor MMS 22 ..-PI1-...-SA

Position monitoring with one programmable position per sensor and integrated electronic system in the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery, ID 0301030) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

| Description                                               | ID      | Often combined |
|-----------------------------------------------------------|---------|----------------|
| Programmable magnetic switch                              |         |                |
| MMS 22-PI1-S-M8-PNP                                       | 0301160 | ●              |
| MMSK 22-PI1-S-PNP                                         | 0301162 |                |
| Programmable magnetic switch with lateral cable outlet    |         |                |
| MMS 22-PI1-S-M8-PNP-SA                                    | 0301166 | ●              |
| MMSK 22-PI1-S-PNP-SA                                      | 0301168 |                |
| Programmable magnetic switch with stainless steel housing |         |                |
| MMS 22-PI1-S-M8-PNP-HD                                    | 0301110 | ●              |
| MMSK 22-PI1-S-PNP-HD                                      | 0301112 |                |

① Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

MMS-P programmable magnetic switch



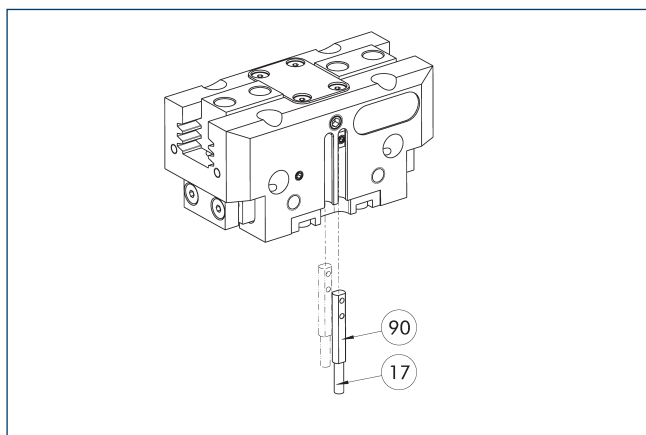
74 Limit stop for sensor

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

| Description                  | ID      | Often combined |
|------------------------------|---------|----------------|
| Programmable magnetic switch |         |                |
| MMSK-P 22-S-PNP              | 0301371 |                |
| MMS-P 22-S-M8-PNP            | 0301370 | ●              |
| Connection cables            |         |                |
| KA GLN0804-LK-00500-A        | 0307767 | ●              |
| KA GLN0804-LK-01000-A        | 0307768 |                |
| KA WLN0804-LK-00500-A        | 0307765 |                |
| KA WLN0804-LK-01000-A        | 0307766 |                |
| Clip for connector/socket    |         |                |
| CLI-M8                       | 0301463 |                |
| Sensor distributor           |         |                |
| V2-M8-4P-2XM8-3P             | 0301380 |                |

① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

### Programmable magnetic switch MMS-I0-Link



①⑦ Cable outlet

①⑨ Sensor MMS 22-I0L-...

Sensor for multi-position monitoring through detection of the complete gripper stroke. The sensor is mounted directly in the C-slot of the gripper. The sensor is programmed for the gripper via the IO-Link interface, Magnet teaching tool MT (included in scope of delivery; ID 0301030) or the ST plug teaching tool (not included in scope of delivery; ID 0301026). An IO-Link master is required for operation.

| Description                  | ID      |  |
|------------------------------|---------|--|
| Programmable magnetic switch |         |  |
| MMS 22-I0L-M08               | 0315830 |  |
| MMS 22-I0L-M12               | 0315835 |  |

- ① One sensor is required for each gripper. No additional mounting kit is required – the gripper is equipped for use of the sensor by default. Further information and technical data can be found in the catalog chapter sensor systems.



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