Superior Clamping and Gripping

SCHUNK®

Product Information

Universal gripper PZN-plus 125

Reliable. Robust. Flexible.

PZN-plus universal gripper

Universal 3-Finger Centric Gripper with high gripping force and maximum moments due to multi-tooth guidance

Field of application

Multi-purpose due to the diverse range of accessories. Can also be used in fields of application with special requirements to the gripper (temperature, chemical resistance, dirt, and many more).

Advantages – Your benefits

Robust multi-tooth guidance for precise handling

High maximum moments possible suitable for using long gripper fingers

Wedge-hook design for high power transmission and synchronized gripping

Air supply via hose-free direct connection or screw connections for flexible pressure supply in all automated systems

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

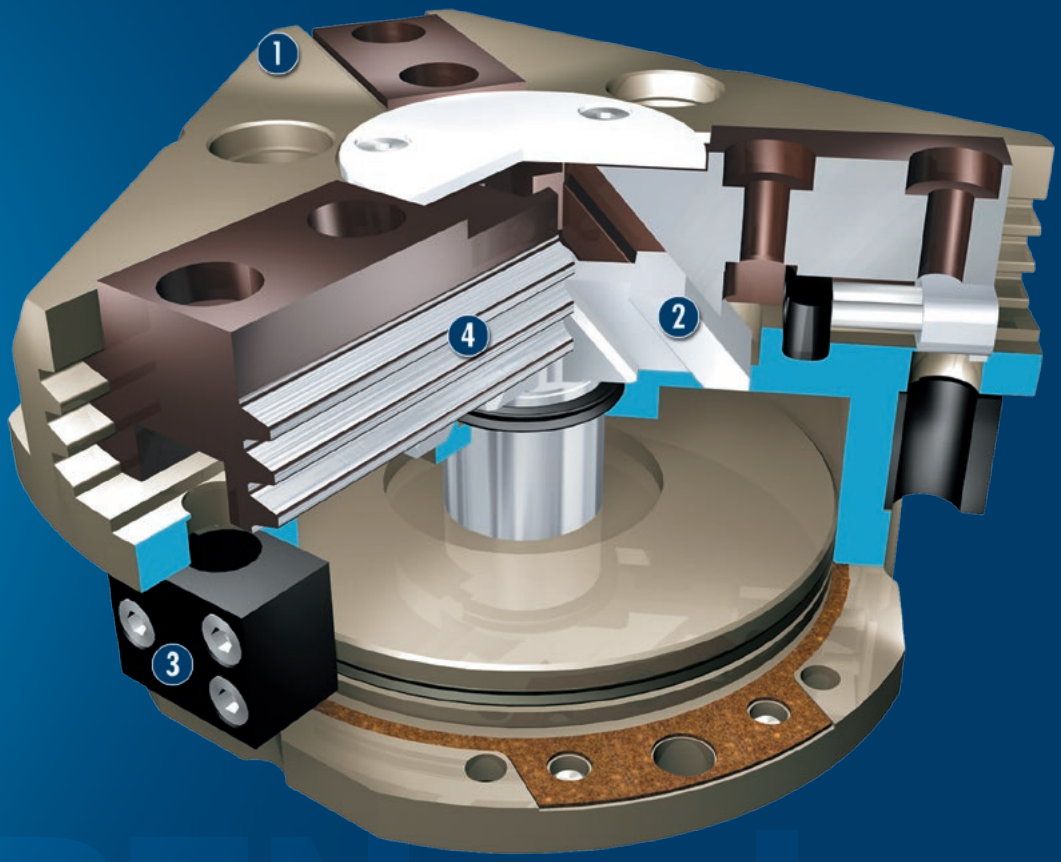
Manifold options for special optimisation for your specific application (dust-tight, high-temperature, corrosion-protected, etc.)

Fastening at one gripper side in two screw directions for universal and flexible gripper assembly

Sizes	Weight	Gripping force	Stroke per jaw	Workpiece weight
Quantity: 11	0.13 .. 80 kg	255 .. 57300 N	2 .. 45 mm	1.3 .. 227 kg

Functional description

The piston is moved up and down by compressed air. The angled active surfaces of the wedge-hook produce a synchronized, centric jaw movement.



① **Housing**
Weight-optimized due to the use of high-strength aluminum alloy

② **Wedge-hook design**
for high force transmission and centric gripping

③ **Sensor system**
Brackets for proximity switches and adjustable control cams in the housing

④ **Multi-tooth guidance**
precise gripping through base jaw guidance with a high load capacity and a minimum play

CAD data, operating manuals and other current product documents can be found online.

General notes about the series

Operating principle: Wedge-hook kinematics

Housing material: Aluminum alloy, anodized

Base jaw material: Steel

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

Warranty: 36 months

Longlife: 30 years functional warranty (details can be found online)

Scope of delivery: Bracket for proximity switch, centering sleeves, O-rings for direct connection, assembly and operating manual with Declaration of Incorporation.

Gripping force: is the arithmetic total of the gripping force applied to each gripper 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 the spread of the end position during 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.

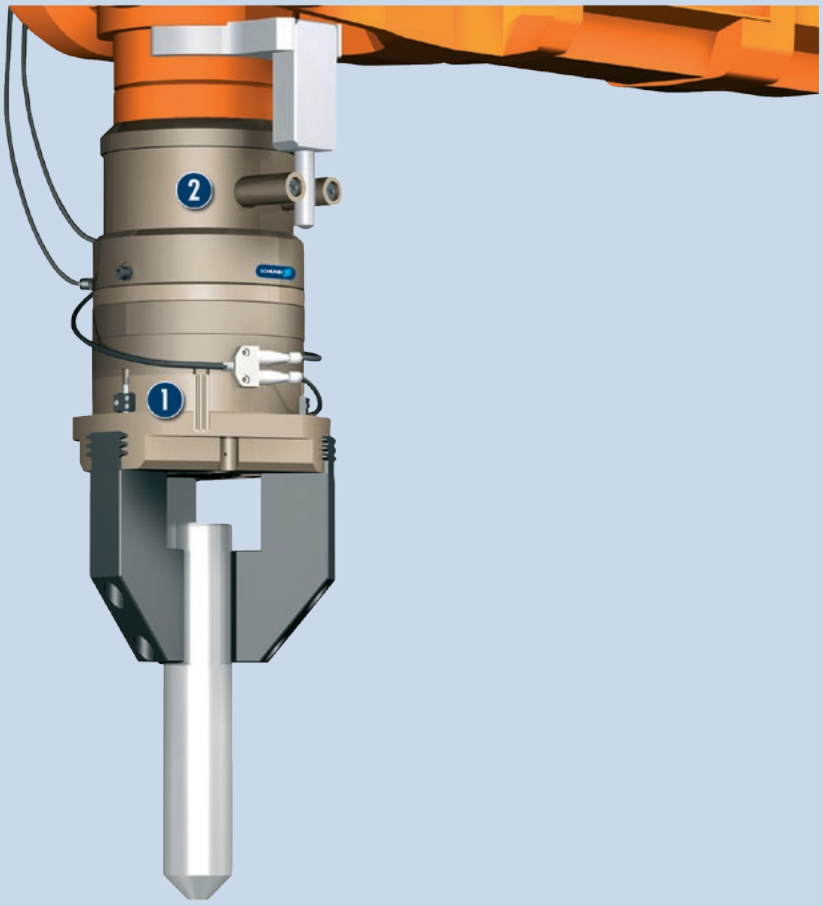
Closing and opening times: are purely the times that the base jaws or fingers are in motion. Valve switching times, hose filling times, or PLC reaction times are not a part of this and are to be considered when cycle times are calculated.

Rotational speed for rotary applications: indicates the max. permissible speed allowed without further measurements, taking the limitations into account.

Application example

Insertion tool for assembly of small to medium-sized axes. Due to the rotary feed-through, the axes can be turned several times to an unlimited extent (> 360°). Slip ring contacts integrated in the rotary feed-through reliably supply the gripper with power.

1. PZN-plus 3-finger centric gripper
2. DDF 2 rotary feed-through



SCHUNK offers more ...

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

Compensation unit

Universal intermediate jaw

Jaw quick-change system

Pressure maintenance valve

Sensor system

Force-measuring jaws

Finger blanks with quick-change jaw system

ⓘ Additional information regarding the products can be found on the following product pages or at www.schunk.com. Please contact us for further information: SCHUNK technical hotline +49-7133-103-2696

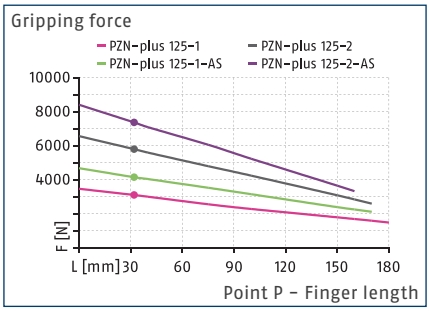
Options and special information

Gripping force maintenance version AS / IS: The mechanical gripping force maintenance version ensures a minimum gripping force also in the case of a drop in pressure. In the AS / S version this has the effect of a closing force, in the IS version of an opening force
Anti-corrosion version K: for use in corrosion-inducing atmospheres
High-temperature version V/HT: for use in hot environments
Force intensified version KVZ: if higher gripping forces are required
Dust-tight version SD: absolutely dust-tight, increased degree of protection against the penetration of materials.
Precision version P: for the highest accuracy
ATEX version EX: for explosive environments
Additional versions: Various options can be combined with each other.

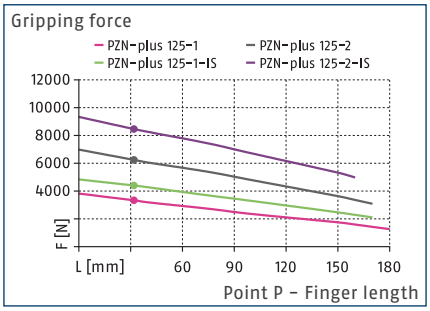
PZN-plus 125

Universal gripper

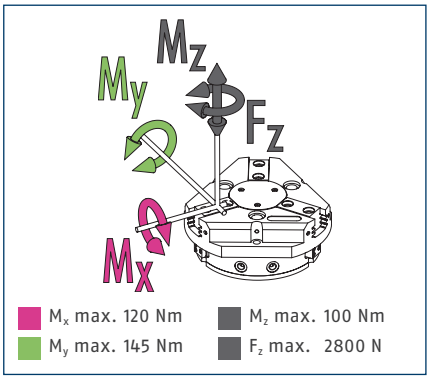
Gripping force, O.D. gripping



Gripping force, I.D. gripping



Finger load



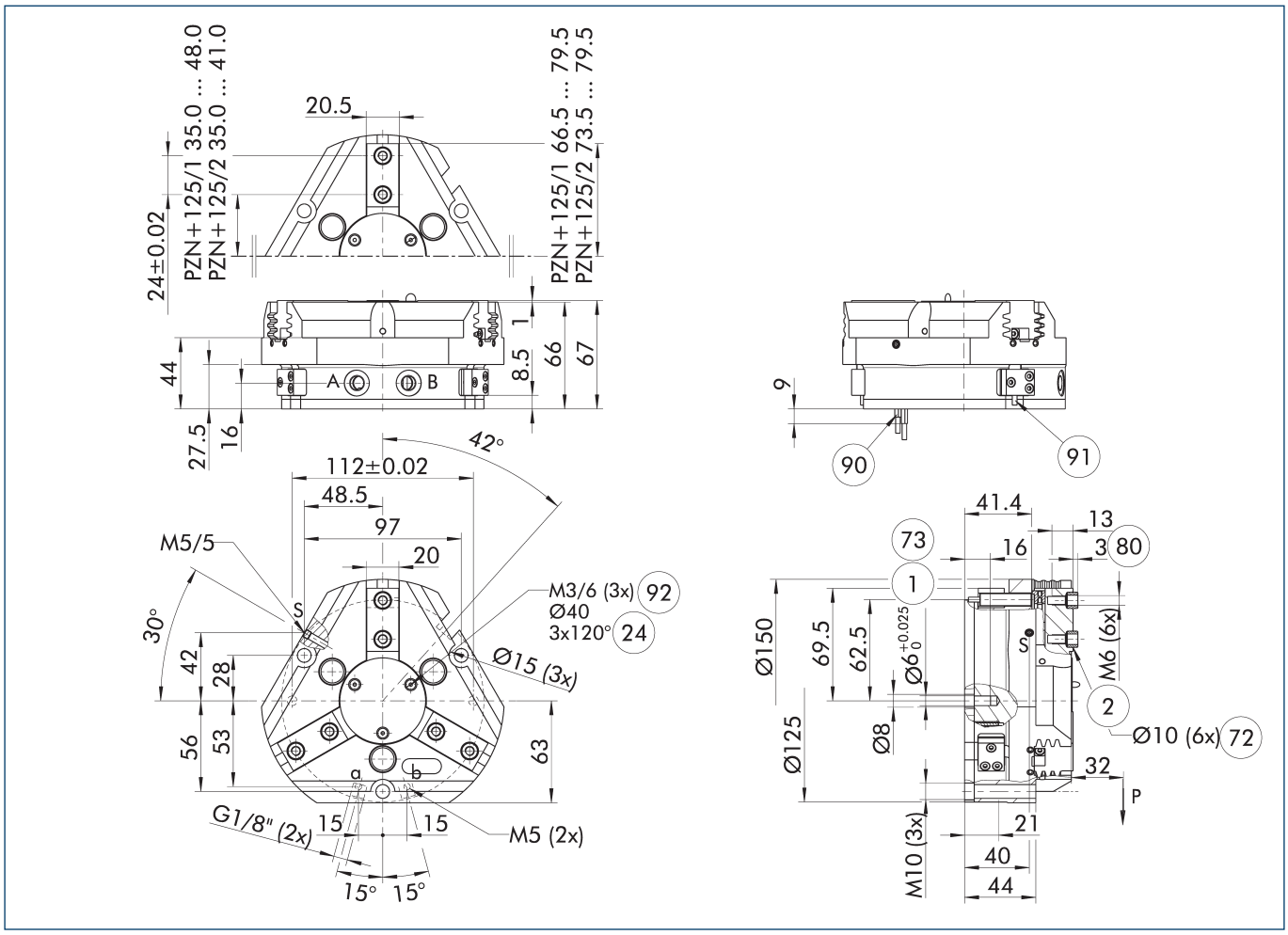
ⓘ The specified torques and forces are static values, apply for each base jaw, and may occur simultaneously. M_y may arise in addition to the moment generated by the gripping force itself.

Technical data

Description		PZN-plus 125-1	PZN-plus 125-2	PZN-plus 125-1-AS	PZN-plus 125-2-AS	PZN-plus 125-1-IS	PZN-plus 125-2-IS
ID		0303313	0303413	0303513	0303613	0303543	0303643
Stroke per jaw	[mm]	13	6	13	6	13	6
Closing / opening force	[N]	3100/3330	5800/6240	4150/-	7970/-	-/4400	-/8450
Min. spring force	[N]			1050	2170	1070	2210
Weight	[kg]	2.47	2.47	3.34	3.34	3.34	3.34
Recommended workpiece weight	[kg]	15.5	29	15.5	29	15.5	29
Fluid consumption double stroke	[cm³]	230	230	383	383	383	383
Min./max. operating pressure	[bar]	2/8	2/8	4/6.5	4/6.5	4/6.5	4/6.5
Nominal operating pressure	[bar]	6	6	6	6	6	6
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]	0.2/0.2	0.2/0.2	0.17/0.35	0.17/0.35	0.35/0.17	0.35/0.17
Closing- / opening time with spring	[s]			0.40	0.40	0.40	0.40
Max. permissible finger length	[mm]	180	170	170	160	170	160
Max. permissible mass per finger	[kg]	2.1	2.1	2.1	2.1	2.1	2.1
Protection class IP		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
Cleanroom class ISO 14644-1		5	5	5	5	5	5
Options and their characteristics							
Dust-tight version		37303313	37303413	37303513	37303613	37303543	37303643
Protection class IP		64	64	64	64	64	64
Weight	[kg]	2.9	2.9	3.7	3.7	3.7	3.7
Anti-corrosion version		38303313	38303413	38303513	38303613	38303543	38303643
High-temperature version		39303313	39303413	39303513	39303613	39303543	39303643
Min./max. ambient temperature	[°C]	5/130	5/130	5/130	5/130	5/130	5/130
Force intensified version		0372204	0372214	0372224		0372244	
Closing / opening force	[N]	5580/5935	10440/11230	6630/-		-/7005	
Weight	[kg]	3.7	3.7	4.5		4.5	
Maximum pressure	[bar]	6	6	6		6	
Max. permissible finger length	[mm]	125	100	100		100	
Precision version		0303343	0303443	0303493	0303593		

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

Main view



The drawing shows the gripper in the basic version with closed jaws, without dimensional consideration of the options described below.

ⓘ The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see catalog section on accessories).

A, a Main / direct connection, gripper opening
B, b Main / direct connection, gripper closing
S Air purge connection

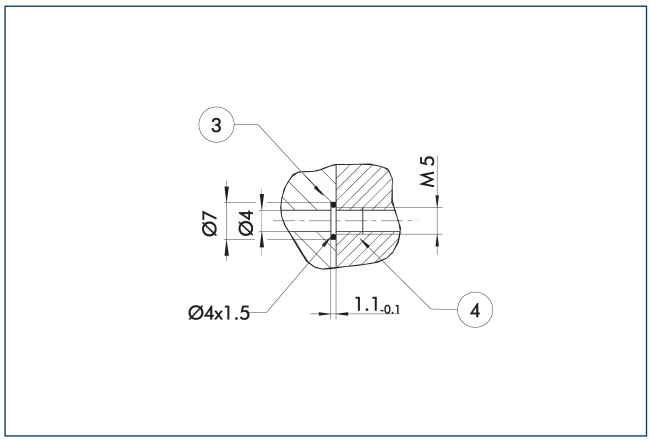
(1) Gripper connection
(2) Finger connection
(24) Bolt circle

(72) Fit for centering sleeves
(73) Fit for centering pins
(80) Depth of the centering sleeve hole in the counter part
(90) Sensor MMS 22..
(91) Sensor IN ...
(92) Thread below the cover for fastening external attachments

PZN-plus 125

Universal gripper

Hose-free direct connection M5

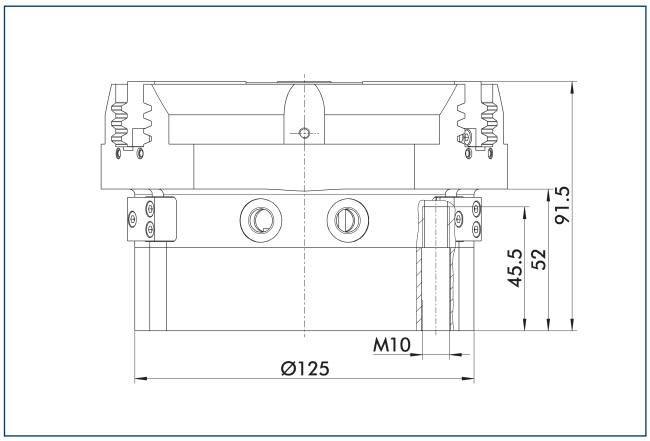


(3) Adapter

(4) Grippers

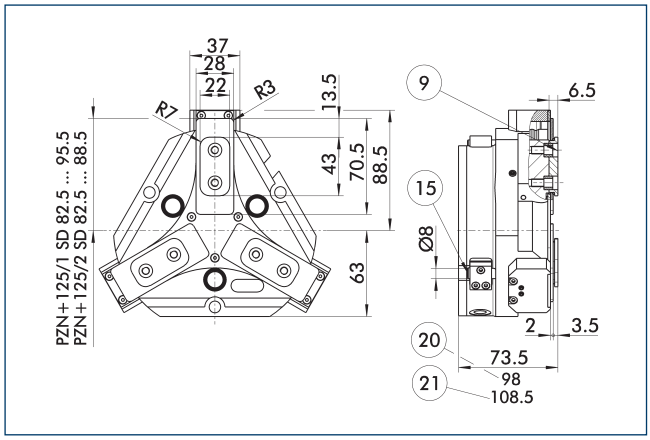
The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

Gripping force maintenance device AS / IS



The mechanical gripping force maintenance device ensures that a minimum clamping force will be applied even if there is a drop in pressure. This acts as closing force in the AS / S version, and as opening force in the IS version. Besides this, the gripping force maintenance device can be used to increase the gripping force or for single actuated gripping.

Dust-tight version



(9) For mounting screw connection diagram, see basic version

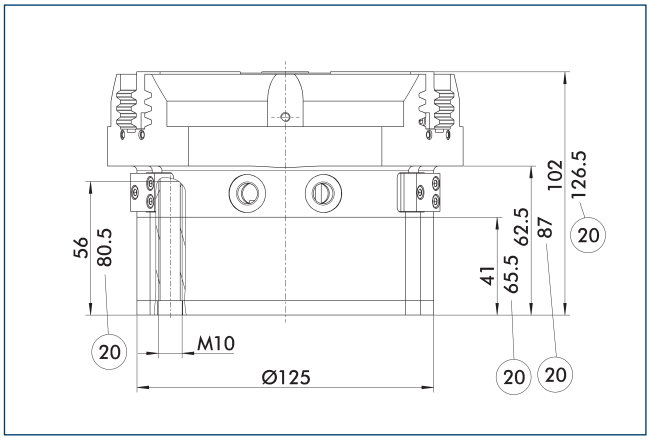
(15) Sealing bolt

(20) For AS / IS version

(21) Applies for KVZ version

The dust cover option increases the protection against external particles. The assembly diagram shifts by the height of the intermediate jaw. The finger length is still measured from the upper edge of the gripper housing.

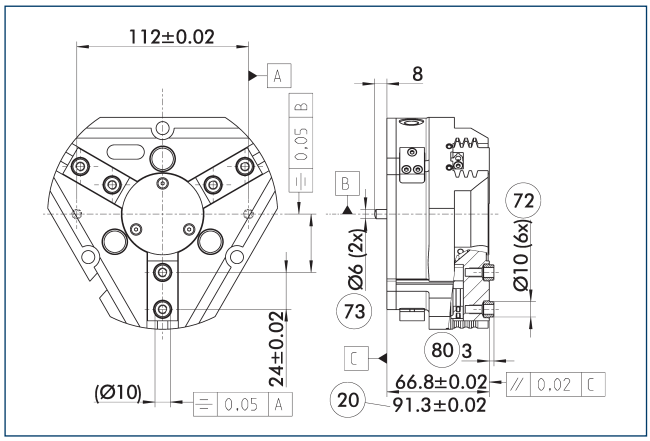
Force intensified version



(20) For AS / IS version

The KVZ cylinder increases the gripping forces during opening and closing. A second, in series-connected piston also increases the force on the wedge hook. Please consider that grippers which are equipped with a gripping force maintenance device are higher.

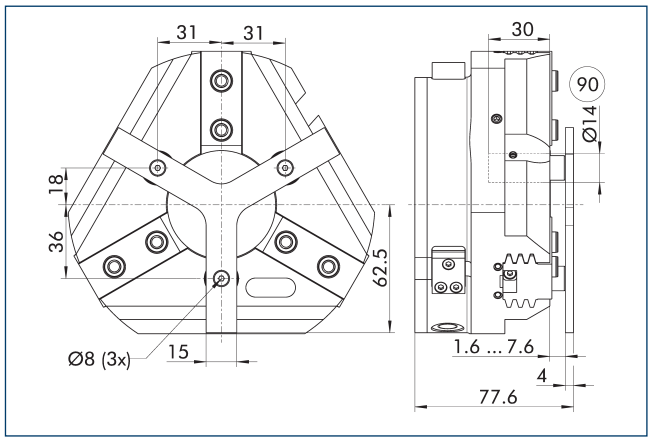
Precision version



(20) For AS / IS version
(72) Fit for centering sleeves
(73) Fit for centering pins
(80) Depth of the centering sleeve hole in the counter part

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.

Spring-loaded pressure piece



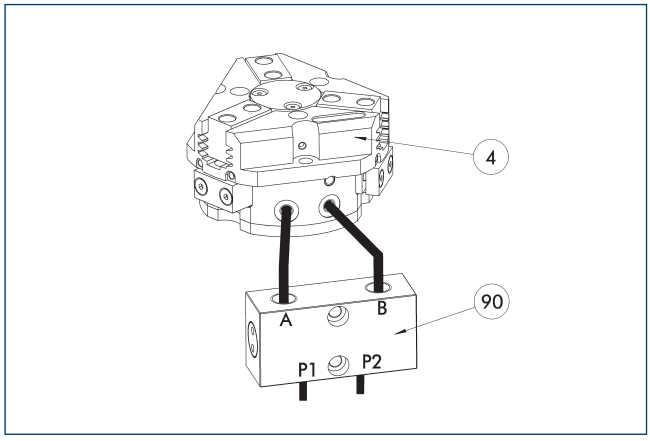
(90) Guide pin

For spring-supported positioning of the workpiece against a stop after the gripper has opened. Especially developed for loading machines.

Description	ID	Stroke	Min. force
		[mm]	[N]
Spring-loaded pressure piece			
A-PZN-plus/DPZ-plus 125	0303723	6	105

ⓘ The pressure piece cannot be combined with the dust-tight option. Please contact us if you require a special pressure piece.

SDV-P pressure maintenance valve

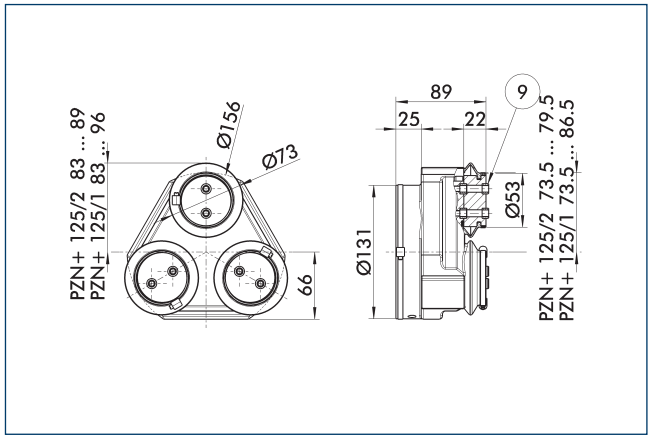


(4) Grippers
(90) SDV-P pressure maintenance valve

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	
Pressure maintenance valve		
SDV-P 04	0403130	
Pressure maintenance valve with air bleed screw		
SDV-P 04-E	0300120	

Protective cover HUE PZN-plus 125



(9) For mounting screw connection diagram, see basic version

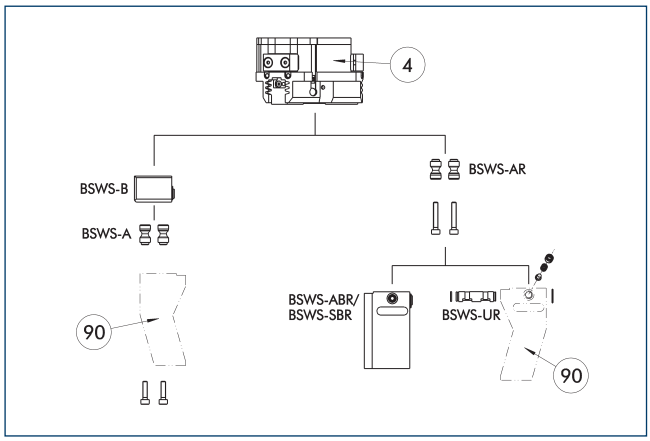
The HUE protective cover fully protects the gripper against external influences. The cover is suitable for applications of up to IP65 if an additional sealing of the cover bottom is provided. For detailed information, please see the HUE series. The connection diagram shifts by the height of the intermediate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

Description	ID	Cleanroom class ISO 14644-1	Protection class IP
Protection cover			
HUE PZN-plus 125	0303483	2	65

PZN-plus 125

Universal gripper

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	
Quick-change jaw system adapter		
BSWS-A 125	0303028	
BSWS-AR 125	0300095	
Quick-change jaw system base		
BSWS-B 125	0303029	
Jaw quick-change system		
BSWS-ABR-PGZN-plus 125	0300075	
BSWS-SBR-PGZN-plus 125	0300085	
Quick-change Jaw System reversed		
BSWS-UR 125	0302994	

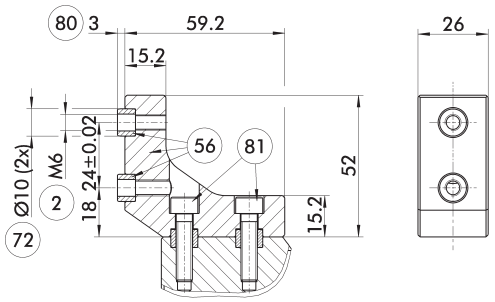
ⓘ Only systems that are listed in the table, can be used.

Fields of application

Series	Size	Variant	Suitability
PZN-plus	125	-1 (6 bar)	■■■■
PZN-plus	125	-1-AS / -1-IS (6 bar)	■■■■
PZN-plus	125	-2 (6 bar)	■■■■
PZN-plus	125	-2-AS / -2-IS (6 bar)	■■□□
PZN-plus	125	-...-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.
If the operating pressure is higher than 6 bar, suitability for use above the application limits must be checked.

ZBA-L-plus 125 intermediate jaws



(2) Finger connection

(56) Included in the scope of delivery

(72) Fit for centering sleeves

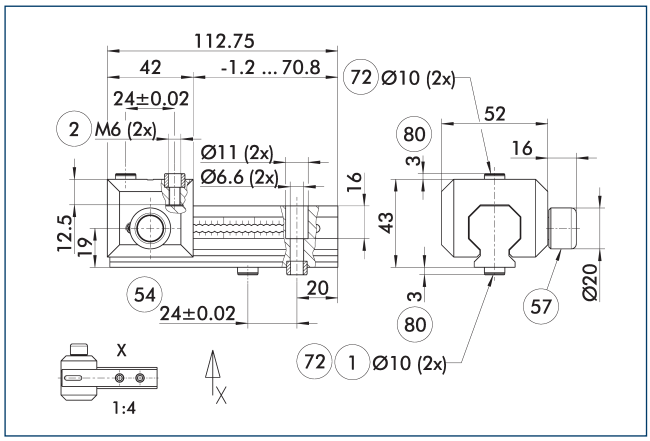
(80) Depth of the centering sleeve hole in the counter part

(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 jaws				
ZBA-L-plus 125	0311752	Aluminum	PGN-plus 125	1

UZB 125 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 UZB universal intermediate jaw. The fully removable UZB-S slide (can also be ordered separately) allows for a quick jaw change.

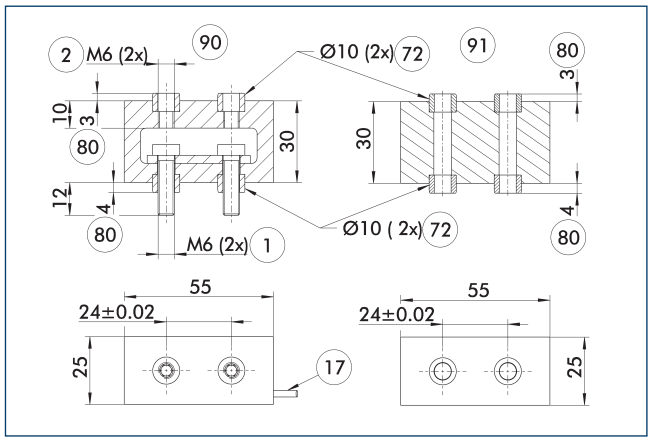
Description	ID	Grid dimension
		[mm]
Universal intermediate jaw		
UZB 125	0300045	3
UZB-S 125	5518273	3
Finger blanks		
ABR-PGZN-plus 125	0300013	
SBR-PGZN-plus 125	0300023	

Fields of application

Series	Size	Variant	Suitability
PZN-plus	125	-1 (6 bar)	■■■■
PZN-plus	125	-1-AS / -1-IS (6 bar)	■■□□
PZN-plus	125	-2 (6 bar)	□□□□
PZN-plus	125	-2-AS / -2-IS (6 bar)	□□□□
PZN-plus	125	-...-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.
If the operating pressure is higher than 6 bar, suitability for use above the application limits must be checked.

Force-measuring jaws FMS-ZBA/ ZBP 125



(1) Gripper connection
(2) Finger connection
(17) Cable outlet
(72) Fit for centering sleeves
(80) Depth of the centering sleeve hole in the counter part
(90) Active intermediate jaws
(91) Passive intermediate jaws

Force-measuring jaws measure gripping forces, but can also determine workpiece weights or dimensional deviations. There are active and passive intermediate jaws (FMS-ZBA or FMS-ZBP). At least one active force-measuring jaw is required per gripper, the rest can be passive. For each active jaw, a FMS-A1 evaluation unit and a FMS-A connection cable are required.

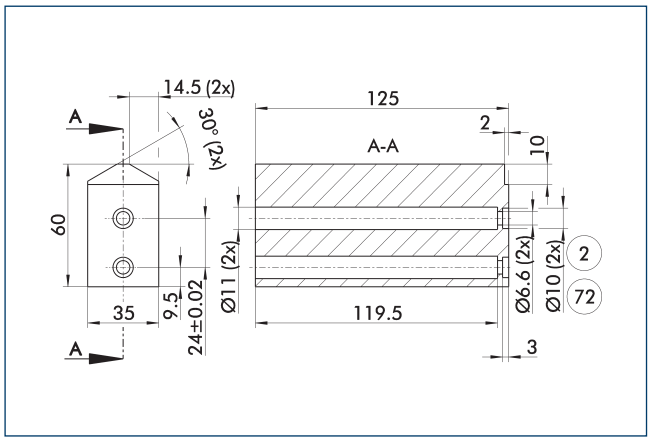
Description	ID	Often combined
Active intermediate jaws		
FMS-ZBA 125	0301838	
Passive intermediate jaws		
FMS-ZBP 125	0301839	
Connection cables		
FMS-AK0200	0301820	●
FMS-AK0500	0301821	
FMS-AK1000	0301822	
FMS-AK2000	0301823	
Evaluation electronics		
FMS-A1	0301810	

ⓘ Due to the screw length, the FMS system can not be used in combination with the option dust-proof (SD) of the gripper. Please note that the admissible force range of the force measuring jaw (see catalog chapter FMS) should not be exceeded for the chosen gripper version.

PZN-plus 125

Universal gripper

Finger blanks ABR- / SBR-PGZN-plus 125

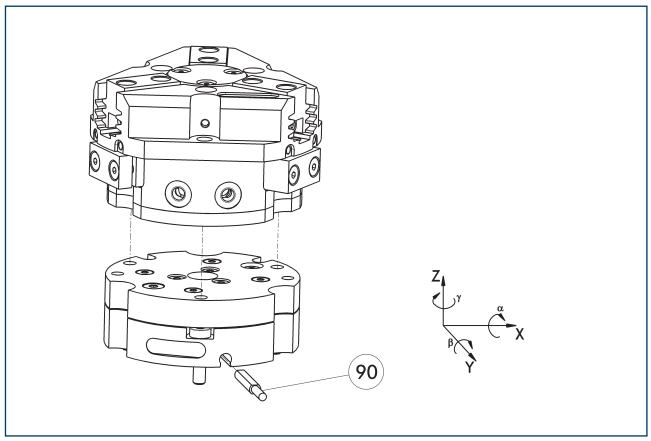


(2) Finger connection (72) Fit for centering sleeves

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

Description	ID	Material	Scope of delivery
Finger blanks			
ABR-PGZN-plus 125	0300013	Aluminum	1
SBR-PGZN-plus 125	0300023	16MnCr5	1

TCU tolerance compensation unit

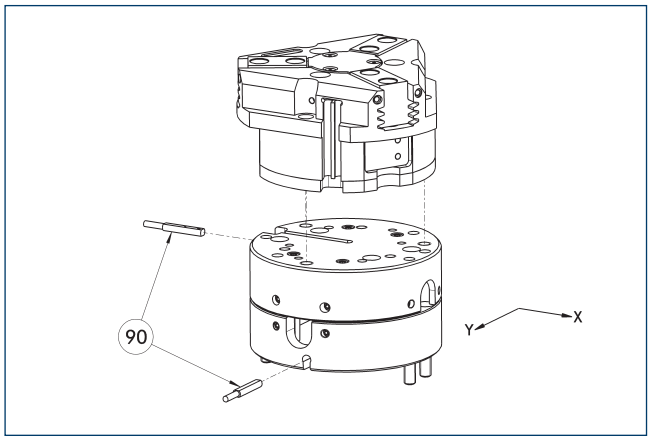


(90) monitoring of locking

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	Often combined
Compensation unit				
TCU-Z-125-3-MV	0324820	yes	±1°/±1°/±1°	●
TCU-Z-125-3-OV	0324821	no	±1°/±1°/±1°	

XY compensation unit with spring return

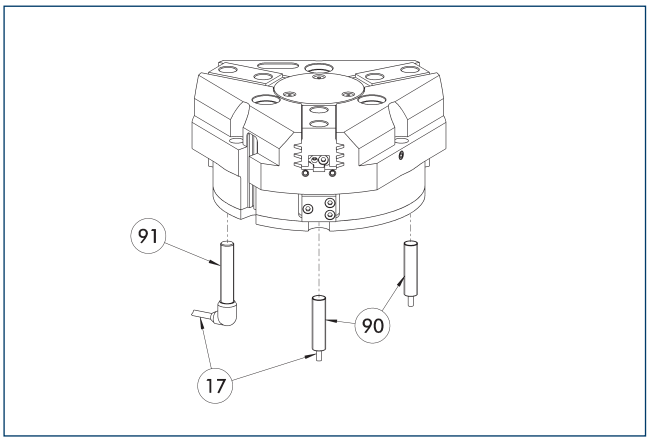


(90) Monitoring

Grippers can be directly mounted without an adapter plate. For details see our catalog Gripping or Robot Accessories.

Description	ID	Compensation XY	Reset force	Often combined
		[mm]	[N]	
Compensation unit				
AGE-F-XY-080-1	0324960	± 5	39	
AGE-F-XY-080-2	0324961	± 5	85	
AGE-F-XY-080-3	0324962	± 5	90	●

Inductive Proximity Switches



(17) Cable outlet
(91) Sensor IN..-SA
(90) Sensor IN ...

Directly mounted end position monitoring.

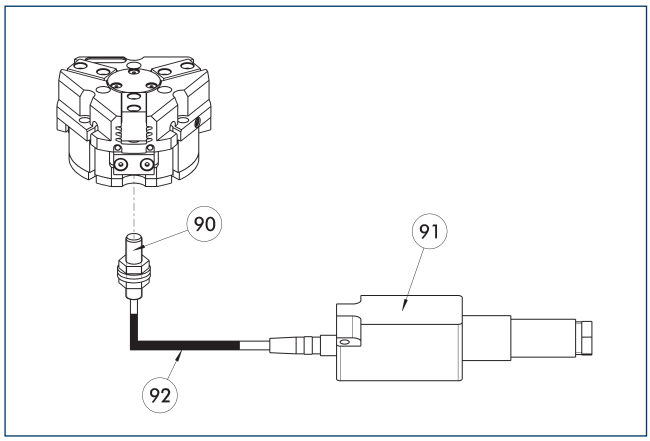
Description	ID	Often combined
Inductive Proximity Switches		
IN 80-S-M12	0301578	
IN 80-S-M8	0301478	●
INK 80-S	0301550	
Inductive proximity switch with lateral outlet		
IN 80-S-M12-SA	0301587	
IN 80-S-M8-SA	0301483	●
INK 80-S-SA	0301566	
Cable extension		
KV BG12-SG12 3P-0030-PNP	0301999	
KV BG12-SG12 3P-0060-PNP	0301998	
KV BW08-SG08 3P-0030-PNP	0301495	
KV BW08-SG08 3P-0100-PNP	0301496	
KV BW08-SG08 3P-0200-PNP	0301497	●
KV BW12-SG12 3P-0030-PNP	0301595	
KV BW12-SG12 3P-0100-PNP	0301596	
KV BW12-SG12 3P-0200-PNP	0301597	
clip for plug/socket		
CLI-M12	0301464	
CLI-M8	0301463	
Connection cables		
KA BG08-L 3P-0300-PNP	0301622	●
KA BG08-L 3P-0500-PNP	0301623	
KA BG12-L 3P-0500-PNP	30016369	
KA BW08-L 3P-0300-PNP	0301594	
KA BW08-L 3P-0500-PNP	0301502	
KA BW12-L 3P-0300-PNP	0301503	
KA BW12-L 3P-0500-PNP	0301507	
Sensor distributor		
V2-M12	0301776	●
V2-M8	0301775	●
V4-M12	0301747	
V4-M8	0301746	
V8-M12	0301752	
V8-M8	0301751	

ⓘ Two sensors (closer/S) are required for each unit and extension cables are available as an option. For sensor cables, note the minimum permissible bending radii. These are generally 35 mm.

PZN-plus 125

Universal gripper

Flexible position sensor



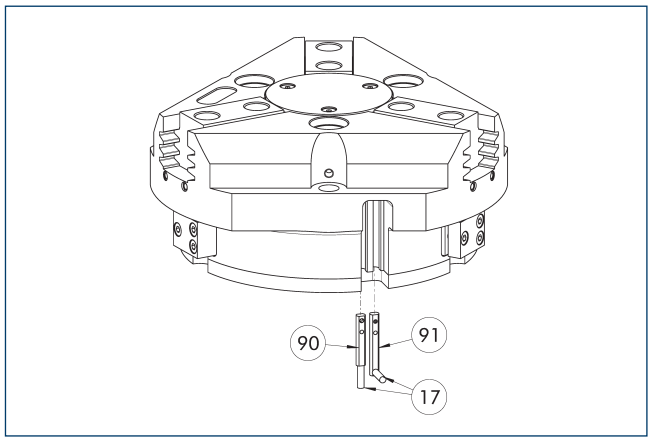
(90) FPS-S sensor
(92) Cable extension
(91) FPS-F5 evaluation electronic

Flexible position monitoring of up to five positions.

Description	ID	
Attachment kit for FPS		
AS-FPS-PGZN-plus 125-1/PZB 160	0301636	
AS-FPS-PGZN-plus 125-2	0301637	
Sensor		
FPS-S M8	0301704	
Cable extension		
KV BG08-SG08 3P-0050	0301598	
KV BG08-SG08 3P-0100	0301599	
Evaluation electronics		
FPS-F5	0301805	

ⓘ When using an FPS system, an FPS sensor (FPS-S) as well as an electronic processor (FPS-F5 / F5 T) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are optionally available – see catalog chapter "Accessories."

Electronic magnetic switches MMS



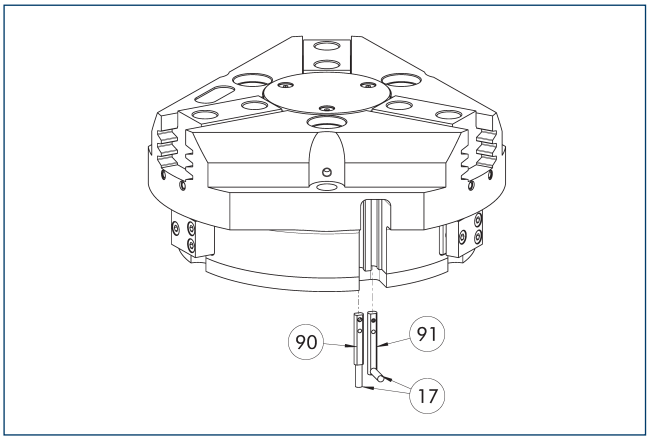
(17) Cable outlet
(91) Sensor MMS 22...-SA
(90) Sensor MMS 22..

End position monitoring for mounting in the C-slot.

Description	ID	Often combined
Electronic magnetic switches MMS		
MMS 22-S-M8-PNP	0301032	●
MMSK 22-S-PNP	0301034	
MMS electronic magnetic switches with lateral outlet		
MMS 22-S-M8-PNP-SA	0301042	●
MMSK 22-S-PNP-SA	0301044	
Reed Switches		
RMS 22-S-M8	0377720	●
Cable extension		
KV BW08-SG08 3P-0030-PNP	0301495	
KV BW08-SG08 3P-0100-PNP	0301496	
KV BW08-SG08 3P-0200-PNP	0301497	●
clip for plug/socket		
CLI-M8	0301463	
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	
RSS Wireless sensor system		
RSS-T2	0377715	
RSS-T2-US/CA	0377717	
Sensor distributor		
V2-M8	0301775	●
V4-M8	0301746	
V8-M8	0301751	

ⓘ Two sensors (closer/S) are required for each unit and extension cables are available as an option. For sensor cables, note the minimum permissible bending radii. These are generally 35 mm.

Programmable magnetic switch MMS 22-PI1



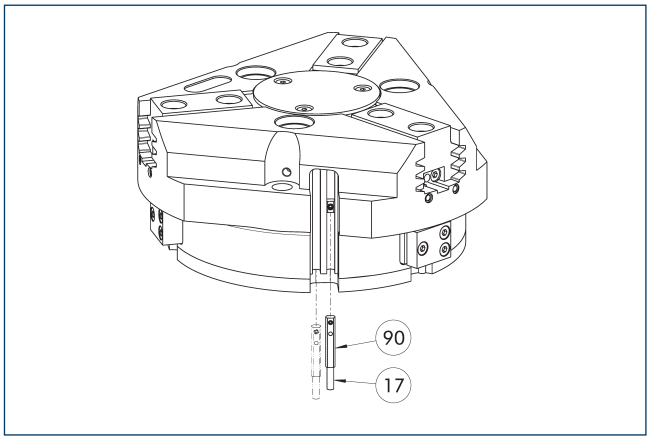
17 Cable outlet
91 Sensor MMS 22 ..-PI1-...-SA
90 Sensor MMS 22 PI1-...

Position monitoring with two programmable positions per sensor and electronics built into the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) 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		
MMS 22-PI1-S-M8-PNP	0301160	●
MMSK 22-PI1-S-PNP	0301162	
Programmable magnetic switch MMS 22-PI1 with lateral connection		
MMS 22-PI1-S-M8-PNP-SA	0301166	●
MMSK 22-PI1-S-PNP-SA	0301168	
Programmable magnetic switch MMS 22-PI1 with stainless steel housing		
MMS 22-PI1-S-M8-PNP-HD	0301110	●
MMSK 22-PI1-S-PNP-HD	0301112	

ⓘ Two sensors (closer/S) are required for each unit and extension cables are available as an option. For sensor cables, note the minimum permissible bending radii. These are generally 35 mm.

Programmable magnetic switch MMS 22-PI2



17 Cable outlet
90 MMS 22...-PI2-... sensor

Position monitoring with two programmable positions per sensor and electronics built into the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) 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.

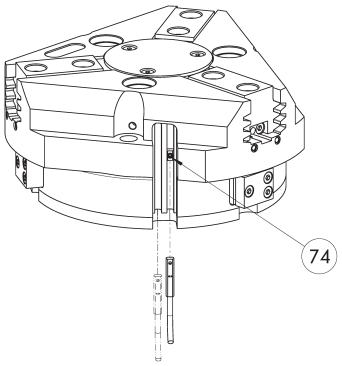
Description	ID	Often combined
Programmable magnetic switch MMS 22-PI2		
MMS 22-PI2-S-M8-PNP	0301180	●
MMSK 22-PI2-S-PNP	0301182	
Programmable magnetic switch MMS 22-PI2 with stainless steel housing		
MMS 22-PI2-S-M8-PNP-HD	0301130	●
MMSK 22-PI2-S-PNP-HD	0301132	

ⓘ Per unit one sensor (closer/S) is required, optionally a cable extension. For sensor cables, note the minimum permissible bending radii. These are generally 35 mm.

PZN-plus 125

Universal gripper

Programmable magnetic switches MMS-P



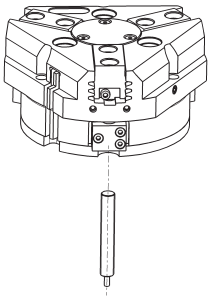
74 Limit stop for sensor

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

Description	ID	Often combined
Programmable magnetic switches MMS-P		
MMSK-P 22-S-PNP	0301371	
MMS-P 22-S-M8-PNP	0301370	●
clip for plug/socket		
CLI-M8	0301463	
Connection cables		
KA BG08-L 4P-0500	0307767	●
KA BG08-L 4P-1000	0307768	
KA BW08-L 4P-0500	0307765	
KA BW08-L 4P-1000	0307766	
Sensor distributor		
V2-M8-4P-2XM8-3P	0301380	

ⓘ Per unit one sensor (closer/S) is required, optionally a cable extension. For sensor cables, note the minimum permissible bending radii. These are generally 35 mm.

APS-Z80 analog position sensor

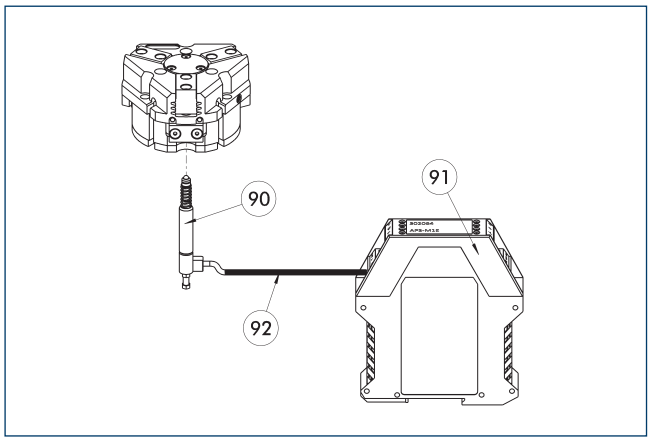


No-contact measuring, analog multi-position monitoring for any number of positions.

Description	ID	Often combined
Mounting kit for APS-Z80		
AS-APS-Z80-PGZN-plus 125-1	0302111	
AS-APS-Z80-PGZN-plus 125-2	0302112	
Sensor		
APS-Z80-K	0302072	
APS-Z80-M8	0302070	●

ⓘ When using an APS system, one attachment kit (AS-APS-Z80) and one APS-Z80 sensor are required per gripper.

APS-M1 analog position sensor



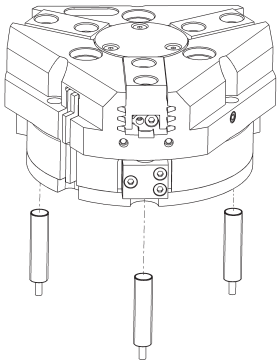
(90) APS-M1S sensor
(91) APS-M1E electronic processor
(92) APS-K extension cable

Analog multi position monitoring for any desired positions

Description	ID	
Mounting kit for APS-M1		
AS-APS-M1-PGZN-plus 125-1	0302081	
AS-APS-M1-PGZN-plus 125-2	0302082	
Sensor		
APS-M1S	0302062	

ⓘ When using an APS system, for each gripper an attachment kit (AS-APS-M1), an APS-M1S sensor (incl. 3 m cable) as well as an electronics (APS-M1e) are required. An extension cable (APS-K) can be connected between the sensor and the electronics as an option. The max. cable length between the sensor and the electronics is 10 m, between the electronics and their control unit (PLC) it is max. 1 m.

Cylindrical reed switches



End position monitoring can be mounted with an attachment kit.

Description	ID	
Attachment kit for proximity switch		
AS-RMS 80 PGN/PZN-plus 100/125	0377726	
Reed Switches		
RMS 80-S-M8	0377721	

ⓘ Two sensors (closer/S) are required for each unit and extension cables are available as an option. This attachment kit needs to be ordered optionally as an accessory. Two mounting kits are required for each gripper. For sensor cables, note the minimum permissible bending radii. These are generally 35 mm.

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