



Hand in hand for tomorrow



Product data sheet

Compensation unit XYZ AGE-S

Modular. Precise. Robust.

Compensation unit AGE-S-XYZ

Compensation unit compensating in XY- and Z-direction

Field of application

Palletizing, joining, and assembly of workpieces



Advantages – Your benefits

ISO mounting pattern for easy assembly to most types of robots without needing additional adapter plates

Three compensation directions in one unit compact design for minimum installation height

Central locking for fixing the unit rigidly in a defined, centric position

Pneumatic position storage for eccentric locking in a deflected position



Sizes
Quantity: 4



Handling weight
9 .. 160 kg



Compensation XY
 $\pm 4 \dots 12$ mm

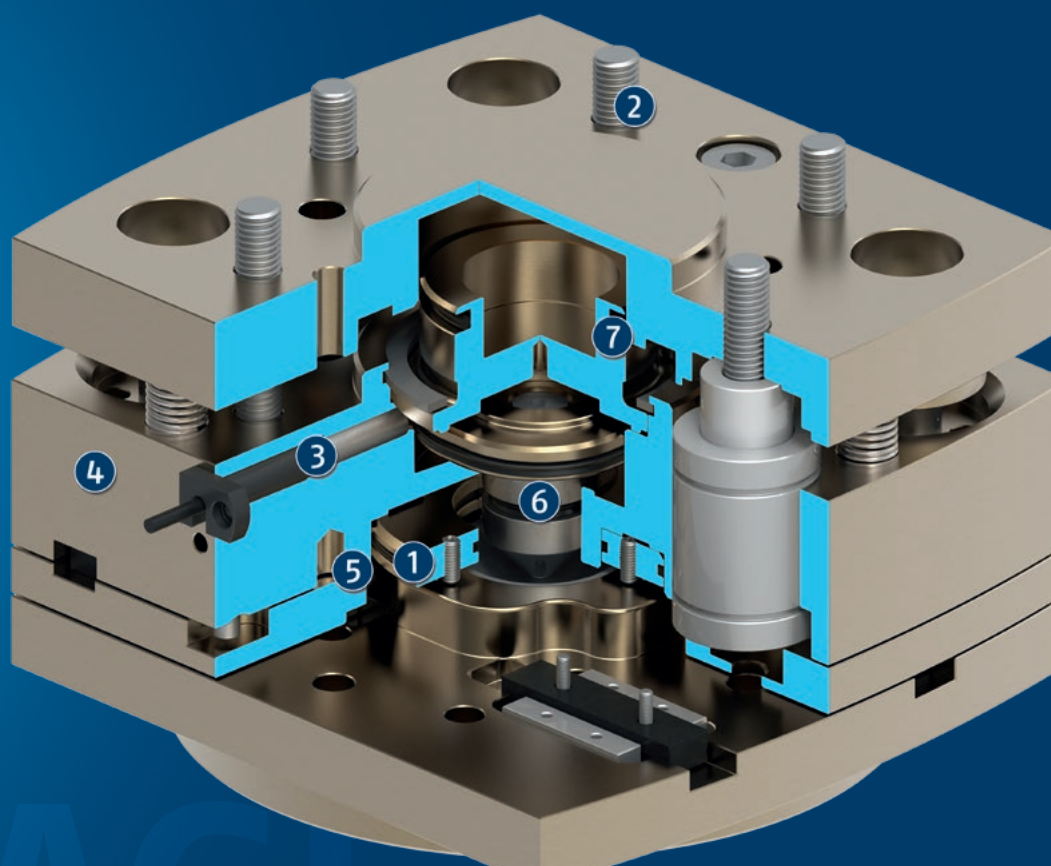


Compensation Z
10 .. 14 mm

Functional description

The compensation unit AGE-S extends the AGE series (AGE-XY/AGE-Z/AGE-F) for the medium and heavy load range, and provides perfect compensation in all automation tasks. Robust and high-precision linear guidances with excellent guiding stability permit maximum handling

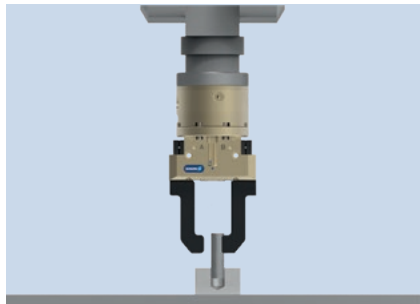
weights at maximum compensation paths. During handling in XY- as well as Z-direction, the unit can be made rigid using the integrated pneumatic lock and eccentrically locked using the position memory in XY-direction.



- ① **Position memory**
pneumatically actuated locking in any eccentric position via frictional connection
- ② **Direct assembly**
by using a standardized ISO 9409 interface for robots
- ③ **Monitoring**
Stroke monitoring of the locking piston with electronic magnetic switch
- ④ **Housing**
is weight-optimized due to the use of high-strength aluminum alloy
- ⑤ **Compensation body**
For compensating positioning errors in the XY-plane
- ⑥ **Central locking**
pneumatically actuated locking in centric position via form-fit locking
- ⑦ **Locking in Z-direction**
pneumatically driven locking of the Z-compensation in end position (extended)

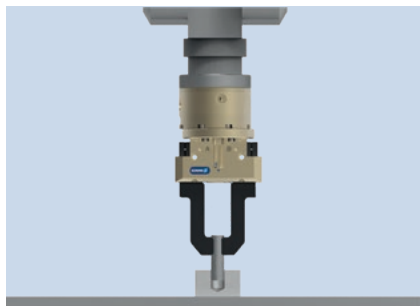
Detailed functional description

Workpiece removal: AGE unlocked – gripper opened



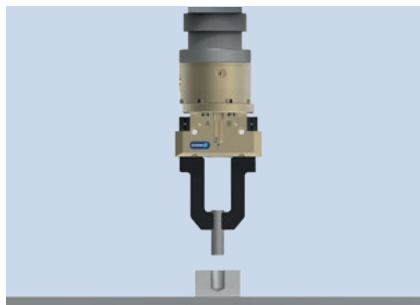
The robot travels towards the workpiece with a gripping unit consisting of an AGE (compensation unit) and gripper. There is an offset due to tolerances/inaccuracies.

Workpiece removal: AGE unlocked – gripper closed



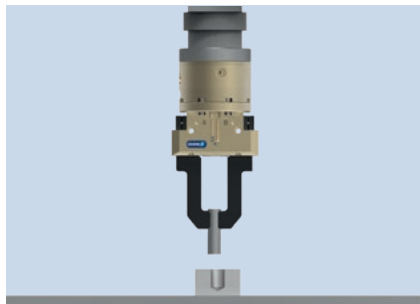
An unlocked AGE can be used to compensate the existing axial offset between the gripper and workpiece axes.

Workpiece removal: AGE locked (position memory) – gripper closed



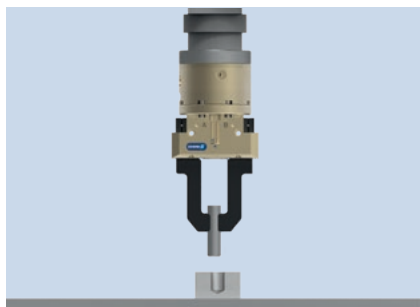
The robot removes the workpiece. The deflected position of the AGE can be locked via the integrated position memory.

Workpiece removal: AGE centrally locked – gripper closed



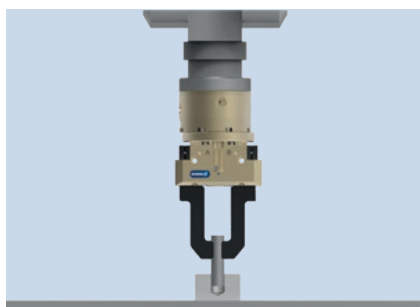
The position memory of the AGE is unlocked and the centered AGE lock is activated. That renders the original axis offset, as the gripper and robot axis are now centered relative to one another.

Workpiece mounting: AGE centrically locked – gripper closed



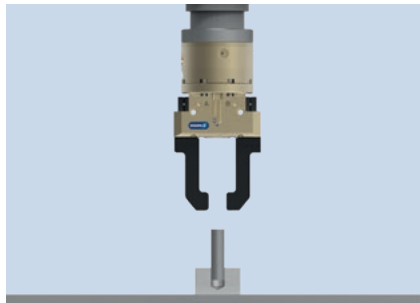
The robot travels towards the workpiece with a gripping unit consisting of an AGE (compensation unit) and gripper. There is an offset due to tolerances/inaccuracies.

Workpiece mounting: AGE unlocked – gripper closed



An unlocked AGE can be used to compensate the existing axial offset between the gripper and workpiece axes and the workpiece can be joined.

Workpiece mounting: AGE unlocked – gripper opened



The robot moves away from the center of compliance with the gripper unit, the unit is then centrically locked, and the gripper is closed.

General notes about the series

Guidance system: robust linear guidances

Monitoring: XY locking and unlocking via a magnetic switch and Z-stroke via inductive proximity switch

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

Housing: The housing consists of high-strength, hard-coated aluminum alloy. The functional components are made of hardened steel.

Scope of delivery: Compensation unit in the ordered variant, elements for mechanical connection and safety information. Product-specific instructions can be downloaded at schunk.com/downloads-manuals.

Warranty: 24 months

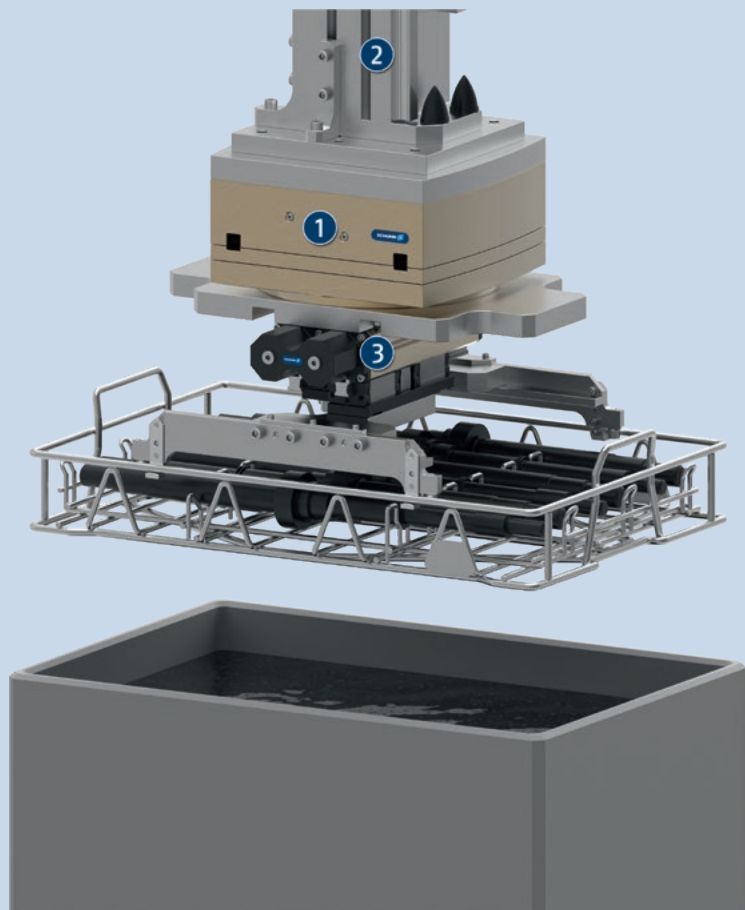
Harsh environmental conditions: Please note that use under harsh environmental conditions (e.g. in the coolant area, cast and grinding dust) can considerably reduce the service life of the units, and we will not take over any warranty. However, in many cases we can find a solution. Please contact us for assistance.

Handling weight: is the weight of the total load attached to the flange. When designing, the permissible forces and moments have to be paid attention to. Please note that exceeding the recommended handling weight will shorten the lifespan.

Application example

Picking and placing components in an undefined position, using the compensation unit and a long-stroke gripper.

- ❶ Compensation unit AGE-S-XY
- ❷ Linear Module Gamma 90
- ❸ 2-finger long-stroke gripper PHL



SCHUNK offers more ...

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



Tool changer



Anti-collision and overload protection sensor



Universal gripper



Universal gripper



Magnetic switches



Inductive proximity switch



Magnetic gripper

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

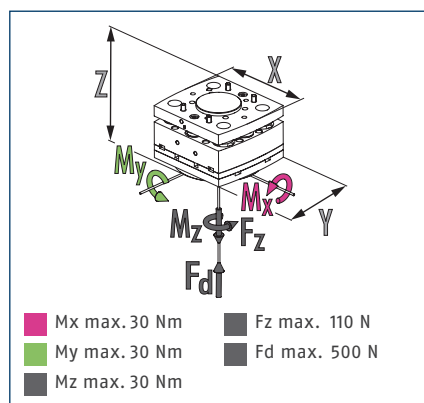
Food-grade lubrication: The product contains food-compliant lubricants as standard. The requirements of EN 1672-2:2020 are not fully met. The relevant NSF certificates are available at <https://info.nsf.org/USDA/Listings.asp> using the lubricant information in the operating manual.

AGE-S 100

Compensation unit XYZ



Dimensions and maximum loads



ⓘ This is the max. total of all moments and loads (acceleration forces and torques, process forces etc.), which can affect a compensation unit, in order to ensure error-free function.

Technical data

Description		AGE-S-XYZ-100-0	AGE-S-XYZ-100-P	AGE-S-XY-100-0	AGE-S-XY-100-P	AGE-S-Z-100-0
ID		0324502	0324504	0324500	0324503	0324501
Compensation XY	[mm]	±4	±4	±4	±4	
Compensation Z	[mm]	10	10			10
Recommended handling weight, vertical	[kg]	9	9	9	9	9
Recommended handling weight, horizontal	[kg]	5.5	5.5	5.5	5.5	5.5
Locking force	[N]	800	800	800	800	
Position memory piston force	[N]		1100		1100	
Max. radial force, position storage	[N]		126		126	
Piston force Z	[N]	800	800			800
Min. spring force	[N]	240	240			240
Min./nom./max. operating pressure	[bar]	2.5/6/8	2.5/6/8	2.5/6/8	2.5/6/8	2.5/6/8
Repeat accuracy	[mm]	0.1	0.1	0.1	0.1	0.1
Robot-side connection		ISO 9409-1-100-6-M8	ISO 9409-1-100-6-M8	ISO 9409-1-100-6-M8	ISO 9409-1-100-6-M8	ISO 9409-1-100-6-M8
Tool-side connection		ISO 9409-1-100-6-M8	ISO 9409-1-100-6-M8	ISO 9409-1-100-6-M8	ISO 9409-1-100-6-M8	ISO 9409-1-100-6-M8
Weight	[kg]	3.6	3.6	2.6	2.6	3.2
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60
Dimensions X x Y x Z	[mm]	142 x 125 x 85.5	142 x 125 x 85.5	142 x 125 x 59	142 x 125 x 59	142 x 125 x 79

Technical drawing of a mechanical assembly, showing three views: front view (top left), side view (top right), and top view (bottom).

Front View (Top Left): Shows a circular flange with 12 holes (6x60°) and a central hole (Ø100). Dimensions include 50±0.02 and M8/12 (6x). Callouts include 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Side View (Top Right): Shows the assembly with dimensions 85.5, 34, 12, 14.5, 14.5, 41, 72.5, and 56 M8 (6x). Callouts include 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Top View (Bottom): Shows the assembly with dimensions 125, 142, 25±0.02, 43.3±0.02, and 6x60°. Callouts include 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

A, a Air connection unlocked
B, b Air connection locked
C, c Air connection position
memory XY
D, d Air connection locked Z

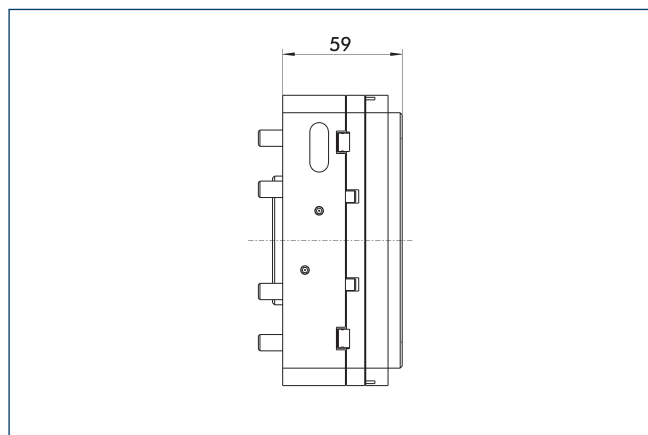
① Robot-side connection
② Tool-side connection

- ③③ DIN ISO-9409 bolt circle
- ⑤⑥ Included in the scope of delivery
- ⑦③ Fit for centering pins
- ⑦⑧ Fit for centering
- ⑨⑩ Sensor IN ...
- ⑨① MMS-K 65

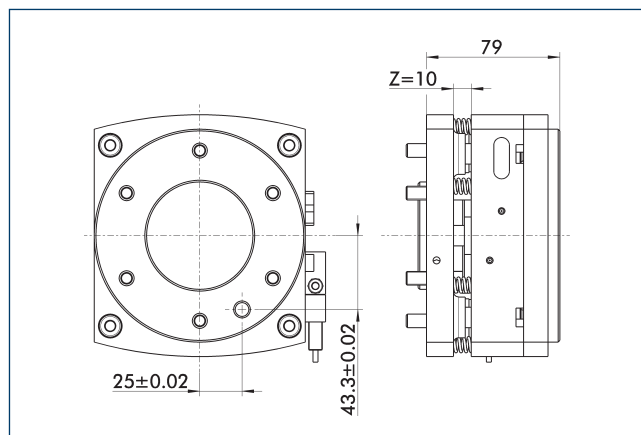
AGE-S 100

Compensation unit XYZ

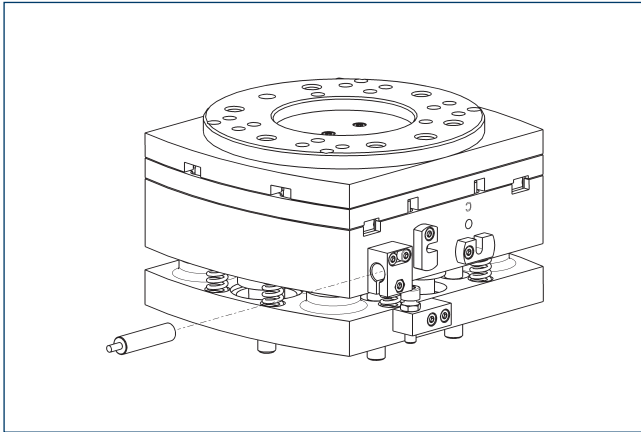
Dimensional change AGE-S-100-XY



Dimensional change AGE-S-100-Z



Sensor systems for Z-stroke

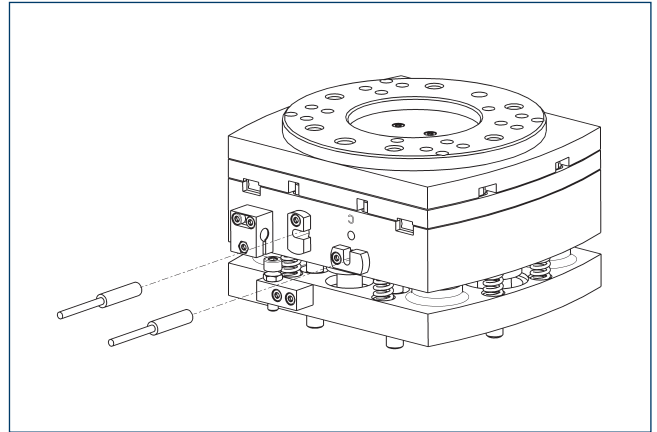


Can be directly mounted for Z-stroke or end position monitoring

Description	ID	Often combined
Inductive proximity switch		
IN 80-S-M12	0301578	
IN 80-S-M8	0301478	
INK 80-S	0301550	
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	
Clip for connector/socket		
CLI-M12	0301464	
CLI-M8	0301463	
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	
Sensor distributor		
V2-M12	0301776	●
V2-M8	0301775	●
V4-M8	0301746	
V8-M8	0301751	

① Per unit one sensor (closer/S) is required, optionally a cable extension.

Sensor systems for centric locking



Sensor monitoring of the locking device

Description	ID	
Electronic magnetic switch		
MMSK 65-S-PNP	0301423	

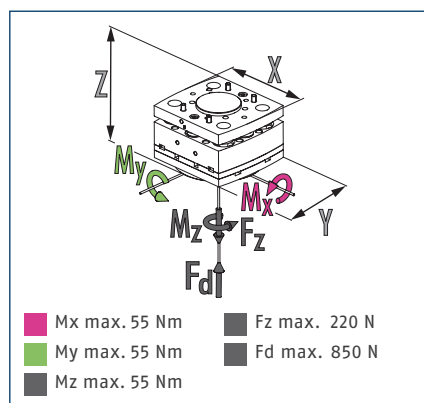
① Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

AGE-S 125

Compensation unit XYZ



Dimensions and maximum loads

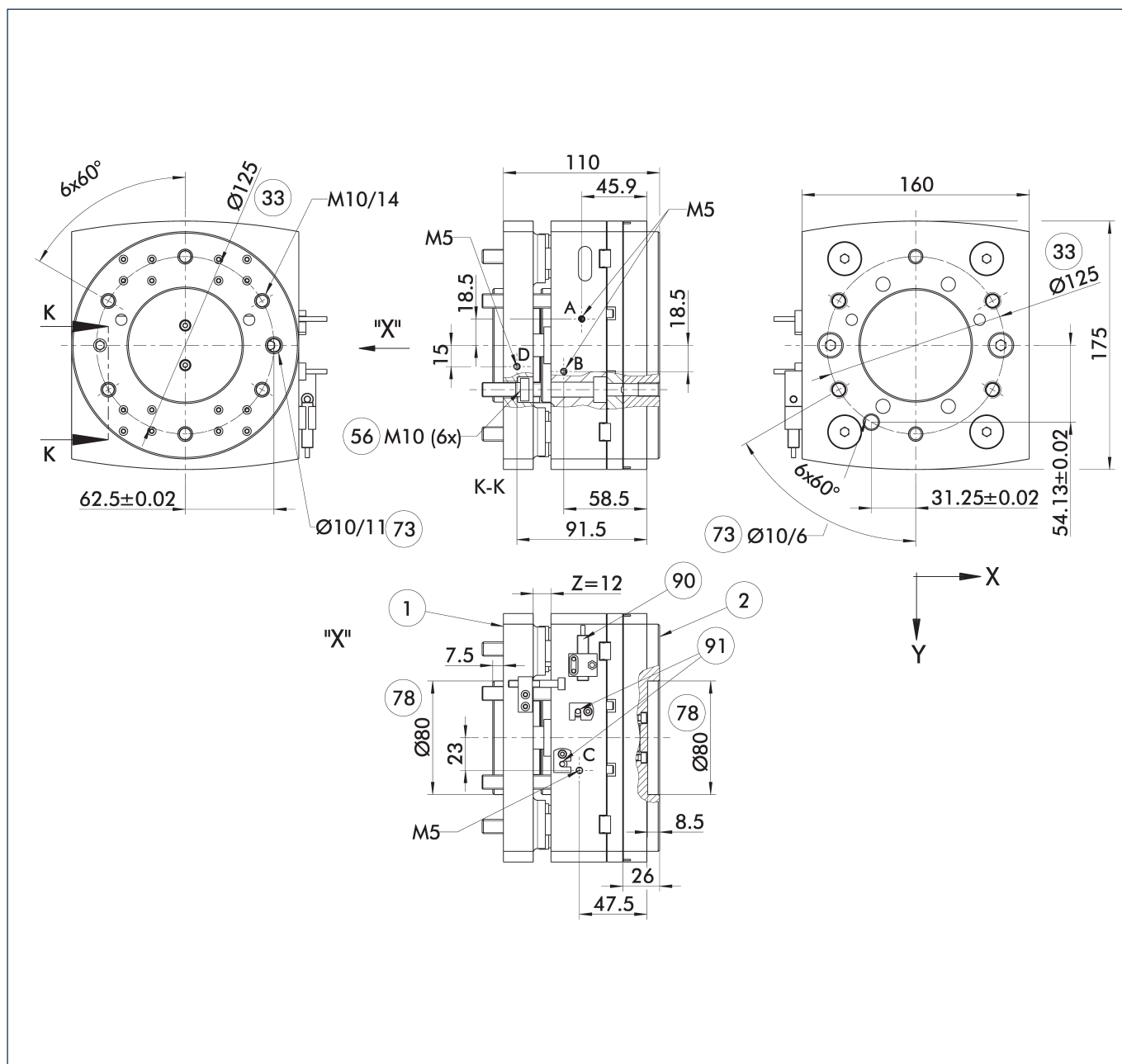


ⓘ This is the max. total of all moments and loads (acceleration forces and torques, process forces etc.), which can affect a compensation unit, in order to ensure error-free function.

Technical data

Description		AGE-S-XYZ-125-0	AGE-S-XYZ-125-P	AGE-S-XY-125-0	AGE-S-XY-125-P	AGE-S-Z-125-0
ID		0324527	0324529	0324525	0324528	0324526
Compensation XY	[mm]	±7	±7	±7	±7	
Compensation Z	[mm]	12	12			12
Recommended handling weight, vertical	[kg]	18	18	18	18	18
Recommended handling weight, horizontal	[kg]	11	11	11	11	11
Locking force	[N]	1100	1100	1100	1100	
Position memory piston force	[N]		1700		1700	
Max. radial force, position storage	[N]		198		198	
Piston force Z	[N]	1200	1200			1200
Min. spring force	[N]	360	360	0	0	360
Min./nom./max. operating pressure	[bar]	2.5/6/8	2.5/6/8	2.5/6/8	2.5/6/8	2.5/6/8
Repeat accuracy	[mm]	0.1	0.1	0.1	0.1	0.1
Robot-side connection		ISO 9409-1-125-6-M10	ISO 9409-1-125-6-M10	ISO 9409-1-125-6-M10	ISO 9409-1-125-6-M10	ISO 9409-1-125-6-M10
Tool-side connection		ISO 9409-1-125-6-M10	ISO 9409-1-125-6-M10	ISO 9409-1-125-6-M10	ISO 9409-1-125-6-M10	ISO 9409-1-125-6-M10
Weight	[kg]	7.4	7.4	5.3	5.3	6
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60
Dimensions X x Y x Z	[mm]	175 x 160 x 110	175 x 160 x 110	175 x 160 x 76.5	175 x 160 x 76.5	175 x 160 x 96.5

Main view



The main view shows the product with proximity switch. It is optional.

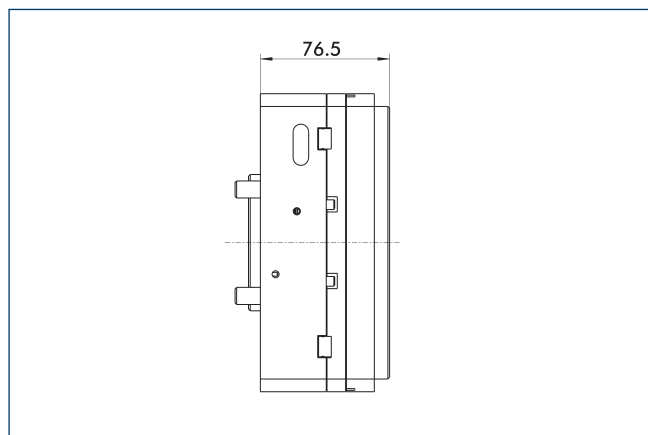
- A, a Air connection unlocked
- B, b Air connection locked
- C, c Air connection position memory XY
- D, d Air connection locked Z
- ① Robot-side connection
- ② Tool-side connection

- ③③ DIN ISO-9409 bolt circle
- ⑤⑥ Included in the scope of delivery
- ⑦③ Fit for centering pins
- ⑦⑧ Fit for centering
- ⑨⑩ Sensor IN ...
- ⑨① MMS-K 65

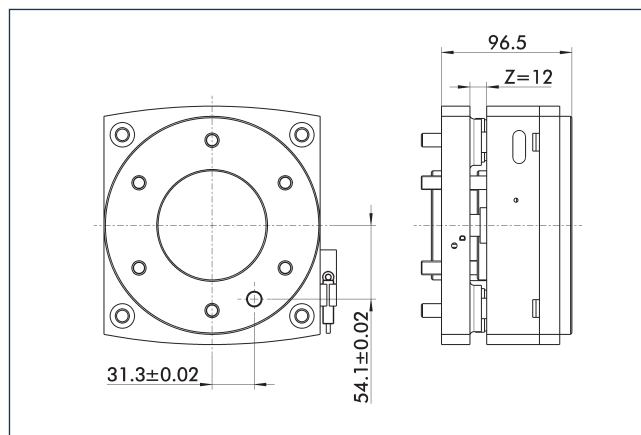
AGE-S 125

Compensation unit XYZ

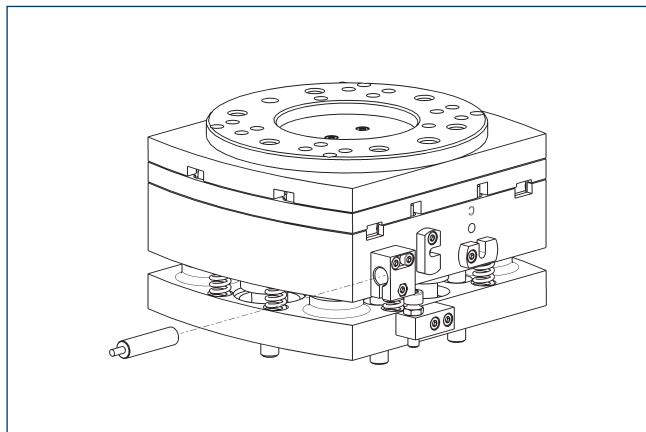
Dimensional change AGE-S-125-XY



Dimensional change AGE-S-125-Z



Sensor systems for Z-stroke

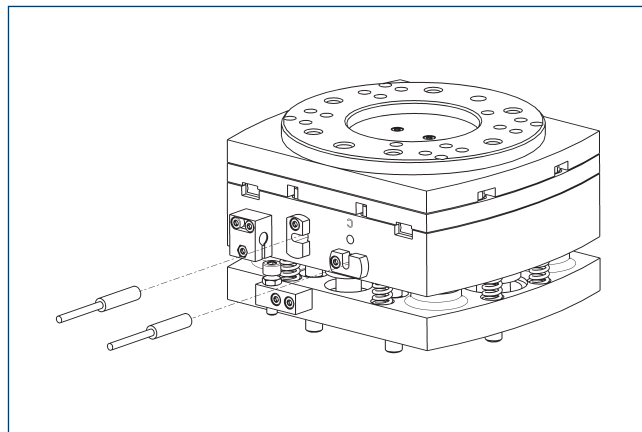


Can be directly mounted for Z-stroke or end position monitoring

Description	ID	Often combined
Inductive proximity switch		
IN 80-S-M12	0301578	
IN 80-S-M8	0301478	
INK 80-S	0301550	
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	
Clip for connector/socket		
CLI-M12	0301464	
CLI-M8	0301463	
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	
Sensor distributor		
V2-M12	0301776	●
V2-M8	0301775	●
V4-M8	0301746	
V8-M8	0301751	

① Per unit one sensor (closer/S) is required, optionally a cable extension.

Sensor systems for centric locking



Sensor monitoring of the locking device

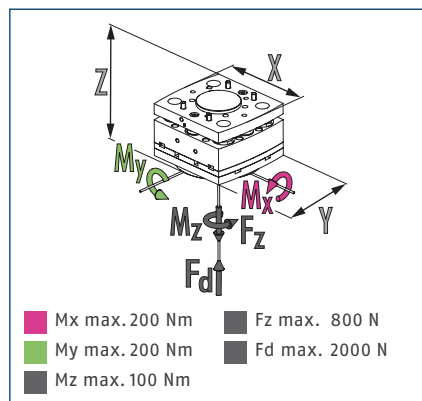
Description	ID	
Electronic magnetic switch		
MMSK 65-S-PNP	0301423	

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.

AGE-S 160

Compensation unit XYZ

Dimensions and maximum loads

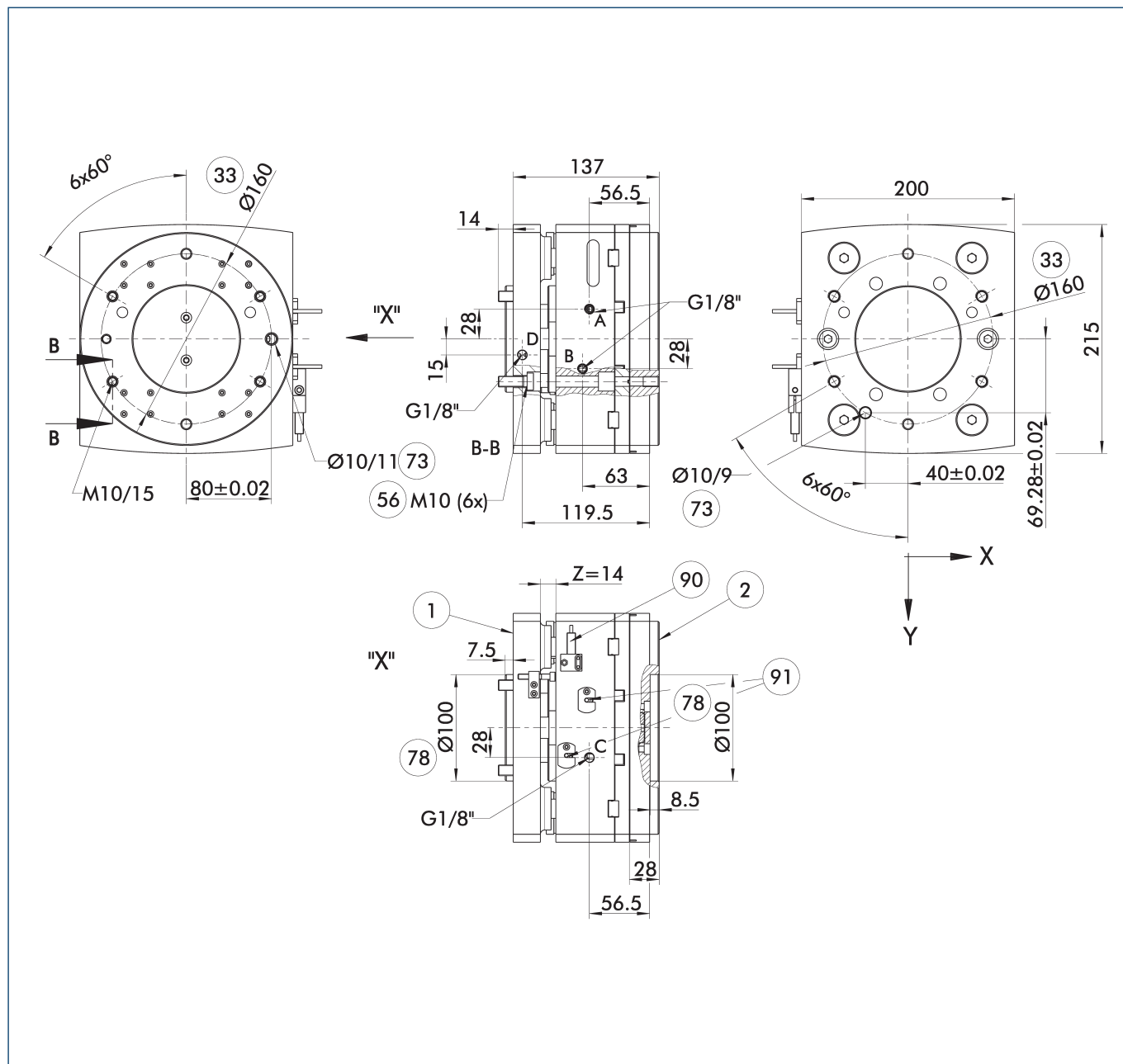


ⓘ This is the max. total of all moments and loads (acceleration forces and torques, process forces etc.), which can affect a compensation unit, in order to ensure error-free function.

Technical data

Description		AGE-S-XYZ-160-0	AGE-S-XYZ-160-P	AGE-S-XY-160-0	AGE-S-XY-160-P	AGE-S-Z-160-0
ID		0324562	0324564	0324560	0324563	0324561
Compensation XY	[mm]	±10	±10	±10	±10	
Compensation Z	[mm]	14	14			14
Recommended handling weight, vertical	[kg]	60	60	60	60	60
Recommended handling weight, horizontal	[kg]	40	40	40	40	40
Locking force	[N]	1800	1800	1800	1800	
Position memory piston force	[N]		2900		2900	
Max. radial force, position storage	[N]		309		309	
Piston force Z	[N]	1900	1900			1900
Min. spring force	[N]	640	640			640
Min./nom./max. operating pressure	[bar]	2.5/6/8	2.5/6/8	2.5/6/8	2.5/6/8	2.5/6/8
Repeat accuracy	[mm]	0.1	0.1	0.1	0.1	0.1
Robot-side connection		ISO 9409-1-160-6-M10	ISO 9409-1-160-6-M10	ISO 9409-1-160-6-M10	ISO 9409-1-160-6-M10	ISO 9409-1-160-6-M10
Tool-side connection		ISO 9409-1-160-6-M10	ISO 9409-1-160-6-M10	ISO 9409-1-160-6-M10	ISO 9409-1-160-6-M10	ISO 9409-1-160-6-M10
Weight	[kg]	14.5	14.5	10.5	10.5	11.8
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60
Dimensions X x Y x Z	[mm]	215 x 200 x 137	215 x 200 x 137	215 x 200 x 97	215 x 200 x 97	215 x 200 x 123

Main view



The main view shows the product with proximity switch. It is optional.

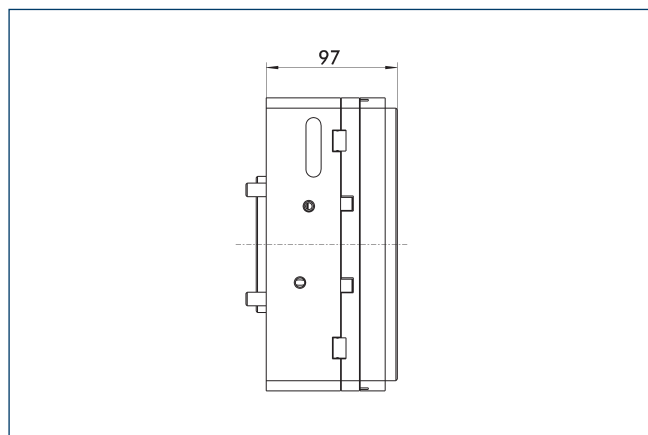
- A, a Air connection unlocked
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- C, c Air connection position memory XY
- D, d Air connection locked Z
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- ③③ DIN ISO-9409 bolt circle
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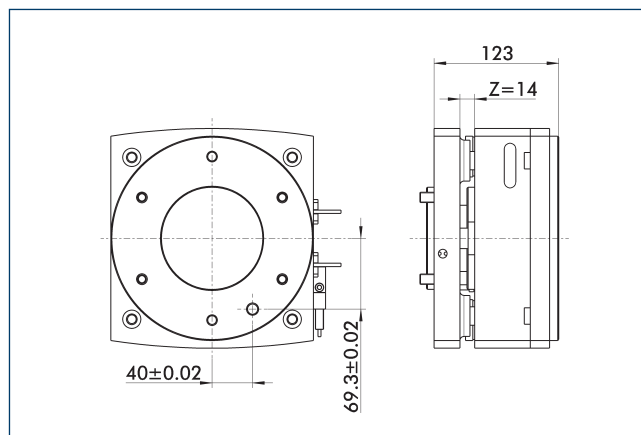
AGE-S 160

Compensation unit XYZ

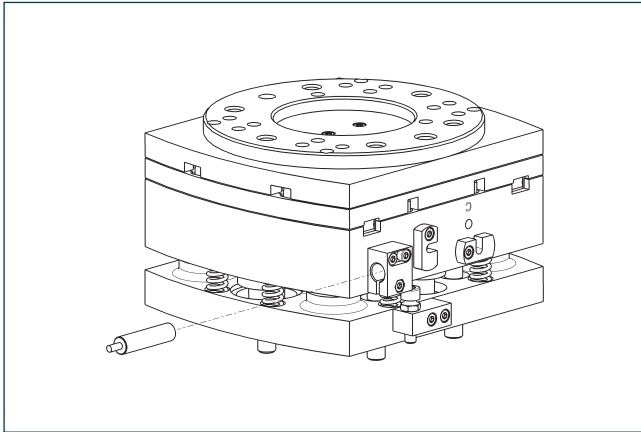
Dimensional change AGE-S-160-XY



Dimensional change AGE-S-160-Z



Sensor systems for Z-stroke

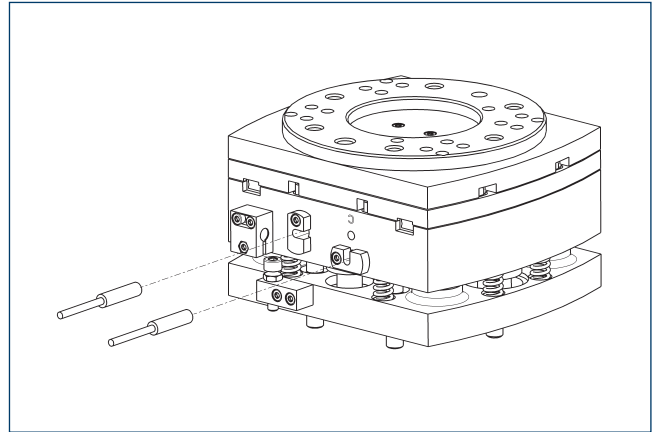


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KA BW12-L 3P-0500-PNP	0301507	
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CLI-M8	0301463	
Cable extension		
KV BG12-SG12 3P-0030-PNP	0301999	
KV BG12-SG12 3P-0060-PNP	0301998	
KV BW08-SG08 3P-0030-PNP	0301495	
KV BW08-SG08 3P-0100-PNP	0301496	
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	
Sensor distributor		
V2-M12	0301776	●
V2-M8	0301775	●
V4-M8	0301746	
V8-M8	0301751	

① Per unit one sensor (closer/S) is required, optionally a cable extension.

Sensor systems for centric locking



Sensor monitoring of the locking device

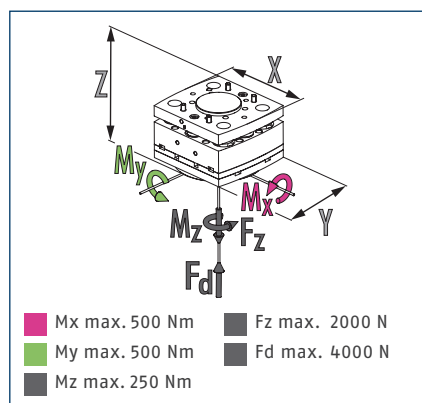
Description	ID	
Electronic magnetic switch		
MMSK 65-S-PNP	0301423	

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.

AGE-S 200

Compensation unit XYZ

Dimensions and maximum loads



ⓘ This is the max. total of all moments and loads (acceleration forces and torques, process forces etc.), which can affect a compensation unit, in order to ensure error-free function.

Technical data

Description		AGE-S-XYZ-200-0	AGE-S-XYZ-200-P	AGE-S-XY-200-0	AGE-S-XY-200-P	AGE-S-Z-200-0
ID		0324602	0324604	0324600	0324603	0324601
Compensation XY	[mm]	±12	±12	±12	±12	
Compensation Z	[mm]	14	14			14
Recommended handling weight, vertical	[kg]	160	160	160	160	160
Recommended handling weight, horizontal	[kg]	100	100	100	100	100
Locking force	[N]	2700	2700	2700	2700	
Position memory piston force	[N]		4500		4500	
Max. radial force, position storage	[N]		492		492	
Piston force Z	[N]	3000	3000			3000
Min. spring force	[N]	1100	1100			1100
Min./nom./max. operating pressure	[bar]	2.5/6/8	2.5/6/8	2.5/6/8	2.5/6/8	2.5/6/8
Repeat accuracy	[mm]	0.1	0.1	0.1	0.1	0.1
Robot-side connection		ISO 9409-1-200-6-M12	ISO 9409-1-200-6-M12	ISO 9409-1-200-6-M12	ISO 9409-1-200-6-M12	ISO 9409-1-200-6-M12
Tool-side connection		ISO 9409-1-200-6-M12	ISO 9409-1-200-6-M12	ISO 9409-1-200-6-M12	ISO 9409-1-200-6-M12	ISO 9409-1-200-6-M12
Weight	[kg]	29.5	29.5	21	21	23.5
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60
Dimensions X x Y x Z	[mm]	270 x 250 x 166.5	270 x 250 x 166.5	270 x 250 x 118	270 x 250 x 118	270 x 250 x 146

A, a Air connection unlocked
B, b Air connection locked
C, c Air connection position
memory XY
D, d Air connection locked Z

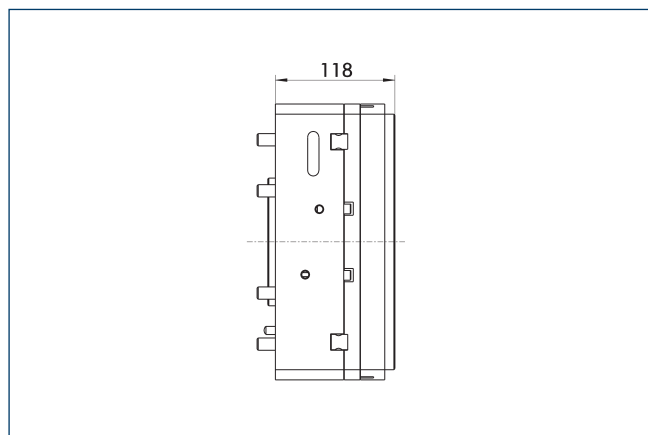
① Robot-side connection
② Tool-side connection

- ③③ DIN ISO-9409 bolt circle
- ⑤⑥ Included in the scope of delivery
- ⑦③ Fit for centering pins
- ⑦⑧ Fit for centering
- ⑨⑩ Sensor IN ...
- ⑨① MMS-K 65

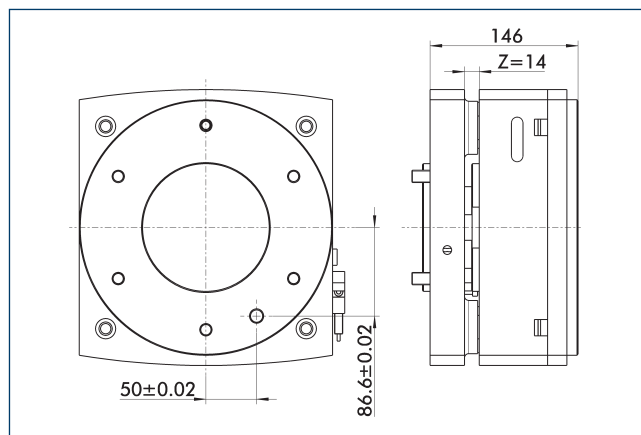
AGE-S 200

Compensation unit XYZ

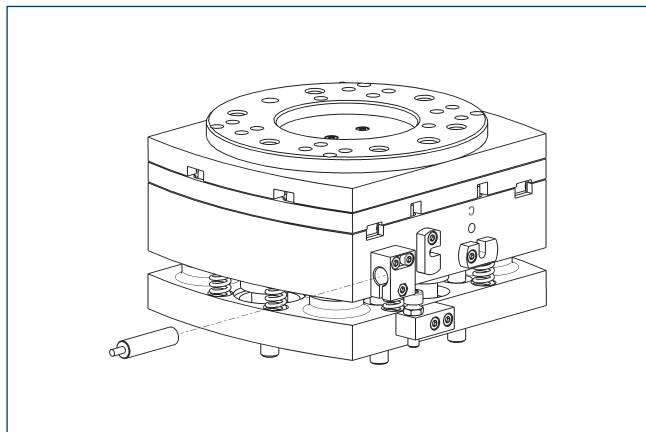
Dimensional change AGE-S-200-XY



Dimensional change AGE-S-200-Z



Sensor systems for Z-stroke

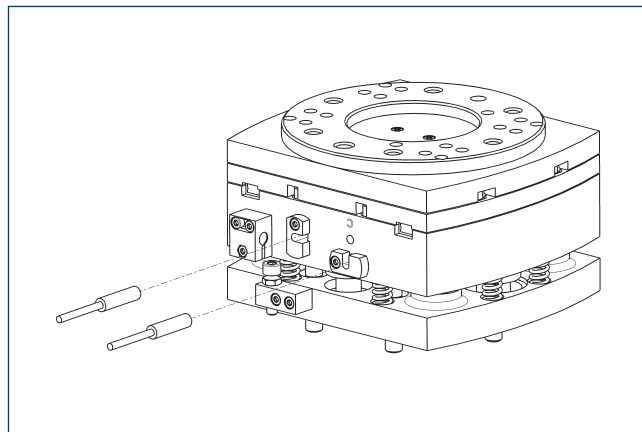


Can be directly mounted for Z-stroke or end position monitoring

Description	ID	Often combined
Inductive proximity switch		
IN 80-S-M12	0301578	
IN 80-S-M8	0301478	
INK 80-S	0301550	
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	
Clip for connector/socket		
CLI-M12	0301464	
CLI-M8	0301463	
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	
Sensor distributor		
V2-M12	0301776	●
V2-M8	0301775	●
V4-M8	0301746	
V8-M8	0301751	

① Per unit one sensor (closer/S) is required, optionally a cable extension.

Sensor systems for centric locking



Sensor monitoring of the locking device

Description	ID	
Electronic magnetic switch		
MMSK 65-S-PNP	0301423	

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.



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