

Productive. Flexible. Modular.

A revolving head which allows for easy application of the „Collect & Place“ principle by being able to collect several workpieces before transferring them.

Field of application

To be used in clean to slightly dirty environments such as assembly or packaging areas, or wherever fast cycles are required.



Advantages – Your benefit

Collect & Place-principle made possible by the RVK, allows for lower cycle times and fewer transport strokes in a pick & place system.

Integrated valve technology allows for fewer valves to be required for operating the grippers.

The integrated electric feed-throughs allow all of the grippers to be continuously monitored leading to high process reliability.

The RVK can be easily mounted on the ERS 135, ERS 170 or the RST-D 087 from SCHUNK. Furthermore, it can be adapted to mount on other rotary units, such as another rotary module or a robot arm, as long as there is a through-bore available.

Standard adapter plates allow the use of various grippers as well as being able to externally or internally grip workpieces.

4 or 6 grippers can be mounted the RVK providing the highest process flexibility.



Angle of rotation
60 .. 90°



Weight
1.7 .. 2 kg



Number of grippers
4 .. 6



Air feed-through
2

Functional description

Via the integrated valve technology, the gripper which is in the active position can be independently activated to grip or release a single part. During this time the other grippers remain under pressure in the gripped position.

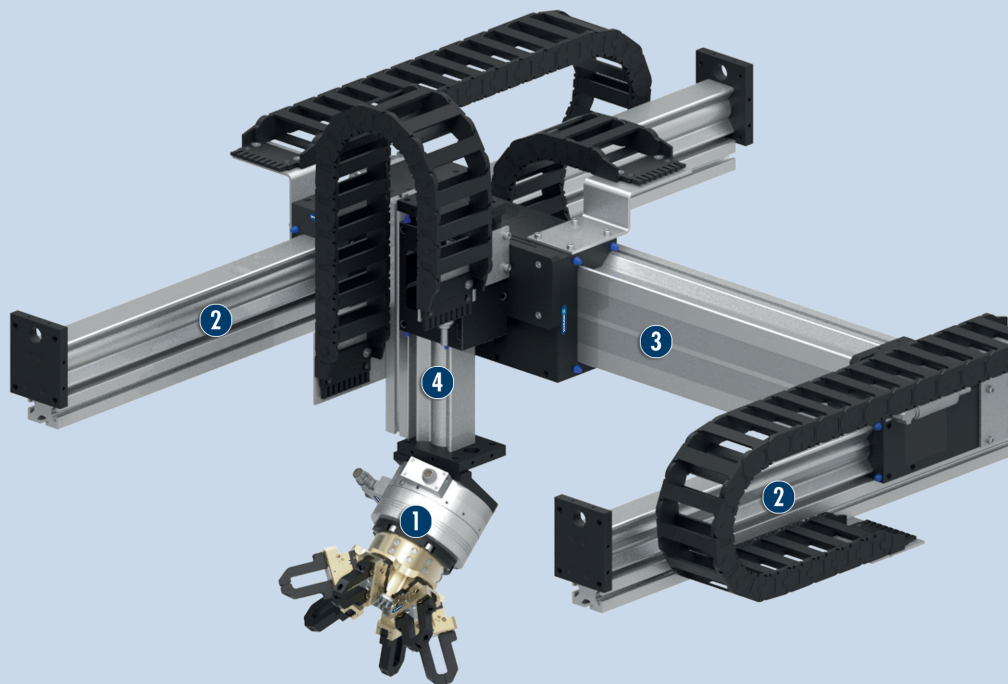
After the workpiece has been gripped or released by the active gripper, the gripper head can be rotated via the rotary module to bring the next gripper into the active position.



- ① **Active gripper position**
actuates independently from the other grippers
- ② **Actuation Piston**
extends the integrated inverter plungers to actuate the active gripper
- ③ **Passive gripper position**
supplied by the integrated air feed-through which maintains pressure on the passive grippers.
- ④ **Flexible gripper adaption**
Via the standard adapter plates, many different grippers can be utilized
- ⑤ **Electrical feed-through**
for feeding through sensor signals allowing all of the grippers to be continuously monitored.
- ⑥ **Robust bearing**
for supporting high loads on the rotary unit.

General notes about the series

Warranty: 24 months (details, general terms and conditions and operation manuals can be downloaded at www.schunk.com)

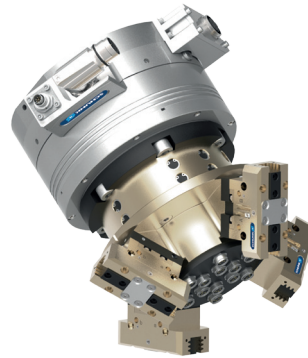


Application example

- ① Collection Gripper RVK
- ② Universal linear module LDN
- ③ Universal linear module LDM
- ④ Universal linear module LDN

SCHUNK offers more ...

The following components make the RVK even more productive – the perfect complement for highest functionality, flexibility and process reliability.



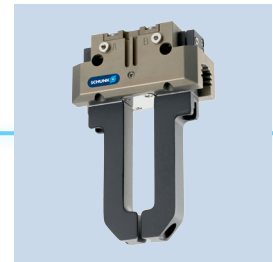
Centering sleeves



Fittings



Magnetic switch MMS



Universal Gripper PGN-plus



Universal angular gripper
PWG-plus



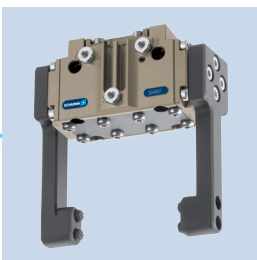
Compact Changing System
CWS



3-Finger Centric Gripper MPZ



Universal Gripper PZN-plus



Sealed Universal Gripper
DPG-plus



3-Finger Centric Gripper
DPZ-plus

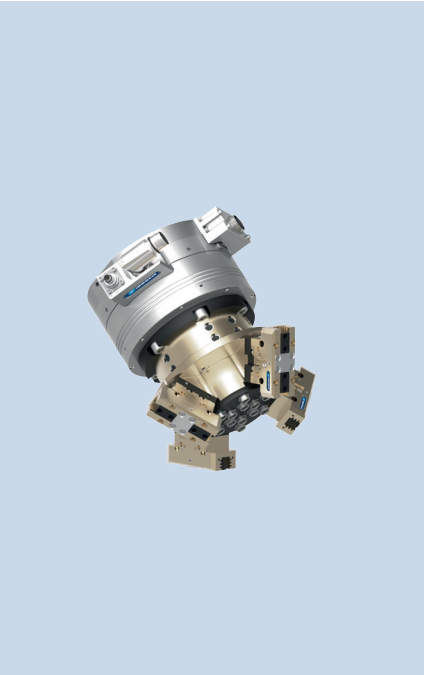
① Additional information regarding the products can be found on the following product pages or at www.schunk.com. Please contact us for further information: SCHUNK technical hotline +49 7133-103-2696

Options and special information

Independent operation: The gripper which is in the active position can be operated independently from the other grippers. The other grippers remain pressurized in the gripped state.

Additional air connection: In an E-Stop situation all of the workpieces can be easily removed from the grippers via an additional air connection.

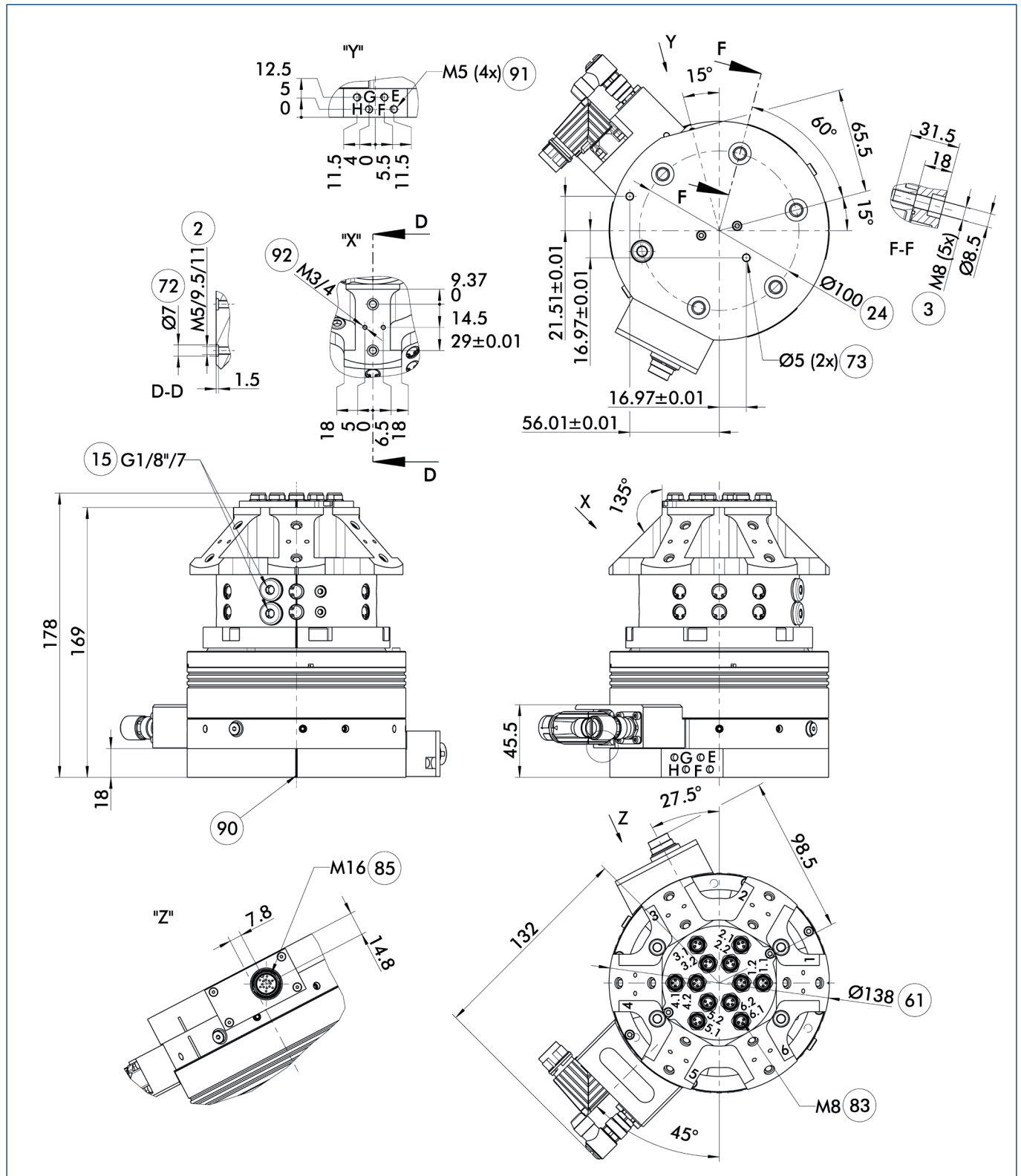
RVK 100-E



Technical data

Description		RVK 100-4-E-135-560-40-N	RVK 100-4-E-135-560-40-B	RVK 100-6-E-135-560-40-N	RVK 100-6-E-135-560-40-B
ID		0315605	0315606	0315615	0315616
Rotary type		electrical	electrical	electrical	electrical
Number of grippers		4	4	6	6
Angle of rotation	[°]	90	90	60	60
Weight	[kg]	1.7	1.7	1.7	1.7
IP class		40	40	40	40
Air consumption per double stroke of the activation cylinder	[cm³]	7	7	7	7
max. pressure in air feed-through	[bar]	8	8	8	8
min. / max. ambient temperature	[°C]	5/55	5/55	5/55	5/55
ERS 170 Version					
Description		RVK 100-4-E-170-560-40-N	RVK 100-4-E-170-560-40-B	RVK 100-6-E-170-560-40-N	RVK 100-6-E-170-560-40-B
ID		0315625	0315626	0315635	0315636
Weight	[kg]	2.0	2.0	2.0	2.0

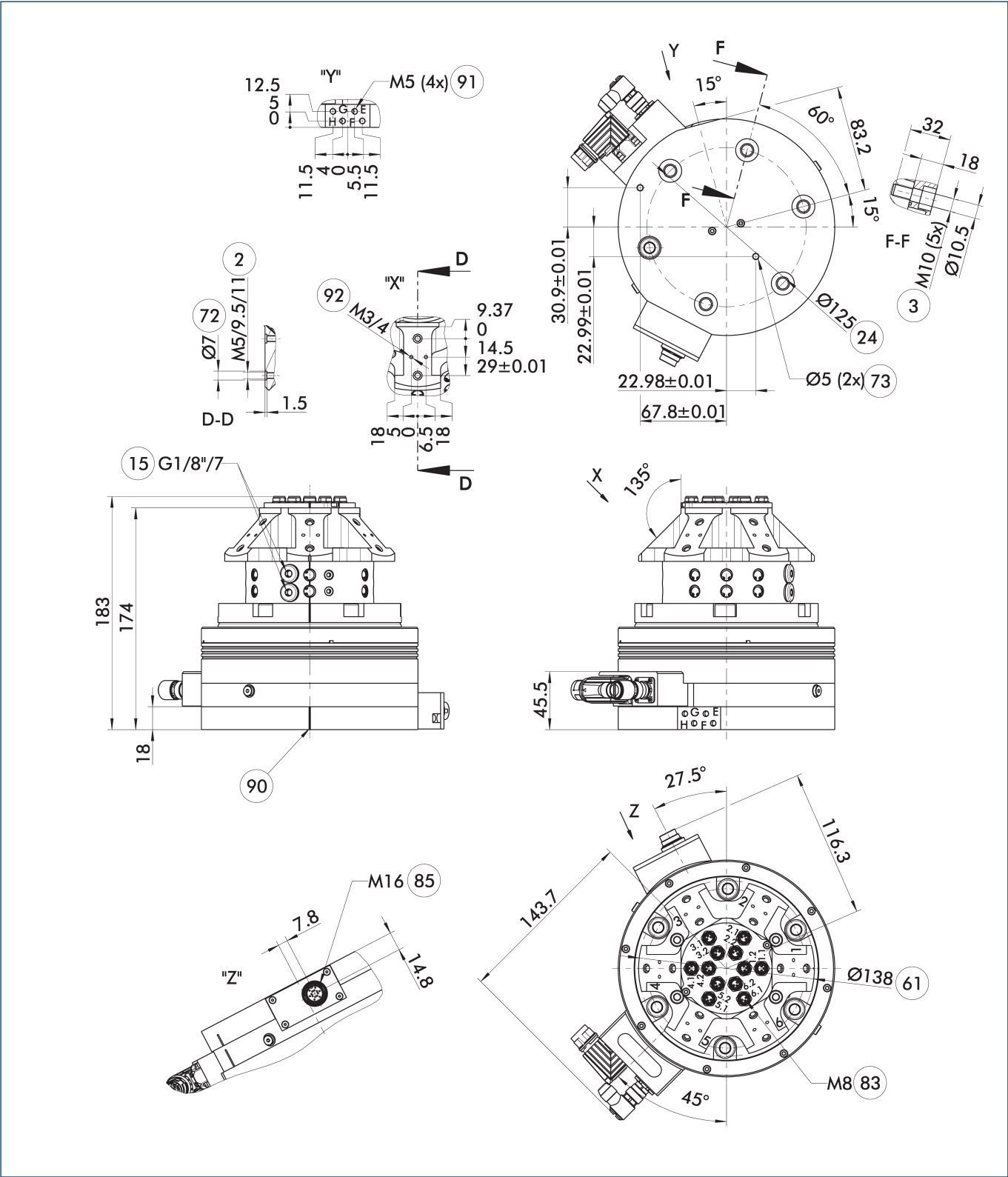
Main view with the ERS 135



The drawing shows the unit equipped for six grippers.

- | | |
|---|---|
| ② Attachment connection | ⑦③ Fit for centering pins |
| ③ Connection rotary module | ⑧③ Input for 3 pole sensor feed-through |
| ⑮ Air purge connection | ⑧⑤ Output sensor feed-through |
| ②④ Bolt circle | ⑨① Location of the active gripper |
| ⑥① Interfering contour during swiveling | ⑨① Main air connection |
| ⑦② Fit for centering sleeves | ⑨② Air connection for workpiece |

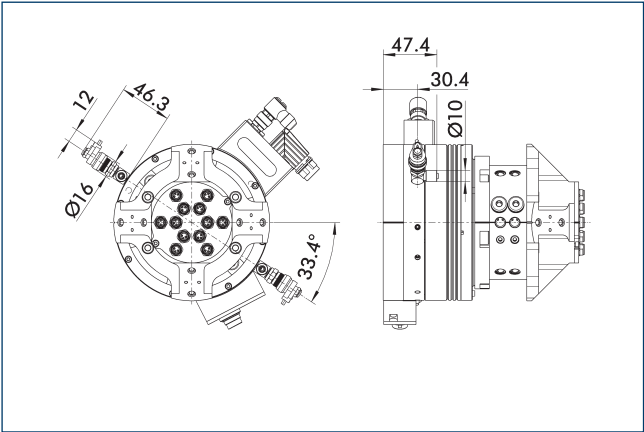
Main view with the ERS 170



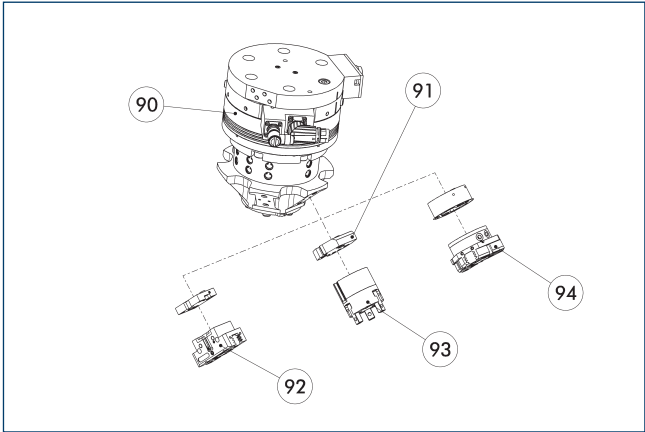
The drawing shows the unit equipped for six grippers.

- | | |
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| ② Attachment connection | ⑦③ Fit for centering pins |
| ③ Connection rotary module | ⑧③ Input for 3 pole sensor feed-through |
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| ②④ Bolt circle | ⑨⑦ Location of the active gripper |
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Version with a brake



Modular system



- 90 Rotation Unit

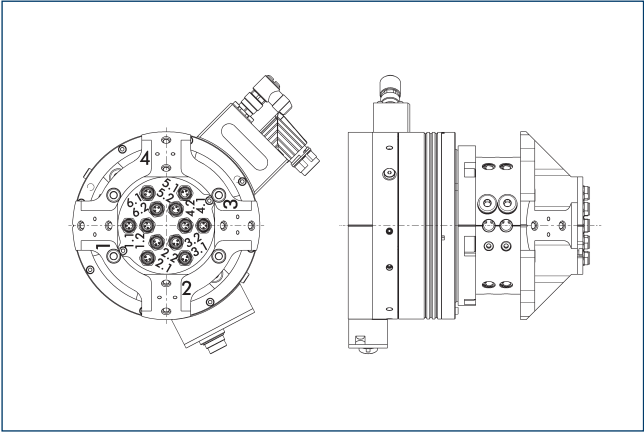
91 Standard Adapter plate

92 2-Finger Parallel Gripper PGN-plus
- 93 3-Finger Centric Gripper MPZ

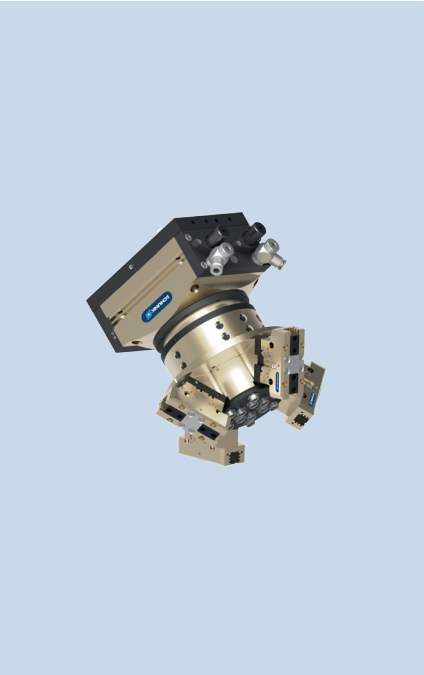
94 3-Finger Centric Gripper PZN-plus

Description	ID	
Adapter plate		
APL RVK100-PGN+40	0315660	
APL RVK100-PGN+50	0315661	
APL RVK100-PGN+64	0315662	
APL RVK100-PZN+40	0315665	
APL RVK100-MPZ38	0315675	
APL RVK100-MPZ45	0315676	
APL RVK100-PZN+50	0315666	

Version for 4 grippers



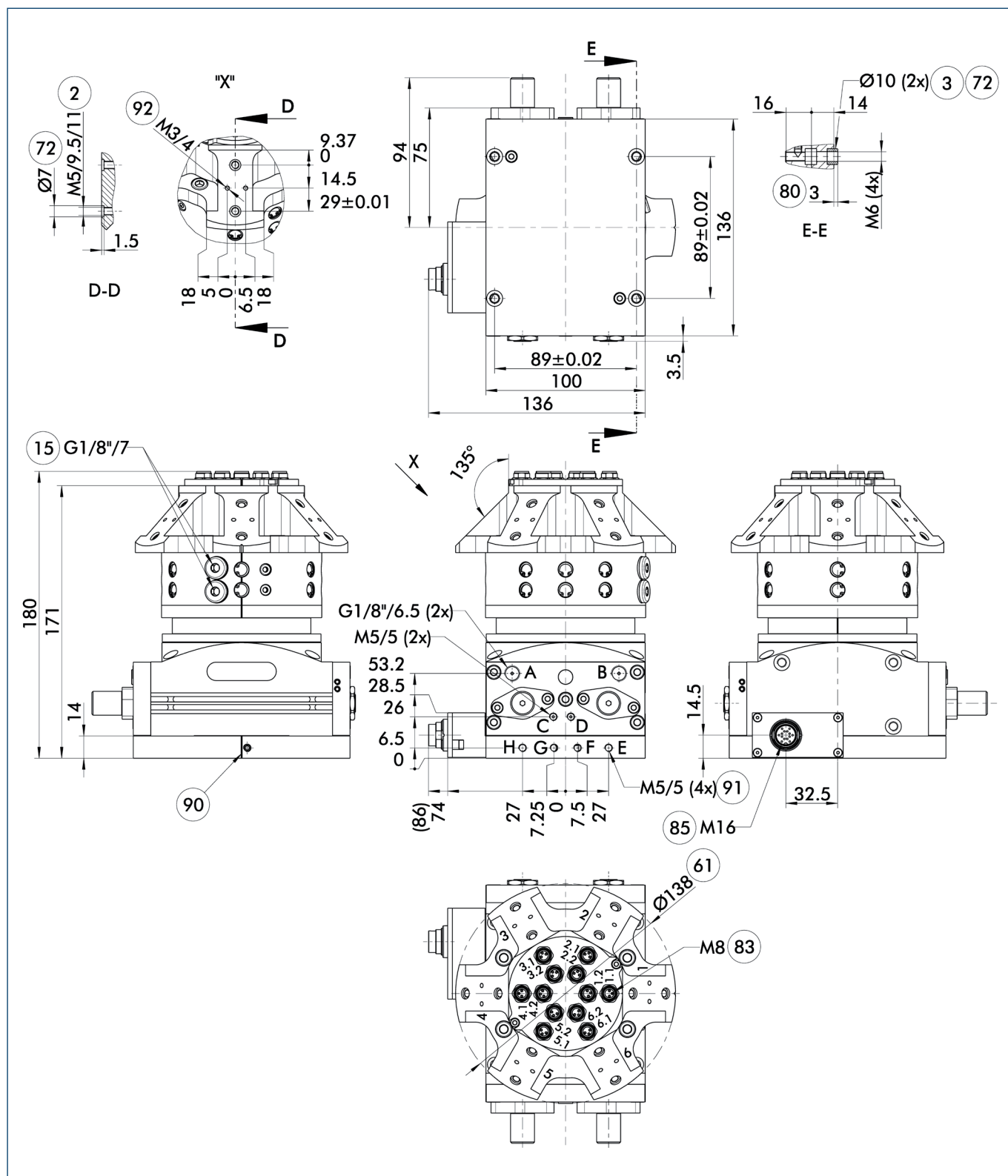
RVK 100-P



Technical data

Description		RVK 100-4-P-087-4	RVK 100-6-P-087-6
ID		0315640	0315650
Rotary type		pneumatic	pneumatic
Number of grippers		4	6
Angle of rotation	[°]	90	60
Weight	[kg]	1.9	1.9
IP class		40	40
Air consumption per double stroke of the activation cylinder	[cm³]	7	7
max. pressure in air feed-through	[bar]	8	8
min. / max. ambient temperature	[°C]	5/60	5/60

Main view

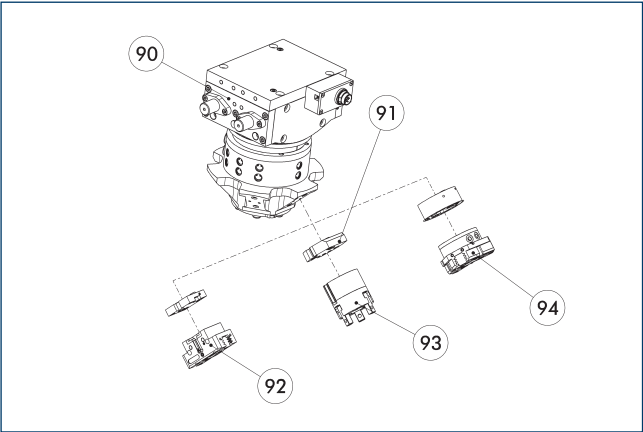


The drawing shows the unit equipped for six grippers.

- | | |
|---|---|
| ② Attachment connection | ⑧③ Input for 3 pole sensor feed-through |
| ③ Connection rotary module | ⑧⑤ Output sensor feed-through |
| ⑮ Air purge connection | ⑨① Location of the active gripper |
| ⑥① Interfering contour during swiveling | ⑨② Main air connection |
| ⑦② Fit for centering sleeves | ⑨③ Air connection for workpiece |

RVK 100-P

Modular system



- 90

Rotation Unit
- 91

Standard Adapter plate
- 92

2-Finger Parallel Gripper
PGN-plus
- 93

3-Finger Centric Gripper MPZ
- 94

3-Finger Centric Gripper
PZN-plus

Description	ID	
Adapter plate		
APL RVK100-PGN+40	0315660	
APL RVK100-PGN+50	0315661	
APL RVK100-PGN+64	0315662	
APL RVK100-PZN+40	0315665	
APL RVK100-MPZ38	0315675	
APL RVK100-MPZ45	0315676	
APL RVK100-PZN+50	0315666	

Version for 4 grippers

