

Superior Clamping and Gripping



Product Information

Manual change system SHS

Flexible. Compact. Intuitive. Manual change system SHS

Manual tool change system with integrated air feed-through, locking monitoring, and optional electric feed-through.

Field of application

Excellently suitable for use in the flexible production of products with a comprehensive range of variants in which reliable manual changes are required.

Advantages - Your benefits

Series with six unit sizes for optimal size selection and a broad application range

Integrated pneumatic feed-through for a safe power supply of the handling modules and tools

The locking lever is opened sideways this allows the changer to be easily operated even in confined spaces

Optional locking and presence monitoring thus increased process reliability

Wide range of electric, pneumatic, and fluid modules for universal energy transmission possibilities

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













Functional description

The manual change system (SHS) consists of a manual change head (SHK) and a manual change adapter (SHA). The manual change head (SHK) is form-fit locked with the manual change adapter (SHA), and due to the patented

locking it is free from play. A pin is pushed forward or backward via a locking lever for locking or unlocking. An integrated pneumatic feed-through supplies the tool with energy.



- ① Locking lever for manual actuation
- ② Lock sensing optional, for process-reliable monitoring of the locking condition
- 3 Locking bolt made of corrosion-free steel for easy and secure locking
- Air feed-through without interfering contours due to the integration into the housing. Also suitable for vacuum.

General notes about the series

Actuation: Manual via locking lever

Operating principle: by turning the locking lever, the head and adapter are locked and unlocked.

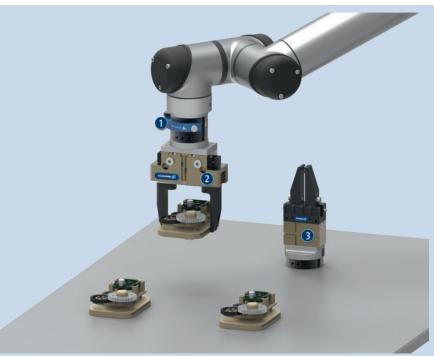
Energy transmission: Optional via electrical modules and/ or fluid modules. Pneumatic feed-through already integrated.

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

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

Handling tool with manual tool change system for gripping of middle and small parts.

- Manual change system SHS
- 2-finger parallel gripper PGN-plus-P with customized gripper fingers
- 2-finger parallel gripper MPG-plus with customized gripper fingers

SCHUNK offers more ...

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











Compensation unit



Anti-collision and overload protection sensor



Universal gripper



Inductive proximity switches

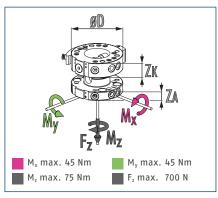


Electronic module

① For more information on these products can be found on the following product pages or at schunk.com. Please contact us: SCHUNK technical hotline +49-7133-103-2696



Dimensions and maximum loads



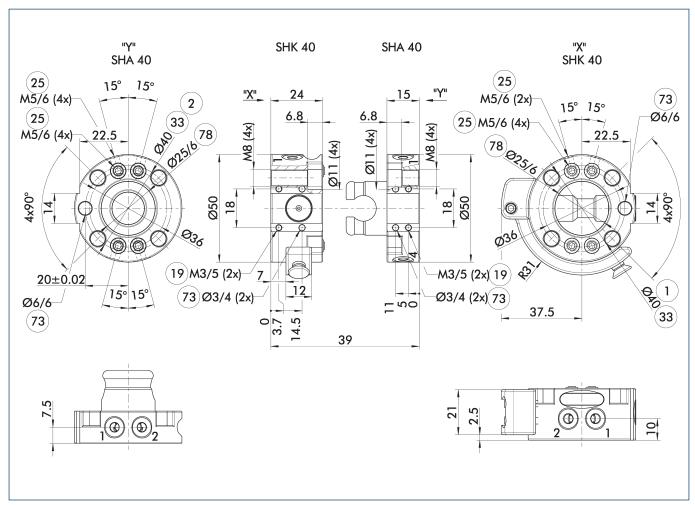
This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		SHK-040-000-000	SHA-040-000-000
		Manual change head	Manual change adapter
ID		0310400	0310401
Recommended handling weight	[kg]	9	9
Lock sensing		optionally via attachment kit	
Repeat accuracy	[mm]	0.02	0.02
Weight	[kg]	0.14	0.075
Max. distance when locking	[mm]	1	1
Number of pneumatic feed-throughs		4	4
Feed-throughs for radial use		2	4
Pitch circle diameter	[mm]	40	40
Connection flange according to		ISO 9409-1-40-4-M6	
Min./max. ambient temperature	[°C]	5/60	5/60
Dimensions Ø D x Z*	[mm]	50 x 24	50 x 15
Screw connection diagram		S5/S7 via adapter plate	S5/S7 via adapter plate

^{*} Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.

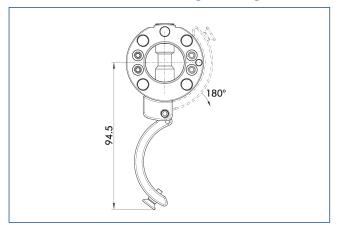
Main view



The main view shows the unit in its basic version.

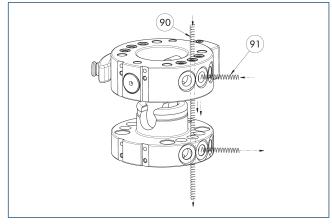
- 1 Robot-side connection
- 2 Tool-side connection
- (19) Mounting surface for options
- 25) Pneumatic feed-throughs
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering

Interference Contour when locking/unlocking



The drawing shows the interfering contour when locking and unlocking. The specified values may vary depending on the opening angle of the locking lever.

Pneumatic feed-through

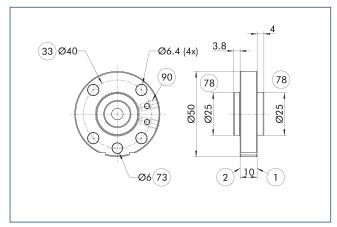


90 Feed-through axial

(91) Feed-through radial

The changing system has pneumatic feed-throughs. They can be used hose-free via the adapter plate (axial) or with a hose (radial). Some of the feed-throughs can be used axially.

Adapter plate ISO-A040-P-radial



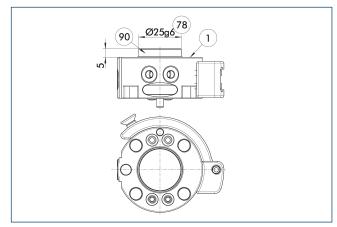
- 1 Robot-side connection
- 2 Tool-side connection
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering
- 90 Connections for radial air feed-through

Robot side adapter plate

Description	ID
Robot side	
A-SHK-040-P-RADIAL	1391534

① Adapter plate with radial air connections for using the integrated axial air connections of the SHK.

Centering disc for SHK

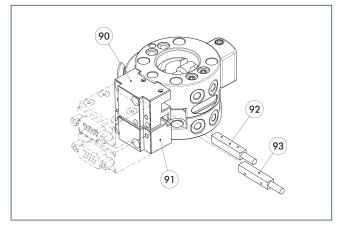


- 1 Robot-side connection
- 90 Centring disc
- 78 Fit for centering

Description	ID
Centering disc	
A-HWK-040-BOSS	0302742

 Serves as a fitting collar for centering on mechanical interfaces, e. g. on the robot.

Accessories

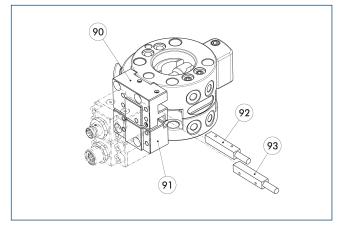


- 90 Robot side adapter plate
- **92** Locking sensor
- 91) Tool side adapter plate
- 93 Tool side presence sensor

Description	ID	Description
Robot side		
SHK-040-AK0-S7	1304690	Adapter plate
Tool side		
SHA-040-AK0-S7	1304691	Adapter plate
Inductive proximity	switches	
IN 5-S-M12	0301569	
IN 5-S-M8	0301469	
Signal feed-through	n module	
SW0-A15-A	9936356	
SW0-A15-K	9936357	
SW0-E10-011-A	9935802	
SW0-E10-011-K	9935801	
SW0-E20-011-A	9936526	
SW0-E20-011-K	9936525	
SW0-EM8-011-A	9966154	
SW0-EM8-011-K	9966153	

① A change system with adapter plate or feed-through module are optionally available, and can be ordered as a complete assembly group. Please contact us for assistance.

Accessories

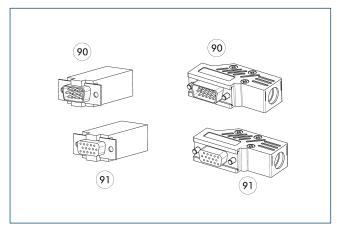


- 90 Robot side adapter plate
- **92** Locking sensor
- 91) Tool side adapter plate
- 93 Tool side presence sensor

Description	ID	Description
Robot side		
SHK-040-AK0-S5	1304684	Adapter plate
Tool side		
SHA-040-AK0-S5	1304688	Adapter plate
Inductive proximity	y switches	
IN 5-S-M12	0301569	
IN 5-S-M8	0301469	
Signal feed-throug	h module	
SW0-B15-A	9937327	
SW0-B15-K	9937326	
SW0-E10-005-A	9935800	
SW0-E10-005-K	9935799	
SWO-E2A-A	9941290	
SWO-E2A-K	9941289	
SWO-E3A-A	9941632	
SW0-E3A-K	9941631	
SW0-EM8-005-A	9966151	
SW0-EM8-005-K	9966150	

A change system with adapter plate or feed-through module are optionally available, and can be ordered as a complete assembly group. Please contact us for assistance.

Cable connector



90 D-sub connecting plug

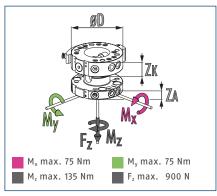
91) D-sub connector

Description	ID				
Angled cable connector, robot-side					
KAS-A15-K-90	0301301				
Angled cable con	nector, tool-s	ide			
KAS-A15-A-90	0301302				
Straight cable connector, robot-side					
KAS-A15-K-0	0301264				
Straight cable connector, tool-side					
KAS-A15-A-0	0301265				

Tor more detailed information and other cable connectors, see catalog chapter "Options" or visit our website.



Dimensions and maximum loads



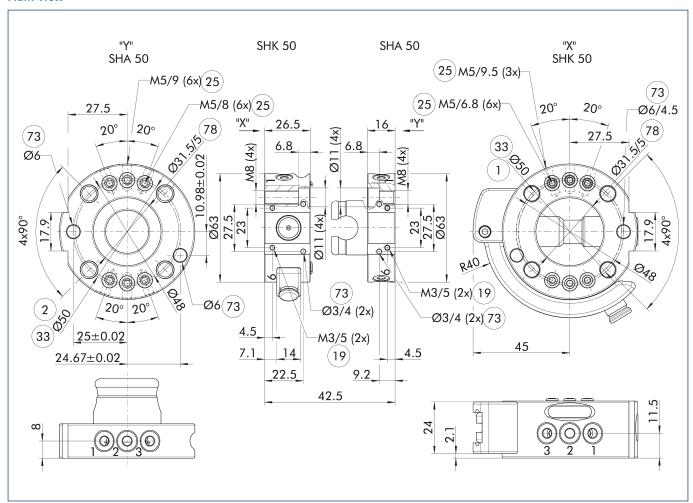
This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		SHK-050-000-000	SHA-050-000-000
		Manual change head	Manual change adapter
ID		0310410	0310411
Recommended handling weight	[kg]	11	11
Lock sensing		optionally via attachment kit	
Repeat accuracy	[mm]	0.02	0.02
Weight	[kg]	0.25	0.1
Max. distance when locking	[mm]	1	1
Number of pneumatic feed-throughs		6	6
Feed-throughs for radial use		3	6
Pitch circle diameter	[mm]	50	50
Connection flange according to		ISO 9409-1-50-4-M6	
Min./max. ambient temperature	[°C]	5/60	5/60
Dimensions Ø D x Z*	[mm]	63 x 26.5	63 x 16
Screw connection diagram		S5/S7 via adapter plate	S5/S7 via adapter plate

^{*} Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.

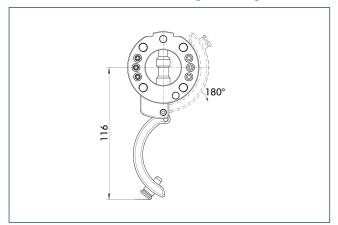
Main view



The main view shows the unit in its basic version.

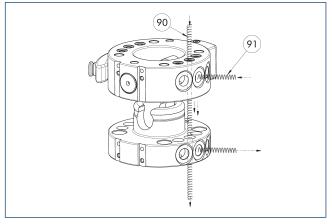
- 1 Robot-side connection
- 2 Tool-side connection
- (19) Mounting surface for options
- 25) Pneumatic feed-throughs
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering

Interference Contour when locking/unlocking



The drawing shows the interfering contour when locking and unlocking. The specified values may vary depending on the opening angle of the locking lever.

Pneumatic feed-through

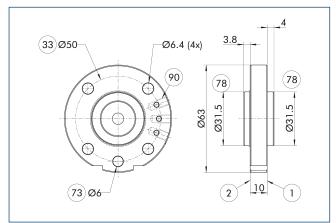


90 Feed-through axial

(91) Feed-through radial

The changing system has pneumatic feed-throughs. They can be used hose-free via the adapter plate (axial) or with a hose (radial). Some of the feed-throughs can be used axially.

Adapter plate ISO-A050-P-radial



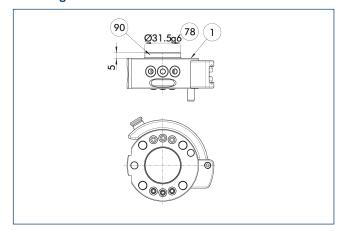
- 1 Robot-side connection
- 2 Tool-side connection
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering
- 90 Connections for radial air feed-through

Robot side adapter plate

I	Description	ID
F	Robot side	
ļ	A-SHK-050-P-RADIAL	1391557

① Adapter plate with radial air connections for using the integrated axial air connections of the SHK.

Centering disc for SHK

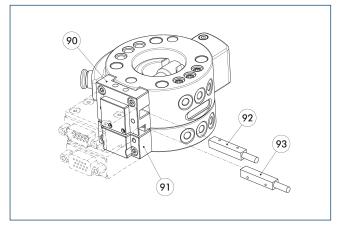


- 1 Robot-side connection
- 90 Centring disc
- 78 Fit for centering

Description	ID
Centering disc	
A-HWK-050-BOSS	0302752

 Serves as a fitting collar for centering on mechanical interfaces, e. g. on the robot.

Accessories

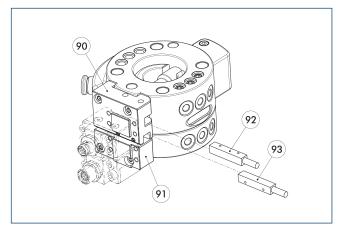


- 90 Robot side adapter plate
- **92** Locking sensor
- 91) Tool side adapter plate
- 93 Tool side presence sensor

Description	ID	Description			
Robot side					
SHK-050-AK0-S7	1304734	Adapter plate			
Tool side					
SHA-050-AK0-S7	1304738	Adapter plate			
Inductive proximity	switches				
IN 5-S-M12	0301569				
IN 5-S-M8	0301469				
Signal feed-through module					
SW0-A15-A	9936356				
SW0-A15-K	9936357				
SW0-E10-011-A	9935802				
SW0-E10-011-K	9935801				
SW0-E20-011-A	9936526				
SW0-E20-011-K	9936525				
SW0-EM8-011-A	9966154				
SW0-EM8-011-K	9966153				

① A change system with adapter plate or feed-through module are optionally available, and can be ordered as a complete assembly group. Please contact us for assistance.

Accessories

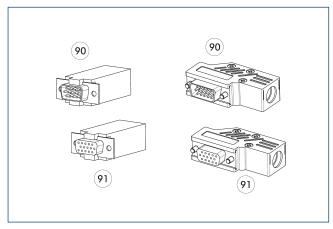


- 90 Robot side adapter plate
- **92** Locking sensor
- 91) Tool side adapter plate
- 93 Tool side presence sensor

Description	ID	Description
Robot side		
SHK-050-AK0-S5	1304699	Adapter plate
Tool side		
SHA-050-AK0-S5	1304710	Adapter plate
Inductive proximity	switches	
IN 5-S-M12	0301569	
IN 5-S-M8	0301469	
Signal feed-through	n module	
SW0-B15-A	9937327	
SW0-B15-K	9937326	
SW0-E10-005-A	9935800	
SW0-E10-005-K	9935799	
SWO-E2A-A	9941290	
SWO-E2A-K	9941289	
SWO-E3A-A	9941632	
SWO-E3A-K	9941631	
SW0-EM8-005-A	9966151	
SW0-EM8-005-K	9966150	

A change system with adapter plate or feed-through module are optionally available, and can be ordered as a complete assembly group. Please contact us for assistance.

Cable connector



90 D-sub connecting plug

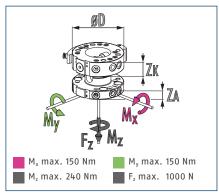
91) D-sub connector

Description	ID			
Angled cable connector, robot-side				
KAS-A15-K-90	0301301			
Angled cable cor	nector, tool-s	ide		
KAS-A15-A-90	0301302			
Straight cable connector, robot-side				
KAS-A15-K-0	0301264			
Straight cable connector, tool-side				
KAS-A15-A-0	0301265			

Tor more detailed information and other cable connectors, see catalog chapter "Options" or visit our website.



Dimensions and maximum loads



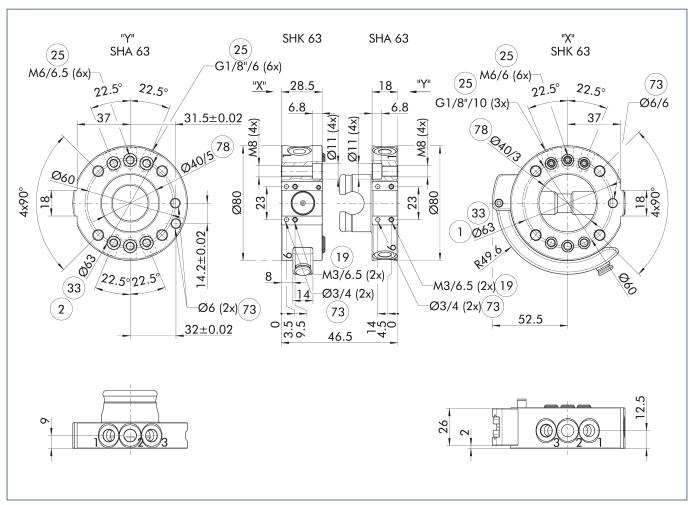
This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		SHK-063-000-000	SHA-063-000-000
		Manual change head	Manual change adapter
ID		0310420	0310421
Recommended handling weight	[kg]	18	18
Lock sensing		optionally via attachment kit	
Repeat accuracy	[mm]	0.02	0.02
Weight	[kg]	0.41	0.2
Max. distance when locking	[mm]	1	1
Number of pneumatic feed-throughs		6	6
Feed-throughs for radial use		3	6
Pitch circle diameter	[mm]	63	63
Connection flange according to		ISO 9409-1-63-4-M6	
Min./max. ambient temperature	[°C]	5/60	5/60
Dimensions Ø D x Z*	[mm]	80 x 28.5	80 x 18
Screw connection diagram		K over adapter plate	K over adapter plate

^{*} Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.

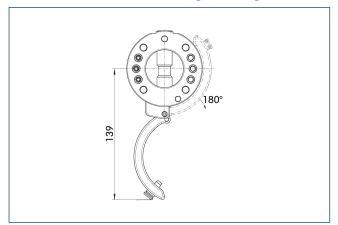
Main view



The main view shows the unit in its basic version.

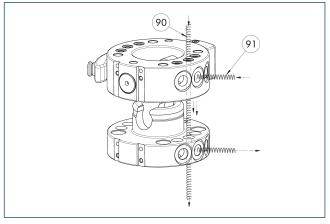
- (1) Robot-side connection
- 2 Tool-side connection
- (19) Mounting surface for options
- **25** Pneumatic feed-throughs
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering

Interference Contour when locking/unlocking



The drawing shows the interfering contour when locking and unlocking. The specified values may vary depending on the opening angle of the locking lever.

Pneumatic feed-through

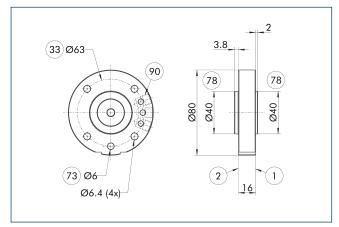


90 Feed-through axial

(91) Feed-through radial

The changing system has pneumatic feed-throughs. They can be used hose-free via the adapter plate (axial) or with a hose (radial). Some of the feed-throughs can be used axially.

Adapter plate ISO-A063-P-radial



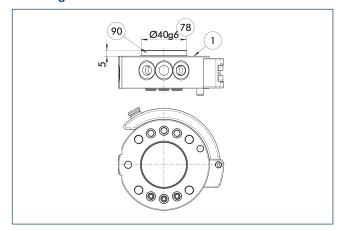
- 1 Robot-side connection
- 2 Tool-side connection
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering
- 90 Connections for radial air feed-through

Robot side adapter plate

D	Description	ID
R	Robot side	
Α	A-SHK-063-P-RADIAL	1391562

① Adapter plate with radial air connections for using the integrated axial air connections of the SHK.

Centering disc for SHK

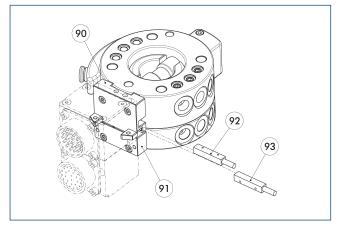


- 1 Robot-side connection
- 90 Centring disc
- 78 Fit for centering

Description	ID
Centering disc	
A-HWK-063-BOSS	0302765

Serves as a fitting collar for centering on mechanical interfaces, e. g.
 on the robot

Accessories

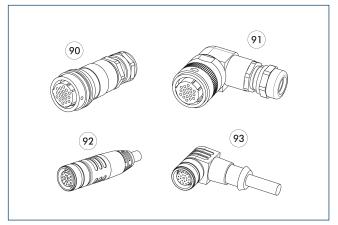


- 90 Robot side adapter plate
- **92** Locking sensor
- 91) Tool side adapter plate
- 93 Tool side presence sensor

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Description	ID	Description	
Robot side			
SHK-063-AK0-K	1304742	Adapter plate	
Tool side			
SHA-063-AK0-K	1304745	Adapter plate	
Inductive proximi	ty switches		
IN 5-S-M12	0301569		
IN 5-S-M8	0301469		
Signal feed-throu	gh module		
SW0-K10-A	9960543		
SW0-K12-A	9948702		
SW0-K12-K	9948701		
SW0-K14-A	9954959		
SW0-K19-A	9937329		
SW0-K19-K	9937328		
SW0-K19P-K	9949315		
SW0-K19W-K	9949316		
SW0-K21-A	9958100		
SW0-K26-A	9937799		
SW0-K26-K	9937798		
SW0-K26P-K	1301550		
SWO-KE7-A	9960994		
SWO-KE7-K	9960993		
SWO-KF10-A	9961308		
SWO-KF14-A	9961307		
SWO-KF19-A	9959887		
SWO-KF19-K	9959886		
SWO-KF19P-K	9872377		
SWO-KF6-A	9965144		
SWO-KF6-K	9965143		
SWO-KG19-A	9950144		
SW0-KG19-K	9950140		
SWO-KM14-A	9941480		
SWO-KM14-K	9940812		

A change system with adapter plate or feed-through module are optionally available, and can be ordered as a complete assembly group. Please contact us for assistance.

Cable connector/cable extension



- © Connection plug / socket straight
- (91) Connection plug / socket at an angle
- **92** Connection plug / socket straight with extension cable
- (93) Connection plug / socket at an angle with extension cable

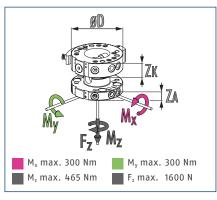
Other cable lengths on request.

Description	ID	Length
		[m]
Angled cable connecto	or, robot-side	
KAS-19B-K-90-C	0301294	
Angled cable connecto	or, tool-side	
KAS-19B-A-90-C	0301295	
Angled cable connecto	or with cable, r	obot-side
KV-10-SWK-19F-90	0302173	10
KV-3-SWK-19B-90	0302179	3
KV-3-SWK-26B-90	0302185	3
KV-5-SWK19B-90	0302190	5
KV-5-SWK-19F-90	0302172	5
KV-5-SWK-26B-90	0302186	5
Angled cable connecto	or with cable, t	cool-side
KV-3-SWA-19B-90	0302191	3
KV-3-SWA-19F-90	0302175	3
KV-3-SWA-26B-90	0302187	3
Straight cable connect	or, robot-side	
KAS-19B-K-0-C	0301283	
Straight cable connect	or, tool-side	
KAS-19B-A-0-C	0301284	
Straight cable connect	or with cable,	robot-side
KV-10-SWK-19F-0	0302171	10
KV-3-SWK-19B-0	0302176	3
KV-3-SWK-26B-0	0302192	3
KV-5-SWK-19B-0	0302177	5
KV-5-SWK-19F-0	0302170	5
KV-5-SWK-26B-0	0302193	5
Straight cable connect	or with cable,	tool-side
KV-3-SWA-19B-0	0302178	3
KV-3-SWA-19F-0	0302174	3
KV-3-SWA-26B-0	0302184	3

Tor more detailed information and other cable connectors, see catalog chapter "Options" or visit our website.

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Dimensions and maximum loads



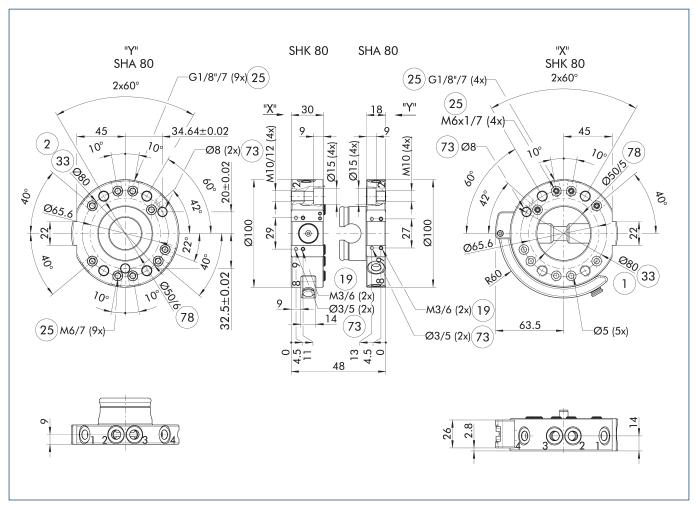
This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		SHK-080-000-000	SHA-080-000-000
		Manual change head	Manual change adapter
ID		0310430	0310431
Recommended handling weight	[kg]	36	36
Lock sensing		optionally via attachment kit	
Repeat accuracy	[mm]	0.02	0.02
Weight	[kg]	0.74	0.35
Max. distance when locking	[mm]	1	1
Number of pneumatic feed-throughs		9	9
Feed-throughs for radial use		4	9
Pitch circle diameter	[mm]	80	80
Connection flange according to		ISO 9409-1-80-6-M8	
Min./max. ambient temperature	[°C]	5/60	5/60
Dimensions Ø D x Z*	[mm]	100 x 30	100 x 18
Screw connection diagram		K over adapter plate	K over adapter plate

^{*} Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.

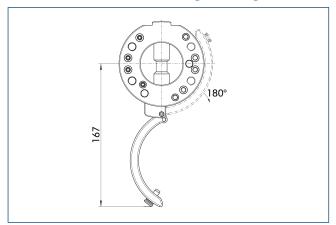
Main view



The main view shows the unit in its basic version.

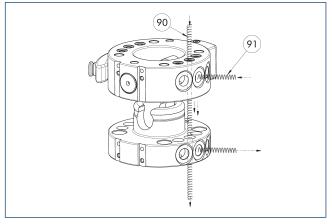
- 1 Robot-side connection
- 2 Tool-side connection
- (19) Mounting surface for options
- 25) Pneumatic feed-throughs
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78) Fit for centering

Interference Contour when locking/unlocking



The drawing shows the interfering contour when locking and unlocking. The specified values may vary depending on the opening angle of the locking lever.

Pneumatic feed-through

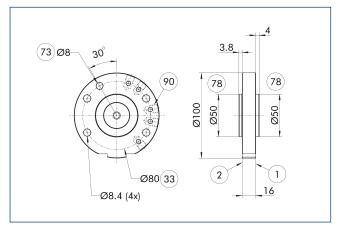


90 Feed-through axial

(91) Feed-through radial

The changing system has pneumatic feed-throughs. They can be used hose-free via the adapter plate (axial) or with a hose (radial). Some of the feed-throughs can be used axially.

Adapter plate ISO-A080-P-radial



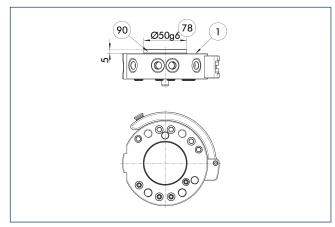
- 1 Robot-side connection
- 2 Tool-side connection
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering
- 90 Connections for radial air feed-through

Robot side adapter plate

Description	ID
Robot side	
A-SHK-080-P-RADIA	1391564

① Adapter plate with radial air connections for using the integrated axial air connections of the SHK.

Centering disc for SHK

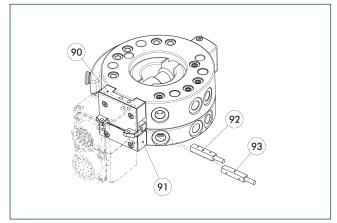


- 1 Robot-side connection
- 90 Centring disc
- 78 Fit for centering

Description	ID
Centering disc	
centering disc	
A-HWK-080-B	OSS 0302782

 Serves as a fitting collar for centering on mechanical interfaces, e. g. on the robot.

Accessories

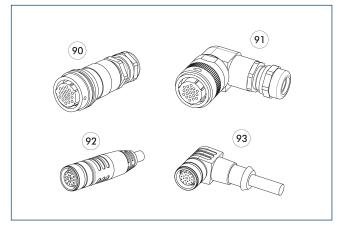


- 90 Robot side adapter plate
- **92** Locking sensor
- 91) Tool side adapter plate
- 93 Tool side presence sensor

•••	- p	9	
Description	ID	Description	
Robot side			
SHK-080-AK0-K	1304759	Adapter plate	
Tool side			
SHA-080-AK0-K	1304762	Adapter plate	
Inductive proximi	ty switches		
IN 5-S-M12	0301569		
IN 5-S-M8	0301469		
Signal feed-throu	gh module		
SW0-K10-A	9960543		
SW0-K12-A	9948702		
SW0-K12-K	9948701		
SW0-K14-A	9954959		
SW0-K19-A	9937329		
SW0-K19-K	9937328		
SW0-K19P-K	9949315		
SWO-K19W-K	9949316		
SW0-K21-A	9958100		
SW0-K26-A	9937799		
SW0-K26-K	9937798		
SW0-K26P-K	1301550		
SWO-KE7-A	9960994		
SWO-KE7-K	9960993		
SWO-KF10-A	9961308		
SWO-KF14-A	9961307		
SWO-KF19-A	9959887		
SWO-KF19-K	9959886		
SWO-KF19P-K	9872377		
SWO-KF6-A	9965144		
SWO-KF6-K	9965143		
SWO-KG19-A	9950144		
SWO-KG19-K	9950140		
SWO-KM14-A	9941480		
SWO-KM14-K	9940812		

A change system with adapter plate or feed-through module are optionally available, and can be ordered as a complete assembly group. Please contact us for assistance.

Cable connector/cable extension



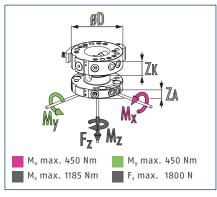
- 90 Connection plug / socket straight
- (91) Connection plug / socket at an angle
- **92** Connection plug / socket straight with extension cable
- (93) Connection plug / socket at an angle with extension cable

Other cable lengths on request.

Description	ID	Lougth
Description	עו	Length
		[m]
Angled cable connecto		
KAS-19B-K-90-C	0301294	
Angled cable connecto	r, tool-side	
KAS-19B-A-90-C	0301295	
Angled cable connecto	r with cable, r	obot-side
KV-10-SWK-19F-90	0302173	10
KV-3-SWK-26B-90	0302185	3
KV-5-SWK-19F-90	0302172	5
KV-5-SWK-26B-90	0302186	5
Angled cable connecto	r with cable, t	ool-side
KV-3-SWA-19F-90	0302175	3
KV-3-SWA-26B-90	0302187	3
Straight cable connect	or, robot-side	
KAS-19B-K-0-C	0301283	
Straight cable connect	or, tool-side	
KAS-19B-A-0-C	0301284	
Straight cable connect	or with cable,	robot-side
KV-10-SWK-19F-0	0302171	10
KV-3-SWK-26B-0	0302192	3
KV-5-SWK-19F-0	0302170	5
KV-5-SWK-26B-0	0302193	5
Straight cable connect	or with cable,	tool-side
KV-3-SWA-19F-0	0302174	3
KV-3-SWA-26B-0	0302184	3

Tor more detailed information and other cable connectors, see catalog chapter "Options" or visit our website.

Dimensions and maximum loads



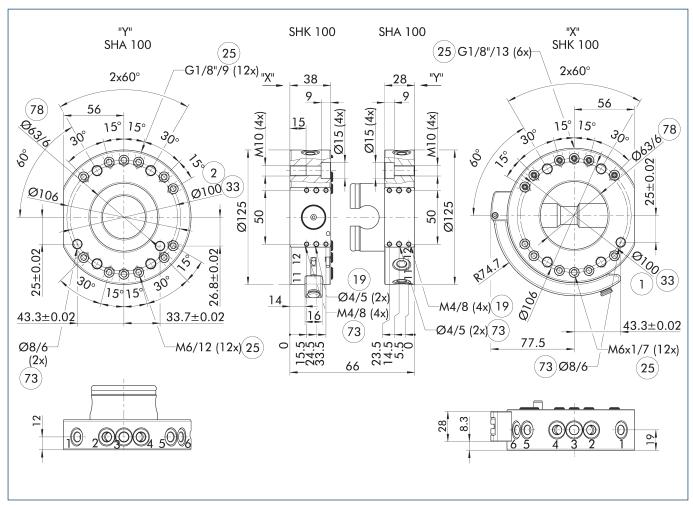
This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		SHK-100-000-000	SHA-100-000-000
		Manual change head	Manual change adapter
ID		0310440	0310441
Recommended handling weight	[kg]	43	43
Lock sensing		optional	
Repeat accuracy	[mm]	0.02	0.02
Weight	[kg]	1.3	0.55
Max. distance when locking	[mm]	1	1
Number of pneumatic feed-throughs		12	12
Feed-throughs for radial use		6	12
Pitch circle diameter	[mm]	100	100
Connection flange according to		ISO 9409-1-100-6-M8	
Min./max. ambient temperature	[°C]	5/60	5/60
Dimensions Ø D x Z*	[mm]	125 x 38	125 x 28
Screw connection diagram		J	J

* Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.

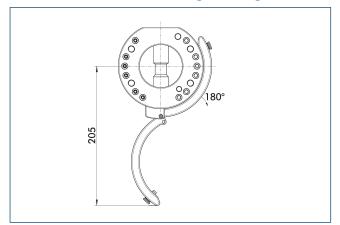
Main view



The main view shows the unit in its basic version.

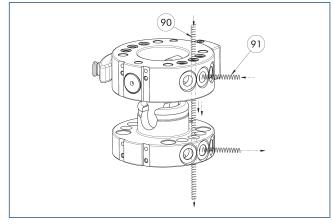
- 1 Robot-side connection
- 2 Tool-side connection
- (19) Mounting surface for options
- 25) Pneumatic feed-throughs
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering

Interference Contour when locking/unlocking



The drawing shows the interfering contour when locking and unlocking. The specified values may vary depending on the opening angle of the locking lever.

Pneumatic feed-through

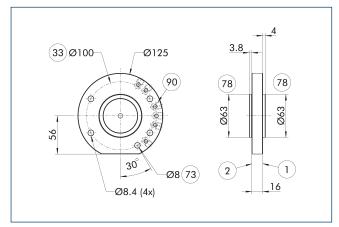


90 Feed-through axial

(91) Feed-through radial

The changing system has pneumatic feed-throughs. They can be used hose-free via the adapter plate (axial) or with a hose (radial). Some of the feed-throughs can be used axially.

Adapter plate ISO-A100-P-radial



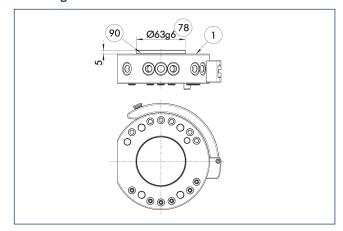
- 1 Robot-side connection
- 2 Tool-side connection
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering
- 90 Connections for radial air feed-through

Robot side adapter plate

Description	ID
Robot side	
A-SHK-100-P-RADIAL	1391567

① Adapter plate with radial air connections for using the integrated axial air connections of the SHK.

Centering disc for SHK



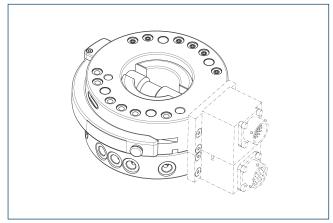
1 Robot-side connection

78 Fit for centering

Description	ID
Centering disc	
A-HWK-100-BOSS	0302802

 $\ensuremath{\textcircled{\textcircled{Φ}}}$ Serves as a fitting collar for centering on mechanical interfaces, e. g. on the robot.

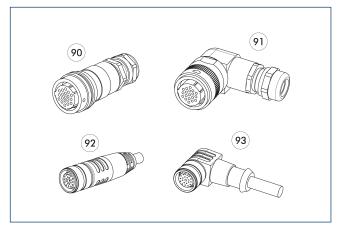
Electric feed-through module



Description	ID	No. Pins		
Signal feed-through	Signal feed-through module			
SW0-G19-A	9940650	19		
SW0-G19-K	9940649	19		
SW0-MT8-A	9937158			
SWO-MT8-K	9937157			
SW0-R19-A	9935816	19		
SW0-R19-K	9935815	19		
SW0-R26-A	9935820	26		
SW0-R26-K	9935819	26		
SW0-R32-A	9941388	32		
SW0-R32-K	9941387	32		
SWO-RE5-A	9957445			
SWO-RE5-K	9957444			
SWO-RF19-A	9948657	19		
SWO-RF19-K	9948654	19		

A change system with adapter plate or feed-through module are optionally available, and can be ordered as a complete assembly group. Please contact us for assistance.

Cable connector/cable extension



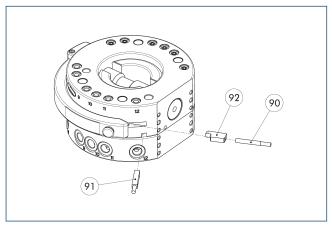
- 90 Connection plug / socket straight
- (91) Connection plug / socket at an angle
- (92) Connection plug / socket straight with extension cable
- (93) Connection plug / socket at an angle with extension cable

Other cable lengths on request.

Description	ID	Length			
		[m]			
Angled cable connector	r, robot-side				
KAS-19B-K-90-C	0301294				
Angled cable connector	r, tool-side				
KAS-19B-A-90-C	0301295				
Angled cable connector	r with cable, r	obot-side			
KV-10-SWK-19F-90	0302173	10			
KV-3-SWK-19B-90	0302179	3			
KV-5-SWK19B-90	0302190	5			
KV-5-SWK-19F-90	0302172	5			
Angled cable connector	r with cable, t	ool-side			
KV-3-SWA-19B-90	0302191	3			
KV-3-SWA-19F-90	0302175	3			
Straight cable connecto	Straight cable connector, robot-side				
KAS-19B-K-0-C	0301283				
Straight cable connector, tool-side					
KAS-19B-A-0-C	0301284				
Straight cable connector with cable, robot-side					
KV-10-SWK-19F-0	0302171	10			
KV-3-SWK-19B-0	0302176	3			
KV-5-SWK-19B-0	0302177	5			
KV-5-SWK-19F-0	0302170	5			
Straight cable connector with cable, tool-side					
KV-3-SWA-19B-0	0302178	3			
KV-3-SWA-19F-0	0302174	3			

Tor more detailed information and other cable connectors, see catalog chapter "Options" or visit our website.

Monitoring via inductive proximity switches



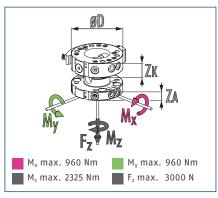
- 90 Locking sensor IN 40-S-...
- (91) Workpiece presence sensor IN 5-S-...
- (92) A sensor bracket is included in the scope of delivery

Description	ID	Often combined
Inductive proximity switches		
IN 40-S-M12	0301574	
IN 40-S-M8	0301474	
IN 5-S-M12	0301569	
IN 5-S-M8	0301469	
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	

 $\ensuremath{\textcircled{\textbf{0}}}$ For more detailed information and other cable extensions, see catalog chapter "Accessories" or visit our website.

Cooperation Association of the Cooperation of the C

Dimensions and maximum loads



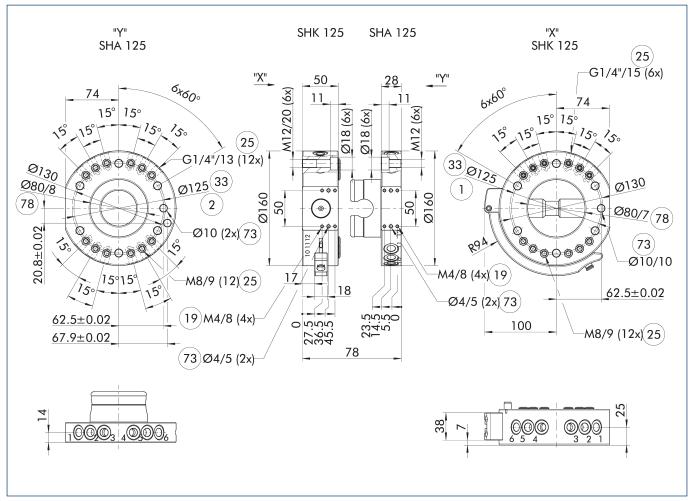
This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		SHK-125-000-000	SHA-125-000-000
		Manual change head	Manual change adapter
ID		0310450	0310451
Recommended handling weight	[kg]	58	58
Lock sensing		optional	
Repeat accuracy	[mm]	0.02	0.02
Weight	[kg]	2.8	1.2
Max. distance when locking	[mm]	1	1
Number of pneumatic feed-throughs		12	12
Feed-throughs for radial use		6	12
Pitch circle diameter	[mm]	125	125
Connection flange according to		ISO 9409-1-125-6-M10	
Min./max. ambient temperature	[°C]	5/60	5/60
Dimensions Ø D x Z*	[mm]	160 x 50	160 x 28
Screw connection diagram		J	J

^{*} Please note that the heights of the change master (ZK) and change adapter (ZA) differ. The sum represents the total height of a coupled change system.

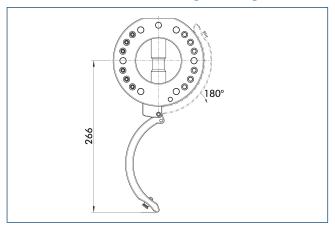
Main view



The main view shows the unit in its basic version.

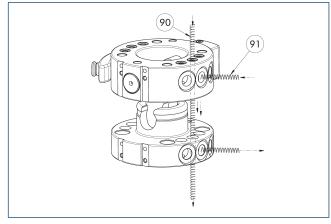
- (1) Robot-side connection
- 2 Tool-side connection
- (19) Mounting surface for options
- 25) Pneumatic feed-throughs
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering

Interference Contour when locking/unlocking



The drawing shows the interfering contour when locking and unlocking. The specified values may vary depending on the opening angle of the locking lever.

Pneumatic feed-through

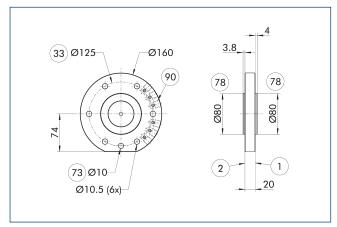


90 Feed-through axial

(91) Feed-through radial

The changing system has pneumatic feed-throughs. They can be used hose-free via the adapter plate (axial) or with a hose (radial). Some of the feed-throughs can be used axially.

Adapter plate ISO-A125-P-radial



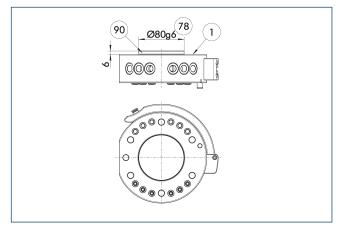
- 1 Robot-side connection
- 2 Tool-side connection
- 33 DIN ISO-9409 bolt circle
- 73 Fit for centering pins
- 78 Fit for centering
- 90 Connections for radial air feed-through

Robot side adapter plate

Description	ID
Robot side	
A-SHK-125-P-RADIAL	1391576

① Adapter plate with radial air connections for using the integrated axial air connections of the SHK.

Centering disc for SHK

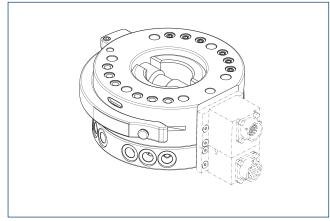


- 1 Robot-side connection
- 90 Centring disc
- 78 Fit for centering

Description	ID
Centering disc	
A-HWK-125-BOSS	0302827

 Serves as a fitting collar for centering on mechanical interfaces, e. g. on the robot.

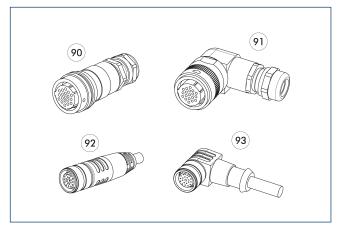
Electric feed-through module



Description	ID	No. Pins		
Signal feed-through module				
SW0-G19-A	9940650	19		
SW0-G19-K	9940649	19		
SW0-MT8-A	9937158			
SW0-MT8-K	9937157			
SW0-R19-A	9935816	19		
SW0-R19-K	9935815	19		
SW0-R26-A	9935820	26		
SW0-R26-K	9935819	26		
SW0-R32-A	9941388	32		
SW0-R32-K	9941387	32		
SWO-RE5-A	9957445			
SWO-RE5-K	9957444			
SWO-RF19-A	9948657	19		
SWO-RF19-K	9948654	19		

A change system with adapter plate or feed-through module are optionally available, and can be ordered as a complete assembly group. Please contact us for assistance.

Cable connector/cable extension



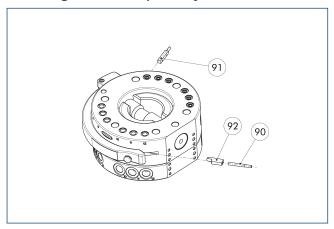
- 90 Connection plug / socket straight
- (91) Connection plug / socket at an angle
- (92) Connection plug / socket straight with extension cable
- (93) Connection plug / socket at an angle with extension cable

Other cable lengths on request.

Description	ID	Length
		[m]
Angled cable connecto	or, robot-side	
KAS-19B-K-90-C	0301294	
Angled cable connecto	or, tool-side	
KAS-19B-A-90-C	0301295	
Angled cable connecto	or with cable, r	robot-side
KV-10-SWK-19F-90	0302173	10
KV-3-SWK-19B-90	0302179	3
KV-5-SWK19B-90	0302190	5
KV-5-SWK-19F-90	0302172	5
Angled cable connecto	or with cable, t	cool-side
KV-3-SWA-19B-90	0302191	3
KV-3-SWA-19F-90	0302175	3
Straight cable connect	or, robot-side	
KAS-19B-K-0-C	0301283	
Straight cable connect	or, tool-side	
KAS-19B-A-0-C	0301284	
Straight cable connect	or with cable,	robot-side
KV-10-SWK-19F-0	0302171	10
KV-3-SWK-19B-0	0302176	3
KV-5-SWK-19B-0	0302177	5
KV-5-SWK-19F-0	0302170	5
Straight cable connect	or with cable,	tool-side
KV-3-SWA-19B-0	0302178	3
KV-3-SWA-19F-0	0302174	3

Tor more detailed information and other cable connectors, see catalog chapter "Options" or visit our website.

Monitoring via inductive proximity switches



- **90** Locking sensor IN 40-S-...
- (91) Workpiece presence sensor IN 5-S-...
- (92) A sensor bracket is included in the scope of delivery

Inductive proximity switches IN 40-S-M12 0301574 IN 40-S-M8 0301474 IN 5-S-M12 0301569 IN 5-S-M8 0301469 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-0030-PNP 0301595 KV BW12-SG12 3P-0100-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 BG08-L 3P-0500-PNP 0301623 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 • V2-M8 0301775 V4-M12 0301775 V4-M8 0301775 V4-M8 0301752 V8-M8 0301751	Description	ID	Often combined			
IN 40-S-M8 IN 5-S-M12 IN 5-S-M8 Cable extension KV BG12-SG12 3P-0030-PNP KV BG12-SG12 3P-0060-PNP KV BW08-SG08 3P-0030-PNP KV BW08-SG08 3P-0100-PNP KV BW08-SG08 3P-0200-PNP KV BW12-SG12 3P-0030-PNP KV BW12-SG12 3P-0030-PNP KV BW12-SG12 3P-0030-PNP Clip for plug/socket CLI-M12 CLI-M2 CUI-M8 Connection cables KA BG08-L 3P-0300-PNP KA BW08-L 3P-0500-PNP S0301593 KA BG12-L 3P-0500-PNP S0301593 KA BW08-L 3P-0500-PNP S0301622 KA BW08-L 3P-0500-PNP S0301594 KA BW08-L 3P-0500-PNP S0301503 KA BW12-L 3P-0300-PNP S0301503 KA BW12-L 3P-0500-PNP S0301507 Sensor distributor V2-M12 V2-M8 V3-M12 V3-M8 V3-M12 V3-M12 V3-M8 V3-M12 V3-M12 V3-M8 V3-M12 V3-M12 V3-M12 V3-M8 V3-M12 V3	Inductive proximity switches					
IN 5-S-M12 0301569 IN 5-S-M8 0301469 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 0301595 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 0301639 KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0300-PNP 0301502 KA BW08-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 • V2-M8 0301775 • V4-M8 0301746 V8-M12 0301752	IN 40-S-M12	0301574				
N 5-S-M8	IN 40-S-M8	0301474				
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 0301497 KV BW08-SG08 3P-0200-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 clip for plug/socket cli-M12 CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP KA BG08-L 3P-0500-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301594 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 V2-M8 0301775 • V4-M12 0301746 V4-M8 0301752	IN 5-S-M12	0301569				
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V2-M12 0301776	KA BW12-L 3P-0500-PNP	0301507				
V2-M8 0301775 V4-M12 0301747 V4-M8 0301746 V8-M12 0301752	Sensor distributor					
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V4-M8 0301746 V8-M12 0301752	V2-M8	0301775	•			
V8-M12 0301752	V4-M12	0301747				
	V4-M8	0301746				
V8-M8 0301751	V8-M12	0301752				
	V8-M8	0301751				

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