



Superior Clamping and Gripping



Product Information

Manual change system HWS

Flexible. Compact. Productive.

HWS manual change system

Manual tool change system with integrated air feed-through and optional electric feed-through

Field of application

Excellently suitable for flexible production, for products with a large range of variants.

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

Mounting option of additional pneumatic and electric units for optimal adaption to your application

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

Easy handling without additional tools quickly and easily removable at any time



Sizes
Quantity: 6



Handling weight
8 .. 54 kg



Moment load M_x
10 .. 320 Nm

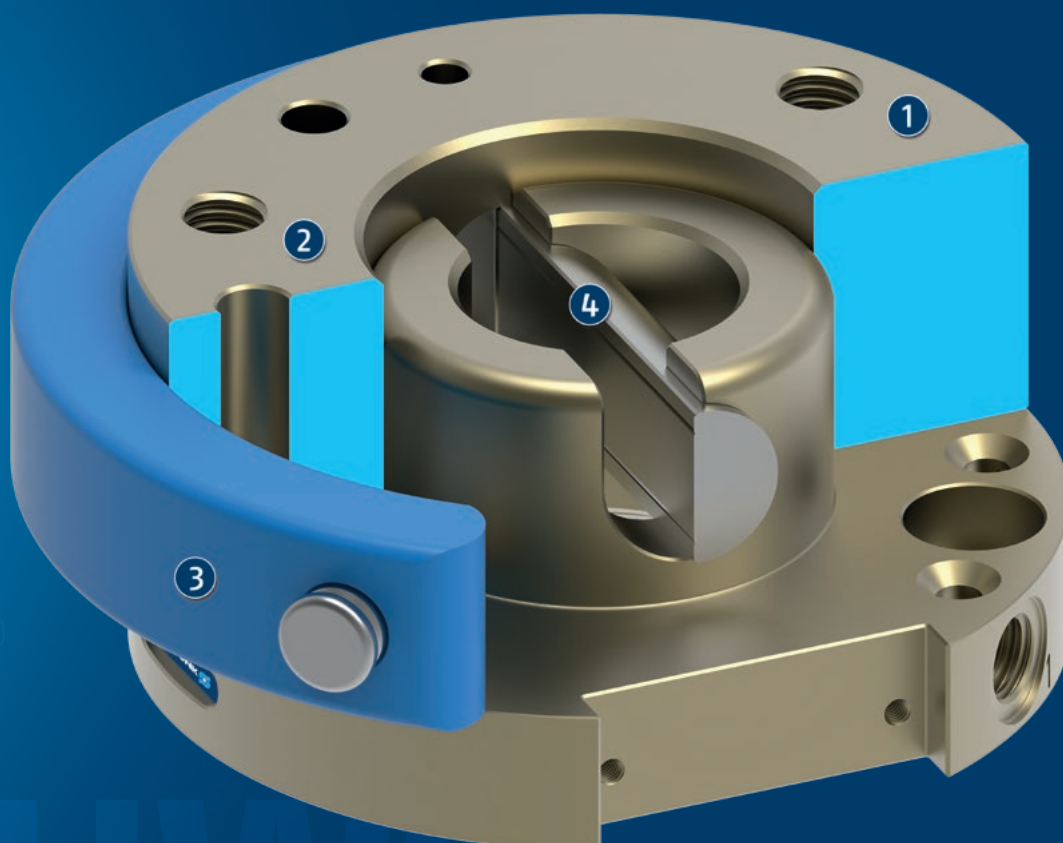


Moment load M_z
15 .. 330 Nm

Functional description

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

locking it is free from play. For this purpose, a semi-cylindrical shaft is turned by 180° via a locking lever. Integrated pneumatic feed-throughs safely supply the tool with energy.



- ① **Direct assembly**
by using a standardized ISO 9409 interface for robots
- ② **Housing**
is weight-optimized due to the use of high-strength aluminum alloy

- ③ **Locking lever**
for manual actuation
- ④ **Locking**
patented, easy, and safe

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.

Scope of delivery: without mounting screws

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

Flexible assembly unit for various product versions. Easy and quick tool change using a quick-change-system.

- ❶ HWS consisting of HWK and HWA
- ❷ 2-finger parallel gripper PGN-plus



SCHUNK offers more ...

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



Electric module



Cable connector



Fittings



Extension Cable



Compensation units



Centric Grippers



Rotary feed-through



Parallel gripper



Angular gripper



Deburring spindles

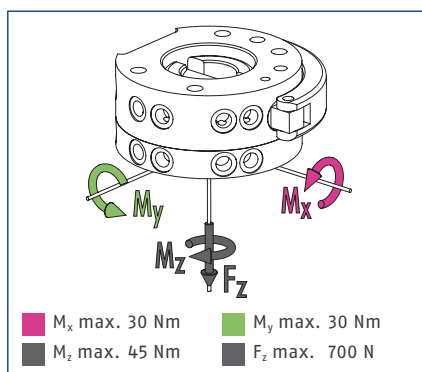


Collision and overload sensors

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



Max. loads



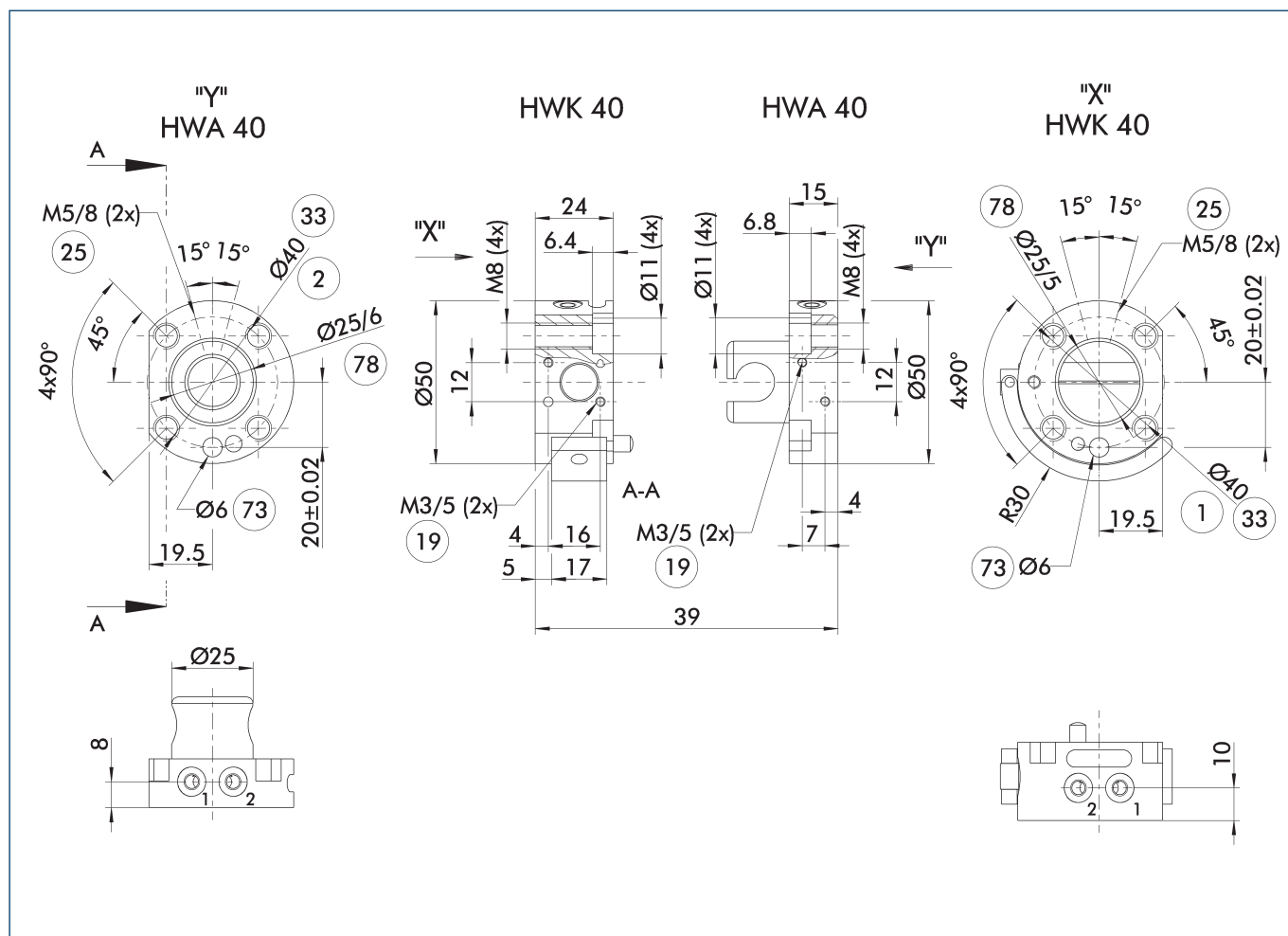
① This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		HWK-040-000-000	HWA-040-000-000
		Manual change head	Manual change adapter
ID		0302740	0302741
Recommended handling weight	[kg]	8	8
Max. dynamisches Biegemoment M_x^*	[Nm]	10	10
Max. dynamic bending moment M_y^*	[Nm]	10	10
Max. dynamic torsional moment M_z^*	[Nm]	15	15
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	0.12	0.06
Max. distance when locking	[mm]	5	5
Number of pneumatic feed-throughs		2	2
Connection threads for fluid feed-through		M5	M5
Pitch circle diameter	[mm]	40	40
Robot-side connection		ISO 9409-1-40-4-M6	
Min./max. ambient temperature	[°C]	5/60	5/60

* This is the maximum sum of all dynamic loads (acceleration forces and torques, process forces or moments, emergency stop situations, etc.) which are permitted to act individually on the change system for ensuring proper function.

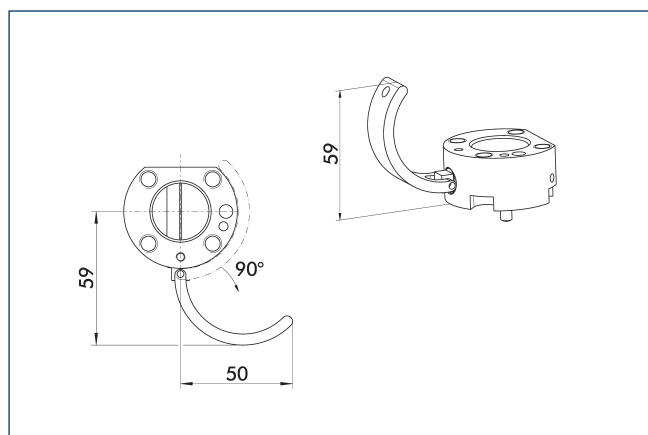
Main view



The main view shows the unit in its basic version.

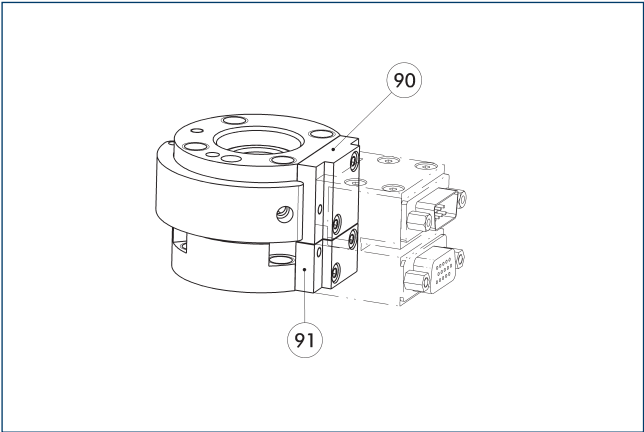
- | | |
|---------------------------------|-----------------------------|
| ① Robot-side connection | ③③ DIN ISO-9409 bolt circle |
| ② Tool-side connection | ⑦③ Fit for centering pins |
| ①⑨ Mounting surface for options | ⑦⑧ Fit for centering |
| ②⑤ Pneumatic feed-throughs | |

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.

Adapter plate for electric modules



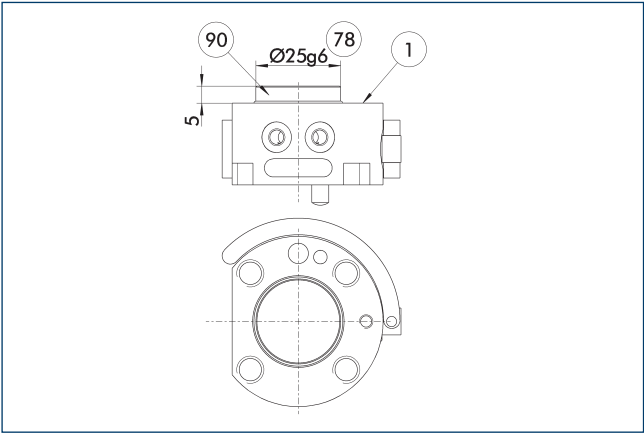
- 90 Robot side adapter plate 91 Tool side adapter plate

Adapter plate for connecting further Schunk components or customized attachments.

Description	ID	
Robot side		
AK0-HWK-040	0302745	
Tool side		
AK0-HWA-040	0302746	

- ① The adapter plates are needed for mounting the electric feed through modules.

Centering disc for HWK

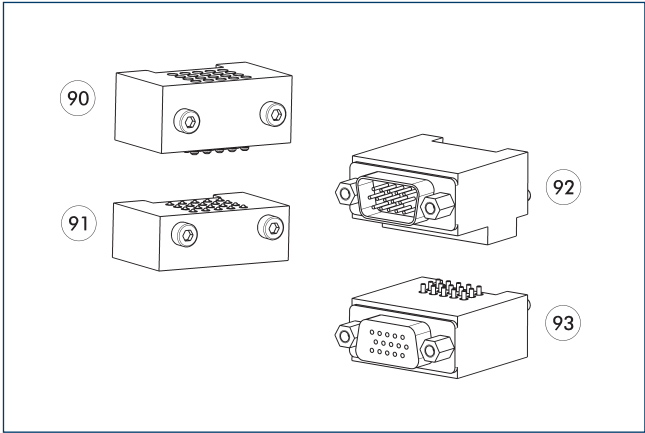


- 1 Robot-side connection 90 Centring disc
78 Fit for centering

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

- ① Serves as a fitting collar for centering on mechanical interfaces, e. g. on the robot.

Electric feed-through module



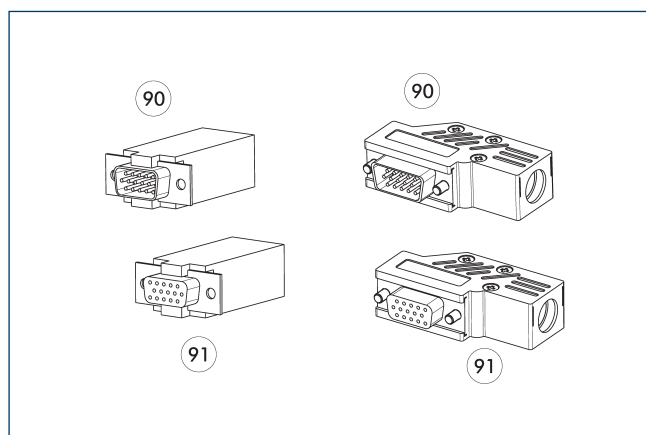
- 90 E..., robot-side 92 A.../B... robot-side
91 E..., tool-side 93 A.../B... tool-side

Modules for transmission of electrical signals.

Description	ID	No. Pins
Feed-through module for signal on the robot side		
SW0-A15-K	9936357	15
SW0-E10-011-K	9935801	10
Feed-through module for signal on the tool side		
SW0-A15-A	9936356	15
SW0-E10-011-A	9935802	10

- ① For other modules or technical data, see catalog chapter "Options" or visit our website.

Cable connector

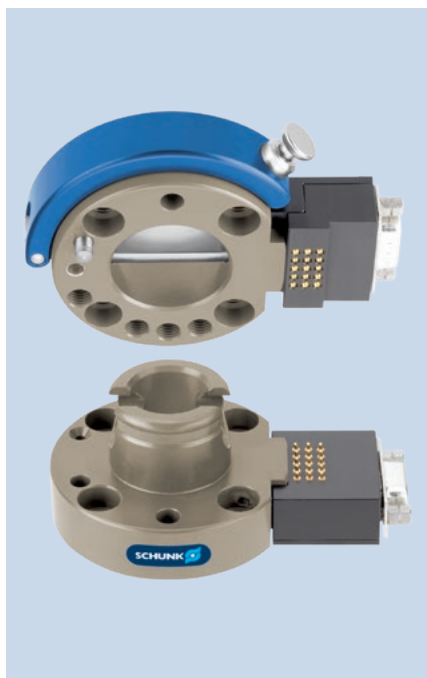


90 D-sub connecting plug

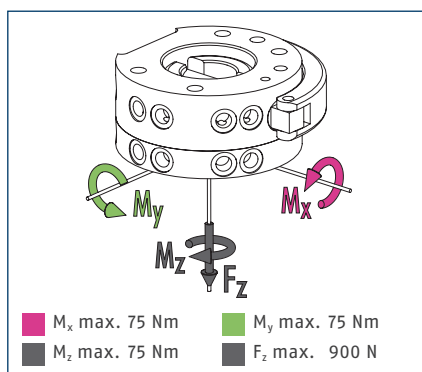
91 D-sub connector

Description	ID	
Angled cable connector, robot-side		
KAS-A15-K-90	0301301	
Angled cable connector, tool-side		
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	

① For more detailed information and other cable connectors, see catalog chapter "Options" or visit our website.



Max. loads



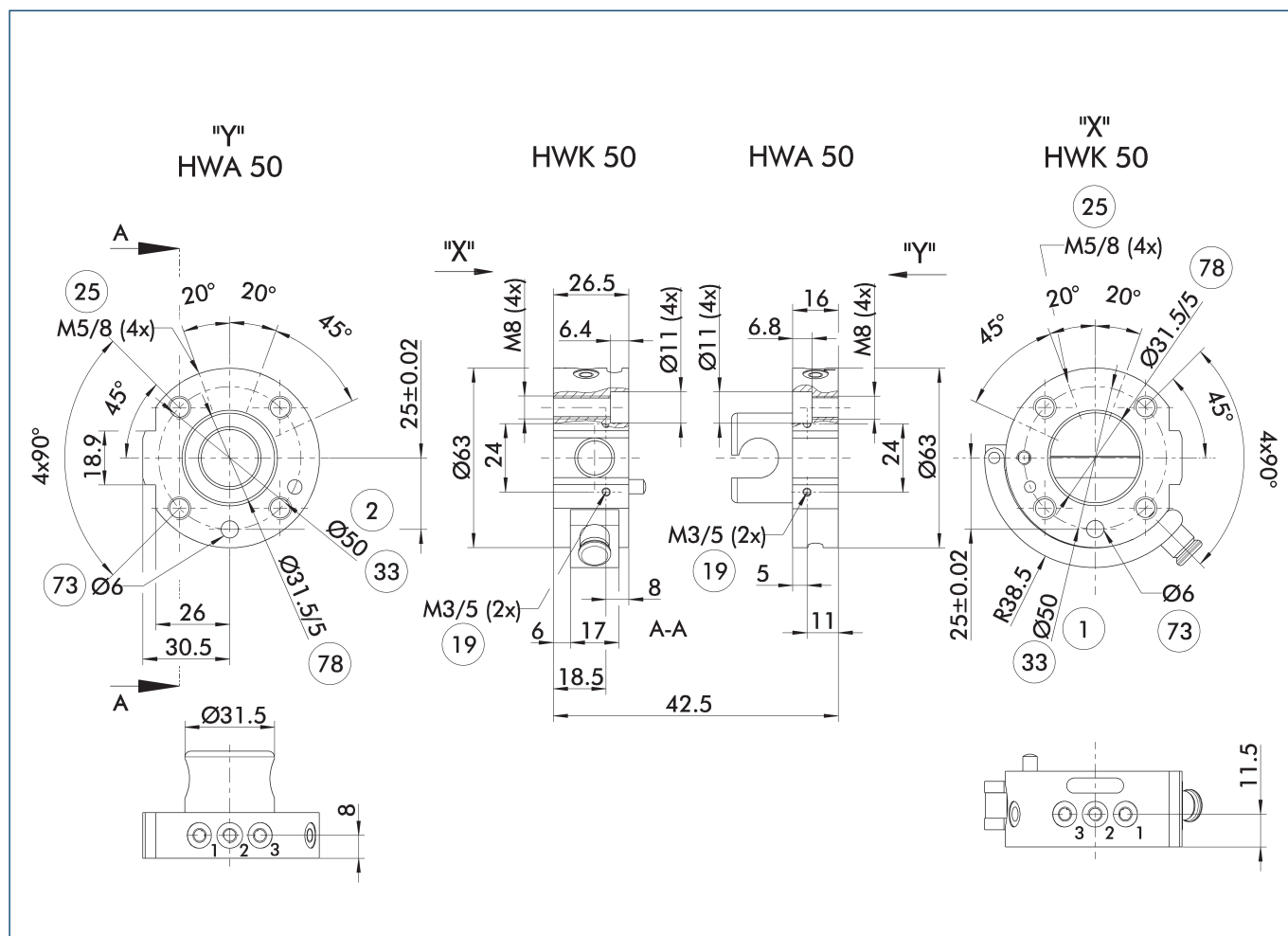
① This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		HWK-050-000-000	HWA-050-000-000
		Manual change head	Manual change adapter
ID		0302750	0302751
Recommended handling weight	[kg]	12	12
Max. dynamisches Biegemoment M_x^*	[Nm]	25	25
Max. dynamic bending moment M_y^*	[Nm]	25	25
Max. dynamic torsional moment M_z^*	[Nm]	25	25
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	0.23	0.12
Max. distance when locking	[mm]	6	6
Number of pneumatic feed-throughs		4	4
Connection threads for fluid feed-through		M5	M5
Pitch circle diameter	[mm]	50	50
Robot-side connection		ISO 9409-1-50-4-M6	
Min./max. ambient temperature	[°C]	5/60	5/60

* This is the maximum sum of all dynamic loads (acceleration forces and torques, process forces or moments, emergency stop situations, etc.) which are permitted to act individually on the change system for ensuring proper function.

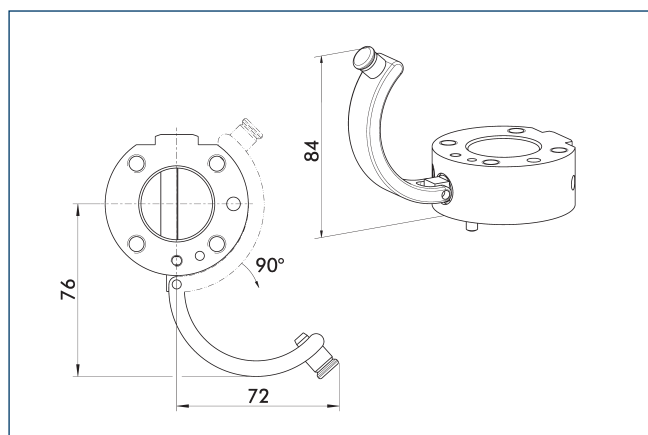
Main view



The main view shows the unit in its basic version.

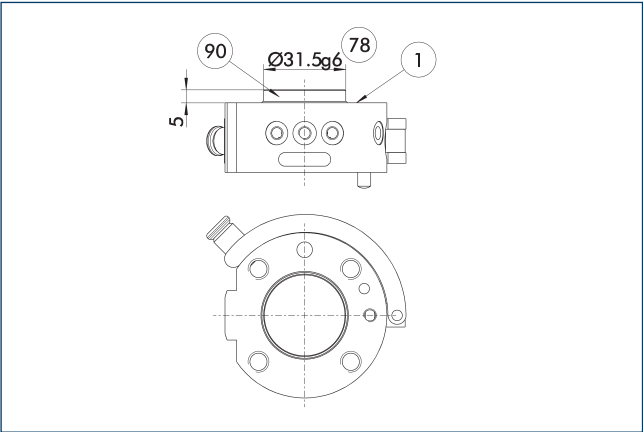
- | | |
|---------------------------------|-----------------------------|
| ① Robot-side connection | ③③ DIN ISO-9409 bolt circle |
| ② Tool-side connection | ⑦③ Fit for centering pins |
| ①⑨ Mounting surface for options | ⑦⑧ Fit for centering |
| ②⑤ Pneumatic feed-throughs | |

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.

Centering disc for HWK

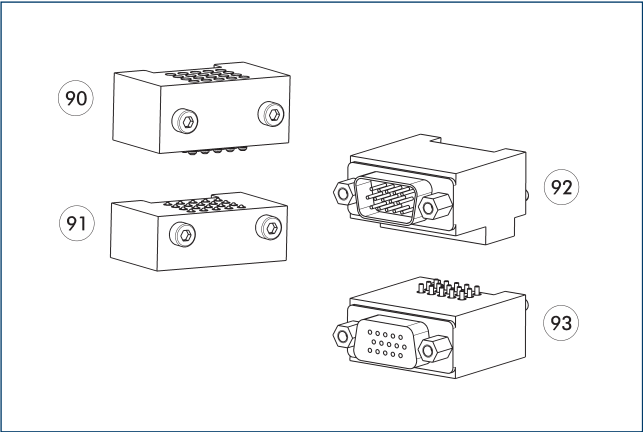


- ① Robot-side connection
- ⑨0 Centring disc
- ⑦8 Fit for centering

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

① Serves as a fitting collar for centering on mechanical interfaces, e. g. on the robot.

Electric feed-through module



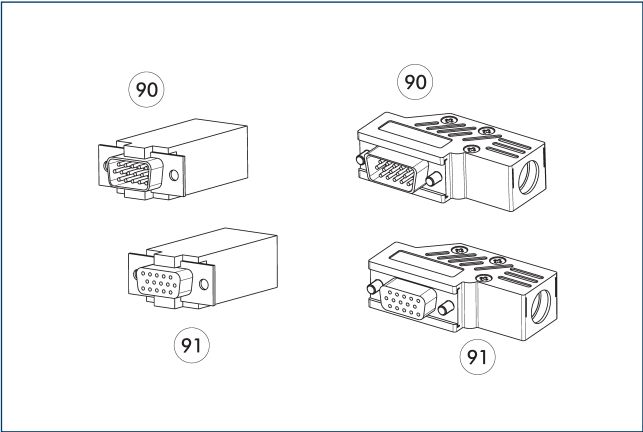
- ⑨0 E..., robot-side
- ⑨2 A.../B... robot-side
- ⑨1 E..., tool-side
- ⑨3 A.../B... tool-side

Modules for transmission of electrical signals.

Description	ID	No. Pins
Feed-through module for signal on the robot side		
SW0-A15-K	9936357	15
SW0-E10-011-K	9935801	10
Feed-through module for signal on the tool side		
SW0-A15-A	9936356	15
SW0-E10-011-A	9935802	10

① For other modules or technical data, see catalog chapter "Options" or visit our website.

Cable connector

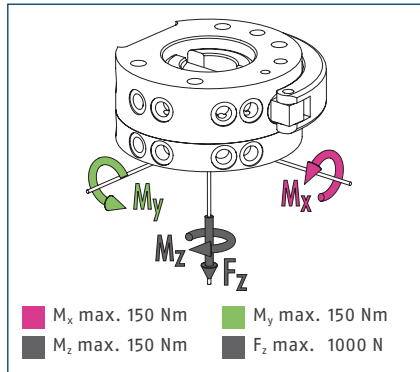


- ⑨0 D-sub connecting plug
- ⑨1 D-sub connector

Description	ID	
Angled cable connector, robot-side		
KAS-A15-K-90	0301301	
Angled cable connector, tool-side		
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	

① For more detailed information and other cable connectors, see catalog chapter "Options" or visit our website.

Max. loads



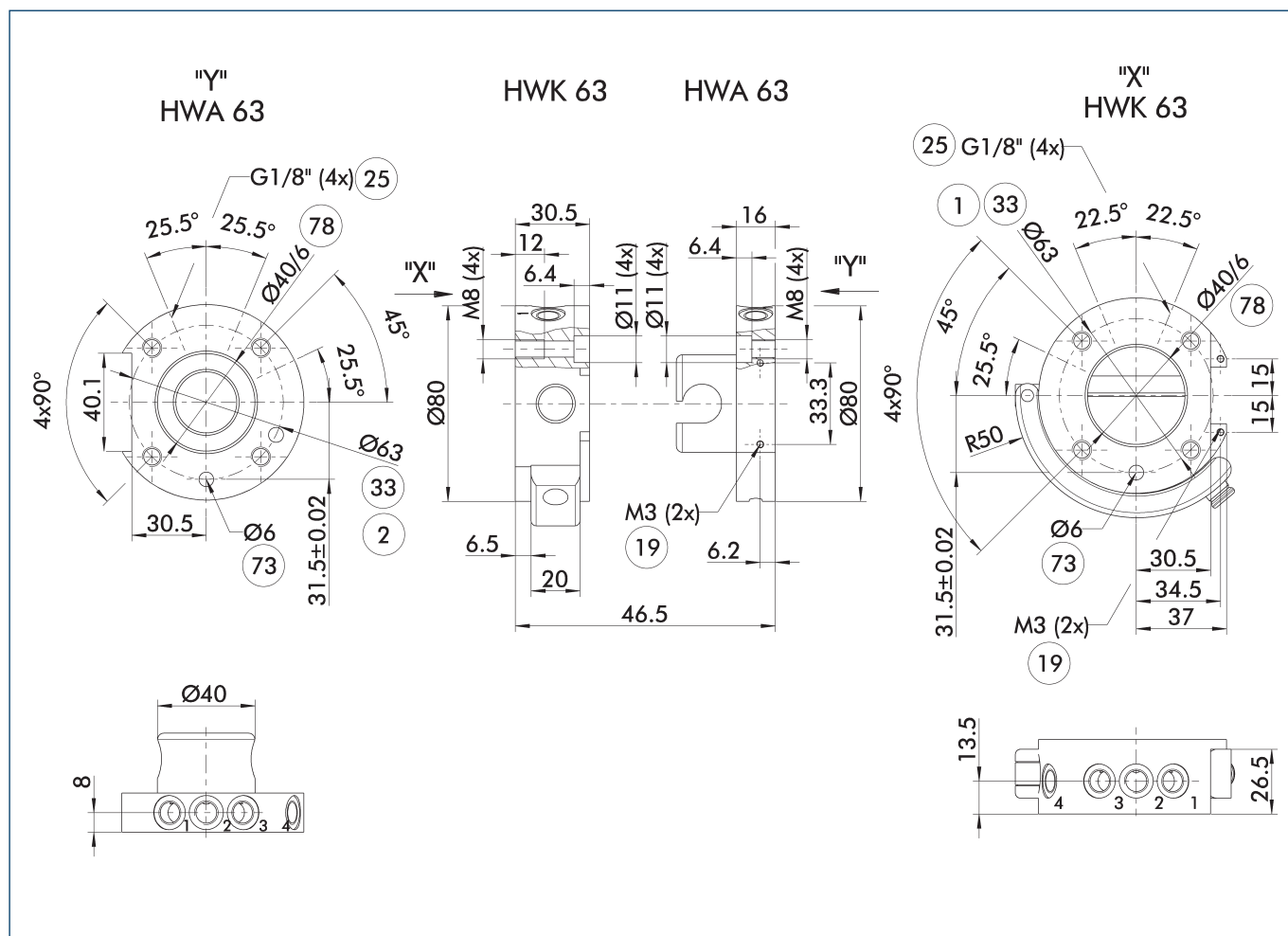
ⓘ This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		HWK-063-000-000	HWA-063-000-000
		Manual change head	Manual change adapter
ID		0302763	0302764
Recommended handling weight	[kg]	20	20
Max. dynamisches Biegemoment M_x^*	[Nm]	50	50
Max. dynamic bending moment M_y^*	[Nm]	50	50
Max. dynamic torsional moment M_z^*	[Nm]	50	50
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	0.4	0.2
Max. distance when locking	[mm]	8	8
Number of pneumatic feed-throughs		4	4
Connection threads for fluid feed-through		G1/8"	G1/8"
Pitch circle diameter	[mm]	63	63
Robot-side connection		ISO 9409-1-63-4-M6	
Min./max. ambient temperature	[°C]	5/60	5/60

* This is the maximum sum of all dynamic loads (acceleration forces and torques, process forces or moments, emergency stop situations, etc.) which are permitted to act individually on the change system for ensuring proper function.

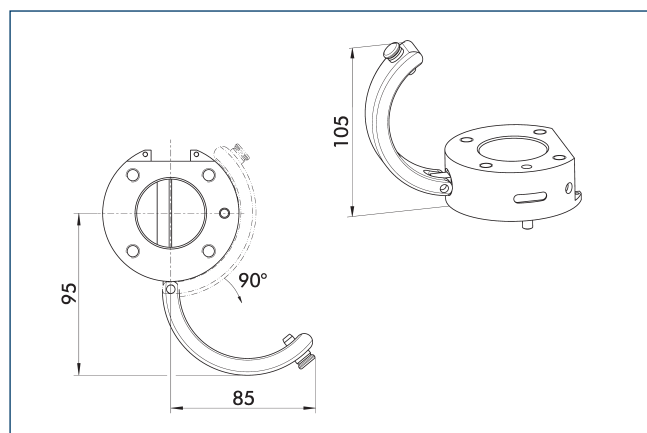
Main view



The main view shows the unit in its basic version.

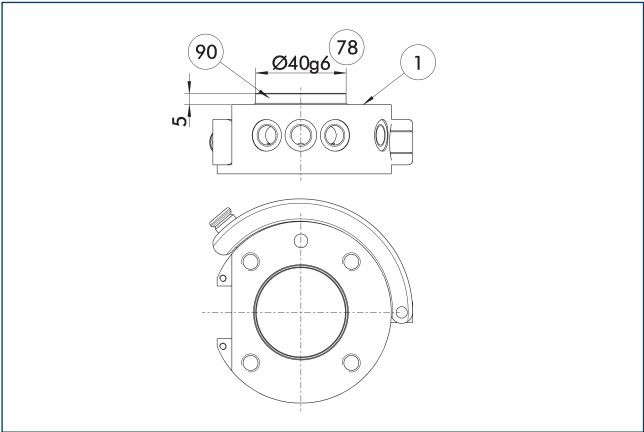
- | | |
|---------------------------------|-----------------------------|
| ① Robot-side connection | ③③ DIN ISO-9409 bolt circle |
| ② Tool-side connection | ⑦③ Fit for centering pins |
| ①⑨ Mounting surface for options | ⑦⑧ Fit for centering |
| ②⑤ Pneumatic feed-throughs | |

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.

Centering disc for HWK

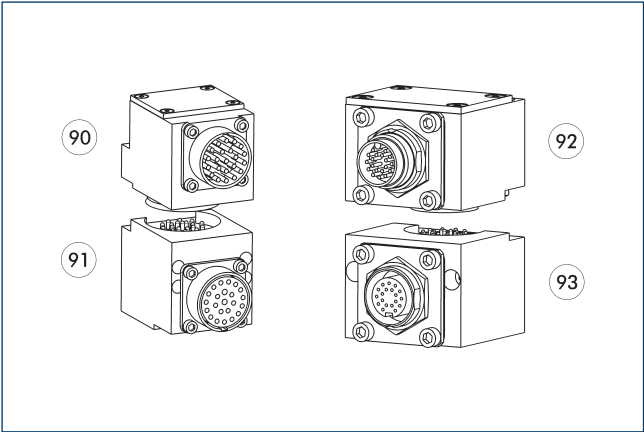


- 1 Robot-side connection
- 78 Fit for centering
- 90 Centring disc

Description	ID
Centering disc	
A-HWK-063-B0SS	0302765

① Serves as a fitting collar for centering on mechanical interfaces, e. g. on the robot.

Electric feed-through module



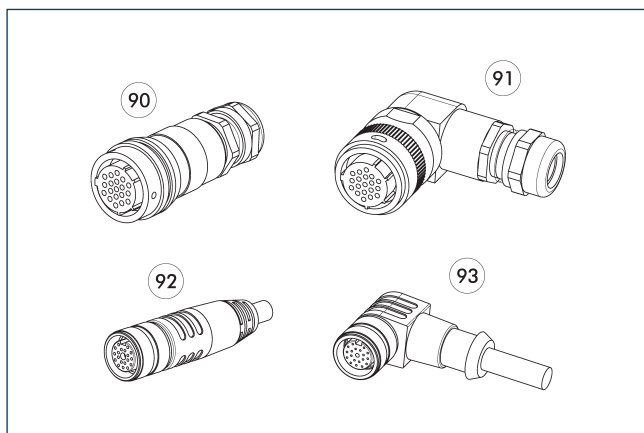
- 90 Electric module with bayonet fitting, robot-side
- 91 Electric module with bayonet fitting, tool-side
- 92 Electric module with metric thread, robot-side
- 93 Electric module with metric thread, tool-side

Modules for transmission of electrical signals.

Description	ID	No. Pins
Feed-through module for signal on the robot side		
SW0-K19-K	9937328	19
SW0-K26-K	9937798	26
SW0-KF19-K	9959886	19
Feed-through module for signal on the tool side		
SW0-K19-A	9937329	19
SW0-K26-A	9937799	26
SW0-KF19-A	9959887	19

① For other modules or technical data, see catalog chapter "Options" or visit our website.

Cable connector/cable extension



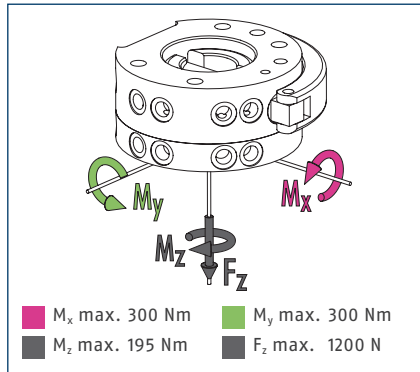
- 90 Connection plug / socket straight
 91 Connection plug / socket at an angle
 92 Connection plug / socket straight with extension cable
 93 Connection plug / socket at an angle with extension cable

Other cable lengths on request.

Description	ID	Length [m]
Angled cable connector, robot-side		
KAS-19B-K-90-C	0301294	
KAS-26B-K-90-C	0301296	
Angled cable connector, tool-side		
KAS-19B-A-90-C	0301295	
KAS-19G-A-90	0301237	
KAS-26B-A-90-C	0301297	
Angled cable connector with cable, robot-side		
KV-10-SWK-19F-90	0302173	10
KV-3-SWK-19B-90	0302179	3
KV-3-SWK-26B-90	0302185	3
KV-5-SWK-19B-90	0302190	5
KV-5-SWK-19F-90	0302172	5
KV-5-SWK-26B-90	0302186	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19B-90	0302191	3
KV-3-SWA-19F-90	0302175	3
KV-3-SWA-26B-90	0302187	3
Straight cable connector, robot-side		
KAS-19B-K-0-C	0301283	
KAS-26B-K-0-C	0301290	
Straight cable connector, tool-side		
KAS-19B-A-0-C	0301284	
KAS-19G-A-0	0301233	
KAS-26B-A-0-C	0301291	
Straight cable connector 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 connector 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

① For more detailed information and other cable connectors, see catalog chapter "Options" or visit our website.

Max. loads



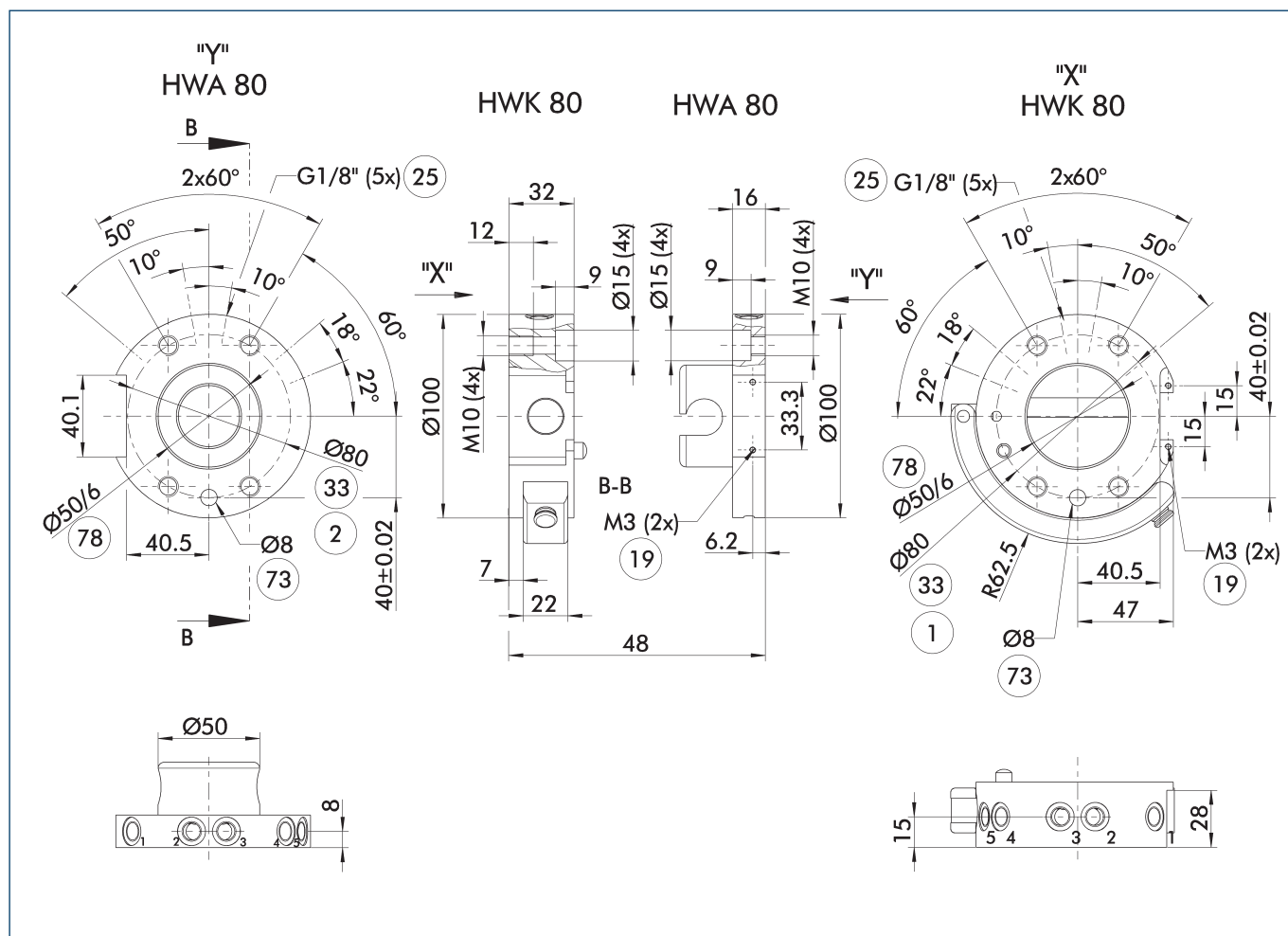
ⓘ This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		HWK-080-000-000	HWA-080-000-000
		Manual change head	Manual change adapter
ID		0302780	0302781
Recommended handling weight	[kg]	24	24
Max. dynamisches Biegemoment M_x^*	[Nm]	100	100
Max. dynamic bending moment M_y^*	[Nm]	100	100
Max. dynamic torsional moment M_z^*	[Nm]	65	65
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	0.6	0.3
Max. distance when locking	[mm]	8	8
Number of pneumatic feed-throughs		5	5
Connection threads for fluid feed-through		G1/8"	G1/8"
Pitch circle diameter	[mm]	80	80
Robot-side connection		ISO 9409-1-80-6-M8	
Min./max. ambient temperature	[°C]	5/60	5/60

* This is the maximum sum of all dynamic loads (acceleration forces and torques, process forces or moments, emergency stop situations, etc.) which are permitted to act individually on the change system for ensuring proper function.

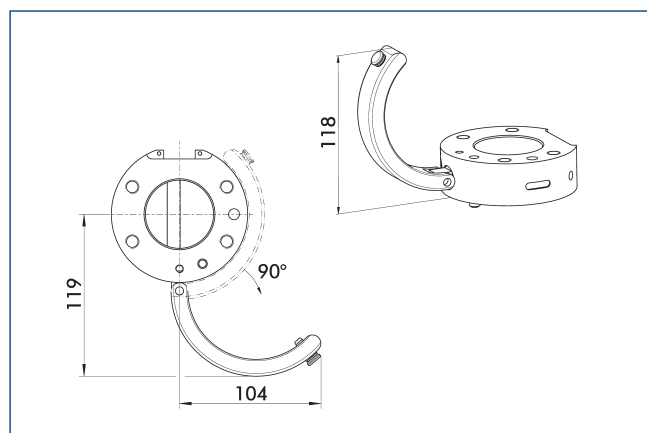
Main view



The main view shows the unit in its basic version.

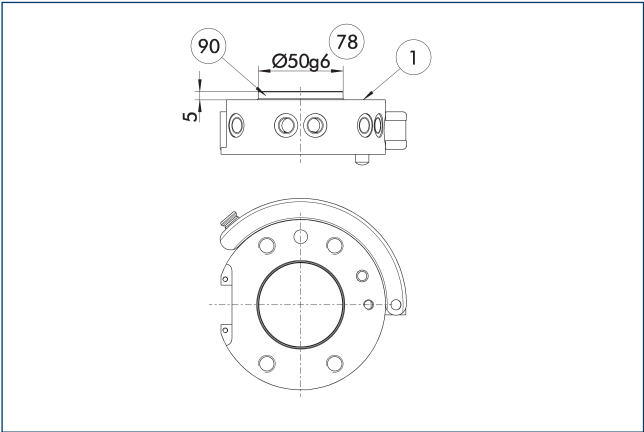
- | | |
|---------------------------------|-----------------------------|
| ① Robot-side connection | ③③ DIN ISO-9409 bolt circle |
| ② Tool-side connection | ⑦③ Fit for centering pins |
| ①⑨ Mounting surface for options | ⑦⑧ Fit for centering |
| ②⑤ Pneumatic feed-throughs | |

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.

Centering disc for HWK

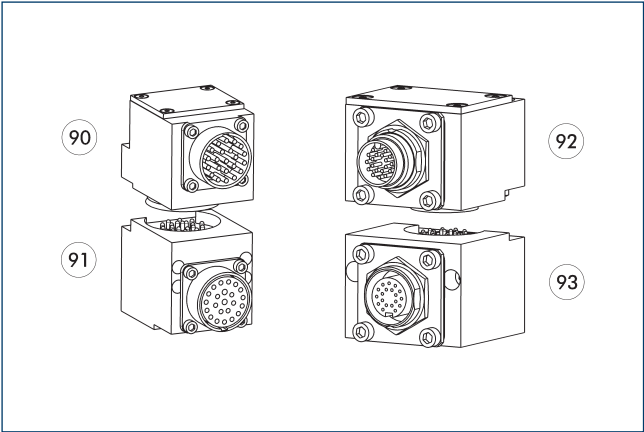


- 1 Robot-side connection
- 78 Fit for centering
- 90 Centring disc

Description	ID	
Centering disc		
A-HWK-080-BOSS	0302782	

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

Electric feed-through module



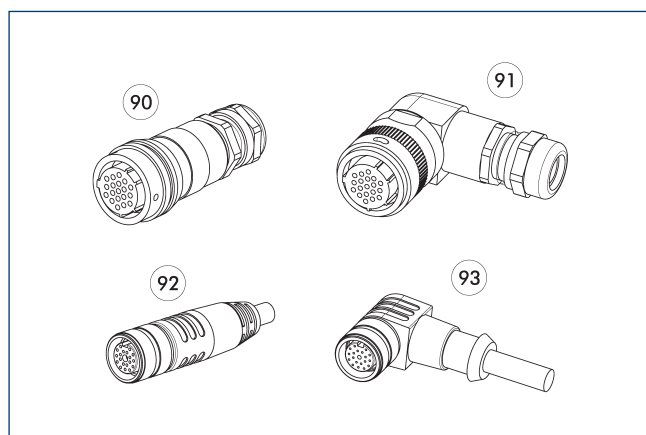
- 90 Electric module with bayonet fitting, robot-side
- 91 Electric module with bayonet fitting, tool-side
- 92 Electric module with metric thread, robot-side
- 93 Electric module with metric thread, tool-side

Modules for transmission of electrical signals.

Description	ID	No. Pins
Feed-through module for signal on the robot side		
SW0-K19-K	9937328	19
SW0-K26-K	9937798	26
SW0-KF19-K	9959886	19
Feed-through module for signal on the tool side		
SW0-K19-A	9937329	19
SW0-K26-A	9937799	26
SW0-KF19-A	9959887	19

- ⓘ For other modules or technical data, see catalog chapter "Options" or visit our website.

Cable connector/cable extension



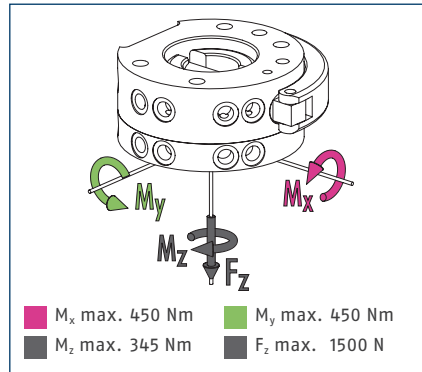
- 90 Connection plug / socket straight
 91 Connection plug / socket at an angle
 92 Connection plug / socket straight with extension cable
 93 Connection plug / socket at an angle with extension cable

Other cable lengths on request.

Description	ID	Length [m]
Angled cable connector, robot-side		
KAS-19B-K-90-C	0301294	
KAS-26B-K-90-C	0301296	
Angled cable connector, tool-side		
KAS-19B-A-90-C	0301295	
KAS-26B-A-90-C	0301297	
Angled cable connector with cable, robot-side		
KV-10-SWK-19F-90	0302173	10
KV-3-SWK-19B-90	0302179	3
KV-3-SWK-26B-90	0302185	3
KV-5-SWK-19B-90	0302190	5
KV-5-SWK-19F-90	0302172	5
KV-5-SWK-26B-90	0302186	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19B-90	0302191	3
KV-3-SWA-19F-90	0302175	3
KV-3-SWA-26B-90	0302187	3
Straight cable connector, robot-side		
KAS-19B-K-0-C	0301283	
KAS-26B-K-0-C	0301290	
Straight cable connector, tool-side		
KAS-19B-A-0-C	0301284	
KAS-26B-A-0-C	0301291	
Straight cable connector 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 connector 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

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

Max. loads



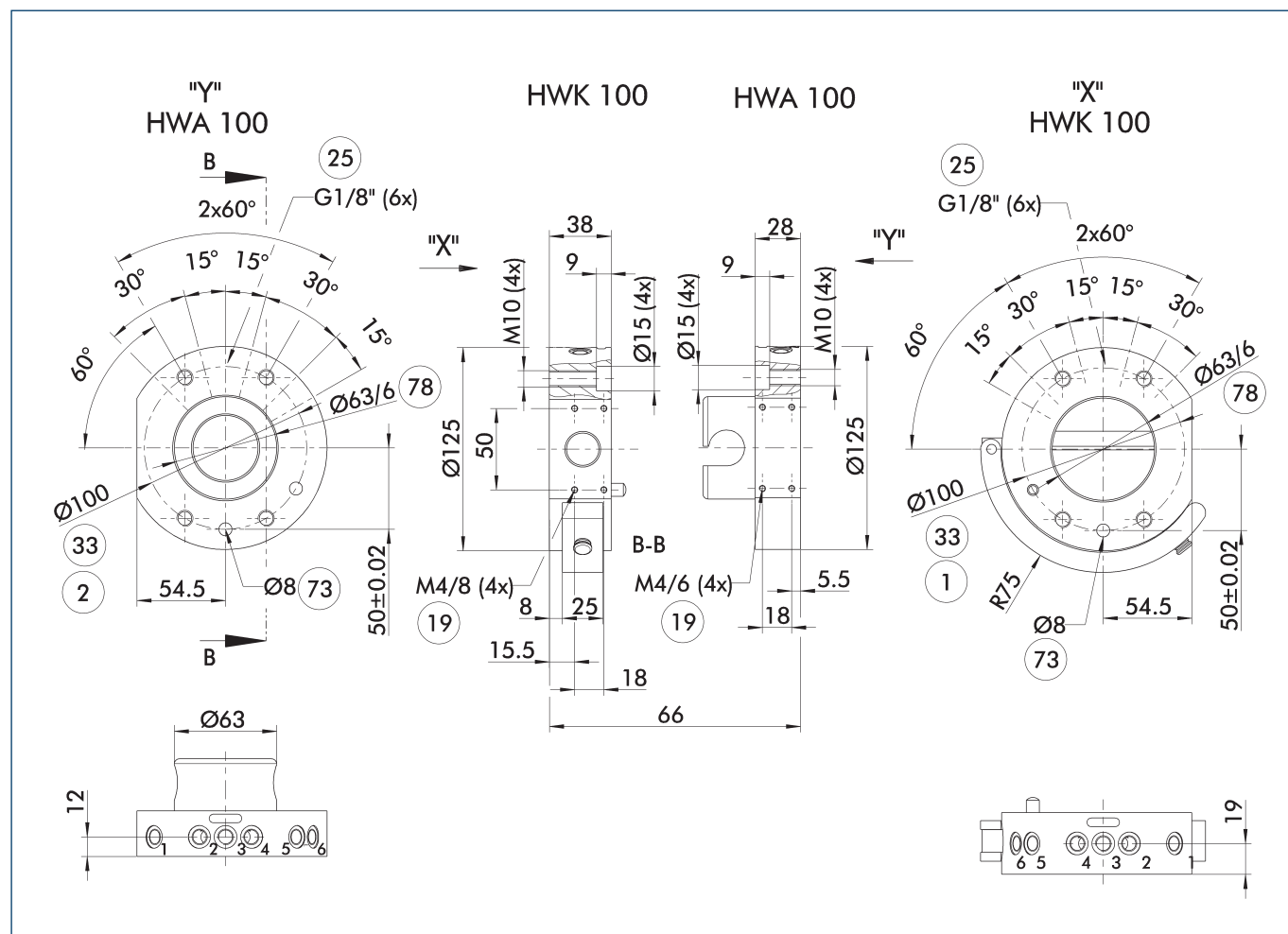
ⓘ This is the max. sum of all forces and moments which are permitted to act on the change system for ensuring proper functioning.

Technical data

Description		HWK-100-000-000	HWA-100-000-000
		Manual change head	Manual change adapter
ID		0302800	0302801
Recommended handling weight	[kg]	30	30
Max. dynamisches Biegemoment M_x^*	[Nm]	150	150
Max. dynamic bending moment M_y^*	[Nm]	150	150
Max. dynamic torsional moment M_z^*	[Nm]	115	115
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	1.2	0.9
Max. distance when locking	[mm]	8	8
Number of pneumatic feed-throughs		6	6
Connection threads for fluid feed-through		G1/8"	G1/8"
Pitch circle diameter	[mm]	100	100
Robot-side connection		ISO 9409-1-100-6-M8	
Min./max. ambient temperature	[°C]	5/60	5/60

* This is the maximum sum of all dynamic loads (acceleration forces and torques, process forces or moments, emergency stop situations, etc.) which are permitted to act individually on the change system for ensuring proper function.

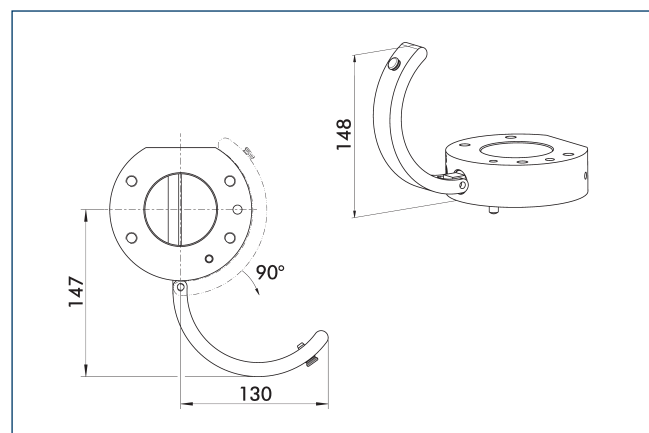
Main view



The main view shows the unit in its basic version.

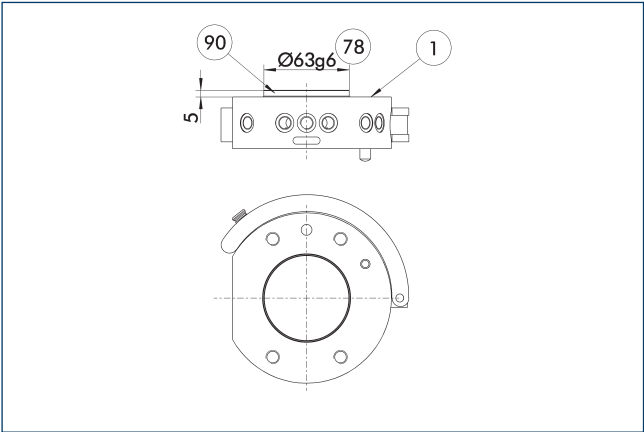
- | | |
|---------------------------------|-----------------------------|
| ① Robot-side connection | ③③ DIN ISO-9409 bolt circle |
| ② Tool-side connection | ⑦③ Fit for centering pins |
| ①⑨ Mounting surface for options | ⑦⑧ Fit for centering |
| ②⑤ Pneumatic feed-throughs | |

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.

Centering disc for HWK

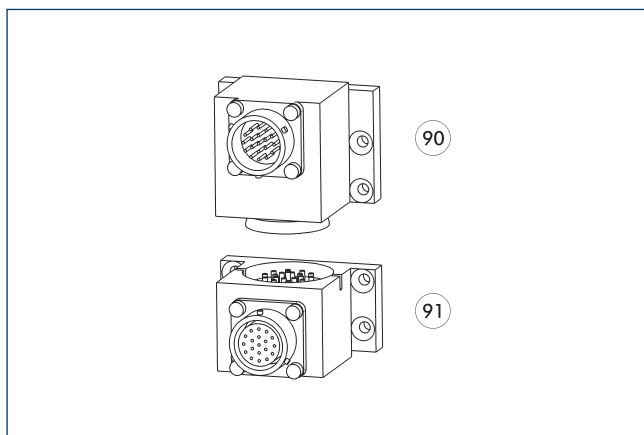


- ① Robot-side connection
- ⑨⑩ Centring disc
- ⑦⑧ Fit for centering

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

- ① Serves as a fitting collar for centering on mechanical interfaces, e. g. on the robot.

Electric feed-through module



90 Robot side

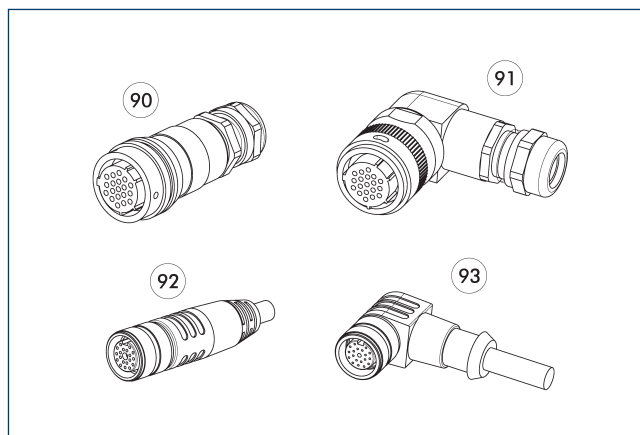
91 Tool side

Modules for transmission of electrical signals.

Description	ID	No. Pins
Feed-through module for signal on the robot side		
SW0-G19-K	9940649	19
SW0-G26-K	9941560	26
SW0-GF19-K	9948655	19
SW0-R19-K	9935815	19
SW0-R26-K	9935819	26
SW0-RF19-K	9948654	19
Feed-through module for signal on the tool side		
SW0-G19-A	9940650	19
SW0-G26-A	9941561	26
SW0-GF14-A	9957468	14
SW0-GF19-A	9948658	19
SW0-R19-A	9935816	19
SW0-R26-A	9935820	26
SW0-RF19-A	9948657	19

① For other modules or technical data, see catalog chapter "Options" or visit our website.

Cable connector/cable extension



90 Connection plug / socket straight

91 Connection plug / socket at an angle

92 Connection plug / socket straight with extension cable

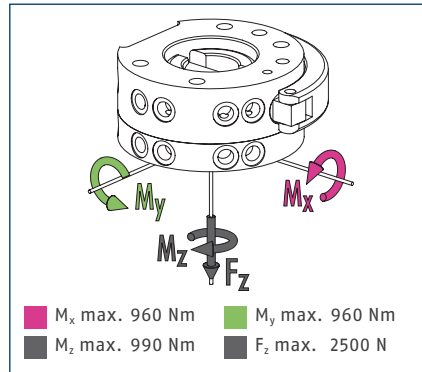
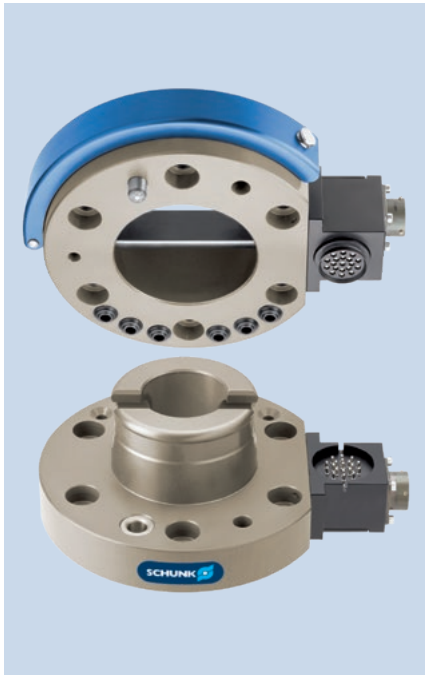
93 Connection plug / socket at an angle with extension cable

Other cable lengths on request.

Description	ID	Length [m]
Angled cable connector, robot-side		
KAS-19B-K-90-C	0301294	
KAS-26B-K-90-C	0301296	
Angled cable connector, tool-side		
KAS-19B-A-90-C	0301295	
KAS-26B-A-90-C	0301297	
Angled cable connector with cable, robot-side		
KV-10-SWK-19F-90	0302173	10
KV-3-SWK-19B-90	0302179	3
KV-3-SWK-26B-90	0302185	3
KV-5-SWK-19B-90	0302190	5
KV-5-SWK-19F-90	0302172	5
KV-5-SWK-26B-90	0302186	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19B-90	0302191	3
KV-3-SWA-19F-90	0302175	3
KV-3-SWA-26B-90	0302187	3
Straight cable connector, robot-side		
KAS-19B-K-0-C	0301283	
KAS-26B-K-0-C	0301290	
Straight cable connector, tool-side		
KAS-19B-A-0-C	0301284	
KAS-26B-A-0-C	0301291	
Straight cable connector 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 connector 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

① For more detailed information and other cable connectors, see catalog chapter "Options" or visit our website.

Max. 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

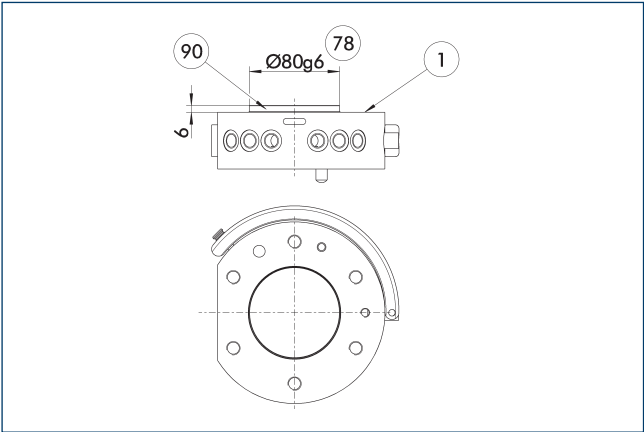
Description		HWK-125-000-000	HWA-125-000-000
		Manual change head	Manual change adapter
ID		0302825	0302826
Recommended handling weight	[kg]	54	54
Max. dynamisches Biegemoment M_x^*	[Nm]	320	320
Max. dynamic bending moment M_y^*	[Nm]	320	320
Max. dynamic torsional moment M_z^*	[Nm]	330	330
Repeat accuracy	[mm]	0.01	0.01
Weight	[kg]	2.4	1.5
Max. distance when locking	[mm]	10	10
Number of pneumatic feed-throughs		6	6
Connection threads for fluid feed-through		G1/4"	G1/4"
Pitch circle diameter	[mm]	125	125
Robot-side connection		ISO 9409-1-125-6-M10	
Min./max. ambient temperature	[°C]	5/60	5/60

* This is the maximum sum of all dynamic loads (acceleration forces and torques, process forces or moments, emergency stop situations, etc.) which are permitted to act individually on the change system for ensuring proper function.

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

27

Centering disc for HWK

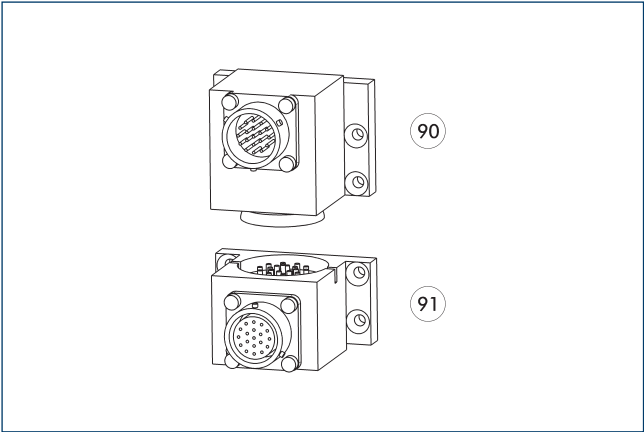


- 1 Robot-side connection
- 78 Fit for centering
- 90 Centring disc

Description	ID	
Centering disc		
A-HWK-125-B05S	0302827	

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

Electric feed-through module



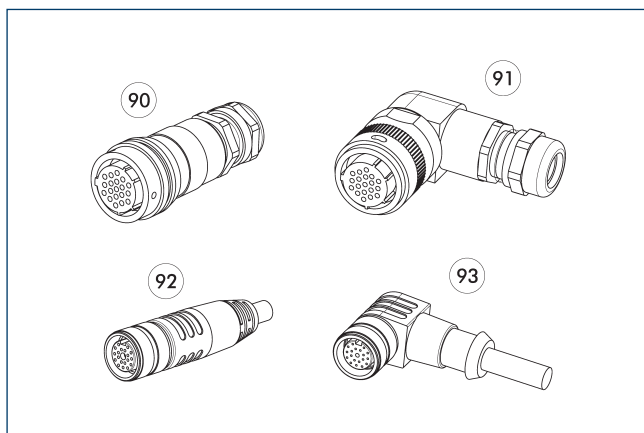
- 90 Robot side
- 91 Tool side

Modules for transmission of electrical signals.

Description	ID	No. Pins
Feed-through module for signal on the robot side		
SW0-G19-K	9940649	19
SW0-G26-K	9941560	26
SW0-GF19-K	9948655	19
SW0-R19-K	9935815	19
SW0-R26-K	9935819	26
SW0-RF19-K	9948654	19
Feed-through module for signal on the tool side		
SW0-G19-A	9940650	19
SW0-G26-A	9941561	26
SW0-GF19-A	9948658	19
SW0-R19-A	9935816	19
SW0-R26-A	9935820	26
SW0-RF19-A	9948657	19

- 1 For other modules or technical data, see catalog chapter "Options" or visit our website.

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, robot-side		
KAS-19B-K-90-C	0301294	
KAS-26B-K-90-C	0301296	
Angled cable connector, tool-side		
KAS-19B-A-90-C	0301295	
KAS-26B-A-90-C	0301297	
Angled cable connector with cable, robot-side		
KV-10-SWK-19F-90	0302173	10
KV-3-SWK-19B-90	0302179	3
KV-3-SWK-26B-90	0302185	3
KV-5-SWK-19B-90	0302190	5
KV-5-SWK-19F-90	0302172	5
KV-5-SWK-26B-90	0302186	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19B-90	0302191	3
KV-3-SWA-19F-90	0302175	3
KV-3-SWA-26B-90	0302187	3
Straight cable connector, robot-side		
KAS-19B-K-0-C	0301283	
KAS-26B-K-0-C	0301290	
Straight cable connector, tool-side		
KAS-19B-A-0-C	0301284	
KAS-26B-A-0-C	0301291	
Straight cable connector 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 connector 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

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

SCHUNK GmbH & Co. KG
Spann- und Greiftechnik

Bahnhofstr. 106 - 134
D-74348 Lauffen/Neckar
Tel. +49-7133-103-0
Fax +49-7133-103-2399
info@de.schunk.com
schunk.com

Follow us

