



Hand in hand for tomorrow



Product data sheet

Gripper for small components EGK 40

Process-reliable. Flexible. Intelligent.

Flexible gripper for small components EGK

Versatile 2-finger gripper for small components for maximum workpiece variety with maximum process reliability

Field of application

Flexible handling of printed circuit boards in electronics manufacturing, sample and tray handling in laboratory automation, and universal workpiece handling. Particularly suitable for filigree and fracture-sensitive workpieces due to low impulse forces. Use in clean to lightly soiled work environments with contamination from dust or liquids.

Advantages – Your benefits

Versatile and productive due to the large and freely programmable jaw stroke with continuous gripping force adjustment for flexible workpiece handling

Reliable and sensitive Particularly suitable for the requirements of laboratory automation and electronics production due to the sealed design and smooth-running profiled rail guide

Maximum process reliability by avoiding workpiece loss due to integrated gripping force maintenance with loss detection

Always referenced both with an emergency stop and a power failure due to integrated absolute encoder

100% gripping force without start-up distance with constant gripping force over the entire finger length due to integrated spur gear

Minimal integration effort compatible with the leading manufacturers on the market due to a wide range of communication interfaces, as well as PLC function blocks and robot plug-ins



Sizes
Quantity: 3

m

Weight
0.58 .. 1.63 kg



Gripping force
50 .. 300 N

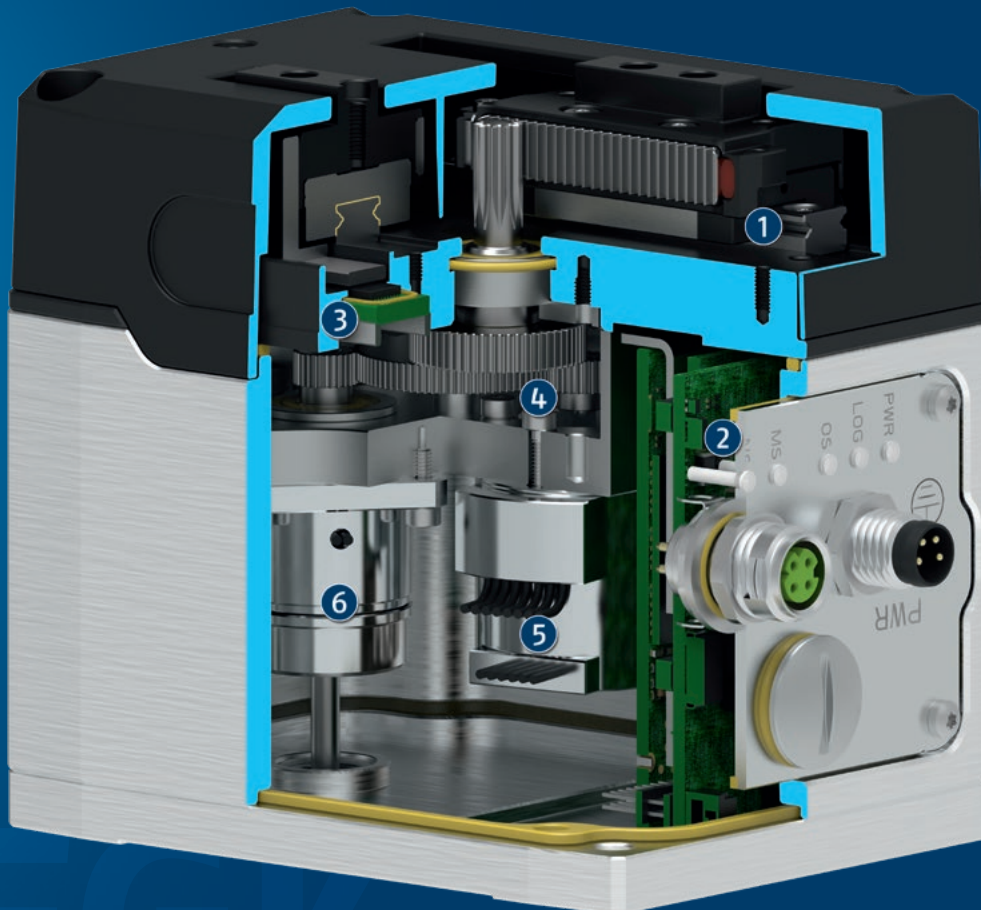


Stroke per jaw
26.5 .. 51.5 mm

Functional description

The user has access to the highest level of functionality due to the components embedded in the gripper. This allows the gripper fingers to be pre-positioned at high speed or for dipping into a workpiece holder. The gripping force can be continuously adjusted to the workpiece handling requirement. Workpiece recognition enables full process transparency for the user. In an emergency stop situation, workpiece loss can be avoided due to the integrated gripping force maintenance.

The BasicGrip and SoftGrip gripping modes are available. With BasicGrip and SoftGrip, continuous operation of the motor and thus permanent re-gripping of the workpiece is possible. The gripping speed is automatically optimized to the gripping force setting with BasicGrip. With SoftGrip, fracture-sensitive workpieces can be gripped particularly gently by reducing the impulse forces to a minimum when they hit the workpiece.



- ① **Smooth profiled rail guidance**
with stainless steel front seal and food-compliant lubrication and cover made from resistant polycarbonate.
- ② **Fully integrated and sealed control and power electronics**
with status LEDs and M8 plug connectors for connecting the voltage supply and communication.
- ③ **High-resolution, output-side absolute encoder**
for precise positioning of the gripper jaws with permanent absolute position feedback.
- ④ **Sealed drive train with spur gear and pinion/rack principle**
for a constantly acting gripping force over the entire finger length, without a minimum approach distance.
- ⑤ **Brushless flat motor**
for limited space and high torques due to external rotor.
- ⑥ **Electromagnetic brake**
with additional mechanism for maintaining gripping force and position during standstill or power failure.

Detailed functional description

Connectivity



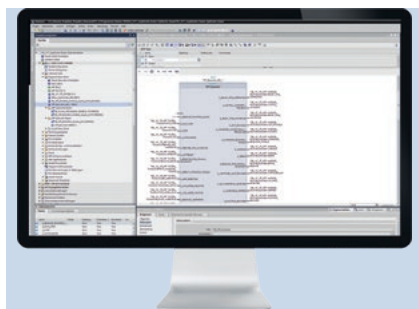
A wide range of available communication interfaces simplifies handling with a wide variety of control and robot manufacturers and ensures time savings during integration. Industrial Ethernet (PROFINET, EtherCAT, EtherNet/IP) enables direct integration without additional gateways into the control environment of leading PLC manufacturers on the market. With the Modbus RTU serial interface, the gripper can be connected to the tool flange of leading robot manufacturers without external cable routing. IO-Link is independent and offers flexibility in connecting to other networks.

Software Service – Robot integration



For seamless interaction between gripper and robot, software modules for integration into the robot control system of leading manufacturers are available. This means that the gripper's range of functions can be used directly without any additional programming effort and programming of the application can be started immediately. Robot compatibility: Universal Robots e-Series via Modbus RTU, FANUC CRX via Modbus RTU, ABB OmniCore C30 via EtherNet/IP, YASKAWA YRC1000micro via EtherNet/IP, Kassow Robots via Modbus RTU. Software and other compatibility notes can be downloaded at schunk.com/egu-software.

Software Service – PLC integration



For seamless interaction between gripper and PLC control, function modules for the programming interface of leading manufacturers is available. This means that the gripper's range of functions can be used directly without any additional programming effort and programming of the application can be started immediately. PLC compatibility: Siemens TIA Portal (PROFINET and IO-Link), Beckhoff TwinCAT (EtherCAT and IO-Link), Allen Bradley Studio 5000 Logix Designer (EtherNet/IP and IO-Link), Bosch Rexroth ctrlX (EtherCAT, only with Bosch Nexeed Automation). Software and other compatibility notes can be downloaded at schunk.com/egu-software.

Commissioning app in the SCHUNK control center



The mechatronic grippers app simplifies commissioning, operation, diagnostics and service thanks to an extensive catalog of functions. Users can control the gripper directly and perform application validation without the need for a PLC. The functions include network configuration, firmware updates, parameter adjustments and backups as well as comprehensive diagnostic options. The app is compatible with Windows and can be downloaded at schunk.com/downloads-software.

General notes about the series

Housing material: Aluminum alloy, anodized

Base jaw material: hard-anodized, high strength aluminum

Warranty: 24 months or 5 million cycles (one cycle consists of a complete gripping process: "Open gripper" and "Close gripper")

Scope of delivery: Gripper including safety information and accessory kit with centering sleeves for gripper and finger mounting. Product-specific instructions and software can be downloaded at schunk.com/downloads-manuals and schunk.com/downloads-software.

Gripping force: is the arithmetic sum of the individual force applied to each jaw at distance P (see illustration).

Repeat accuracy (gripping): defined as the spread of the actual position during 100 consecutive closing or opening movements on a rigid workpiece or a fixed workpiece stop under constant conditions.

Repeat accuracy (positioning, unidirectional): defined as the spread of the actual position per base jaw during 100 consecutive movements to a target position from the same direction under constant conditions.

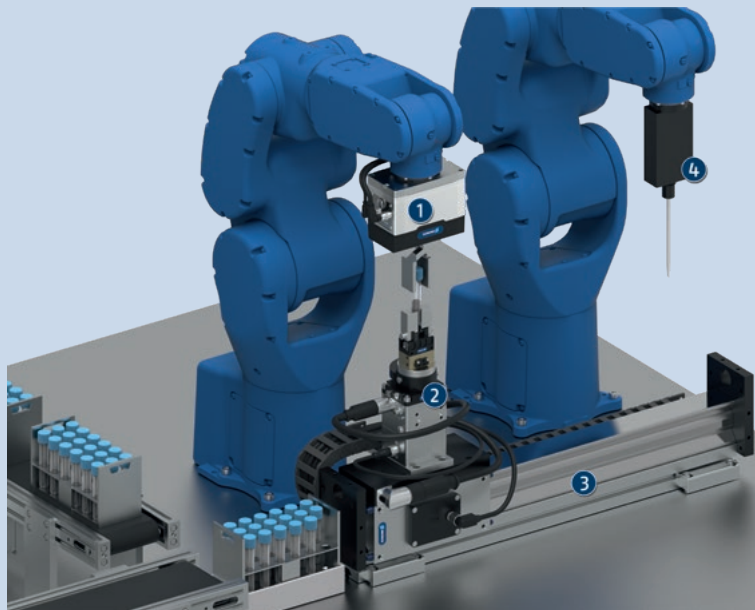
Repeat accuracy (positioning, bi-directional): defined as the distribution of the actual position per base jaw during 100 consecutive movements to a target position from both directions under constant conditions.

Finger length: is measured from the reference surface as the distance P in direction to the main axis.

Positioning accuracy: is defined as the deviation of the actual position per jaw during 100 consecutive, unidirectional positioning movements to a defined position under constant conditions.

Closing and opening times (positioning): Closing and opening times are only the movement times of the fingers at max. speed, as well as max. acceleration with observance of the max. permissible mass per finger and refer to the traverse path per jaw and 50% of the nominal stroke.

Max. speed (positioning) and max. acceleration: is the arithmetic sum of the velocity and acceleration acting on each jaw.



Application example

Flexible laboratory automation with automated sample evaluation. The servo-electric gripper handles trays and sample vials. Unscrewing takes place in an unscrewing station while the gripper holds the lid in place. After the lid is opened, the sample vials are fed to the pipetting unit and the sample is taken.

- ❶ Gripper for small components, electric EGK for tray and specimen handling
- ❷ Unscrewing station with gripper for small components MPG-plus and rotary drive ERD
- ❸ Horizontal traversing axis LDN
- ❹ Pipetting unit

SCHUNK offers more ...

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



Power cable



Communication cables



Intermediate jaw



Robot adaptation kits



Customizable gripper fingers



Finger blank



Jaw quick-change system

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

Gripping modes: The BasicGrip and SoftGrip gripping modes are available. With BasicGrip and SoftGrip, continuous operation of the motor and thus permanent re-gripping of the workpiece is possible. The gripping speed is automatically optimized to the gripping force setting with BasicGrip. With SoftGrip, fracture-sensitive workpieces can be gripped particularly gently by reducing the impulse forces to a minimum when they hit the workpiece.

Gripping force maintenance: In the event of an emergency stop or a voltage drop, more than 75% of the originally applied gripping force can be reliably maintained due to a combination of an electric holding brake and the initial tension of the elastic element. If the gripping force and position maintenance is activated preventatively, 90% of the originally applied gripping force can be maintained. Overrun of the gripper fingers when removing the workpiece is a few millimeters and depends on the gripping force generated. Variants without gripping force maintenance are also available as an option.

Seal: The gripper comes standard with enhanced protection against the ingress of dust or liquids. The IP protection of the electronics is only given if the plug connectors have been mounted properly. The gearbox of the gripper is additionally protected by a seal on the output pinions.

Interface of the base jaws: When using the intermediate jaw, the interface of the base jaws corresponds to that of the universal gripper PGN-plus-P. This means that the extensive range of finger accessories for the PGN-plus-P can also be used for this gripper, taking into account the interfering contours, and the application limits that apply.

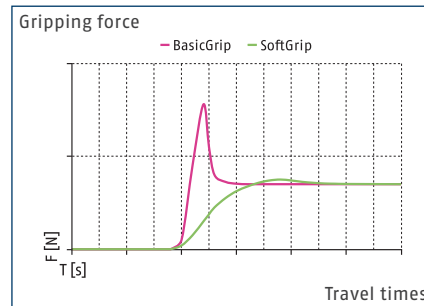
Food-grade lubrication: The product contains food-compliant lubricants as standard. The requirements of standard EN 1672-2:2020 are not fully met. The relevant NSF certificates are available at <https://info.nsf.org/USDA/Listings.asp> using the lubricant information in the operating manual. Components such as rolling bearings, linear guides, or shock absorbers are not provided with food-compliant lubricants.

Ordering example

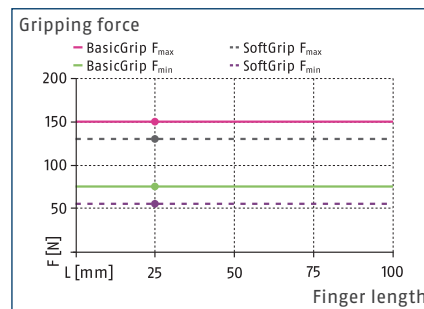
					EGK	25	-	PN	-	M	-	B
Description												
EGK												
Size												
25												
40												
50												
Communication interface												
PN = PROFINET												
EI = EtherNet/IP												
EC = EtherCAT												
IL = IO-Link												
MB = Modbus RTU												
Gripping force maintenance												
M = with gripping force maintenance												
N = without gripping force maintenance												
Version												
B = Basic version												



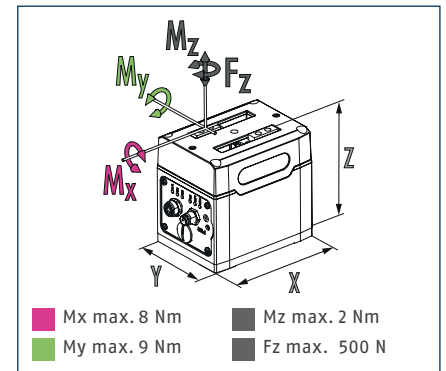
Gripping modes



Gripping force I.D. gripping



Dimensions and maximum loads

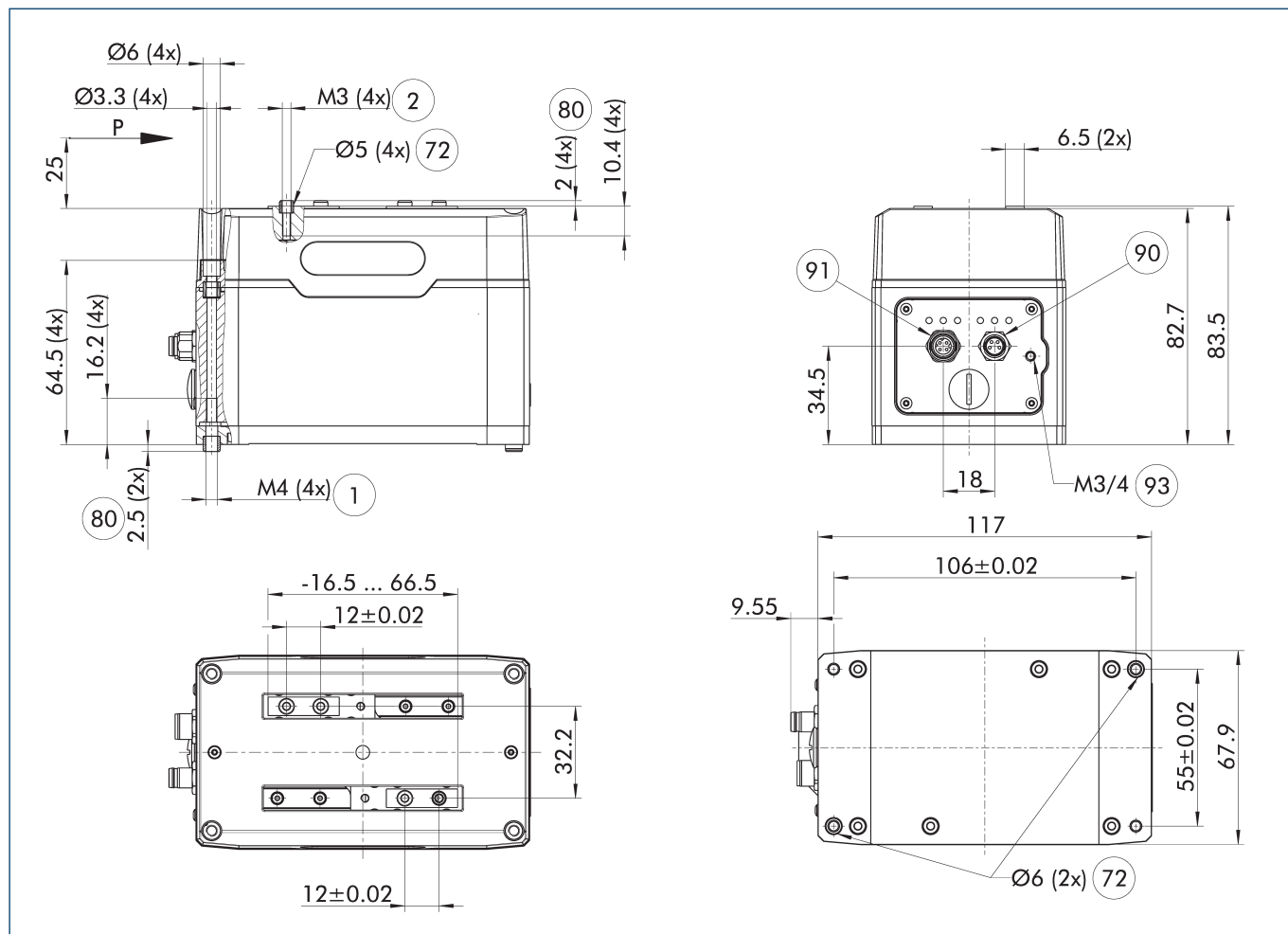


① The indicated moments and forces are static values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

Technical data

Description		EGK 40-PN-M-B	EGK 40-EI-M-B	EGK 40-EC-M-B	EGK 40-IL-M-B	EGK 40-MB-M-B
ID		1491765	1491767	1491769	1491759	1491762
General operating data						
Stroke per jaw	[mm]	41.5	41.5	41.5	41.5	41.5
Min./max. gripping force	[N]	55/150	55/150	55/150	55/150	55/150
Min./max. gripping force maintenance	[%]	75/90	75/90	75/90	75/90	75/90
Max. permissible finger length	[mm]	100	100	100	100	100
Max. permissible weight per finger	[kg]	0.3	0.3	0.3	0.3	0.3
Positioning accuracy	[mm]	±0.2	±0.2	±0.2	±0.2	±0.2
Repeat accuracy (gripping)	[mm]	0.03	0.03	0.03	0.03	0.03
Repeat accuracy (positioning, unidirectional)	[mm]	0.2	0.2	0.2	0.2	0.2
Repeat accuracy (positioning, bi-directional)	[mm]	0.25	0.25	0.25	0.25	0.25
Closing/opening time (positioning, 50% stroke)	[s]	0.49/0.49	0.49/0.49	0.49/0.49	0.49/0.49	0.49/0.49
Max. speed (positioning)	[mm/s]	115	115	115	115	115
Max. acceleration	[mm/s²]	1000	1000	1000	1000	1000
Weight	[kg]	1.02	1.02	1.02	1.02	1.02
Min./max. ambient temperature	[°C]	5/55	5/55	5/55	5/55	5/55
IP protection class, electronics		67	67	67	67	67
IP protection class guide/base jaws		20	20	20	20	20
Cleanroom class ISO 14644-1:2015		5	5	5	5	5
Electrical operating data						
Nominal voltage	[V]	24	24	24	24	24
Communication interface		PROFINET	EtherNet/IP	EtherCAT	IO-Link	Modbus RTU
Power nominal/max. current consumption	[A]	0.25/0.56	0.25/0.56	0.25/0.56	0.25/0.56	0.25/0.56
Logic nominal/max. current consumption	[A]	0.16/0.2	0.16/0.2	0.16/0.2	0.16/0.2	0.16/0.2
Options and their characteristics						
Version without gripping force maintenance		1491766	1491768	1491770	1491760	1491763
Weight	[kg]	0.97	0.97	0.97	0.97	0.97
Power nominal/max. current consumption	[A]	0.19/0.38	0.19/0.38	0.19/0.38	0.19/0.38	0.19/0.38

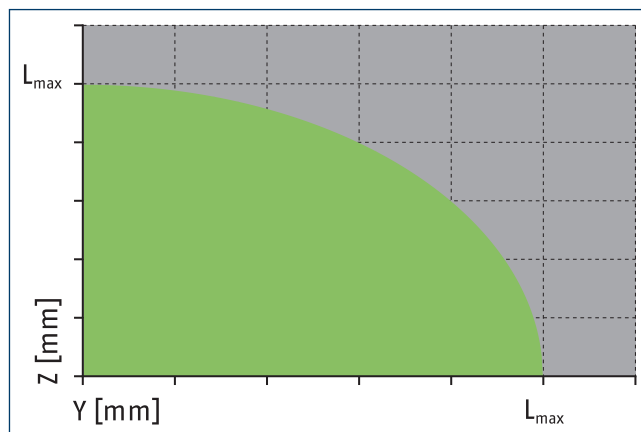
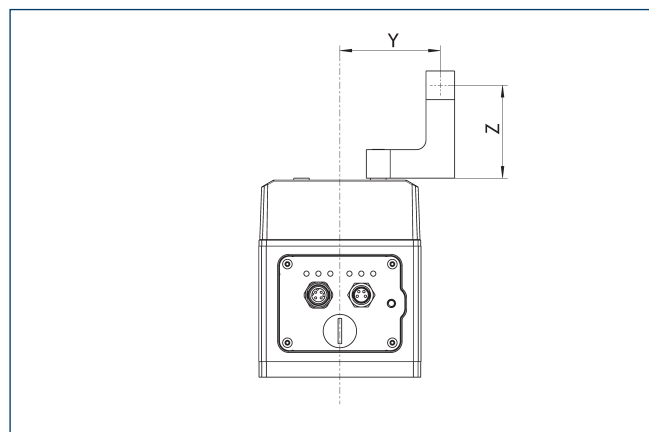
Main view



The drawing shows the gripper in PROFINET, EtherNet/IP or EtherCAT version, with and without gripper force maintenance with opened jaws.

- | | |
|---|---|
| ① Gripper connection | ⑨⑩ Voltage supply (M8, connector, 4 pin, A-coded) |
| ② Finger connection | ⑨① Communication (M8, socket, 4 pin, D-coded) |
| ⑦② Fit for centering sleeves | ⑨③ Functional ground connection |
| ⑧⑩ Depth of the centering sleeve hole in the counter part | |

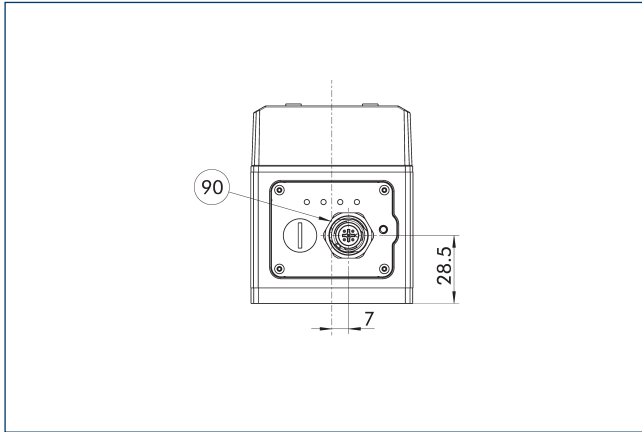
Maximum permitted finger projection



■ Permitted range ■ Inadmissible range

L_{max} is equivalent to the maximum permitted finger length, see the technical data table.

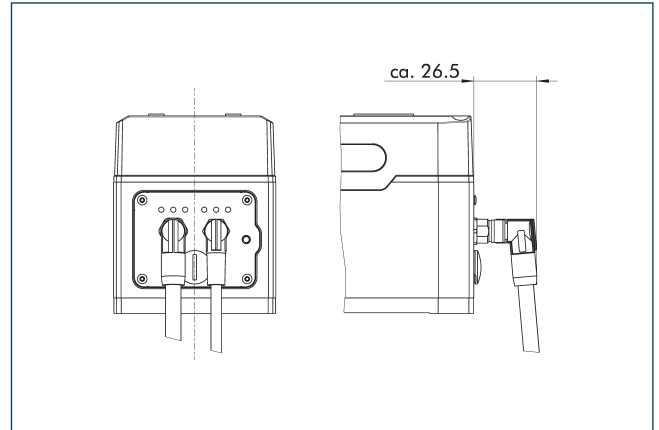
IO-Link and Modbus RTU version



- ⑨ Voltage supply and communication (M12, connector, A-coded, IL: 5 pin, MB: 4 pin)

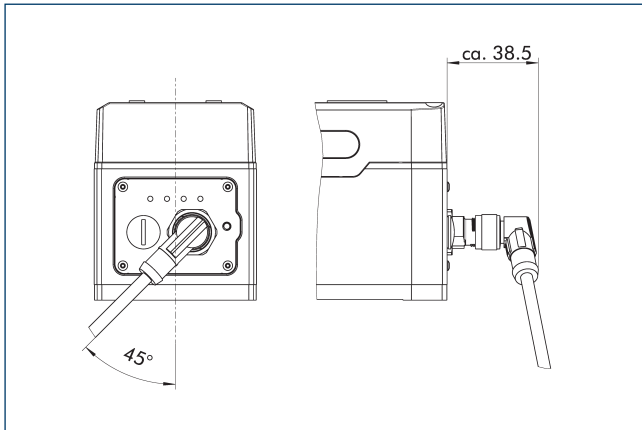
The drawing shows the changes in dimension of the IO-Link and Modbus RTU versions compared to the basic version found in the main view.

Angled plug connectors for PROFINET, EtherNet/IP and EtherCAT version



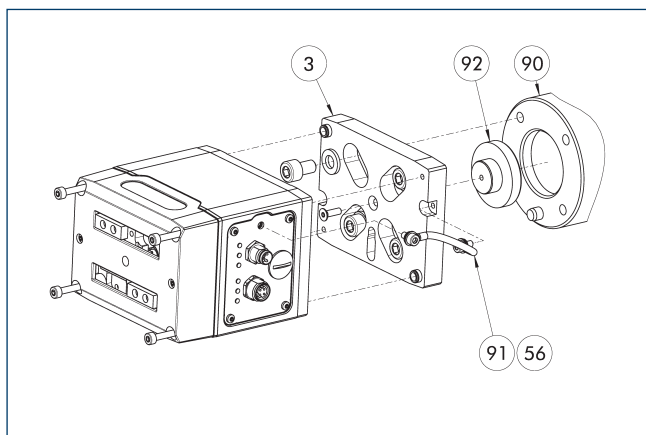
The drawing shows the direction of the cable outlet when using angled connectors. The distance from the plug connector to the gripper housing may vary depending on the cable manufacturer used.

Angled plug connectors for IO-Link and Modbus RTU version



The drawing shows the direction of the cable outlet when using angled connectors. The distance from the plug connector to the gripper housing may vary depending on the cable manufacturer used.

Robot adaptation packages single gripper

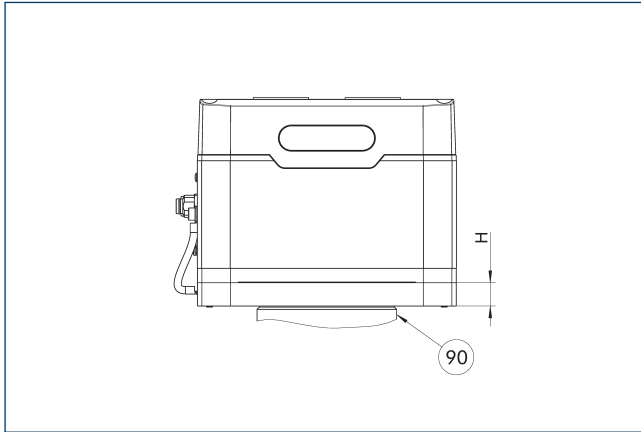


- ③ Adapter
- ⑤⑥ Included in the scope of delivery
- ⑨⑩ Robot flange
- ⑨① Cable functional ground
- ⑨② Centering disc

Robot adaptation packages for single grippers contain all components required to mechanically adapt the gripper to the desired robot flange. Depending on the flange pattern, suitable screws, centering pins and the centering collar are included.

Description	ID	Height	DIN ISO-9409 bolt circle	Manufac- turer	Model
		[mm]	[mm]		
Adapter					
AKO EGK40/ GP4	1524729	11		YASKAWA	GP4
AKO EGK40/ GP7,8	1524730	11		YASKAWA	GP7, GP8
AKO EGK40/ ISO31.5	1524718	11	31.5	ABB	SWIFTI CRB1100, IRB1100, IRB1200
AKO EGK40/ ISO40	1524720	11	40	ABB	IRB1300
AKO EGK40/ ISO50	1524725	11	50	ABB	GoFa CRB15000
AKO EGK40/ ISO50	1524725	11	50	FANUC	CRX-5iA, CRX-10iA, CRX-20iA, CRX-25iA
AKO EGK40/ ISO50	1524725	11	50	Kassow Robots	
AKO EGK40/ ISO50	1524725	11	50	Universal Robots	UR3e, UR7e, UR12e, UR16e, UR15
AKO EGK40/ ISO50	1524725	11	50	YASKAWA	HC10DTP, HC20DTP

Robot adaptation packages single gripper

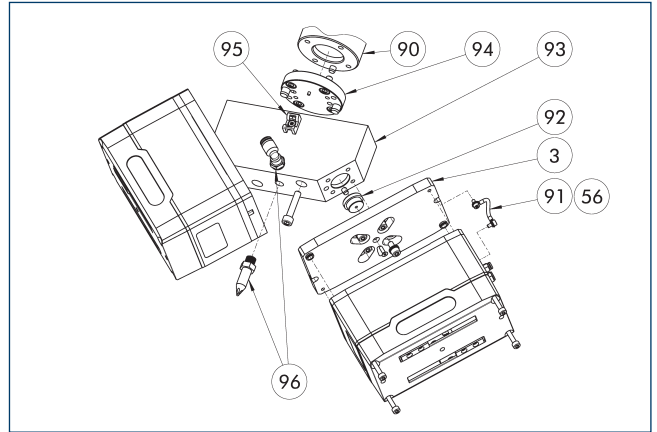


90 Robot flange

The single-piece design enables a flat construction of the entire system. The adapter is manufactured from blank aluminum. The listed robot manufacturers with their associated models constitute useful recommendations taking the total mass into account. SCHUNK nevertheless recommends that the payload of the robot will be considered in detail.

Description	ID	Height	DIN ISO-9409 bolt circle	Manufacturer	Model
		[mm]	[mm]		
Adapter					
AKO EGK40/ GP4	1524729	11		YASKAWA	GP4
AKO EGK40/ GP7,8	1524730	11		YASKAWA	GP7, GP8
AKO EGK40/ ISO31.5	1524718	11	31.5	ABB	SWIFTI CRB1100, IRB1100, IRB1200
AKO EGK40/ ISO40	1524720	11	40	ABB	IRB1300
AKO EGK40/ ISO50	1524725	11	50	ABB	GoFa CRB15000
AKO EGK40/ ISO50	1524725	11	50	FANUC	CRX-5iA, CRX-10iA, CRX-20iA, CRX-25iA
AKO EGK40/ ISO50	1524725	11	50	Kassow Robots	
AKO EGK40/ ISO50	1524725	11	50	Universal Robots	UR3e, UR7e, UR12e, UR16e, UR15
AKO EGK40/ ISO50	1524725	11	50	YASKAWA	HC10DTP, HC20DTP

Robot adaptation packages double gripper

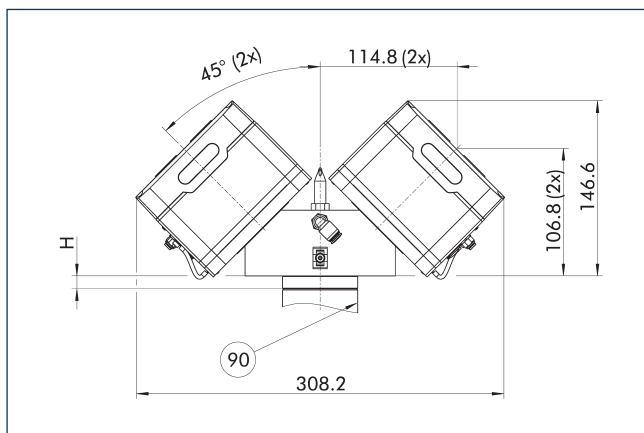


- 3 Adapter
- 56 Included in the scope of delivery
- 90 Robot flange
- 91 Cable functional ground
- 92 Centering collar gripper
- 93 angle adapter
- 94 Adapter robot
- 95 Cable holder (included in the scope of delivery of the cable package)
- 96 Attachment set blow-off nozzle

Robot adaptation packages for double grippers contain all components required to mechanically adapt two grippers to the desired robot flange. Depending on the flange pattern, suitable screws, centering pins and centering material are included in the delivery. A short or long blow-off nozzle can be added as an option.

Description	ID	Height	DIN ISO-9409 bolt circle	Manufacturer	Model
		[mm]	[mm]		
Adapter					
AKO 2xEGK40/ GP12	1524785	15.8		YASKAWA	GP12
AKO 2xEGK40/ GP7,8	1524784	8.9		YASKAWA	GP7, GP8
AKO 2xEGK40/ ISO31.5	1524779	9.9	31.5		
AKO 2xEGK40/ ISO40	1524780	10.8	40		
AKO 2xEGK40/ ISO50	1524783	10.8	50	FANUC	CRX-10iA, CRX-20iA, CRX-25iA
AKO 2xEGK40/ ISO50	1524783	10.8	50	Kassow Robots	
AKO 2xEGK40/ ISO50	1524783	10.8	50	Universal Robots	UR7e, UR12e, UR16e, UR15
AKO 2xEGK40/ ISO50	1524783	10.8	50	YASKAWA	HC10DTP, HC20DTP
Attachment set blow-off nozzle (short)	1524788				

Robot adaptation packages double gripper



 Robot flange

The adapter is manufactured from blank aluminum. The listed robot manufacturers with their associated models constitute useful recommendations taking the total mass into account. SCHUNK nevertheless recommends that the payload of the robot will be considered in detail.

Description	ID	Height	DIN ISO-9409 bolt circle	Manufac- turer	Model
		[mm]	[mm]		
Adapter					
AKO 2xEGK40/ GP12	1524785	15.8		YASKAWA	GP12
AKO 2xEGK40/ GP7,8	1524784	8.9		YASKAWA	GP7, GP8
AKO 2xEGK40/ ISO31.5	1524779	9.9	31.5		
AKO 2xEGK40/ ISO40	1524780	10.8	40		
AKO 2xEGK40/ ISO50	1524783	10.8	50	FANUC	CRX-10iA, CRX-20iA, CRX-25iA
AKO 2xEGK40/ ISO50	1524783	10.8	50	Kassow Robots	
AKO 2xEGK40/ ISO50	1524783	10.8	50	Universal Robots	UR7e, UR12e, UR16e, UR15
AKO 2xEGK40/ ISO50	1524783	10.8	50	YASKAWA	HC10DTP, HC20DTP

Robot-specific connection cables



Connection cables and connection cable kits for electrical connection to specific robot models and controllers. Depending on the manufacturer, a direct connection to the tool flange is possible or external cabling is required. In combination with mechanical adapters and software modules, this allows commissioning on the robot to be carried out in just a few steps. Cables for external cable routing are designed to withstand torsion.

Description	ID	Manufacturer	Series	Model	Controller	Connection	Cable length [m]	Interface
Single gripper								
EGK CNK-SG-ABB-OmniCoreC30	1529617	ABB	IRB, CRB		OmniCore C30	Controller, external cable routing	5	EtherNet/IP
EGK CNK-SG-YASKAWA-YRC1000micro	1529622	YASKAWA	GP, HC		YRC1000MICRO	Controller, external cable routing	5	EtherNet/IP
EGU/EGK/EZU CNK-SG-FANUC-CRX	1532240	FANUC	CRX	CRX-5iA, CRX-10iA, CRX-20iA, CRX-25iA, CRX-30iA	R-30iB Plus Mini	Tool (male), internal feed-through		Modbus RTU
EGU/EGK/EZU CNK-SG-KR-Gen2	1620284	Kassow Robots	KR Series, Edge Edition (Gen2)	KR810, KR1018, KR1205, KR1410, KR1805		Tool (male), internal feed-through		Modbus RTU
EGU/EGK/EZU CNK-SG-UR-eSeries (female)	1615303	Universal Robots	e series, UR series	UR3e, UR7e, UR12e, UR16e, UR15, UR20, UR30	CB5	Tool (female), internal feed-through		Modbus RTU
EGU/EGK/EZU CNK-SG-UR-eSeries (male)	1532237	Universal Robots	e series, UR series	UR3e, UR7e, UR12e, UR16e, UR15, UR20, UR30	CB5	Tool (male), internal feed-through		Modbus RTU

① The performance data of the robot must be taken into account. SCHUNK also recommends the use of a suitable strain relief.

Robot-specific connection cables double gripper



Connection cables and connection cable kits for electrical connection to specific robot models and controllers. Depending on the manufacturer, a direct connection to the tool flange is possible or external cabling is required. In combination with mechanical adapters and software modules, this allows commissioning on the robot to be carried out in just a few steps. Cables for external cable routing are designed to withstand torsion.

Description	ID	Manufacturer	Series	Model	Controller	Connection	Cable length [m]	Interface
Double gripper								
EGK CNK-DG-ABB-OmniCoreC30	1529618	ABB	IRB, CRB		OmniCore C30	Controller, external cable routing	5	EtherNet/IP
EGK CNK-DG-YASKAWA-YRC1000micro	1529623	YASKAWA	GP, HC		YRC1000MICRO	Controller, external cable routing	5	EtherNet/IP
EGU/EGK/EZU CNK-DG-FANUC-CRX	1532241	FANUC	CRX	CRX-5iA, CRX-10iA, CRX-20iA, CRX-25iA, CRX-30iA	R-30iB Plus Mini	Tool (male), internal feed-through		Modbus RTU
EGU/EGK/EZU CNK-DG-KR-Gen2	1620285	Kassow Robots	KR Series, Edge Edition (Gen2)	KR810, KR1018, KR1205, KR1410, KR1805		Tool (male), internal feed-through		Modbus RTU
EGU/EGK/EZU CNK-DG-UR-eSeries (female)	1615305	Universal Robots	e series, UR series	UR3e, UR7e, UR12e, UR16e, UR15, UR20, UR30	CB5	Tool (female), internal feed-through		Modbus RTU
EGU/EGK/EZU CNK-DG-UR-eSeries (male)	1532238	Universal Robots	e series, UR series	UR3e, UR7e, UR12e, UR16e, UR15, UR20, UR30	CB5	Tool (male), internal feed-through		Modbus RTU

① The performance data of the robot must be taken into account. SCHUNK also recommends the use of a suitable strain relief.

-

- | Description | ID | Material | Scope of delivery |
|------------------|---------|----------|-------------------|
| Intermediate jaw | | | |
| ZBA EGK 40 | 1504617 | Aluminum | 2 |

Technical drawing of a mechanical part, showing front and side views with dimensions.

Front View (Left):

- Overall width: 30
- Overall height: 12 ± 0.02
- Top flange width: 15
- Top flange thickness: 5
- Top flange hole diameter: Ø6 (2x)
- Top flange hole spacing: 6.5 (2x)
- Top flange hole offset from centerline: 30° (2x)
- Section line A-A is indicated.

Side View (Right):

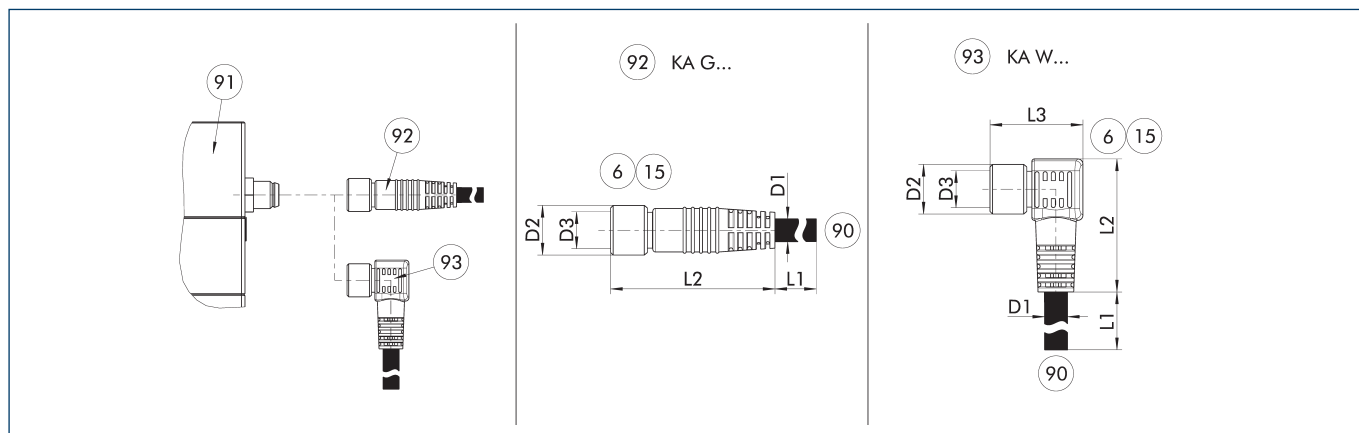
- Overall length: 50
- Overall width: 45.5
- Top flange thickness: 1
- Top flange hole diameter: Ø6 (2x)
- Top flange hole offset from centerline: 3.4 (2x)
- Top flange hole spacing: 6
- Top flange hole offset from end: 2
- Section line A-A is indicated.

Dimensions and Tolerances:

- Top flange hole diameter: Ø6 (2x)
- Top flange hole spacing: 6.5 (2x)
- Top flange hole offset from centerline: 30° (2x)
- Top flange thickness: 5
- Top flange hole offset from end: 2
- Top flange hole spacing: 6
- Top flange hole offset from centerline: 3.4 (2x)
- Top flange hole diameter: Ø5 (2x)
- Top flange hole spacing: 72

- | Description | ID | Material | Scope of delivery |
|------------------|---------|-------------------|-------------------|
| Finger blank | | | |
| ABR-PGZN-plus 50 | 0300009 | Aluminum (3.4365) | 1 |
| SBR-PGZN-plus 50 | 0300019 | Steel (1.7131) | 1 |

Voltage supply/signals connection cable



KA G... Connection cable with straight socket
 KA W... Connection cable with angular socket

⑥ Connection module side
 ⑮ Socket
 ⑨⑩ SAC connection cable with open wire strands

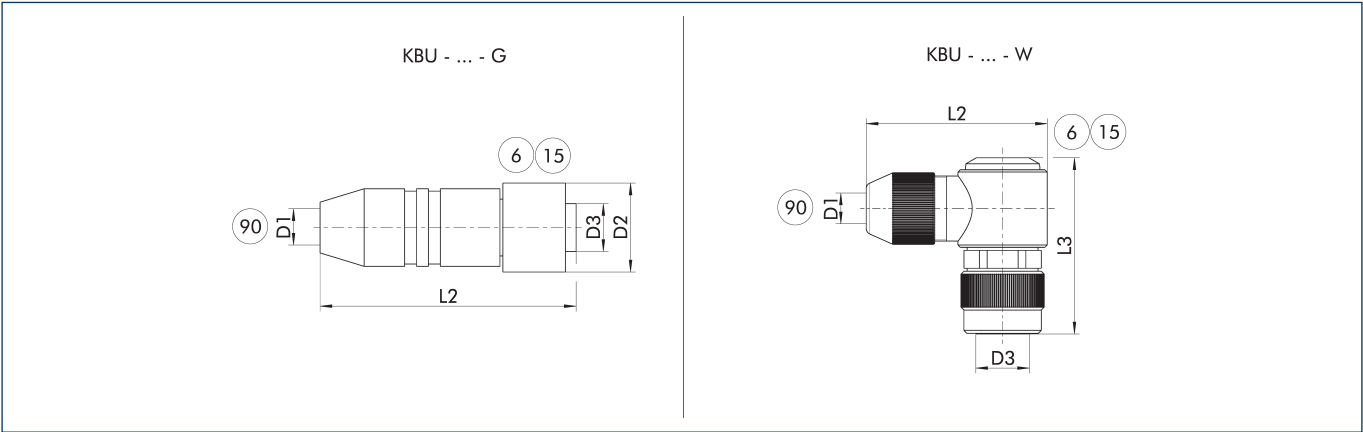
⑨① Connection plug component
 ⑨② Cable with straight female connector
 ⑨③ Cable with angled female connector

The connection cable is ideal for connecting the corresponding components to the controller or the power supply unit. The connection cable has an M8 socket on one side and an open wire strand on the other side for individual connections. The connection cables are suitable for use both in the cable track as well as in torsion applications.

Description	ID	L1 [m]	D1 [mm]	L2 [mm]	D2 [mm]	L3 [mm]	D3
Voltage supply/signals connection cable – drag chain and torsion resistant, M8 socket, straight							
KA GLN0804-IO-00200-A	1310371	2	4.8	33.7	10		M8
KA GLN0804-IO-00500-A	1310375	5	4.8	33.7	10		M8
KA GLN0804-IO-01000-A	1310379	10	4.8	33.7	10		M8
KA GLN0804-IO-02000-A	1442994	20	4.5	32	10		M8
Voltage supply/signals connection cable – drag chain and torsion resistant, M8 socket, angled							
KA WLN0804-IO-00200-A	1310372	2	4.8	27.9	10	18.9	M8
KA WLN0804-IO-00500-A	1310376	5	4.8	27.9	10	18.9	M8
KA WLN0804-IO-01000-A	1310381	10	4.8	27.9	10	18.9	M8
KA WLN0804-IO-02000-A	1442996	20	4.5	25	10	20	M8

① Please observe the min. bending radius for cable track-compatible cables or the max. torsion angle for torsion-compatible cables. These are generally 10 times the cable diameter or +/- 180°/m.

Plug-in connector power supply/signals



KBU - ... - G Socket with straight outlet ⑥ Connection module side ⑨⑩ D1 – max. diameter connection cable

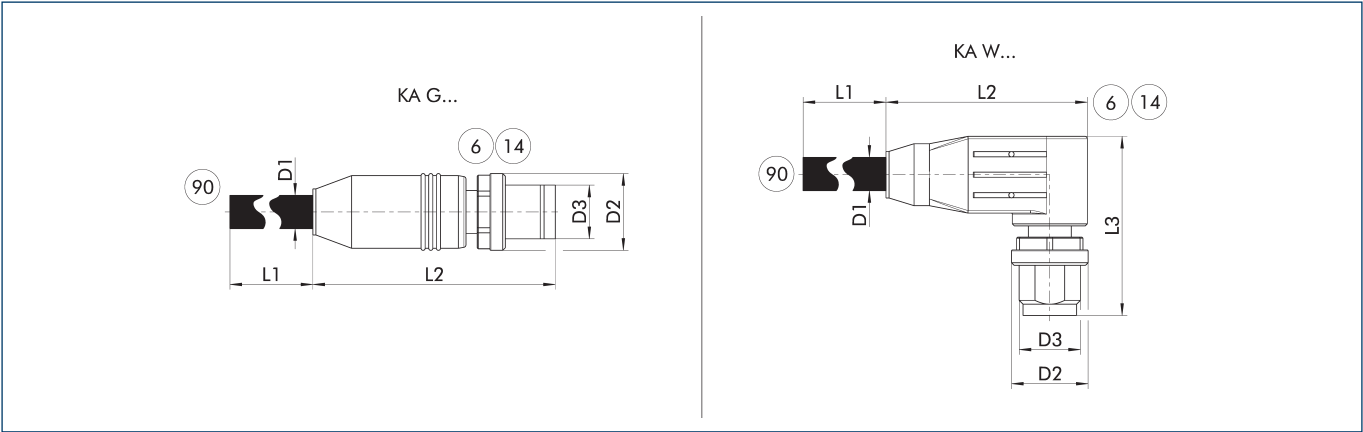
KBU - ... - W Socket with angular outlet ⑮ Socket

The plug connectors are used to connect the SCHUNK products to the voltage supply. A customer cable can be used for this. The individual wire strands can be soldered to the solder pins of the connector.

Description	ID	D1 (max.)	L2	D2	L3	D3
		[mm]	[mm]	[mm]	[mm]	
Cable connector						
KBU-M8-G 4P	1506418	5	37	12		M8
KBU-M8-W 4P	1506422	5	25		28	M8

① For the connection cable, a cross-section for each individual wire strand of 0.25 mm² is recommended. Please refer to the product documentation for information about max. cable length and min. wire cross section.

Connection cable communication PROFINET, EtherNet/IP and EtherCAT



KA G... Straight plug connector ⑥ Connection module side ⑨⑩ Cable ends with second plug connector

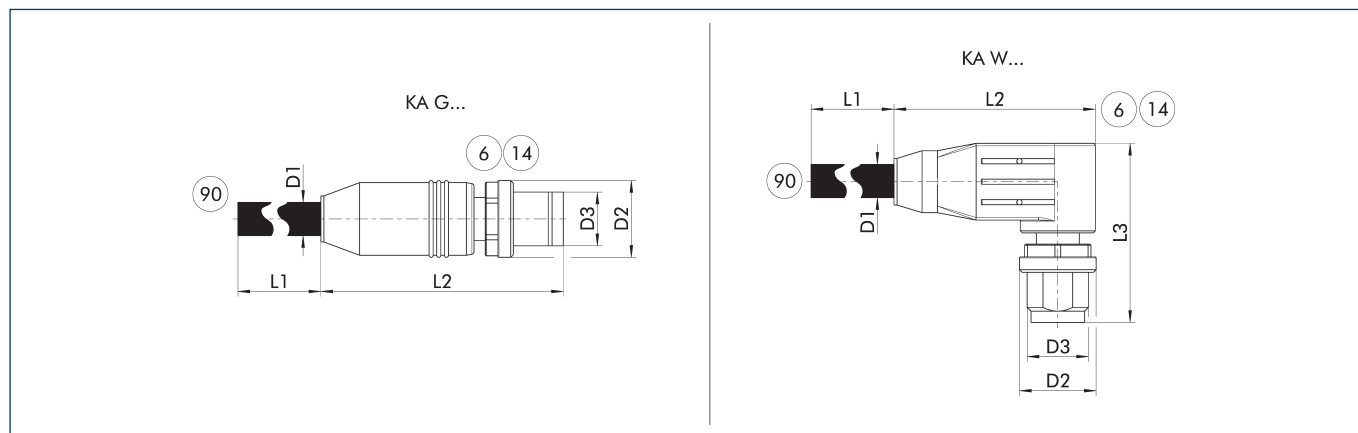
KA W... Angular plug connector ⑮ Connector

The communication cables are suitably assembled for the mechatronic products from SCHUNK and can be used for the PROFINET, EtherNET/IP and EtherCAT communication interfaces. They always have an M12 plug connector on the module side (D-coded, connector). The plug connectors are designed straight (KA G...) or angled (KA W...) on the module side. On the second side, the cables either have a straight M12 plug connector (D-coded, connector) or an RJ45 plug connector.

Description	ID	L1	D1	L2	D2	D3
		[m]	[mm]	[mm]	[mm]	
EtherCAT connection cable star distributor M12 D-coded socket, straight; on M8 A-coded connector, straight						
KA GGN12D04-08A04-ET-00020-A	1521990	0.2	6.5	47.3	14.8	M12

① Please observe the min. bending radius for cable track-compatible cables or the max. torsion angle for torsion-compatible cables. These are generally 10 times the cable diameter or +/- 180°/m.

Connection cable communication PROFINET, EtherNet/IP and EtherCAT



KA G... Straight plug connector

KA W... Angular plug connector

⑥ Connection module side

⑭ Connector

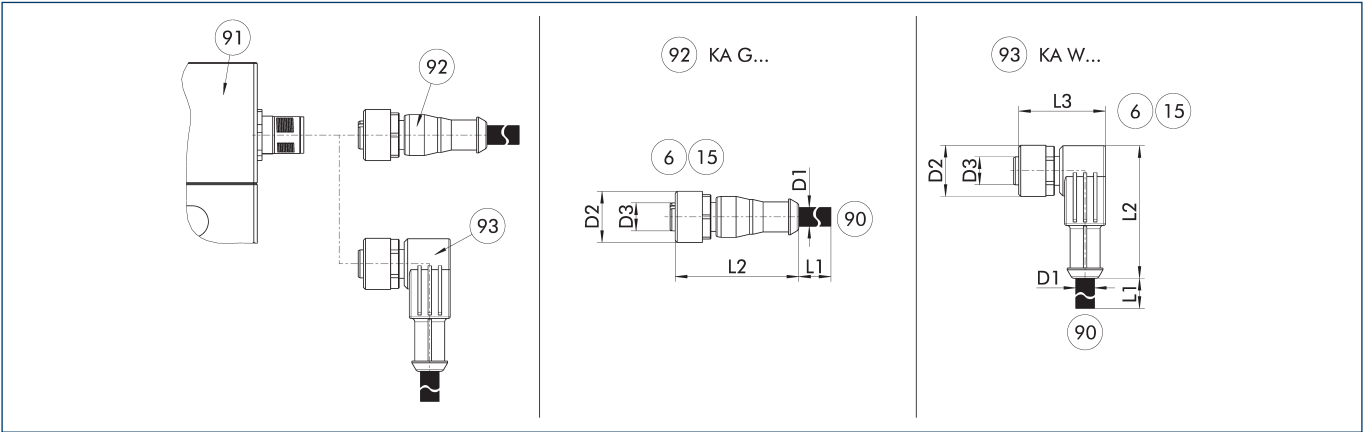
⑨ Cable ends with second plug connector

The communication cables are suitably assembled for the mechatronic products from SCHUNK and can be used for the PROFINET, EtherNet/IP and EtherCAT communication interfaces. They always have an M8 plug connector on the module side (D-coded, connector). The plug connectors are designed straight (KA G...) or angled (KA W...) on the module side. On the second side, the cables either have a straight M12 plug connector (D-coded, connector) or an RJ45 plug connector.

Description	ID	L1	D1	L2	D2	L3	D3
		[m]	[mm]	[mm]	[mm]	[mm]	
Communication cable suitable for drag chain M8 connector, straight – to M12 connector, straight							
KA GGN08D04-12D04-ET-00500-A	1505212	5	6.5	39.4	10		M8
KA GGN08D04-12D04-ET-01000-A	1505224	10	6.5	39.4	10		M8
Communication cable suitable for drag chain M8 connector, straight – to RJ45 connector, straight							
KA GGN08D04-RJ45-ET-00200-A	1511261	2	6.5	39.4	10		M8
KA GGN08D04-RJ45-ET-00500-A	1505217	5	6.5	39.4	10		M8
KA GGN08D04-RJ45-ET-01000-A	1505229	10	6.5	39.4	10		M8
Communication cable suitable for drag chain M8 connector, angled – to M12 connector, straight							
KA WGN08D04-12D04-ET-00500-A	1505213	5	6.5	28	10	25.5	M8
KA WGN08D04-12D04-ET-01000-A	1505227	10	6.5	28	10	25.5	M8
Communication cable suitable for drag chain M8 connector, angled – to RJ45 connector, straight							
KA WGN08D04-RJ45-ET-00500-A	1505219	5	6.5	28	10	25.5	M8
KA WGN08D04-RJ45-ET-01000-A	1505243	10	6.5	28	10	25.5	M8
Communication cable suitable for torsion-resistant M8 connector, straight – to M12 connector, straight							
KAR GGN08D04-12D04-ET-00500-A	1505248	5	6.5	39.4	10		M8
KAR GGN08D04-12D04-ET-01000-A	1505284	10	6.5	39.4	10		M8
Communication cable suitable for torsion-resistant M8 connector, straight – to RJ45 connector, straight							
KAR GGN08D04-RJ45-ET-00500-A	1505269	5	6.5	39.4	10		M8
KAR GGN08D04-RJ45-ET-01000-A	1505303	10	6.5	39.4	10		M8
Communication cable suitable for torsion-resistant M8 connector, angled – to M12 connector, straight							
KAR WGN08D04-12D04-ET-00500-A	1505258	5	6.5	28	10	25.5	M8
KAR WGN08D04-12D04-ET-01000-A	1505289	10	6.5	28	10	25.5	M8
Communication cable suitable for torsion-resistant M8 connector, angled – to RJ45 connector, straight							
KAR WGN08D04-RJ45-ET-00500-A	1505276	5	6.5	28	10	25.5	M8
KAR WGN08D04-RJ45-ET-01000-A	1505305	10	6.5	28	10	25.5	M8

① Please observe the min. bending radius for cable track-compatible cables or the max. torsion angle for torsion-compatible cables. These are generally 10 times the cable diameter or +/- 180°/m. Please refer to the product documentation for information about max. cable length and min. wire cross section.

Connection cable for voltage supply and communication IO-Link



- KA G...

Connection cable with straight socket
- KA W...

Connection cable with angular socket
- 6

Connection module side
- 15

Socket
- 90

SAC connection cable with open wire strands
- 91

Connection plug component
- 92

Cable with straight female connector
- 93

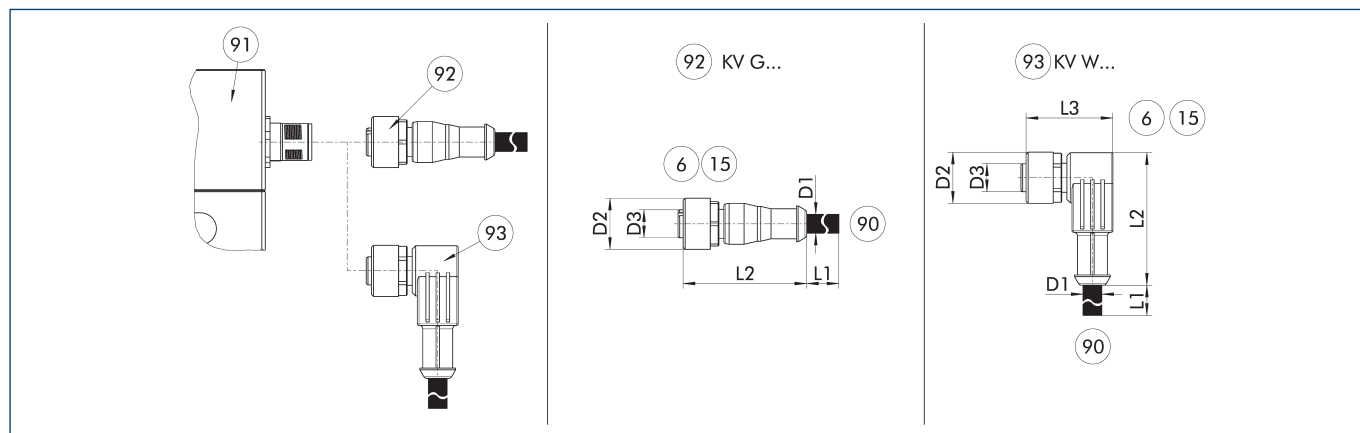
Cable with angled female connector

The connection cable is ideal for connecting the corresponding components to the control system. The connection cable has a 5-pin M12 socket on one side, and open wire strands on the other side for individual connections. The connection cables are suitable for use both in the cable track as well as in torsion applications.

Description	ID	L1 [m]	D1 [mm]	L2 [mm]	D2 [mm]	L3 [mm]	D3
IO-Link connection cable – drag chain and torsion-compatible							
KA GLN1205-IOL-00500-A	1387207	5	4.8	38	15		M12
KA GLN1205-IOL-01000-A	1387209	10	4.8	38	15		M12
KA WLN1205-IOL-00500-A	1387210	5	4.8	39	15	28	M12
KA WLN1205-IOL-01000-A	1387211	10	4.8	39	15	28	M12

ⓘ Please observe the min. bending radius for cable track-compatible cables or the max. torsion angle for torsion-compatible cables. These are generally 10 times the cable diameter or +/- 180°/m.

Cable extension for voltage supply and communication IO-Link



KV G...

Cable extension with straight socket

KV W...

Cable extension with angled socket

⑥ Connection module side

⑮ Socket

⑨⑩ Cable end with straight connector

⑨① Connection plug component

⑨② Cable with straight female connector

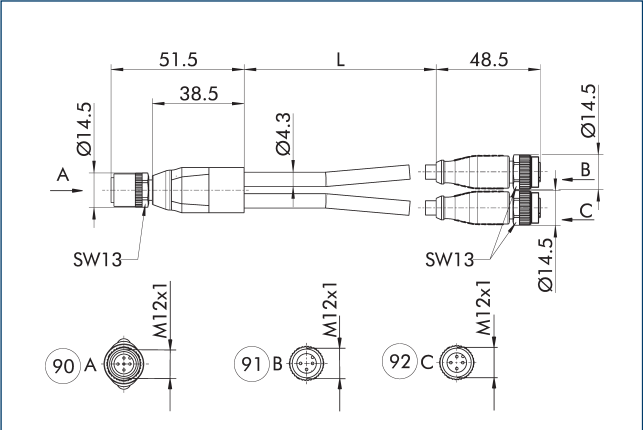
⑨③ Cable with angled female connector

The cable extensions are ideal for connecting the relevant components to the control system, or for use as extension cables. The cable extensions have a 5-pin M12 connector with a straight or angled design on the module side and a 5-pin M12 plug with a straight design on the other side. The cable extensions are suitable for use in the cable track and in torsion applications.

Description	ID	L1 [m]	D1 [mm]	L2 [mm]	D2 [mm]	L3 [mm]	D3
IO-Link cable extension – cable track and torsion-compatible							
KV GGN1205-IOL-00200-A	1387195	2	4.8	41	15		M12
KV GGN1205-IOL-00500-A	1387199	5	4.8	41	15		M12
KV WGN1205-IOL-00200-A	1387202	2	4.8	39	15	28	M12
KV WGN1205-IOL-00500-A	1387205	5	4.8	39	15	28	M12

① Please observe the min. bending radius for cable track-compatible cables or the max. torsion angle for torsion-compatible cables. These are generally 10 times the cable diameter or +/- 180°/m.

Y-distributor for IO-Link for splitting logic and power supply

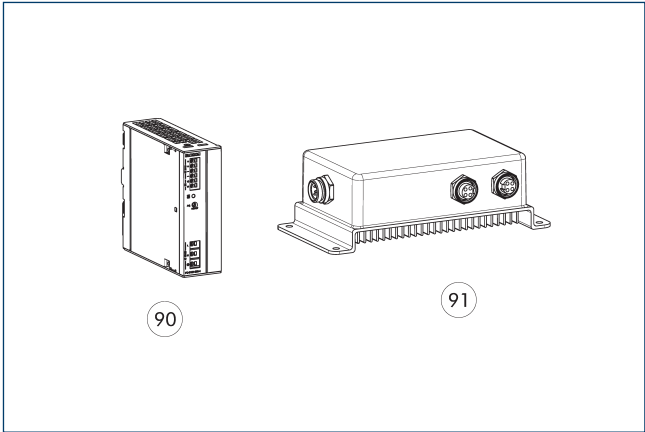


- 90 Grippers
- 91 Logic (IO-Link master)
- 92 Power (24 V power supply)

The Y-distributor enables power to be supplied from a separate voltage source and is recommended when the current consumption of the product exceeds the current output of the IO-Link master. The logic supply and the IO-Link communication continue to run via the IO-Link master. IO-Link masters with port class A or port class B can be used.

Description	ID	Length
		[m]
Y-distributor, M12 socket, straight - on 2xM12 plugs, straight A-coded		
Y-Verteiler M12 5pol. auf 1x M12 3pol.	1523560	0.3

Switched-mode power supply



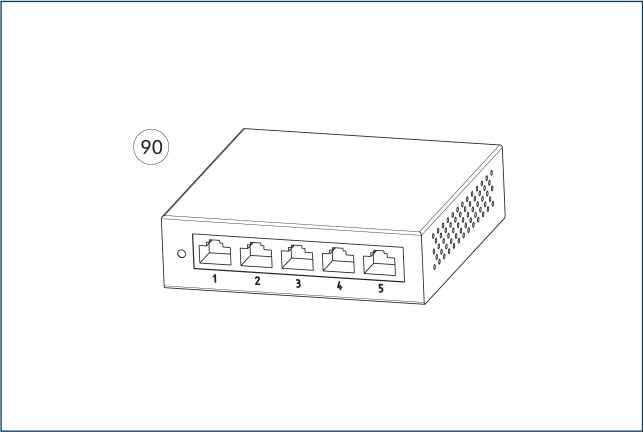
- 90 24 V power supply unit IP2
- 91 24 V power supply unit IP67

The power supply with an output voltage of 24 V and an input voltage range of 100 V – 240 V are matched to the power supply of our SCHUNK products. Whether for mounting in the control cabinet on DIN rail in protection class IP20 or directly in the field in protection class IP67: the power supply units deliver voltage where it is needed. We will be happy to assist you with further selection.

Description	ID	
24 V power supply unit IP2		
BLOCK PC-0124-050-0	31001408	
24 V power supply unit IP67		
TURCK PSU67-12-2480/M	1524336	

- For the power supply IP67, there are customizable plug connectors for connection to the power supply unit included in the scope of delivery.

Switch



- 90 Ethernet 5-port switch

The switches enable easy expansion of a high-speed network using wired connections. With the switch, several SCHUNK products can be included in a network and thus controlled via a PLC, for example.

Description	ID	
Ethernet switch		
D-Link DGS-105 5-Port Ethernet Switch	1526496	



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