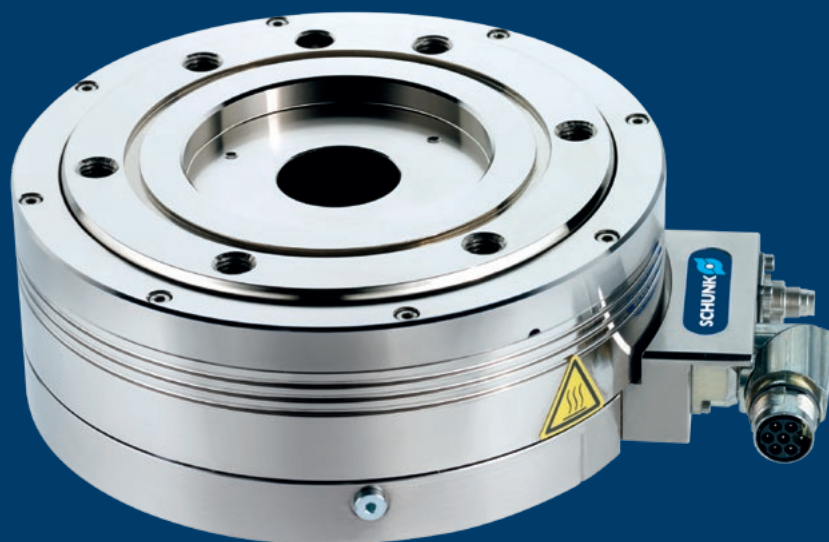




Hand in hand for tomorrow



Product data sheet

Universal rotary unit ERS

Compact. Flexible. Fast.

Universal rotary unit ERS

Electrical rotary unit with torque motor and angle of rotation $> 360^\circ$ as well as the optional pneumatic brake and rotary feed-through, and if desired increased protection class (IP54)

Field of application

All-purpose, highly flexible rotary unit for applications with extraordinary demands on the load moment of inertia, compactness and reliability. Suitable for clean and slightly contaminated environments as a component of positioning systems.



Advantages – Your benefits

Integrated torque drive for high torque and flexible use by controlled position, velocity and torque

Large center bore for feed-through lines and media hoses

Compact design for minimal interfering contours and for use in confined spaces

Easy system integration by standard encoder interface (Sin/Cos)

Versatile actuation options for simple integration into existing control concepts using different external third-party controllers (e.g. Bosch Rexroth IndraDrive or Siemens SINAMICS)

Optional pneumatic holding brake for maintaining the position in downtime



Sizes
Quantity: 3



Weight
2.7 .. 10.9 kg



Torque
2.5 .. 10 Nm



Repeat accuracy
0.01°



Angle of rotation
 $> 360^\circ$

Functional description

The rotary module ERS is based on a permanently energized torque motor, the large center bore of which ensures media feed-through. Storage is ensured via a four point bearing, which is designed for a high payload.



① **Base support stator**
for appropriate stability even at higher torques

② **Stator**
with windings

③ **External rotor with center bore**
for cable feed-through

④ **Pneumatic holding brake**
for maintaining the position in downtime

⑤ **Electrical coupling flange with plug connectors**
for connection of power and encoder cable

⑥ **Micro valve**
for the pneumatic brake option

Detailed functional description

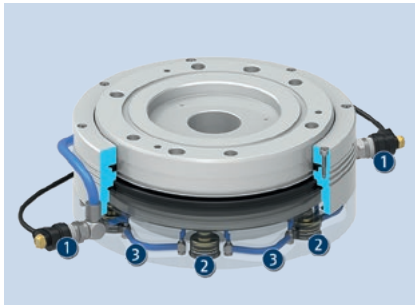
Centering the structure



The electrical rotary module ERS is suitable for applications with high demands when it comes to axial and radial run-out. For adaptation and correct approval of the run-out, there is one centering diameter in the basic version and the version with rotary feed-through. This is visible in the main view. The structure can be prevented from over-rotating using an alignment pin.

- 1 ERS in basic version
- 2 Screw connection
- 3 Alignment pin
- 4 Centering groove

Variant with pneumatic holding brake



The holding brake is pneumatically actuated. The holding brake is activated in the non-active state. The brake is controlled by two micro valves, which in turn can be controlled using the respective drive controller. The micro valves are included in the scope of delivery.

- 1 Micro valves MV
- 2 Brake piston
- 3 Internal hosing

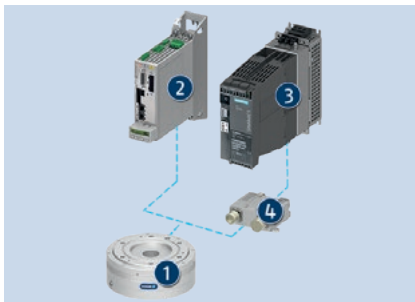
Variant with integrated rotary feed-through for electrical signals and compressed air



The optional rotary feed-through of the ERS provides the opportunity of leading eight electrical signals and a compressed air supply through the module. The electrical connection is carried out by eight 3-pin M8 connectors on the drive and output flange. The compressed air supply can be removed either via a side outlet or a hose-free direct connection.

- 1 Rotary module ERS with DDF
- 2 Micro valves MV
- 3 2-finger parallel gripper PGN-plus

Flexible choice of drive controller



The rotary module ERS is versatile and can be combined with different drive controllers. The connection takes place via two standardized plug connectors, separated for motor and encoder cable. The parameters for the drive controllers shown are included on DVD.

- 1 ERS with 560 V motor
- 2 Bosch Rexroth IndraDrive Cs controller
- 3 Siemens SINAMICS S120 controller
- 4 Sensor module Siemens SME controller

Ordering example ERS

ERS - 210 - 560 - 40 - B - N - I

Size

135
170
210

Voltage

Rated voltage engine = 560 V

IP protection class

IP = 40
IP = 54

Pneumatic holding brake

N = without pneumatic holding brake
B = with pneumatic holding brake

Rotary feed-through

N = without rotary feed-through
D = with rotary feed-through

Encoder system

I = incremental

General notes about the series

Housing material: Aluminum alloy, coated

Drive: Torque motor, 3-phase

Stroke measuring system: Contactless, magnetic measuring system in incremental design, 1Vss interface

Drive controller: Consultation on parameter settings for drive controllers from BOSCH (EcoDrive CS, IndraDrive and IndraDrive CS) and Siemens (Sinamics S120). Provision of motor data sheets for other drive controllers. Commissioning support on request.

Scope of delivery: With the holding brake option, two micro valves are supplied to control the brake are included in the consignment, safety information (product-specific instructions available online)

Warranty: 24 months

Swiveling times: The swiveling times are purely the times when the module moves from rest position to rest position. Delays caused by the PLC or the drive controller are not included and to be taken into consideration when determining cycle times. Load-dependent rest periods may have to be included in the cycle time.

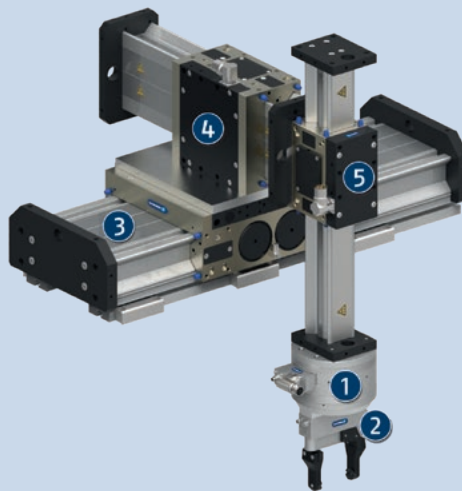
Layout or control calculation: Verifying the sizing of the selected unit is necessary, since otherwise overloading can result. Please contact us for assistance.

Repeat accuracy: The repeat accuracy is defined as the spread of the target position after 100 consecutive positioning cycles.

Ambient conditions: The modules are primarily designed for the use in clean to slightly contaminated environments. Please note that the life time of the modules can shorten if they are used in harsh ambient conditions, and that SCHUNK cannot assume liability in such cases.

Safety notes: Caution: Magnetic field! This particularly applies for persons with implanted medical devices, such as pacemakers, hearing aids, etc.

Nominal currents: The rated currents can be permanently actuated. With regard to all the currents which are ranging above the nominal current up to the maximum current, the notes of the individual product documentation has to be respected.



Application example

Electrically driven high-speed gantry for palletizing and depalletizing and re-orientation of different and sensitive components.

- ① Universal rotary module ERS
- ② Universal gripper WSG
- ③ Universal linear module LDT

- ④ Universal linear module LDM
- ⑤ Universal linear module LDN

SCHUNK offers more ...

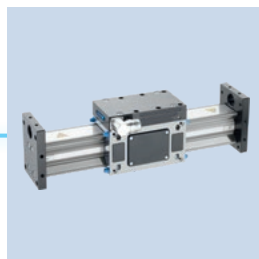
The following components make the product even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



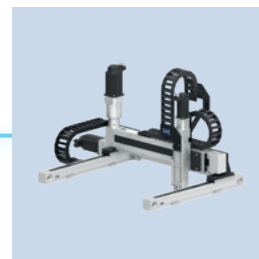
Universal gripper



Long-stroke gripper



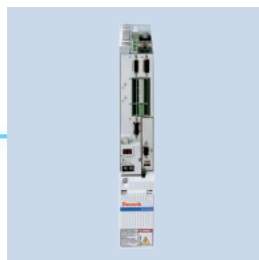
Linear module



Room gantry



Power and encoder cables



Controller



Micro valve

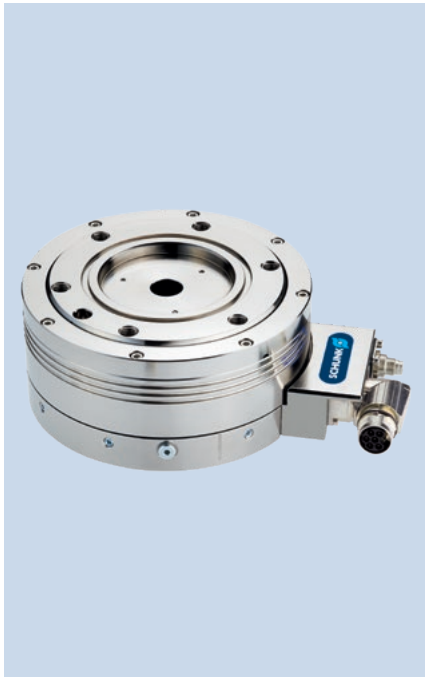
① For more information on these products can be found on the following product pages or at schunk.com.

Options and special information

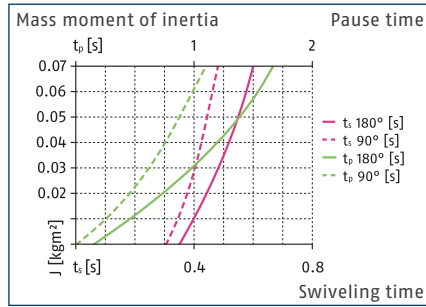
Using the pneumatic holding brake: The installed brake is only designed to be used as a holding brake. Consequently, it may only be actuated when stationary. Use as an operating brake is not permitted and significantly increases wear.

Cycle time design with pneumatic holding brake: The piston fill time of a pneumatically operated holding brake is between 100 and 200 ms depending on the size of the rotary module. This time is already permanently stored in the standard parameter sets for the Siemens and Bosch Rexroth controllers.

Electric and pneumatic rotary feed-through: The ERS with rotary feed-through may be operated with a max. speed of rotation of 250 RPM due to the integrated seals and the slip ring. The current load per signal line (pin 4 on the M8 connector) is 2 A. The collected power supply via pin 1 of the M8 connector may not exceed 4 A.

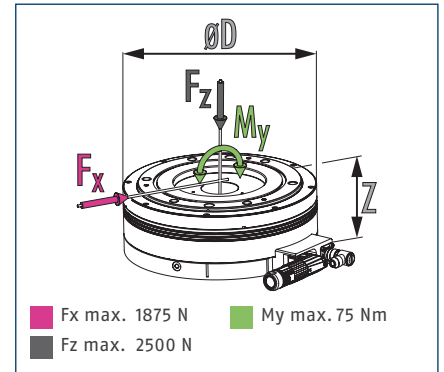


Swiveling time diagram 560 V



① The diagram shows the shortest possible swiveling times with max. current. The indicated break times have to be strictly observed. Please contact us for assistance with the design of your case of application and optimization of the cycle time.

Dimensions and maximum loads



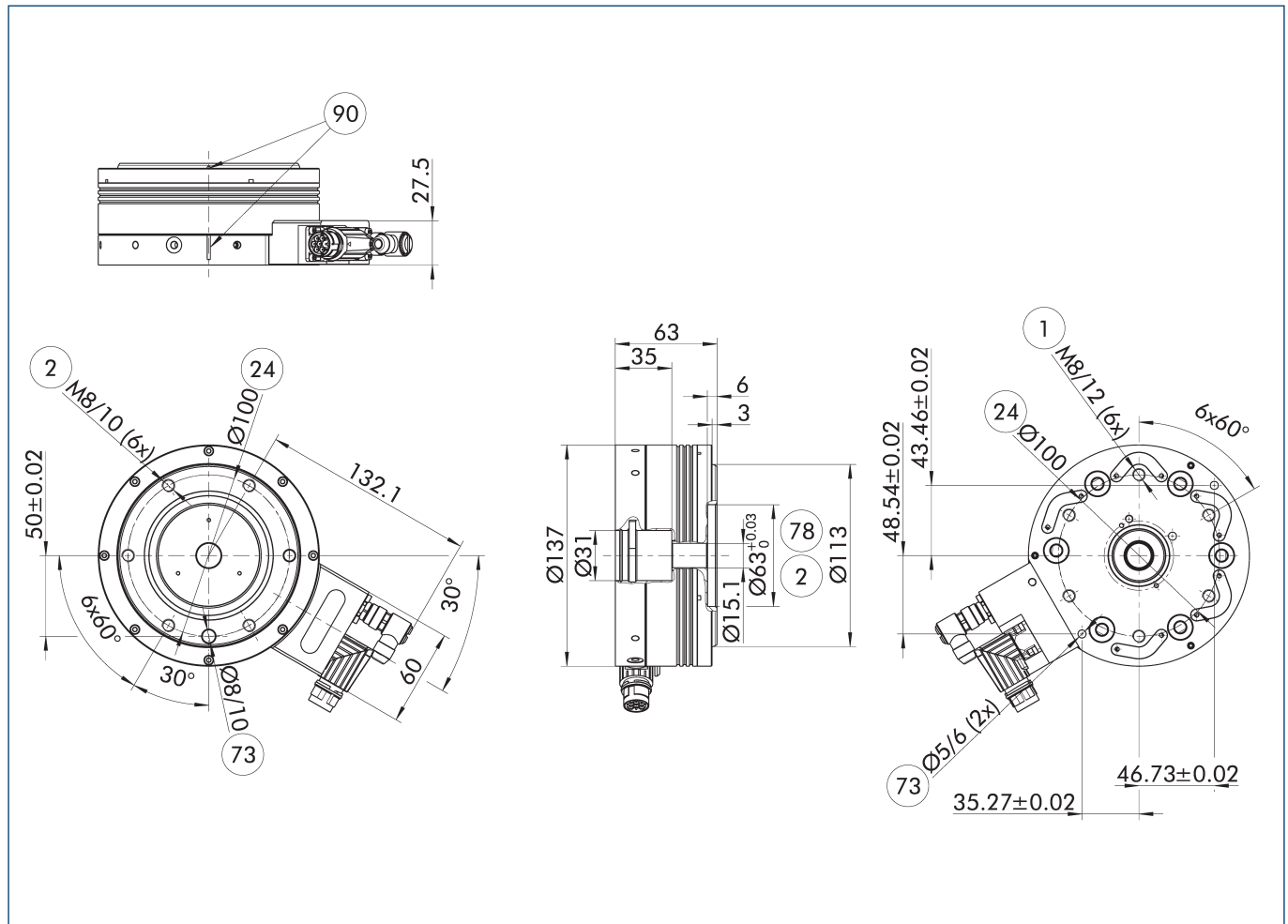
① Moments and forces must not occur simultaneously.

Technical data

Description		ERS 135-560-40-N-N-I
ID		0310146
General operating data		
Rated/maximum torque	[Nm]	2.5/8
Nominal speed	[1/min]	1000
Max. rotational speed	[1/min]	2300
Max. permissible mass moment of inertia	[kgm²]	0.07
Repeat accuracy	[°]	0.01
Radial/axial runout	[mm]	0.03/0.03
Weight	[kg]	2.7
Min./max. ambient temperature	[°C]	5/55
IP protection class		40
Dimensions Ø D x Z	[mm]	137 x 63
Electrical operating data		
Intermediate circuit voltage	[V]	560
Rated/maximum current	[A]	1.2/3.8
Encoder system		Encoder (incremental)
Output signal		Sin/Cos 1Vss
Options and their characteristics		
Version with holding brake		ERS 135-560-40-B-N-I
ID		0310150
Moment holding brake	[Nm]	2.5

① All versions are also available with protection class IP54 upon request.
The peak torques serve as short-term drive reserves when accelerating and delaying.

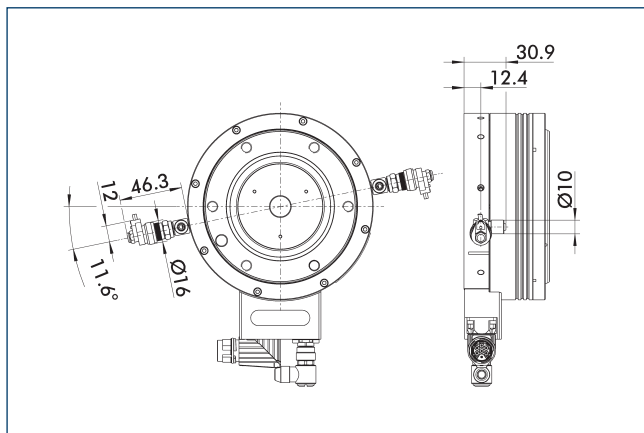
Main view



The drawing shows the basic version of the rotary unit without dimensional consideration of the options described below.

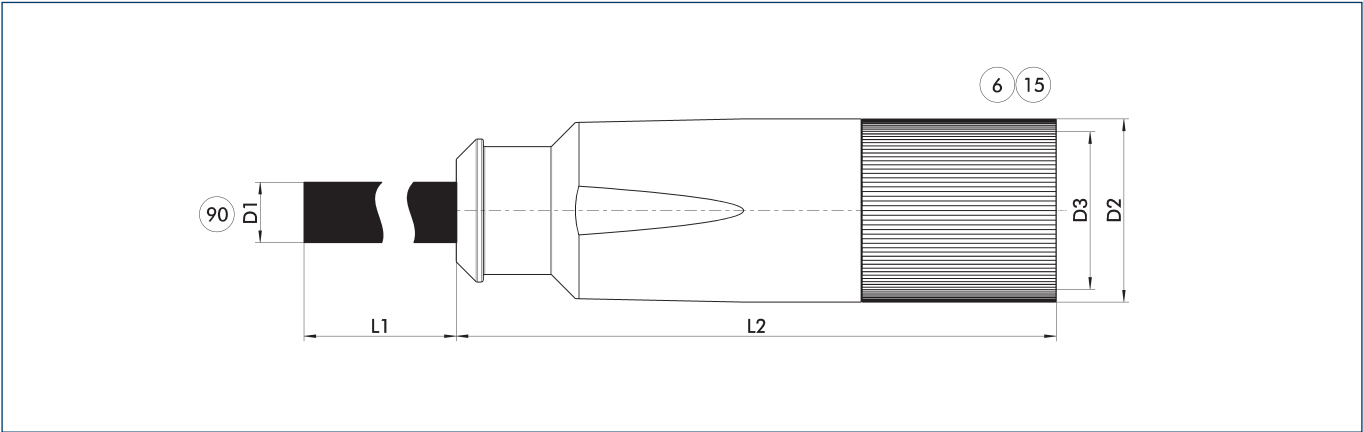
- | | |
|--------------------------|--------------------------------|
| ① Connection swivel unit | ⑦③ Fit for centering pins |
| ② Attachment connection | ⑦⑧ Fit for centering |
| ②④ Bolt circle | ⑨⑩ Zero pulse (encoder system) |

View for rotary unit with pneumatic holding brake



In addition to the two micro valves, the brake version's scope of delivery includes connection cables and a Y-distributor.

Power cable



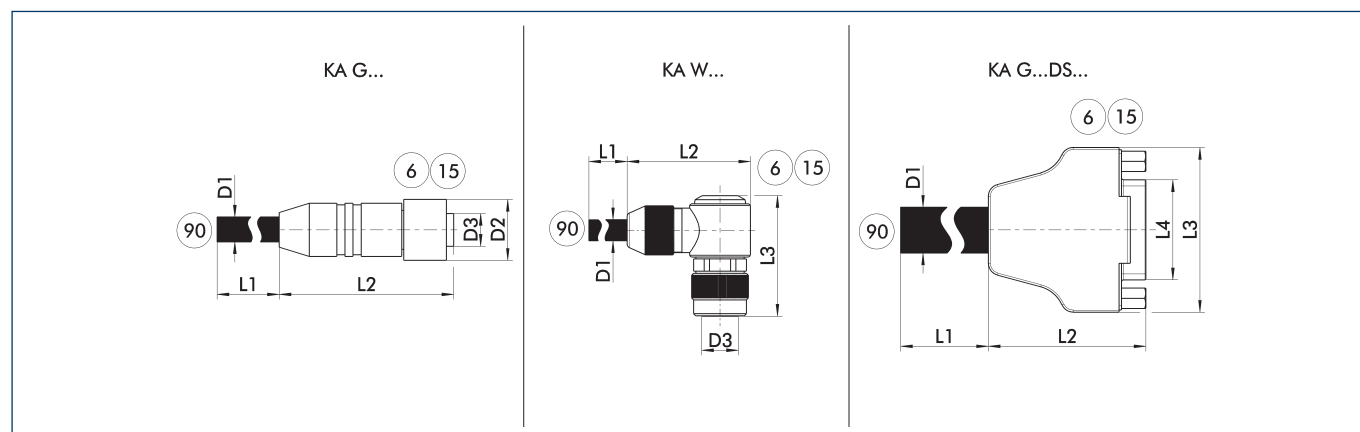
Connection cables such as power cables and encoder cables are specifically designed for connecting SCHUNK products with drive control units. We will gladly help you to select the right connection cables.

- ⑥ Connection module side
- ⑮ Socket
- ⑨⑩ Prefabricated to connect to the higher-level components

Description	ID	L1	D1	L2	D2	D3
		[m]	[mm]	[mm]	[mm]	
Power cable for BOSCH Rexroth IndraDrive A/B - cable track-compatible						
KA GLT1706-LK-00500-B	0349861	5	8.5	71	21.2	M17
KA GLT1706-LK-01000-B	0349862	10	8.5	71	21.2	M17
KA GLT1706-LK-01500-B	0349863	15	8.5	71	21.2	M17
KA GLT1707-LK-02000-B	0349864	20	8.5	71	21.2	M17
Power cable for BOSCH Rexroth IndraDrive Cs - cable track-compatible						
KA GLT1706-LK-00500-C	0349882	5	8.5	71	21.2	M17
KA GLT1706-LK-01000-C	0349883	10	8.5	71	21.2	M17
KA GLT1706-LK-01500-C	0349884	15	8.5	71	21.2	M17
KA GLT1706-LK-02000-C	0349885	20	8.5	71	21.2	M17
Power cable for SIEMENS SINAMICS - cable track compatible						
KA GGT1706-LK-00100-S	0349893	1	8.5	71	21.2	M17
KA GGT1706-LK-00200-S	0349894	2	8.5	71	21.2	M17
KA GGT1706-LK-00300-S	0349895	3	8.5	71	21.2	M17

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.

Encoder cable



KA G... encoder cable with straight plug

KA W... encoder cable with angled plug

KA G...DS... Sub D encoder cable

⑥ Connection module side

⑮ Socket

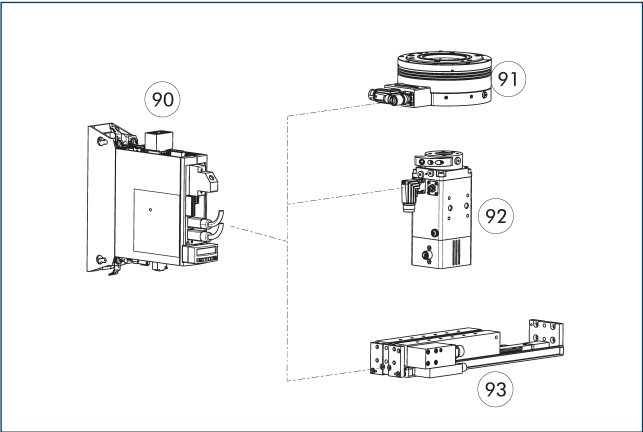
⑨⑩ Prefabricated for connection to the drive controller

Connection cables such as power cables and encoder cables are specifically designed for connecting SCHUNK products with drive control units. We will gladly help you to select the right connection cables.

Description	ID	L1	D1	L2	L3	D3
		[m]	[mm]	[mm]	[mm]	
Encoder cable for BOSCH Rexroth IndraDrive A/B (CSx01) – cable track-compatible						
KA WWN0908-GK-00500-B	0349500	5	5.8	28.5	30	M9
KA WWN0908-GK-01000-B	0349501	10	5.8	28.5	30	M9
KA WWN0908-GK-01500-B	0349502	15	5.8	28.5	30	M9
KA WWN0908-GK-02000-B	0349503	20	5.8	28.5	30	M9
Sensor cable for BOSCH Rexroth IndraDrive Cs and BOSCH Rexroth IndraDrive A/B (Cxx02) – cable track compatible						
KA WWN0908-GK-00500-C	0349505	5	5.8	28.5	30	M9
KA WWN0908-GK-01000-C	0349506	10	5.8	28.5	30	M9
KA WWN0908-GK-01500-C	0349507	15	5.8	28.5	30	M9
KA WWN0908-GK-02000-C	0349508	20	5.8	28.5	30	M9
Encoder cable for SIEMENS SINAMICS – drag chain suitable						
KA WGN0908-GK-00100-S	0349531	1	5.8	28.5	30	M9
KA WGN0908-GK-00200-S	0349532	2	5.8	28.5	30	M9
KA WGN0908-GK-00300-S	0349533	3	5.8	28.5	30	M9

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.

Bosch Rexroth IndraDrive Cs controller



- 90

Controller
- 91

Rotary module ERS/ERT, electric
- 92

ERD Rotary unit
- 93

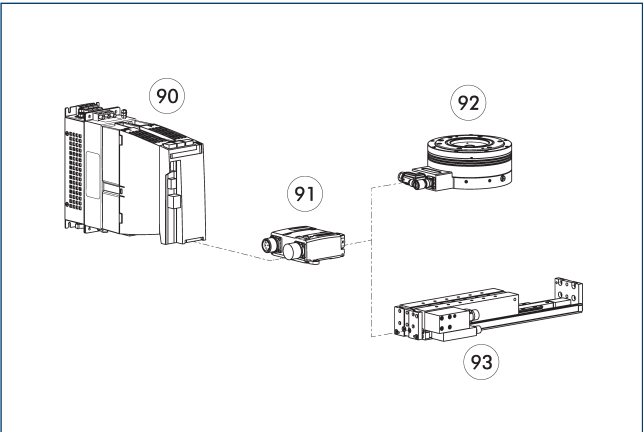
Compact linear module ELB

The controller can be used to operate the rotary modules ERS, ERT and ERD as well as for SCHUNK linear motor axes. It is available with the PROFIBUS or Multi-Ethernet (Sercos III, PROFINET, EtherCAT, EtherNet/IP) communication interfaces.

Description	Nominal current	Maximum current	Note
	[A]	[A]	
Controller			
HCS01.1E-W0008	2.7	8	

① We will be happy to help you select the right controller. Please contact us for assistance.

Siemens SINAMICS controller



- 90

Controller
- 91

Sensor module Siemens SME
- 92

ERS Rotary unit
- 93

Compact linear module ELB

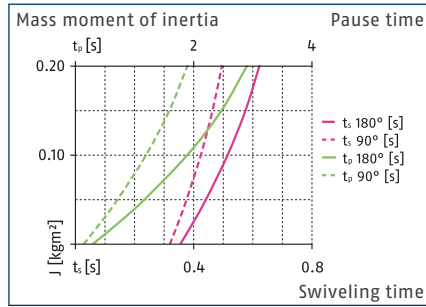
The controller can be used to operate the rotary module ERS 560 V and the SCHUNK linear motor axes. It is available with the PROFIBUS or PROFINET communication interfaces.

Description	Nominal current	Maximum current
	[A]	[A]
Controller		
Sinamics S120	1.7	3.4

① We will be happy to help you select the right controller. Please contact us for assistance.

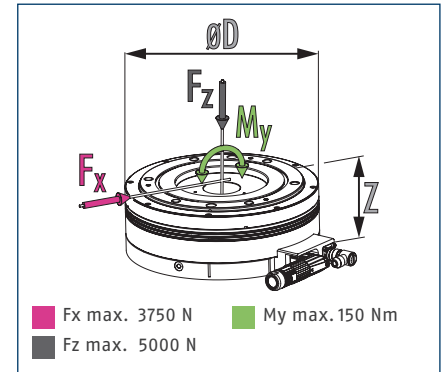


Swiveling time diagram 560 V



① The diagram shows the shortest possible swiveling times with max. current. The indicated break times have to be strictly observed. Please contact us for assistance with the design of your case of application and optimization of the cycle time.

Dimensions and maximum loads



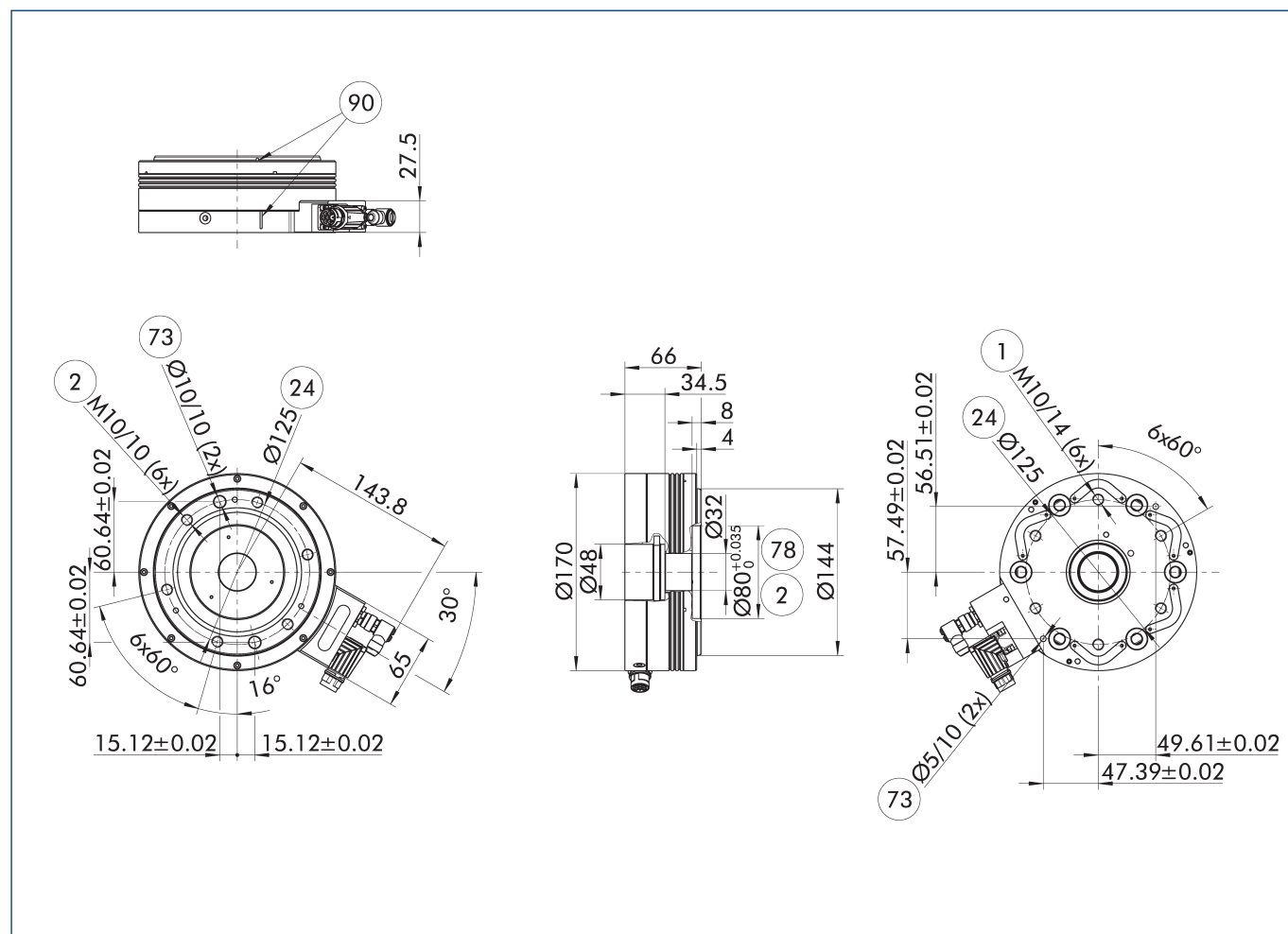
① Moments and forces must not occur simultaneously.

Technical data

Description		ERS 170-560-40-N-N-I	ERS 170-560-40-N-D-I
ID		0310178	0310180
General operating data			
Rated/maximum torque	[Nm]	5/17	4.7/17
Nominal speed	[1/min]	700	250
Max. rotational speed	[1/min]	1600	250
Max. permissible mass moment of inertia	[kgm²]	0.2	0.2
Repeat accuracy	[°]	0.01	0.01
Radial/axial runout	[mm]	0.03/0.03	0.05/0.05
Weight	[kg]	4.2	6.3
Min./max. ambient temperature	[°C]	5/55	5/55
IP protection class		40	40
Dimensions Ø D x Z	[mm]	170 x 66	170 x 100
Electrical operating data			
Intermediate circuit voltage	[V]	560	560
Rated/maximum current	[A]	1.6/5.6	1.6/5.6
Encoder system		Encoder (incremental)	Encoder (incremental)
Output signal		Sin/Cos 1Vss	Sin/Cos 1Vss
Operating data of the rotary feed-through			
Number of pneumatic feed-throughs			1
Max. operating pressure	[bar]		8
Number of electrical feed-throughs			8
Max. voltage (DC)	[V]		24
Max. current	[A]		2
Options and their characteristics			
Version with holding brake		ERS 170-560-40-B-N-I	ERS 170-560-40-B-D-I
ID		0310182	0310184
Moment holding brake	[Nm]	5	5

① All versions are also available with protection class IP54 upon request.
The peak torques serve as short-term drive reserves when accelerating and delaying.

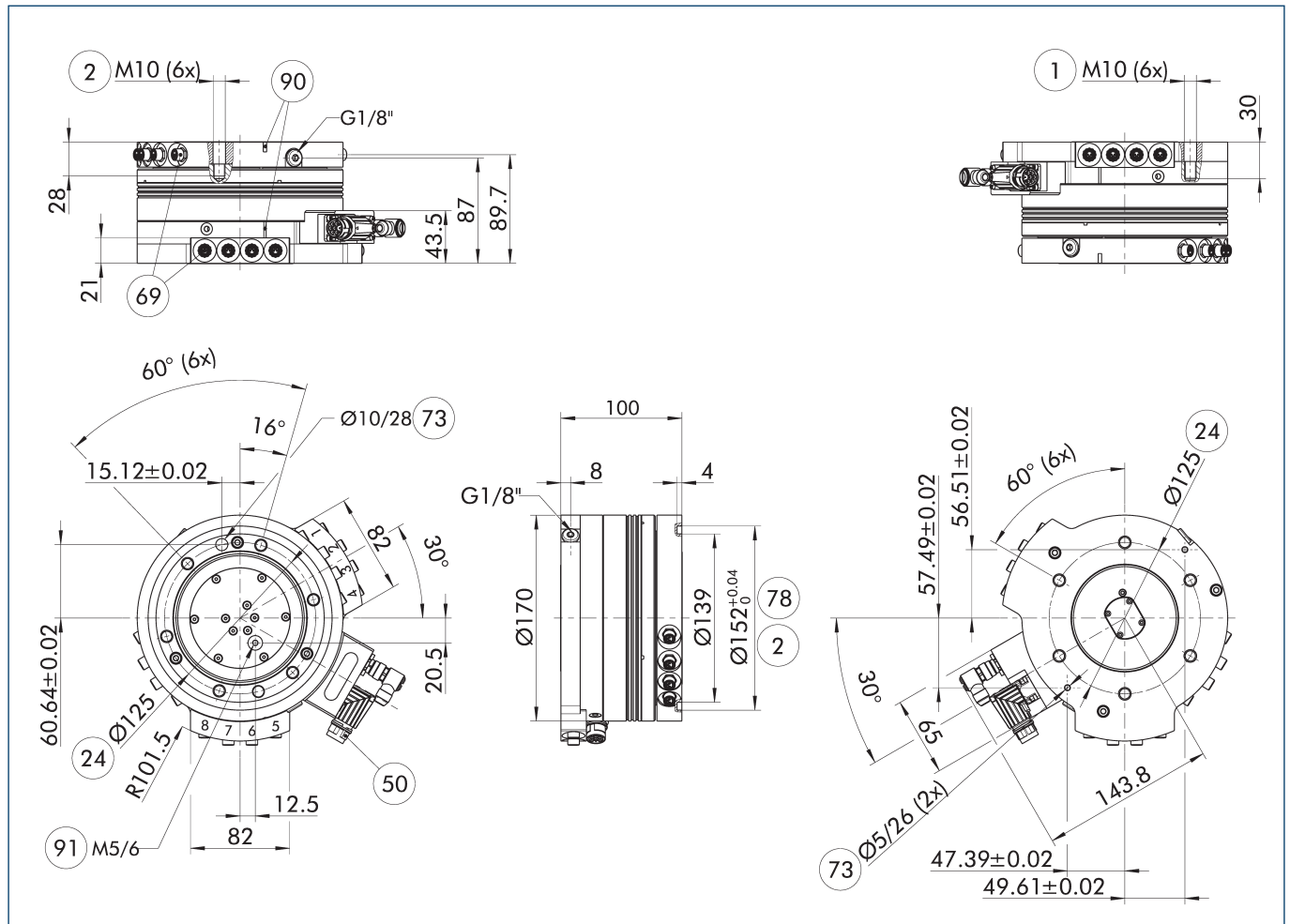
Main view for ERS without rotary feed-through



The drawing shows the basic version of the rotary unit without dimensional consideration of the options described below.

- | | |
|--------------------------|--------------------------------|
| ① Connection swivel unit | ⑦③ Fit for centering pins |
| ② Attachment connection | ⑦⑧ Fit for centering |
| ②④ Bolt circle | ⑨⑩ Zero pulse (encoder system) |

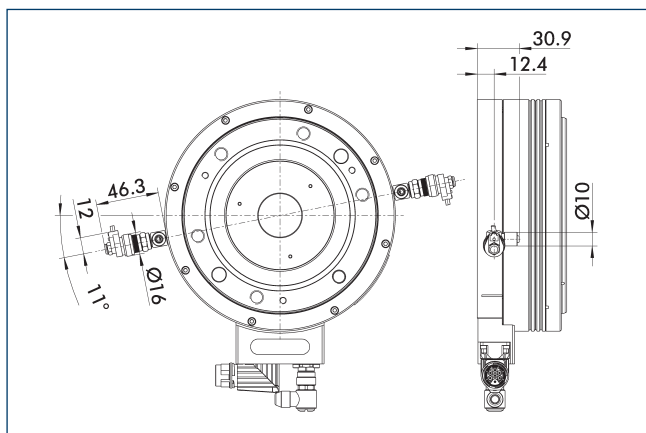
Main view for ERS with rotary feed-through



The drawing shows the rotary unit with the rotary feed-through option, without dimensional consideration of the options described below.

- | | |
|---|--|
| ① Connection swivel unit | ⑦③ Fit for centering pins |
| ② Attachment connection | ⑦⑧ Fit for centering |
| ②④ Bolt circle | ⑨⑩ Zero pulse (encoder system) |
| ⑤⑩ Electrical connection | ⑨⑪ Direct connection for hose-free compressed air supply |
| ⑥⑨ Connection for electric feed-through | |

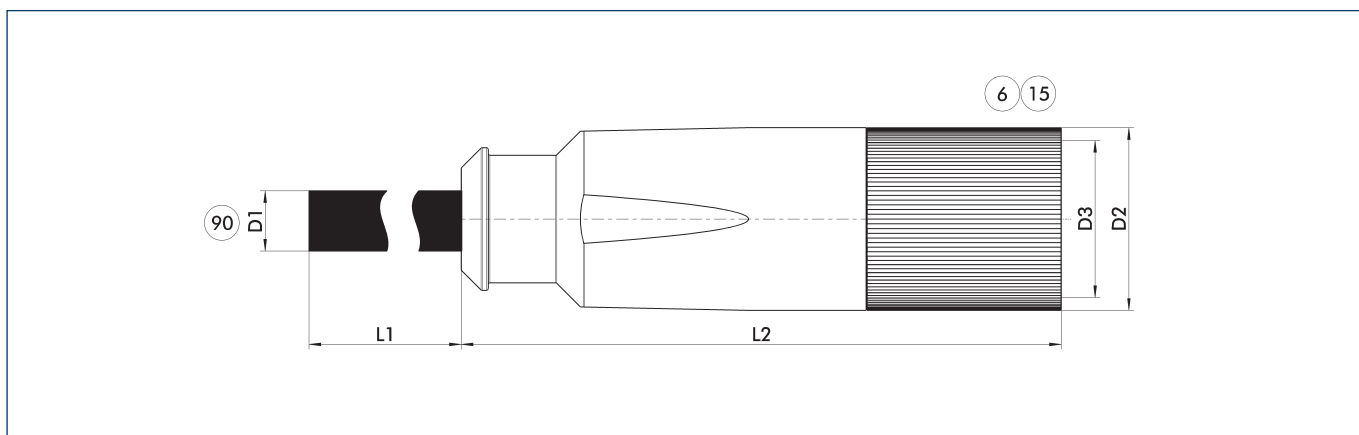
View for rotary unit with pneumatic holding brake



In addition to the two micro valves, the brake version's scope of delivery includes connection cables and a Y-distributor.

- ① The dimensions are identical for the ERS rotary module with and without rotary feed-through.

Power cable



Connection cables such as power cables and encoder cables are specifically designed for connecting SCHUNK products with drive control units. We will gladly help you to select the right connection cables.

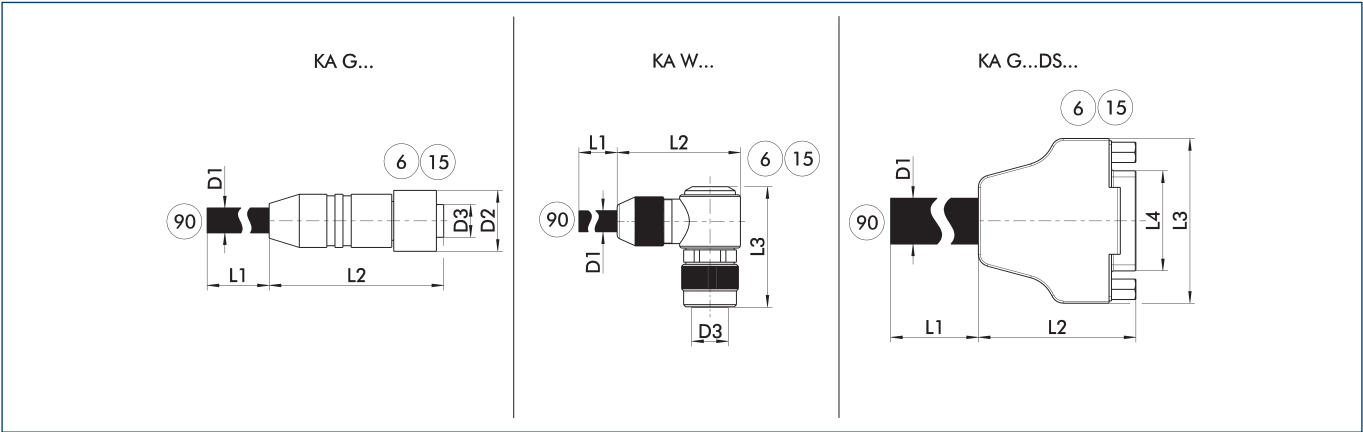
- ⑥ Connection module side
⑮ Socket

- ⑨ Prefabricated to connect to the higher-level components

Description	ID	L1	D1	L2	D2	D3
		[m]	[mm]	[mm]	[mm]	
Power cable for BOSCH Rexroth IndraDrive A/B – cable track-compatible						
KA GLT1706-LK-00500-B	0349861	5	8.5	71	21.2	M17
KA GLT1706-LK-01000-B	0349862	10	8.5	71	21.2	M17
KA GLT1706-LK-01500-B	0349863	15	8.5	71	21.2	M17
KA GLT1707-LK-02000-B	0349864	20	8.5	71	21.2	M17
Power cable for BOSCH Rexroth IndraDrive Cs – cable track-compatible						
KA GLT1706-LK-00500-C	0349882	5	8.5	71	21.2	M17
KA GLT1706-LK-01000-C	0349883	10	8.5	71	21.2	M17
KA GLT1706-LK-01500-C	0349884	15	8.5	71	21.2	M17
KA GLT1706-LK-02000-C	0349885	20	8.5	71	21.2	M17
Power cable for SIEMENS SINAMICS – cable track compatible						
KA GGT1706-LK-00100-S	0349893	1	8.5	71	21.2	M17
KA GGT1706-LK-00200-S	0349894	2	8.5	71	21.2	M17
KA GGT1706-LK-00300-S	0349895	3	8.5	71	21.2	M17

- 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.

Encoder cable



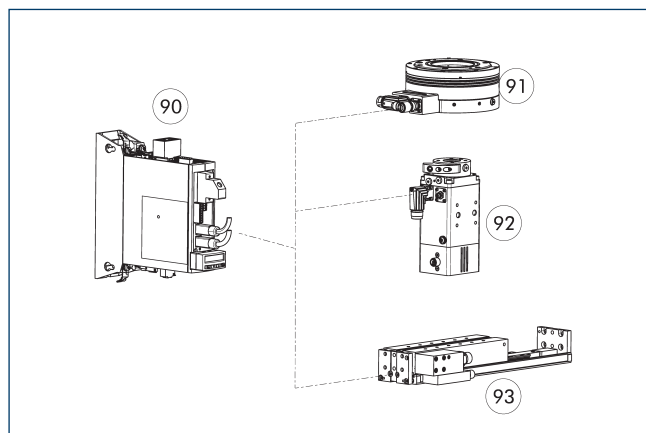
- KA G... encoder cable with straight plug
- KA W... encoder cable with angled plug
- KA G...DS... Sub D encoder cable
- 6 Connection module side
- 15 Socket
- 90 Prefabricated for connection to the drive controller

Connection cables such as power cables and encoder cables are specifically designed for connecting SCHUNK products with drive control units. We will gladly help you to select the right connection cables.

Description	ID	L1	D1	L2	L3	D3
		[m]	[mm]	[mm]	[mm]	
Encoder cable for BOSCH Rexroth IndraDrive A/B (CSx01) – cable track-compatible						
KA WWN0908-GK-00500-B	0349500	5	5.8	28.5	30	M9
KA WWN0908-GK-01000-B	0349501	10	5.8	28.5	30	M9
KA WWN0908-GK-01500-B	0349502	15	5.8	28.5	30	M9
KA WWN0908-GK-02000-B	0349503	20	5.8	28.5	30	M9
Sensor cable for BOSCH Rexroth IndraDrive Cs and BOSCH Rexroth IndraDrive A/B (Cxx02) – cable track compatible						
KA WWN0908-GK-00500-C	0349505	5	5.8	28.5	30	M9
KA WWN0908-GK-01000-C	0349506	10	5.8	28.5	30	M9
KA WWN0908-GK-01500-C	0349507	15	5.8	28.5	30	M9
KA WWN0908-GK-02000-C	0349508	20	5.8	28.5	30	M9
Encoder cable for SIEMENS SINAMICS – drag chain suitable						
KA WGN0908-GK-00100-S	0349531	1	5.8	28.5	30	M9
KA WGN0908-GK-00200-S	0349532	2	5.8	28.5	30	M9
KA WGN0908-GK-00300-S	0349533	3	5.8	28.5	30	M9

ⓘ 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.

Bosch Rexroth IndraDrive Cs controller



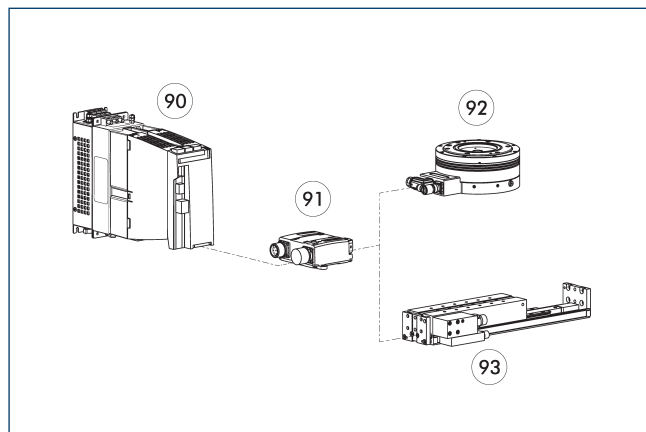
- 90 Controller
 91 Rotary module ERS/ERT, electric
 92 ERD Rotary unit
 93 Compact linear module ELB

The controller can be used to operate the rotary modules ERS, ERT and ERD as well as for SCHUNK linear motor axes. It is available with the PROFIBUS or Multi-Ethernet (Sercos III, PROFINET, EtherCAT, EtherNet/IP) communication interfaces.

Description	Nominal current [A]	Maximum current [A]	Note
Controller			
HCS01.1E-W0008	2.7	8	

- ① We will be happy to help you select the right controller. Please contact us for assistance.

Siemens SINAMICS controller



- 90 Controller
 91 Sensor module Siemens SME
 92 ERS Rotary unit
 93 Compact linear module ELB

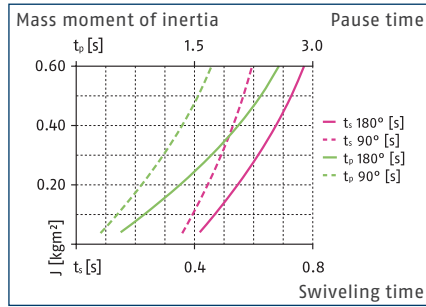
The controller can be used to operate the rotary module ERS 560 V and the SCHUNK linear motor axes. It is available with the PROFIBUS or PROFINET communication interfaces.

Description	Nominal current [A]	Maximum current [A]
Controller		
Sinamics S120	1.7	3.4

- ① We will be happy to help you select the right controller. Please contact us for assistance.

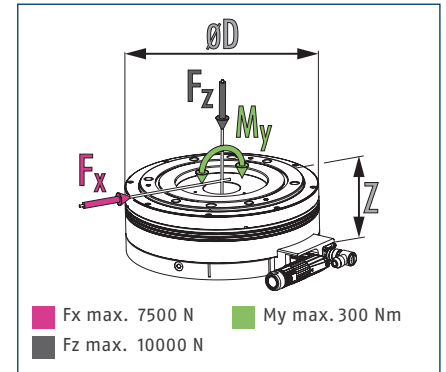


Swiveling time diagram 560 V



① The diagram shows the shortest possible swiveling times with max. current. The indicated break times have to be strictly observed. Please contact us for assistance with the design of your case of application and optimization of the cycle time.

Dimensions and maximum loads



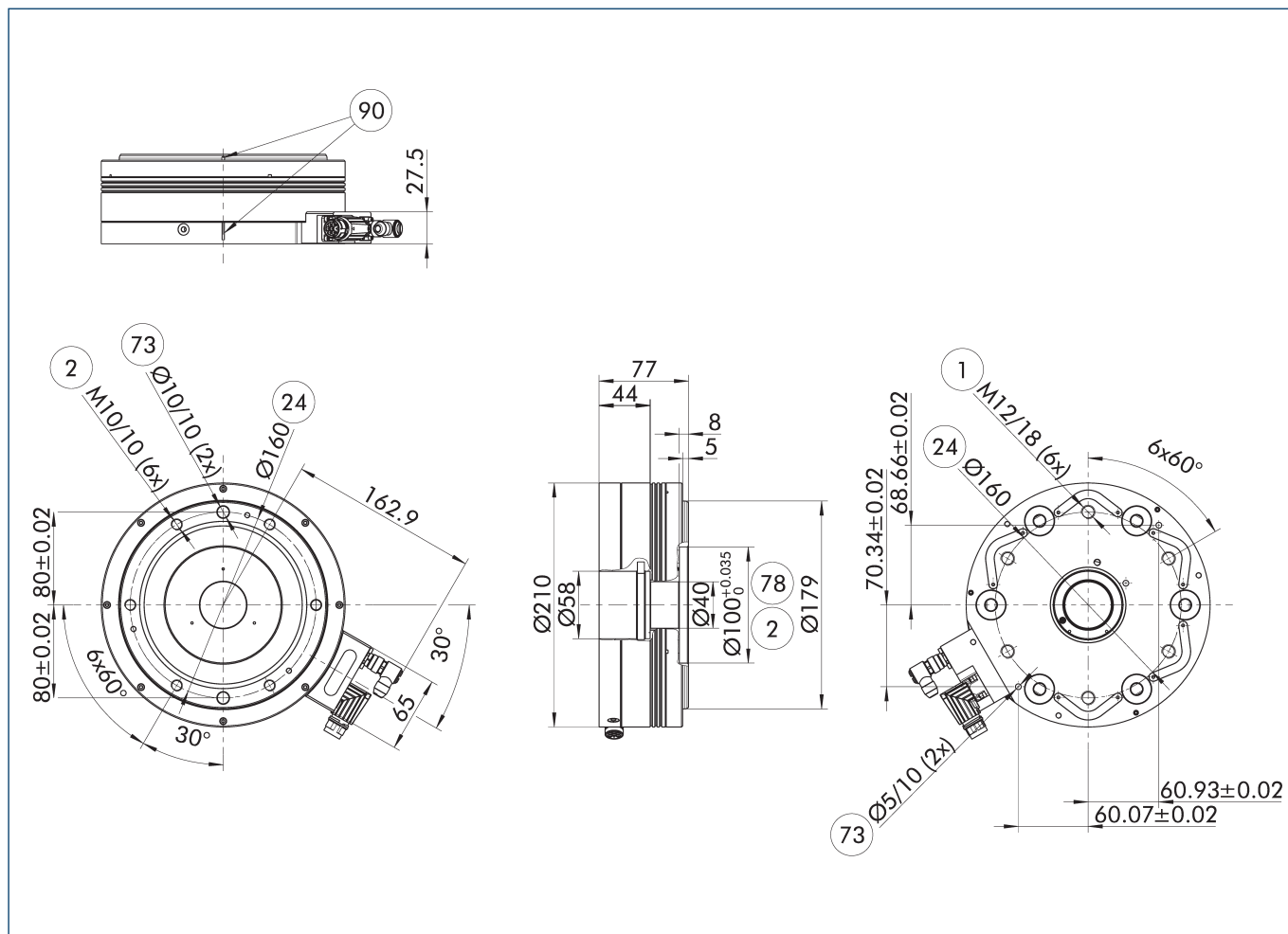
① Moments and forces must not occur simultaneously.

Technical data

Description		ERS 210-560-40-N-N-I	ERS 210-560-40-N-D-I
ID		0310210	0310212
General operating data			
Rated/maximum torque	[Nm]	10/27	9.3/27
Nominal speed	[1/min]	600	250
Max. rotational speed	[1/min]	1000	250
Max. permissible mass moment of inertia	[kgm²]	0.6	0.6
Repeat accuracy	[°]	0.01	0.01
Radial/axial runout	[mm]	0.04/0.04	0.06/0.06
Weight	[kg]	7.4	10.9
Min./max. ambient temperature	[°C]	5/55	5/55
IP protection class		40	40
Dimensions Ø D x Z	[mm]	210 x 77	210 x 111
Electrical operating data			
Intermediate circuit voltage	[V]	560	560
Rated/maximum current	[A]	1.8/5.7	1.8/5.7
Encoder system		Encoder (incremental)	Encoder (incremental)
Output signal		Sin/Cos 1Vss	Sin/Cos 1Vss
Operating data of the rotary feed-through			
Number of pneumatic feed-throughs			1
Max. operating pressure	[bar]		8
Number of electrical feed-throughs			8
Max. voltage (DC)	[V]		24
Max. current	[A]		2
Options and their characteristics			
Version with holding brake		ERS 210-560-40-B-N-I	ERS 210-560-40-B-D-I
ID		0310214	0310216
Moment holding brake	[Nm]	10	10

① All versions are also available with protection class IP54 upon request.
The peak torques serve as short-term drive reserves when accelerating and delaying.

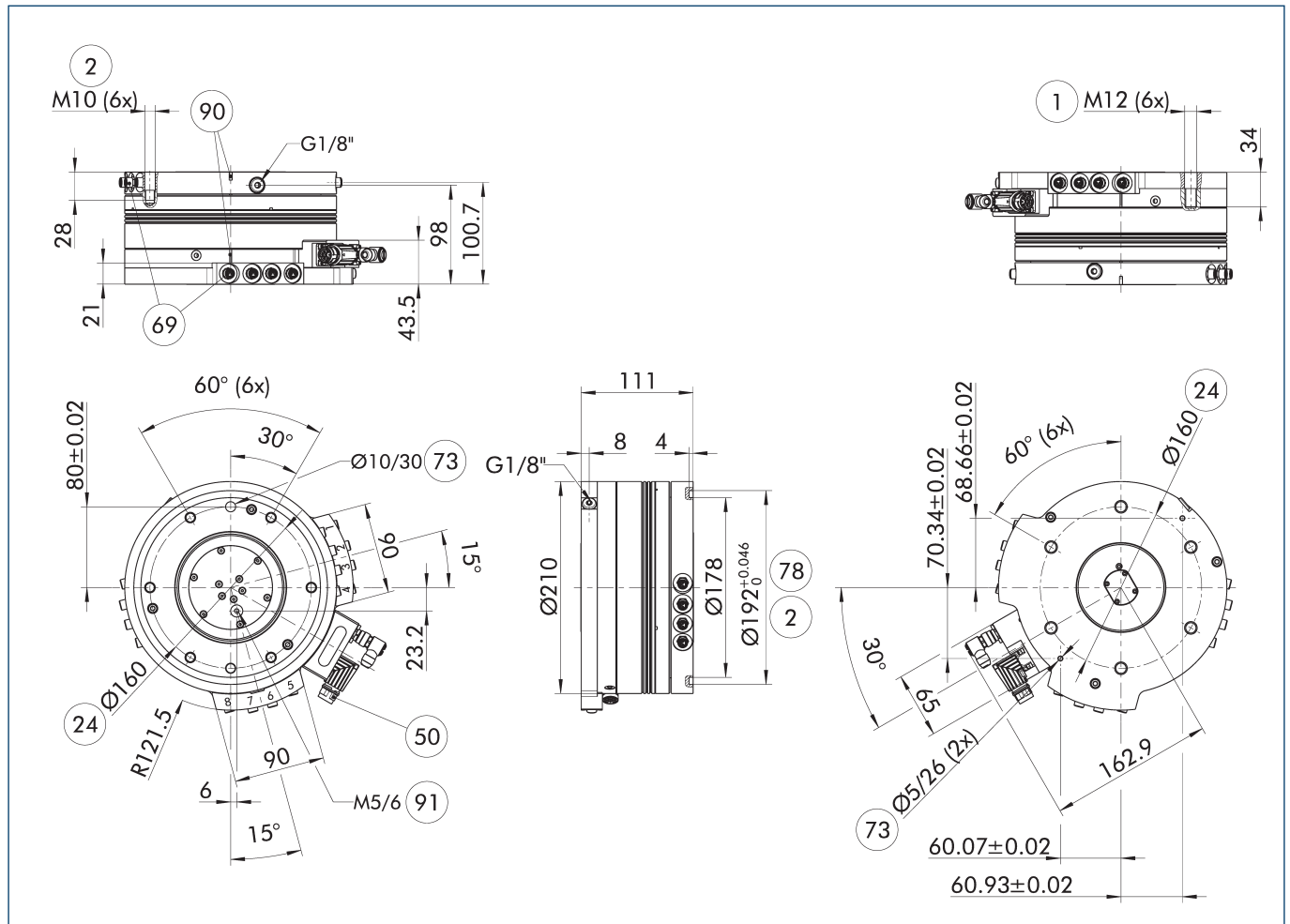
Main view for ERS without rotary feed-through



The drawing shows the basic version of the rotary unit without dimensional consideration of the options described below.

- | | |
|--------------------------|--------------------------------|
| ① Connection swivel unit | ⑦③ Fit for centering pins |
| ② Attachment connection | ⑦⑧ Fit for centering |
| ②④ Bolt circle | ⑨⑩ Zero pulse (encoder system) |

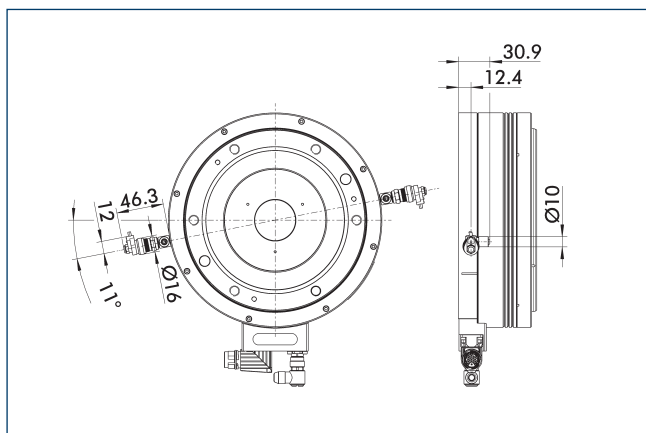
Main view for ERS with rotary feed-through



The drawing shows the rotary unit with the rotary feed-through option, without dimensional consideration of the options described below.

- | | |
|---|--|
| ① Connection swivel unit | ⑦③ Fit for centering pins |
| ② Attachment connection | ⑦⑧ Fit for centering |
| ②④ Bolt circle | ⑨⑩ Zero pulse (encoder system) |
| ⑤⑩ Electrical connection | ⑨① Direct connection for hose-free compressed air supply |
| ⑥⑨ Connection for electric feed-through | |

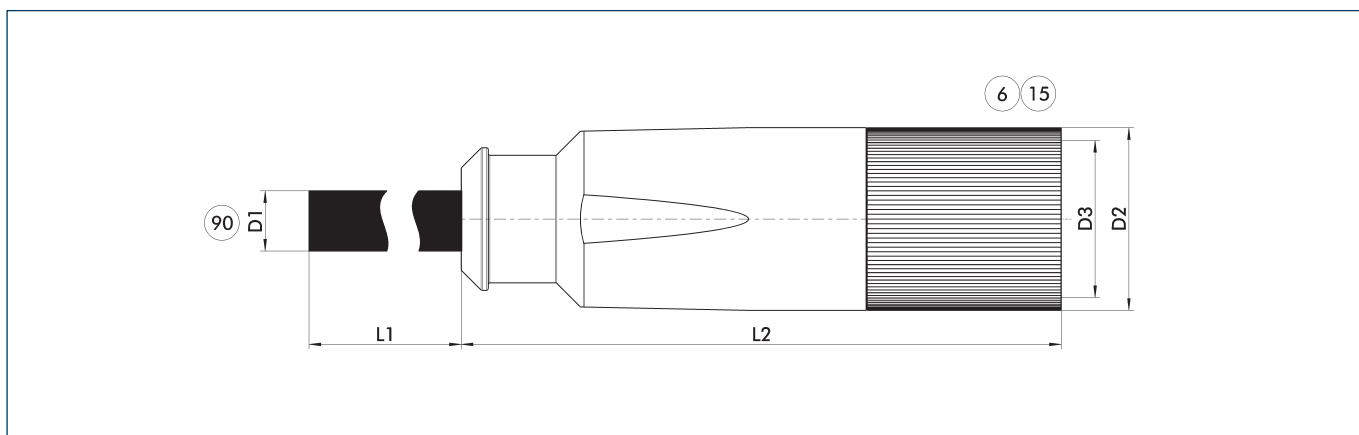
View for rotary unit with pneumatic holding brake



In addition to the two micro valves, the brake version's scope of delivery includes connection cables and a Y-distributor.

- ① The dimensions are identical for the ERS rotary module with and without rotary feed-through.

Power cable



Connection cables such as power cables and encoder cables are specifically designed for connecting SCHUNK products with drive control units. We will gladly help you to select the right connection cables.

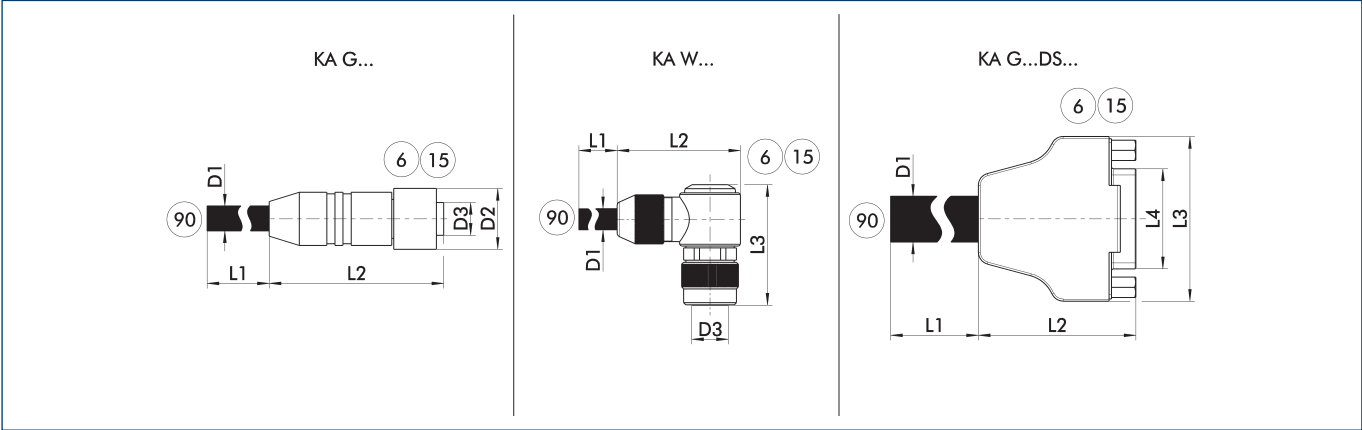
- ⑥ Connection module side
⑮ Socket

- ⑨ Prefabricated to connect to the higher-level components

Description	ID	L1	D1	L2	D2	D3
		[m]	[mm]	[mm]	[mm]	
Power cable for BOSCH Rexroth IndraDrive A/B – cable track-compatible						
KA GLT1706-LK-00500-B	0349861	5	8.5	71	21.2	M17
KA GLT1706-LK-01000-B	0349862	10	8.5	71	21.2	M17
KA GLT1706-LK-01500-B	0349863	15	8.5	71	21.2	M17
KA GLT1707-LK-02000-B	0349864	20	8.5	71	21.2	M17
Power cable for BOSCH Rexroth IndraDrive Cs – cable track-compatible						
KA GLT1706-LK-00500-C	0349882	5	8.5	71	21.2	M17
KA GLT1706-LK-01000-C	0349883	10	8.5	71	21.2	M17
KA GLT1706-LK-01500-C	0349884	15	8.5	71	21.2	M17
KA GLT1706-LK-02000-C	0349885	20	8.5	71	21.2	M17
Power cable for SIEMENS SINAMICS – cable track compatible						
KA GGT1706-LK-00100-S	0349893	1	8.5	71	21.2	M17
KA GGT1706-LK-00200-S	0349894	2	8.5	71	21.2	M17
KA GGT1706-LK-00300-S	0349895	3	8.5	71	21.2	M17

- 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.

Encoder cable



KA G... encoder cable with straight plug
KA W... encoder cable with angled plug
KA G...DS... Sub D encoder cable

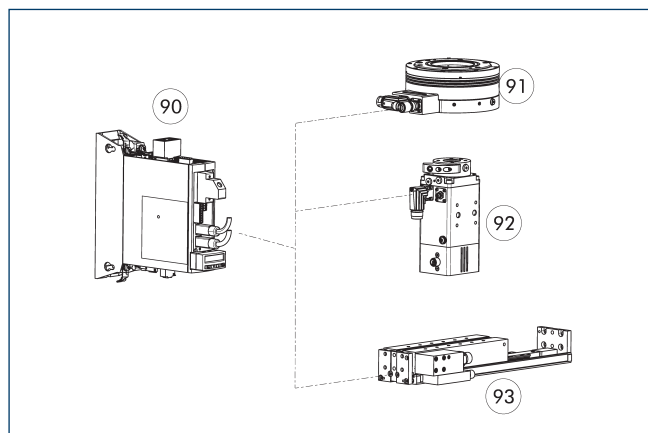
⑥ Connection module side
⑮ Socket
⑨⑩ Prefabricated for connection to the drive controller

Connection cables such as power cables and encoder cables are specifically designed for connecting SCHUNK products with drive control units. We will gladly help you to select the right connection cables.

Description	ID	L1	D1	L2	L3	D3
		[m]	[mm]	[mm]	[mm]	
Encoder cable for BOSCH Rexroth IndraDrive A/B (CSx01) – cable track-compatible						
KA WWN0908-GK-00500-B	0349500	5	5.8	28.5	30	M9
KA WWN0908-GK-01000-B	0349501	10	5.8	28.5	30	M9
KA WWN0908-GK-01500-B	0349502	15	5.8	28.5	30	M9
KA WWN0908-GK-02000-B	0349503	20	5.8	28.5	30	M9
Sensor cable for BOSCH Rexroth IndraDrive Cs and BOSCH Rexroth IndraDrive A/B (Cxx02) – cable track compatible						
KA WWN0908-GK-00500-C	0349505	5	5.8	28.5	30	M9
KA WWN0908-GK-01000-C	0349506	10	5.8	28.5	30	M9
KA WWN0908-GK-01500-C	0349507	15	5.8	28.5	30	M9
KA WWN0908-GK-02000-C	0349508	20	5.8	28.5	30	M9
Encoder cable for SIEMENS SINAMICS – drag chain suitable						
KA WGN0908-GK-00100-S	0349531	1	5.8	28.5	30	M9
KA WGN0908-GK-00200-S	0349532	2	5.8	28.5	30	M9
KA WGN0908-GK-00300-S	0349533	3	5.8	28.5	30	M9

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.

Bosch Rexroth IndraDrive Cs controller



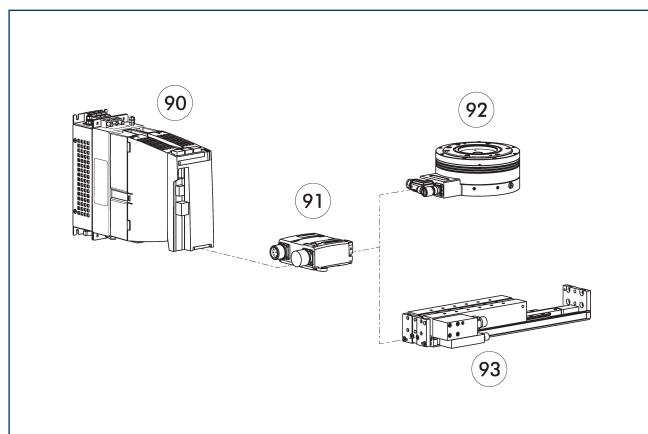
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Description	Nominal current [A]	Maximum current [A]	Note
Controller			
HCS01.1E-W0008	2.7	8	

- ① We will be happy to help you select the right controller. Please contact us for assistance.

Siemens SINAMICS controller



- 90 Controller
 91 Sensor module Siemens SME
 92 ERS Rotary unit
 93 Compact linear module ELB

The controller can be used to operate the rotary module ERS 560 V and the SCHUNK linear motor axes. It is available with the PROFIBUS or PROFINET communication interfaces.

Description	Nominal current [A]	Maximum current [A]
Controller		
Sinamics S120	1.7	3.4

- ① We will be happy to help you select the right controller. Please contact us for assistance.



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