

SCAN COIN SC 93XXX

Coin Lifts

Service Manual



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1 General Information

SCAN COIN Intramat AB reserves the right to revise and improve its products as it sees fit. This publication describes the product at the time of publication and may not reflect the product in the future.

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1.1 Declaration of Conformity

We, SCAN COIN AB, Malmö, Sweden, declare under our sole responsibility, that the product in this manual, to which this declaration relates, is in conformity with the following standards and/or other normative documents:

- EN 12100 and EN 61000, following the provisions of:
- Machinery Directive 98/37/EEC and amendment Directives 98/37/EC and 98/79/EC;
- EMC Directive 89/336/EEC and amendment Directives 92/31/EEC and 93/68/EEC.

1.2 Environmental Compliance

Note! If the equipment contains batteries or accumulators, dispose of these separately according to local requirements.

WEEE Directive (valid in the EU only)

Waste Electrical and Electronic Equipment Directive 2002/96/EC.



Equipment marked with this symbol must be treated separately and in accordance with any local legislation requiring proper treatment, recovery and recycling of used electric and electronic equipment.

Contact your SCAN COIN representative for further details.

1.3 Responsibility

The supplier of the equipment accepts no responsibility for injury or damage to personnel or equipment, if the equipment is altered in any way or used in a manner for which it was not intended at the time of delivery.

If the conditions for use of the equipment are changed, the supplier must be contacted or the declaration of conformity is invalidated.

1.4 About this Document

This service manual covers instructions for coin lifts SC 93365, SC 93420 and SC 93500. It provides information required by qualified personnel to carry out repairs, perform maintenance and service.

1.5 Revision History

Revision		Major Changes
07		Updated information Version table, SC 93420 on page 10 .
06		Corrected information in image see 9.1“Motor Protector” on page 23 Updated 3.2“Machine Label” on page 5 Updated “Version table, SC 93365” on page 8 , “Version table, SC 93420” on page 10 and “Version table, SC 93500” on page 12 Added “Version table, SC 93420 USA special” on page 11 and “Version table, SC 95700” on page 12
05	12.2 12.3 12.4 12.7 12.11	New outlet tubes added New image New image New image New motor added
04	5.1 9.2 11	Added picture, electrical cabinet. Added picture, cable and added part numbers. Changed name on K2 to time relay.
02	12	Added parts
01	4.2 4.4/4.5 7.1 7.2 8.1 12	Added wheel rack information Added part. ID and versions. Added tool Changed tool Added tools Changed spare parts
00	-	Created

1.6 Abbreviations/Acronyms

Abbreviation	Description
AC	Alternating Current
EMI	ElectroMagnetic Interference
SC	SCAN COIN

1.7 Related Documents

Document	Document number (main number)
User's Guide	050000-000
Service Manual, incl: <ul style="list-style-type: none">• Technical Handbook• Spare Parts List	050001-101

2 Safety Precautions

2.1 Hazard Notices

This handbook contains hazard information which **must be regarded by all users**.

The hazard information is presented as a warning or a caution, as follows:



WARNING!

Warnings indicate a potential hazard to the health and safety of users. They clearly state the nature of the hazard and how to avoid it. They appear at their points of application in this handbook, but with different illustrations.

Caution!

Cautions indicate a potential hazard to the physical integrity of the machine, but not a danger to personnel. They clearly state the nature of the hazard and how to avoid it. They appear at their points of application in this handbook. They look like this notice, but with different illustrations.

Note!

The servicing information and instructions contained in this technical handbook are for use by qualified personnel only. Any unauthorized attempt, by unqualified persons, to service or repair the machine, will nullify the equipment warranty.



WARNING!

Risk of electric shock!

The machine is of partly metal construction and must therefore always be earthed to the supply. Ensure that the plug on the supply lead is earthed and that the supply source is earthed. This is a requirement for this type of equipment and if not adhered to will contravene the international standards of Health and Safety in the work place.



WARNING!

Risk of getting pinched!

Never run the conveyor with the covers removed.



WARNING!

Risk of getting pinched!

Never tamper with the safety switches.



WARNING!

Risk of getting pinched!

Do not touch the transport belt unless the mains power cord has been disconnected.



WARNING!

Risk of getting pinched!

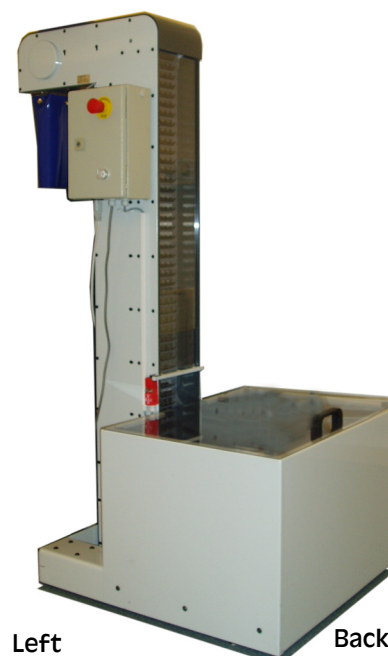
Never put your fingers or any other body part in the outlet.

3 Introduction

The coin lifts are designed to meet high demands on quality, productivity and ergonomics. They are designed to feed loose coins into sorting machines, counting machines and packaging machines.

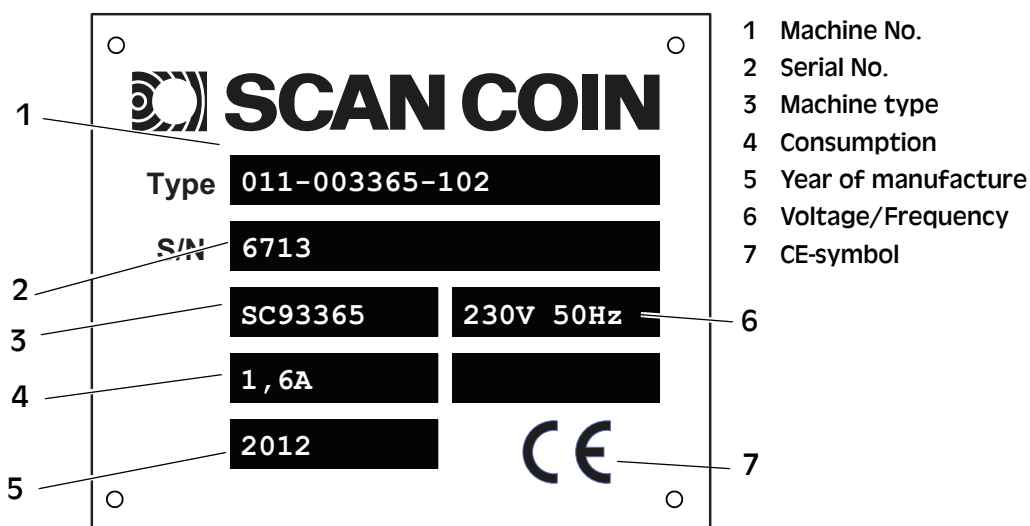
3.1 Positional References

Unless stated the contrary, positions and directions such as left, right, upper, lower, clockwise and anti-clockwise are given with respect to the machine when viewed from the **back**.



3.2 Machine Label

The label below is an **example** of information available on the machine.



4 Installation

4.1 Installation Requirements

- a) The machine must be placed on a stable horizontal surface.
- b) Ensure that the environmental requirements are met when installing the machine, see [6.2“Environmental” on page 17](#).
- c) Do not place the machine close to any radiators.
- d) Allow some free space around the machine to enable the air to circulate.



WARNING!

Risk of electric shock!

The machine is of partly metal construction and must therefore always be earthed to the supply. Ensure that the plug on the supply lead is earthed and that the supply source is earthed. This is a requirement for this type of equipment and if not adhered to will contravene the international standards of Health and Safety in the work place.

Although this machine has been tested for electromagnetic compatibility and vibration characteristics, it is recommended that no equipment which generates a high level of electromagnetic interference (EMI) or vibration is placed close to this machine.

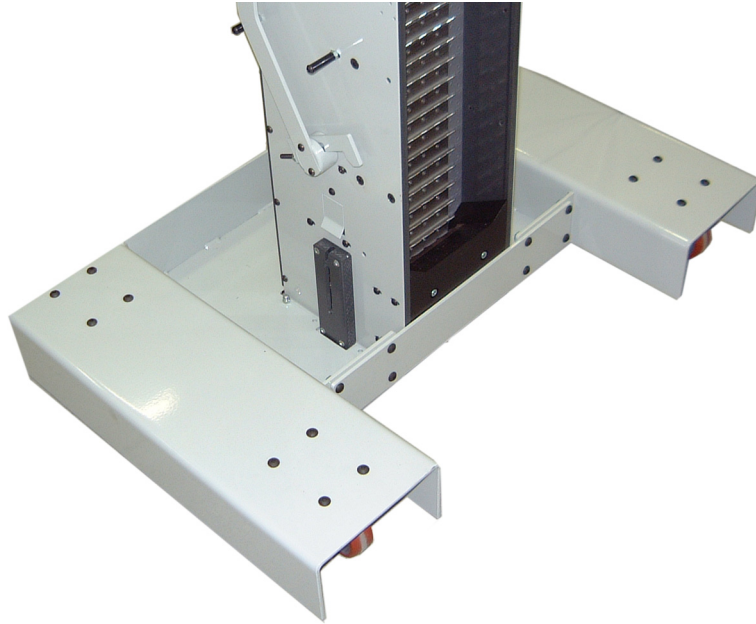
Caution! The machine must be protected by a fuse or circuit breaker in the power supply feed.

For AC voltage input, see [6.2“Environmental” on page 17](#).

4.2 Wheel Rack (Accessory)

Note! The wheel rack is an accessory for SC 93665 only.

To make the SC 93365 easier to move a wheel rack, 011-006160-000, is available. The wheel rack replaces the standard base plate.



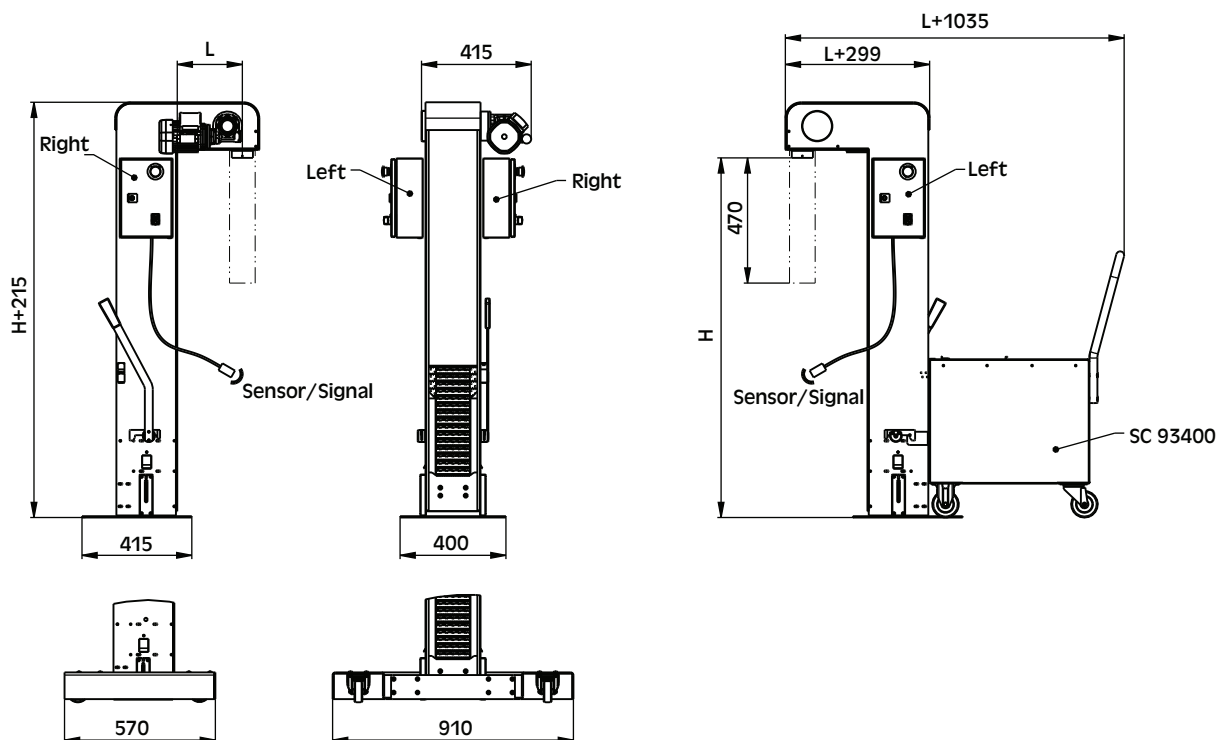
4.3 Fixing the Machine to the Floor

- a) Position the machine.
- b) Drill holes through the bottom plate.
- c) Attach suitable bolts (4 x Ø10 mm).

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4.4 Installation Drawing SC 93365



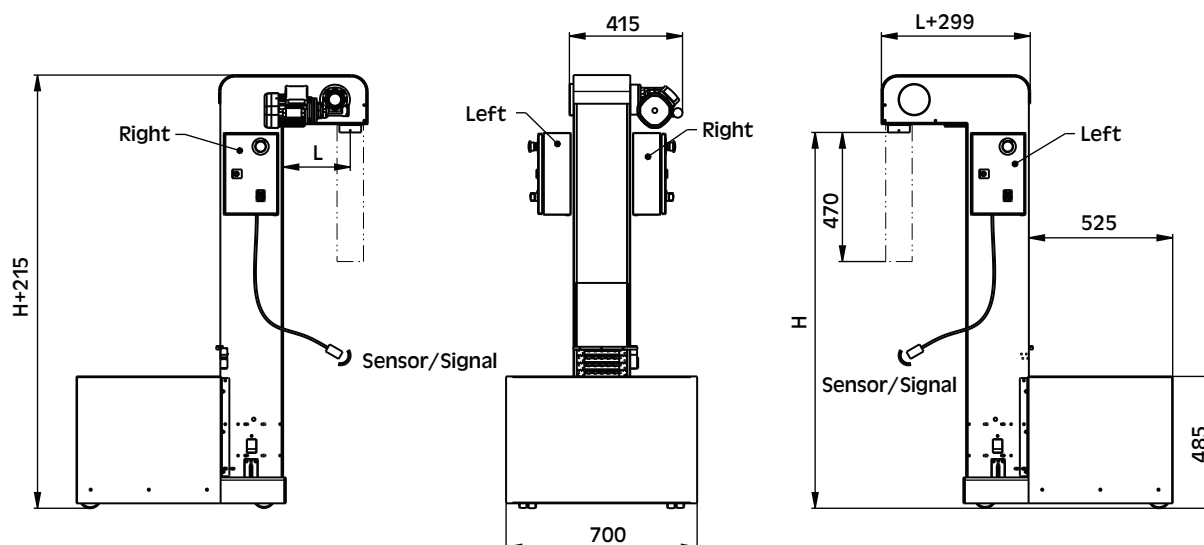
Note! Other lengths (L)/heights (H) are available on request.

Version table, SC 93365

L (mm)	H (mm)	Remarks	Part No.
246	1,357	Sensor, box on RH side	011-003365-102
		Signal, box on RH side	011-003365-103
		Sensor, MAST on RH side	011-003365-119
		Signal, box on LH side	011-003365-201
		Sensor, box on LH side	011-003365-202
		Signal/Sensor, box on LH side	011-003365-203
		Signal, box on LH side	011-003365-204
		Signal, box on LH side, 120V	011-003365-209
		Signal, MAST on LH side	011-003365-220
	1,650	Sensor, box on RH side	011-003365-108
		Signal, box on RH side	011-003365-120
		To distr. Conv Across SC 97200	011-003365-123
		Signal, box on LH side	011-003365-207
		Sensor, box on LH side	011-003365-213
	1,879	Sensor, box on RH side	011-003365-214
		Signal, box on LH side	011-003365-219

L (mm)	H (mm)	Remarks	Part No.
346	1357	Sensor, box on RH side	011-003365-127
	1,824	Sensor, box on RH side	011-003365-105
		Signal, box on LH side	011-003365-112
		Sensor, box on LH side	011-003365-206
		Signal, box on LH side	011-003365-208
396	2,230	Signal, box on RH side	011-003365-107
496	1,650	Signal, box RH side	011-003365-118
		Sensor, box on RH side	011-003365-113
	1,888	Signal, box on RH side	011-003365-115
		Sensor, box on RH side	011-003365-117
		Sensor, box LH side	011-003365-210
	1,960	Sensor, box on RH side	011-003365-110
		Signal, box on RH side	011-003365-109
		Signal, box on LH side	011-003365-215
	2,100	Signal, box RH side	011-003365-126
		Sensor, box on RH side	011-003365-128
		Signal, box LH side	011-003365-214
		Sensor, box on LH side	011-003365-217
	2,300	Signal, box RH side, 3 phase 400 V/50 HZ	011-003365-129
		Signal, box LH side	011-003365-216
		Signal, box LH side, 3 phase 400 V/50 HZ	011-003365-218
	3,300	Signal, box LH side	011-003365-212
596	1,653	For SC 97200	011-003365-114
	1,860	Signal, box on RH side	011-003365-111
	2,000	Sensor, box on RH side	011-003365-125
	2,330	Signal, box LH side	011-003365-211
796	1,960	Sensor, box on RH side	011-003365-124
800	4,553	Sensor, box on RH side	011-003365-121
1,100	2,330	Signal, box on RH side	011-003365-122

4.5 Installation Drawing SC 93420

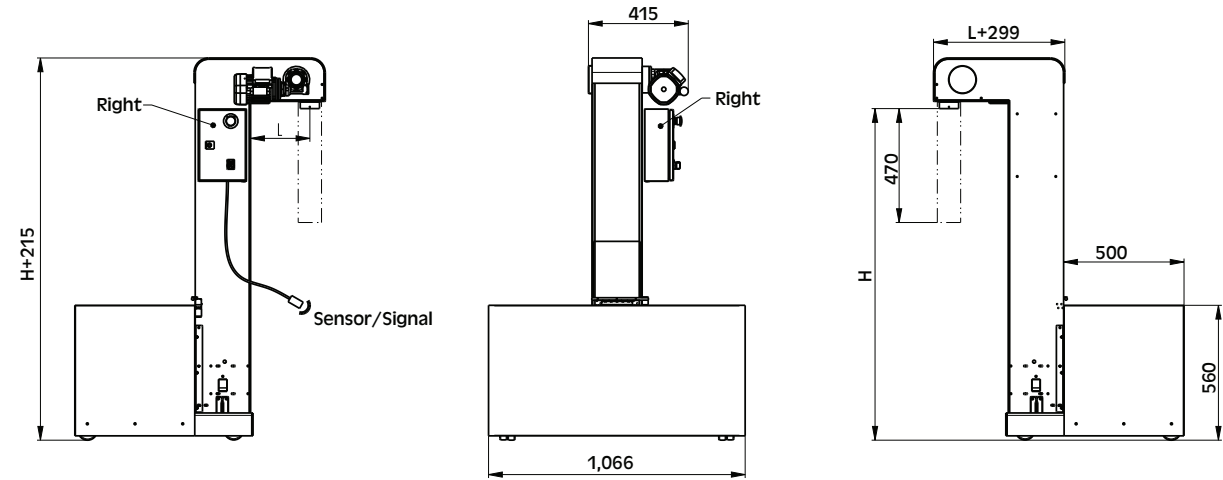


Note! Other lengths (L)/heights (H) are available on request

Version table, SC 93420

L (mm)	H (mm)	Remarks	Part No.
246	1,375	Sensor, box on RH side	011-003420-102
		Sensor, box on RH side, 120 V, 60 Hz	011-003420-116
		Signal, box on LH side	011-003420-201
		Signal, box on LH side	011-003420-202
		Signal, box on LH side	011-003420-203
		Signal, box on LH side, 120 V, 60 Hz	011-003420-207
		Signal, box on LH side, 120 V, 60 Hz	011-003420-208
		Sensor, box on LH side	011-003420-209
	1,650	Sensor, box on RH side	011-003420-104
		Signal, box on RH side, frequency inverter	011-003420-105
		Signal, box on LH side	011-003420-204
	1,895	Signal, box on RH, 220 V/50 Hz	011-003420-121
	1,980	Signal, box on RH, 220 V/50 Hz	011-003420-119
346	1,824	Signal, box on RH side	011-003420-108
		Sensor box on LH side	011-003420-205
446	2,460	Signal, box on RH side, 120 V, 60 Hz	011-003420-115
496	1,650	Signal, box on RH side	011-003420-113
		Signal, box on RH side, 120 V/60 Hz	011-003420-118
		Signal, box on LH side	011-003420-206
	1,906	Signal, box on RH side	011-003420-120
596	2,020	Sensor, box on RH side	011-003420-117
	2,230	Signal, box on RH side	011-003420-103

4.6 Installation Drawing SC 93420 -7xx

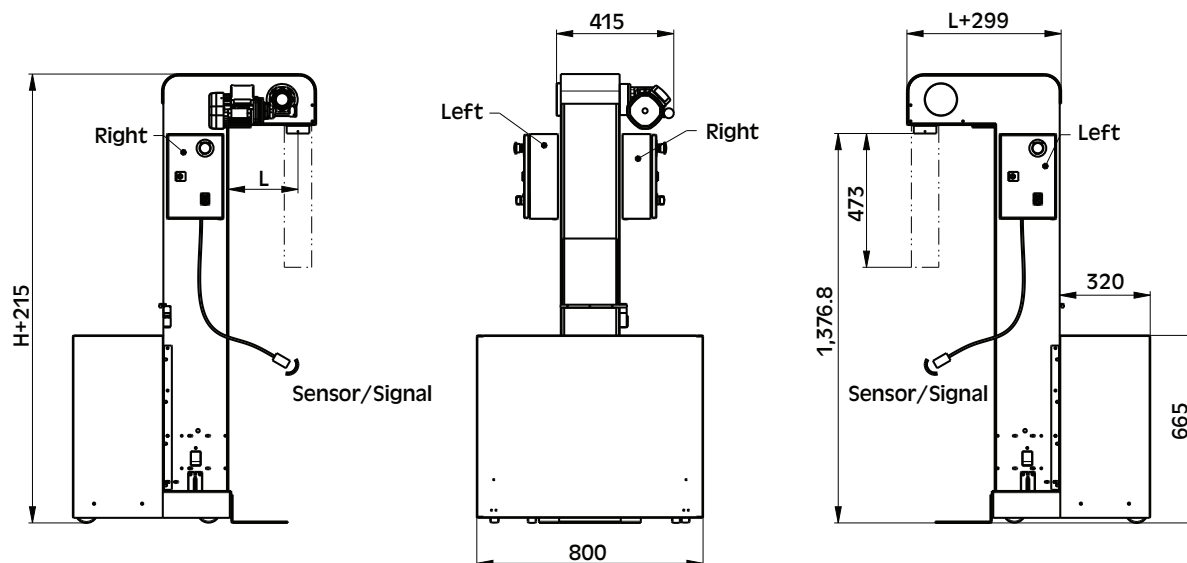


Note! Other lengths (L)/heights (H) are available on request

Version table, SC 93420 USA special

L (mm)	H (mm)	Remarks	Part No.
496	1,650	Signal, box on RH side, USA spec.	011-003420-701
		Sensor box on RH side, USA spec.	011-003420-702

4.7 Installation Drawing SC 93500/SC 95700



Note! Other lengths (L)/heights (H) are available on request

Version table, SC 93500

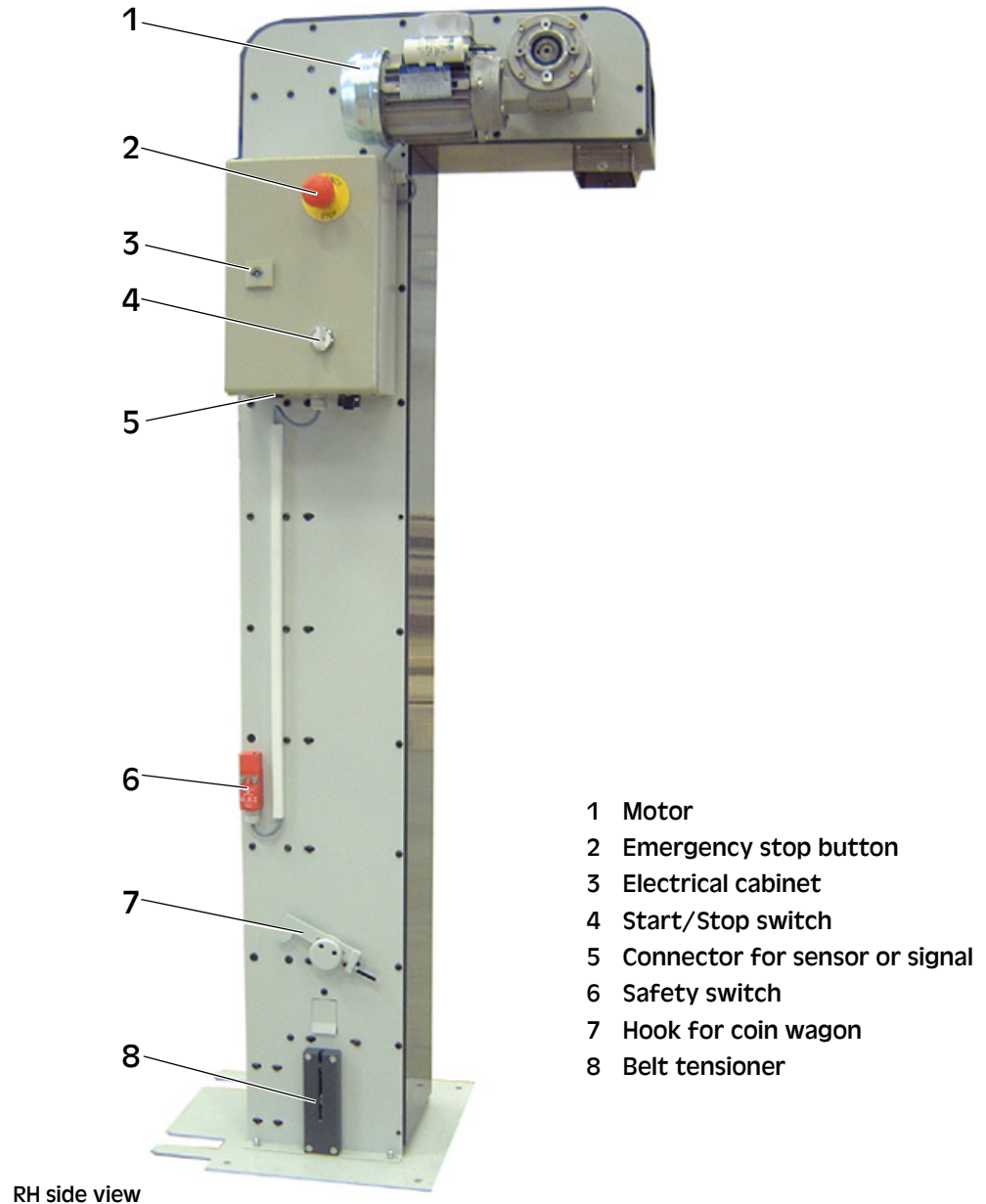
L (mm)	H (mm)	Remarks	Part No.
246	1,357	Signal, box on RH side	011-003500-101
		RH side, Power for 2 x SC 93610	011-003500-102
		Sensor, box on RH side	011-003500-105
		Signal, box on LH side	011-003500-201
346	1,824	Coin lift mast. Signal, box on LH side	011-003500-100
	1,835	Signal, box on LH side	011-003500-205
496	1,650	Signal, box on RH side	011-003500-106
	1,888	Signal, box on RH side, 120 V	011-003500-108
		Signal, box on RH side, 120 V	011-003500-109
	1,960	Signal, box on RH side	011-003500-103
		Signal, box on RH side	011-003500-104
		Sensor, box on RH side	011-003500-107
		Sensor, box on RH side 120 V/60 Hz	011-003500-111
	2,100	Signal, box on RH side	011-003500-110

Version table, SC 95700

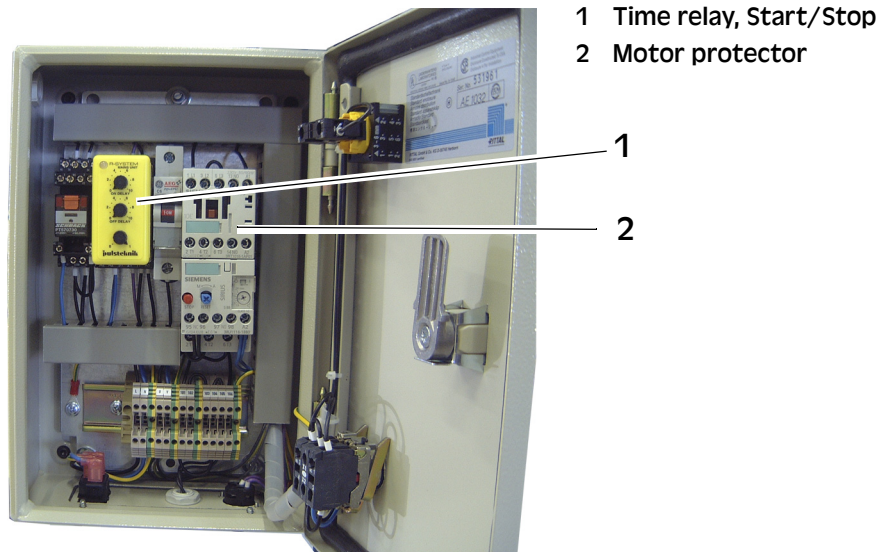
L (mm)	H (mm)	Remarks	Part No.
496	1,500	Signal, box on RH side	011-005700-101
	1,650	Sensor box on RH side	011-005700-102
		Signal, box on RH side	011-005700-103
	1,888	Sensor box on RH side	011-005700-104

5 Technical Description

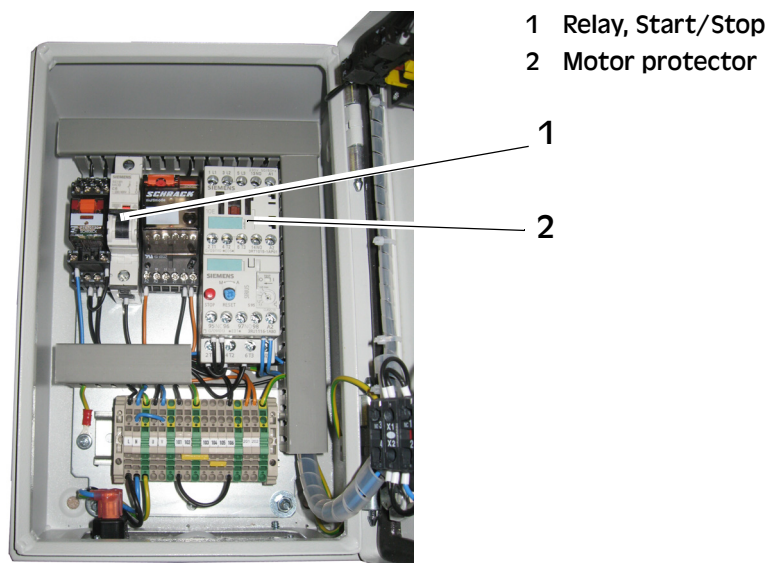
5.1 Machine Part Terminology



Electrical cabinet, sensor



Electrical cabinet, signal



5.2 Mechanics

Coin Lifts SC 93420 and SC 93500

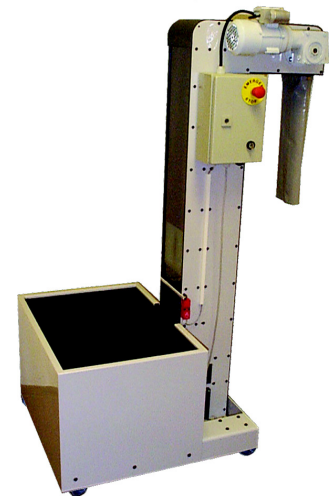
The **SC 93420** feeds coins into the coin sorter SC Active 4000. The coin lift is connected to the SC Active 4000 with a cable for a practical auto start/stop function (feed control).

The coin lift has a large hopper in which coins are put. The lifting belt has flights made of wear-resistant stainless steel. The vertical part is covered by a transparent plastic, which prevents coins from falling off and makes the transport easy to supervise.

For personal safety the machine stops automatically if the operator tries to access the transport belt while the machine is running.

The complete unit is equipped with wheels to easily move it away for good access when servicing the SC Active 4000.

This coin lift is also recommended to feed all coin wrapping machines on the market. A similar model, **SC 93500**, should be used to feed the SCAN COIN BDO Sachet Machine.



SC 93420

Coin Lift SC 93365

This is the same product as the SC 93420/ SC 93500 but without the hopper.

Instead coin wagons are connected to the lift (the coin lift itself has no wheels).

For personal safety the lift automatically stops if the wagon is disconnected from the lift during operation (sensor control).



SC 93365 with coin wagon SC 93400

6 Technical Data

6.1 Physical

SC 93365

Description	Value
Total height	1,600 mm (63.0")
Infeed height	only from coin wagon SC 93400
Outlet height	1,380 mm (54.3")/1,630 mm (64.2")
Width	700 mm (27.6")
Weight	80 kg (176.4 lb)/90 kg (198.4 lb)

SC 93420

Description	Value
Total height	1,600 mm (63.0")
Infeed height	(hopper) 480 mm (18.9")
Outlet height	1,380 mm (54.3")
Width	700 mm (27.6")
Weight	80 kg (176.4 lb)

SC 93500

Description	Value
Total height	1,400 mm (55.1")
Infeed height	(hopper) 660 mm (26.0")
Outlet height	1,200 mm (47.2")
Width	800 mm (31.5")
Weight	80 kg (176.4 lb)/90 kg (198.4 lb)

6.2 Environmental

Description	Value
Operating temperature	15–35 °C
Operating humidity	30–80% R.H.
Noise level (operation)	70 dB (A)
Power requirements: - Voltage/frequency - Consumption	200–240 V AC/50 Hz 1.6 A

6.3 Functional

Description	Value
Capacity	up to 4,000 coins/minute
Coin diameter range	15.0–35.0 mm (0.6–1.4")

7 Disassembly/Assembly

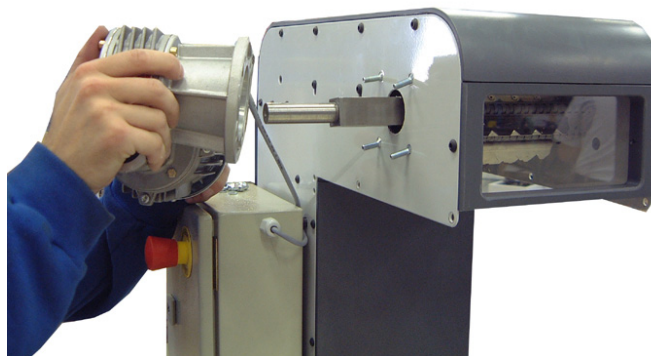
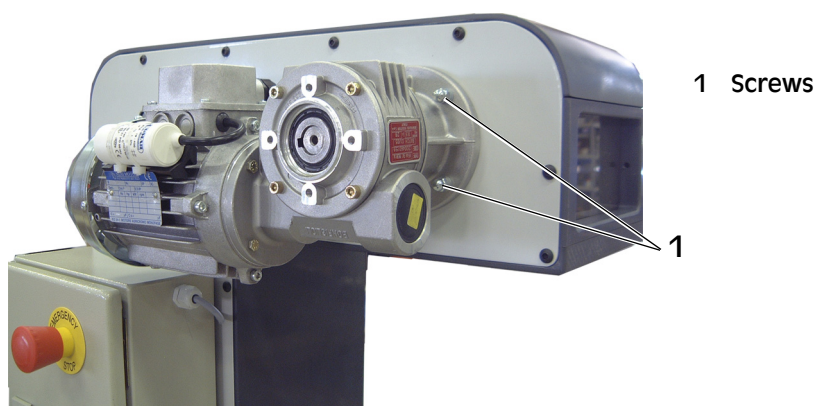
**WARNING!****Risk of electric shock!**

High voltage inside the machine may be fatal for anyone in contact with it. Always switch OFF and disconnect the machine from mains supply before disassembling.

7.1 Motor

Equipment required	Allen key Wrench 10 mm
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- Disconnect the power cables from the motor.
- Remove the feed cover plate.
- Unscrew the four screws (1) and carefully pull out the motor.



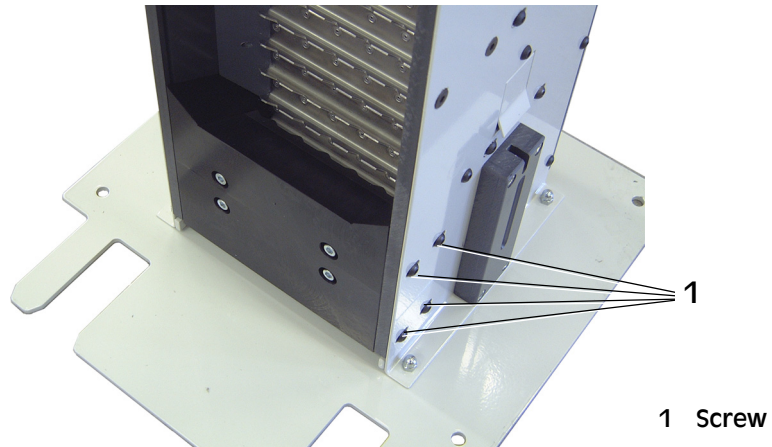
Note! Make sure that the motor shaft does not move out.

- Place the new motor on the shaft and gently push it into position.
- Tighten the four screws.
- Fit the feed cover plate.
- Connect the power cables to the motor.
- Turn on mains power.
- Start the machine and make sure that everything moves smoothly without any strange noise.

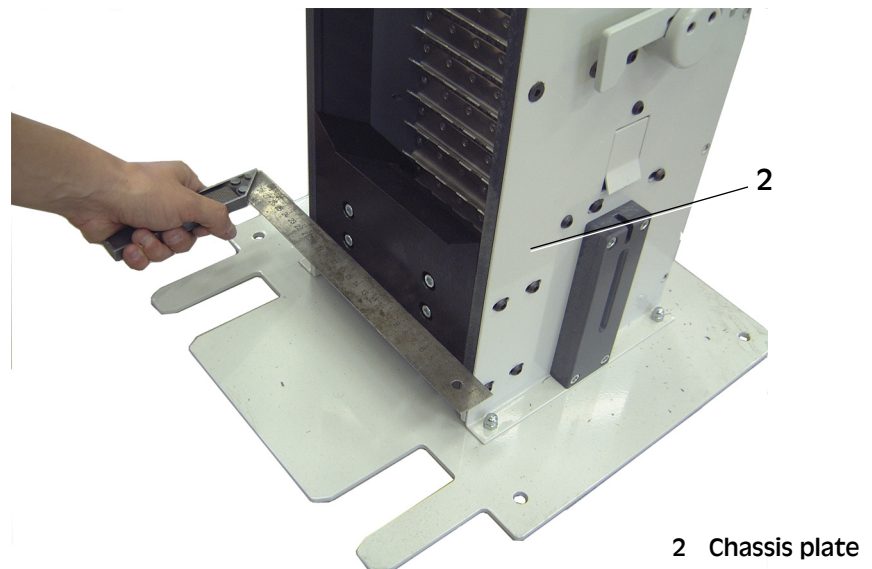
7.2 Gate Block Plate

Equipment required	Allen key 4 mm Steel ruler
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- a) Remove the screws (1), four on each side.
- b) Remove the gate block plate.



- c) Put the new gate block plate in position.
- d) Position the screws, but do not tighten them.
- e) Use a steel ruler to check that the back of the gate block plate is in line with the chassis plate (2).
- f) When the gate block plate is in position, tighten the screws.



8 Maintenance

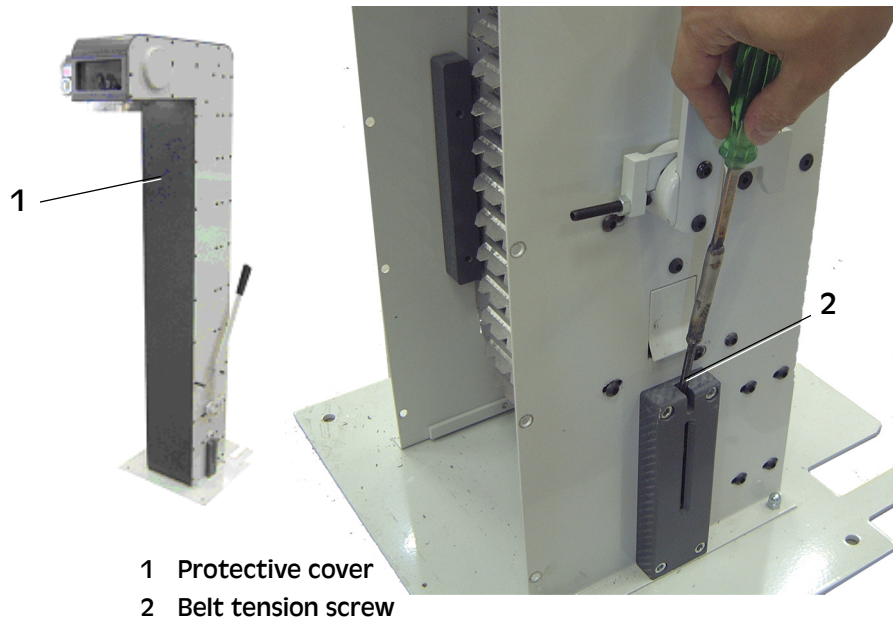
**WARNING!****Risk of electric shock!**

High voltage inside the machine may be fatal for anyone in contact with it. Always switch OFF and disconnect the machine from mains supply before making any maintenance.

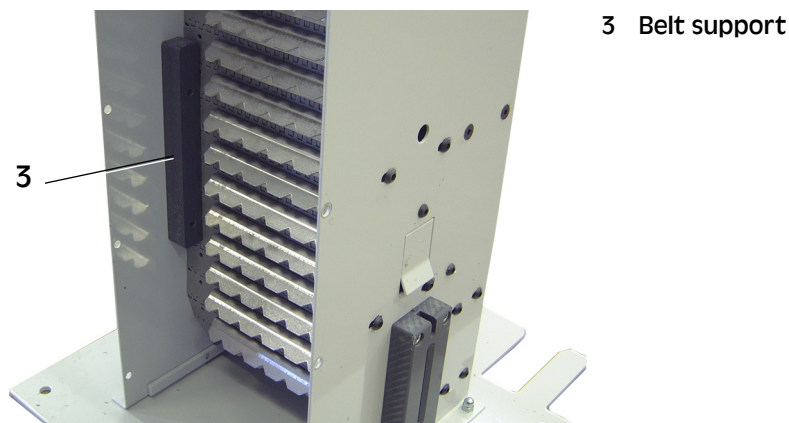
8.1 Belt - Replacement of Flight

Equipment required	Allen key, 4 mm Mandrel Rubber hammer
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- a) Remove the protective cover (1).
- b) Loosen the belt tension screws (2) as much as possible on both sides.



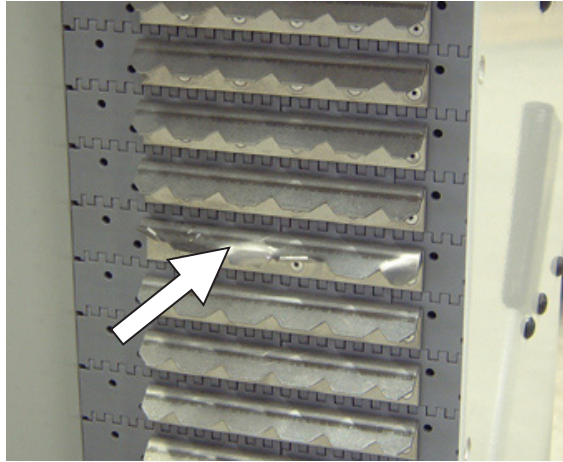
- c) Remove the belt support (3).



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- d) Locate the broken flight (arrow).



- e) Use a rubber hammer and a mandrel to disconnect the belt **below** the broken flight.
f) Take away the broken flight.



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Note! Make sure to connect the new flight in the same direction as the other flights.

g) Replace the broken flight.

Use the plastic pin to connect the flights.



h) Adjust the belt tension, see [9.3 "Belt Tension" on page 26](#).

9 Adjustments



WARNING!

Risk of electric shock!

High voltage inside the machine may be fatal for anyone in contact with it. Always switch OFF and disconnect the machine from mains supply before making any adjustments.

9.1 Motor Protector

The coin lift is equipped with a motor protector.

The motor protector needs to be set to correspond to the size of the motor in use.

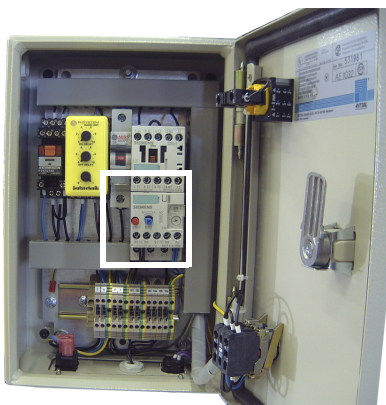
Example: Motor 1.2 A - the motor protector should be set to 1.2 A.

Adjust on the potentiometer (2).

If the motor protector has triggered (due to motor overload):

- Solve the problem that caused the motor protector to trigger.
- Press the blue reset button (1) to reset the motor protector.

Ensure that the reset button is in position “Manual”.



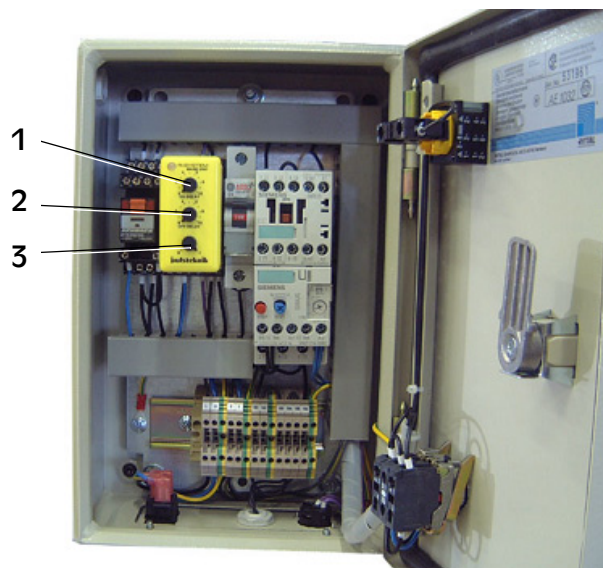
- 1 Reset button
- 2 Potentiometer

9.2 Start/Stop Sensor (Accessory)

If the coin lift is equipped with a Start/Stop sensor, the start/stop delay time can be adjusted.

There are three switches:

Switch	Function
Start delay (1)	The time from when there is no coin in contact with the sensor to when the coin lift starts to run. <ul style="list-style-type: none">• Set it to a lower value to start the coin lift earlier.• Set it to a higher value to increase the start delay.
Stop delay (2)	The time from when there are coins in contact with the sensor to when the coin lift stops. <ul style="list-style-type: none">• Set it to a lower value to stop the coin lift earlier.• Set it to a higher value to make the coin lift run longer.
Switch (3)	Set this switch in position 1.



- 1 Start delay switch
- 2 Stop delay switch
- 3 Switch

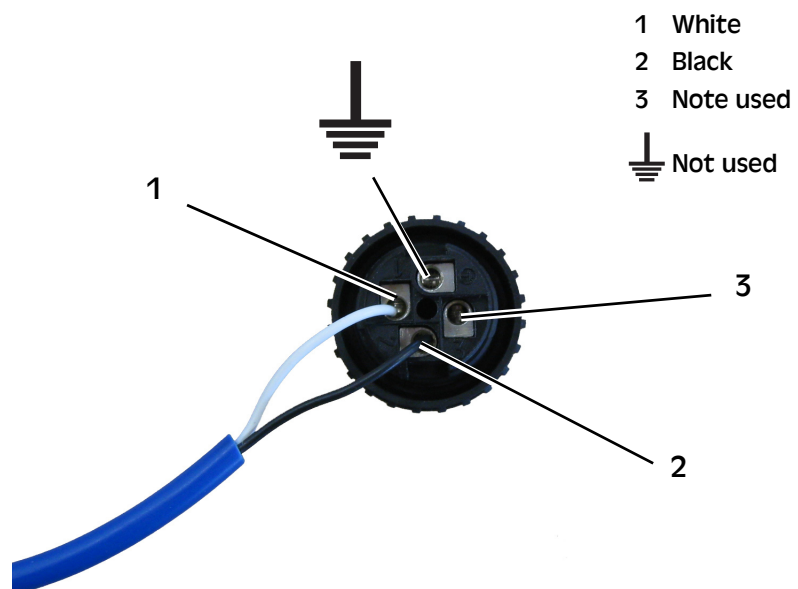
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Sensor with connector:

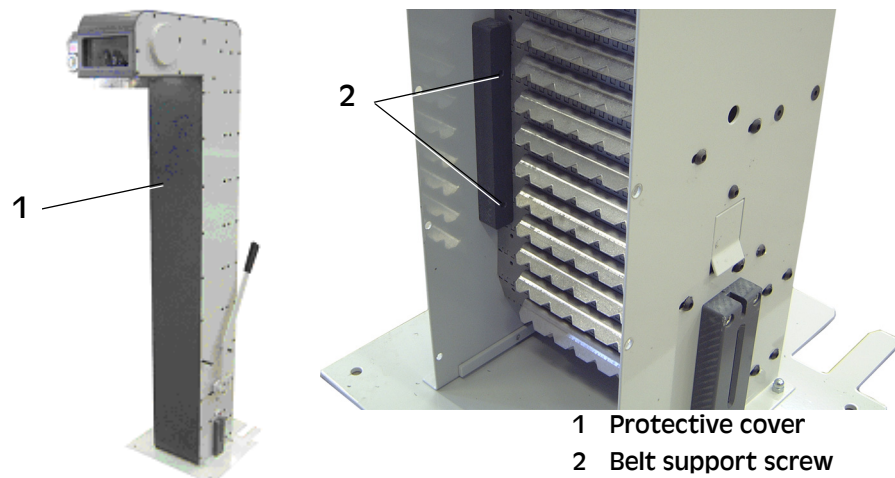


Wiring of connector:

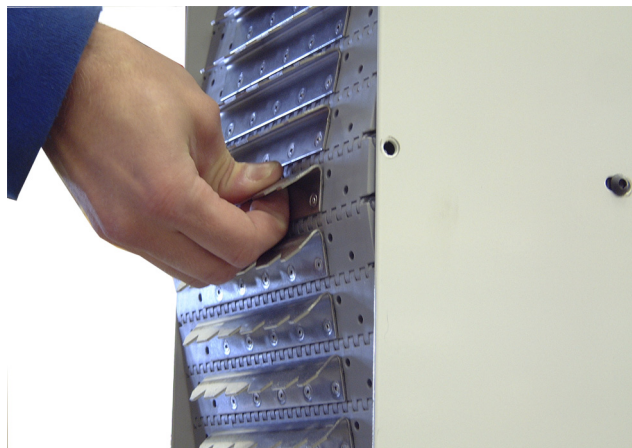


9.3 Belt Tension

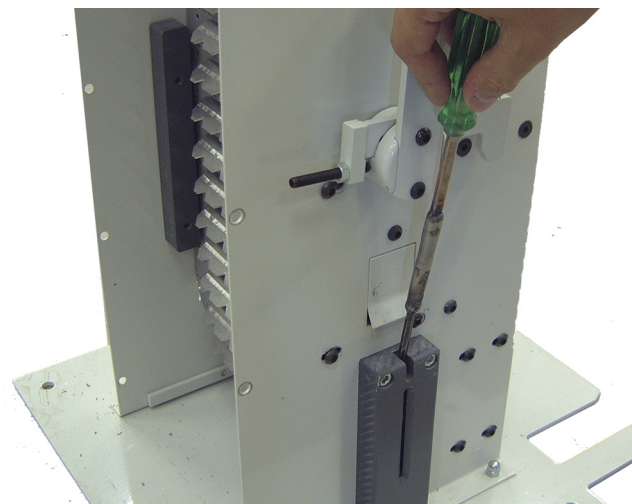
- a) Remove the protective cover (1).
- b) Loosen the belt support screws (2) on both sides.



- c) Pull out the belt as illustrated.
It should be possible to pull the belt out as illustrated, not more, not less.



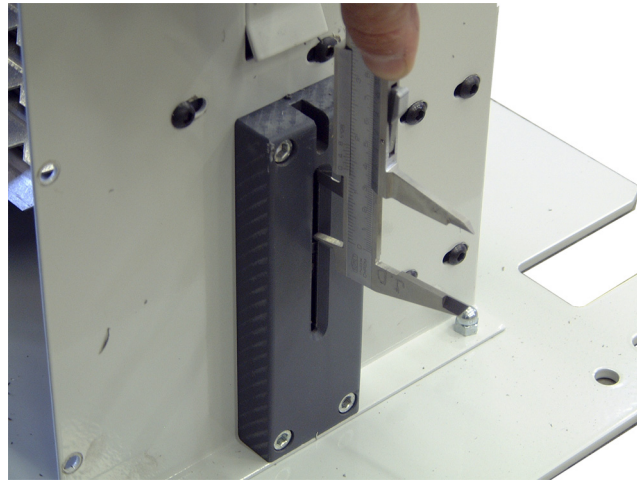
- d) Adjust the belt tension equally on both sides.



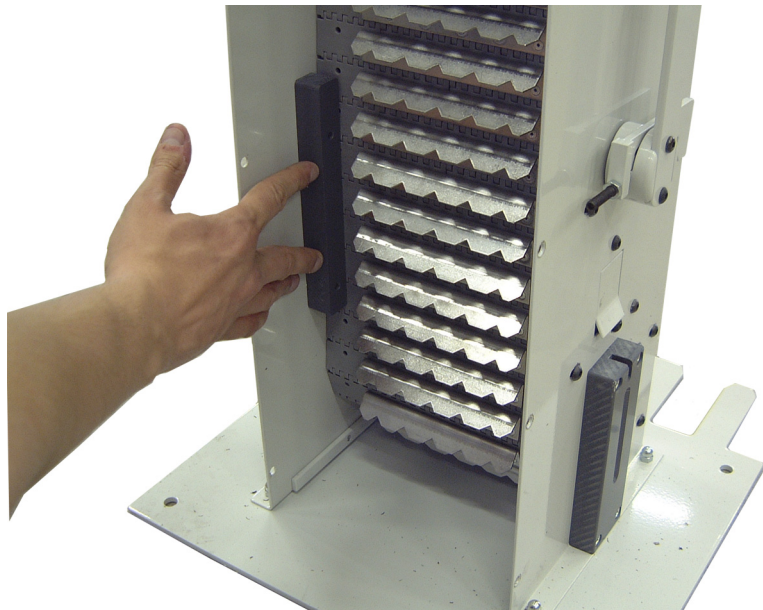
>>>

>>>

- e) Use sliding callipers to measure that the distance is the same on both sides (= equal tension).



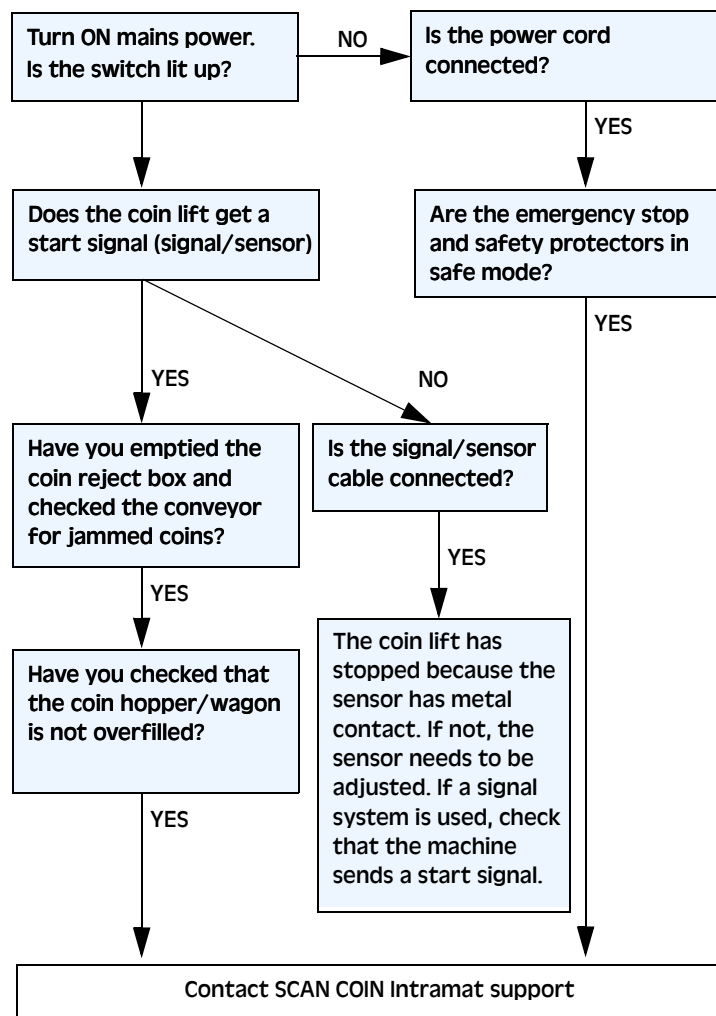
- f) Hold and press the belt support just against the belt.
- g) Tighten the belt support screws.



- h) Fit the protective covers again.
- i) Connect the mains power cord, start the machine and ensure that everything moves smoothly, without any strange noise.

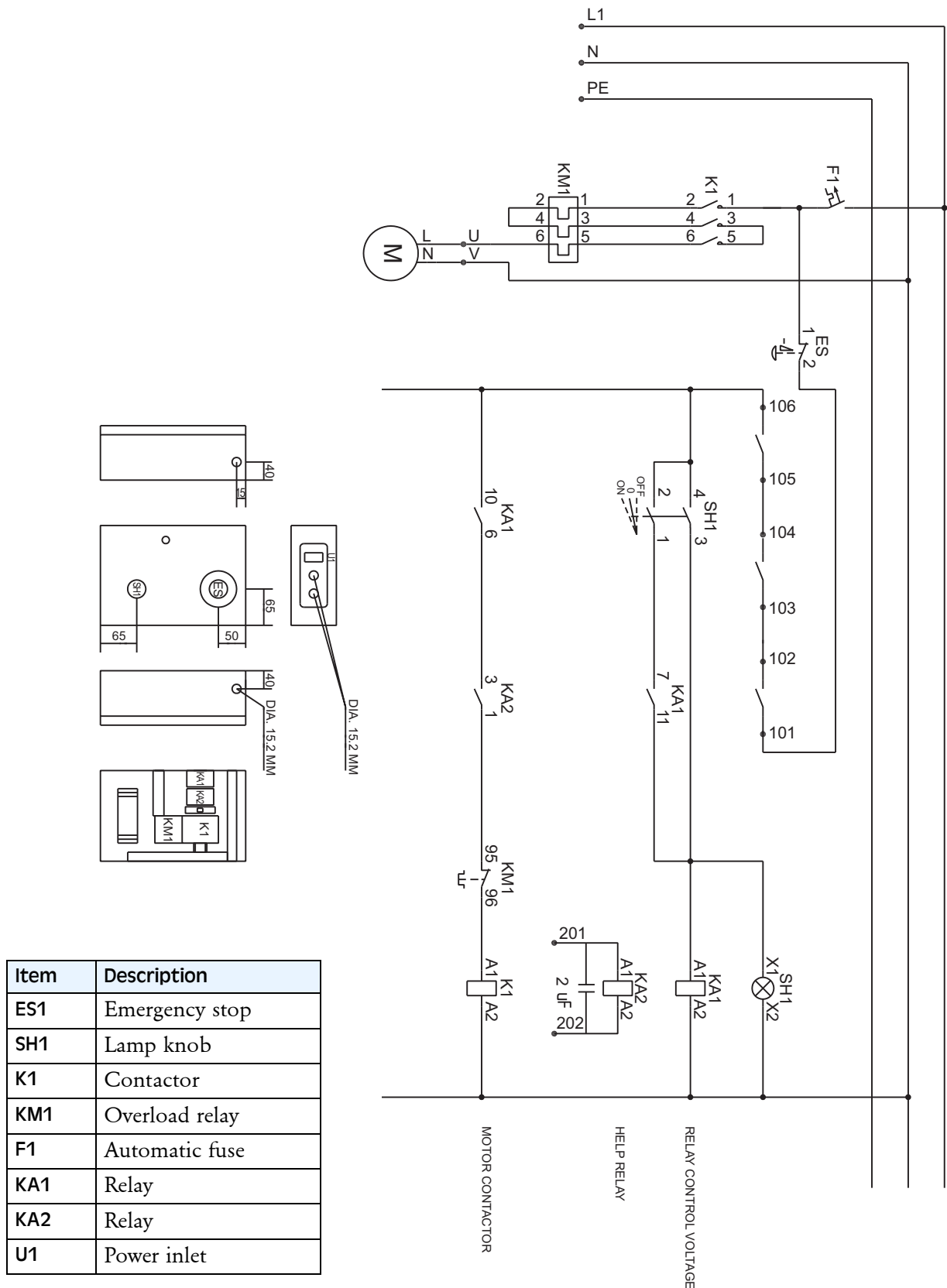
10 Troubleshooting

If the machine is not working, follow the diagram below:

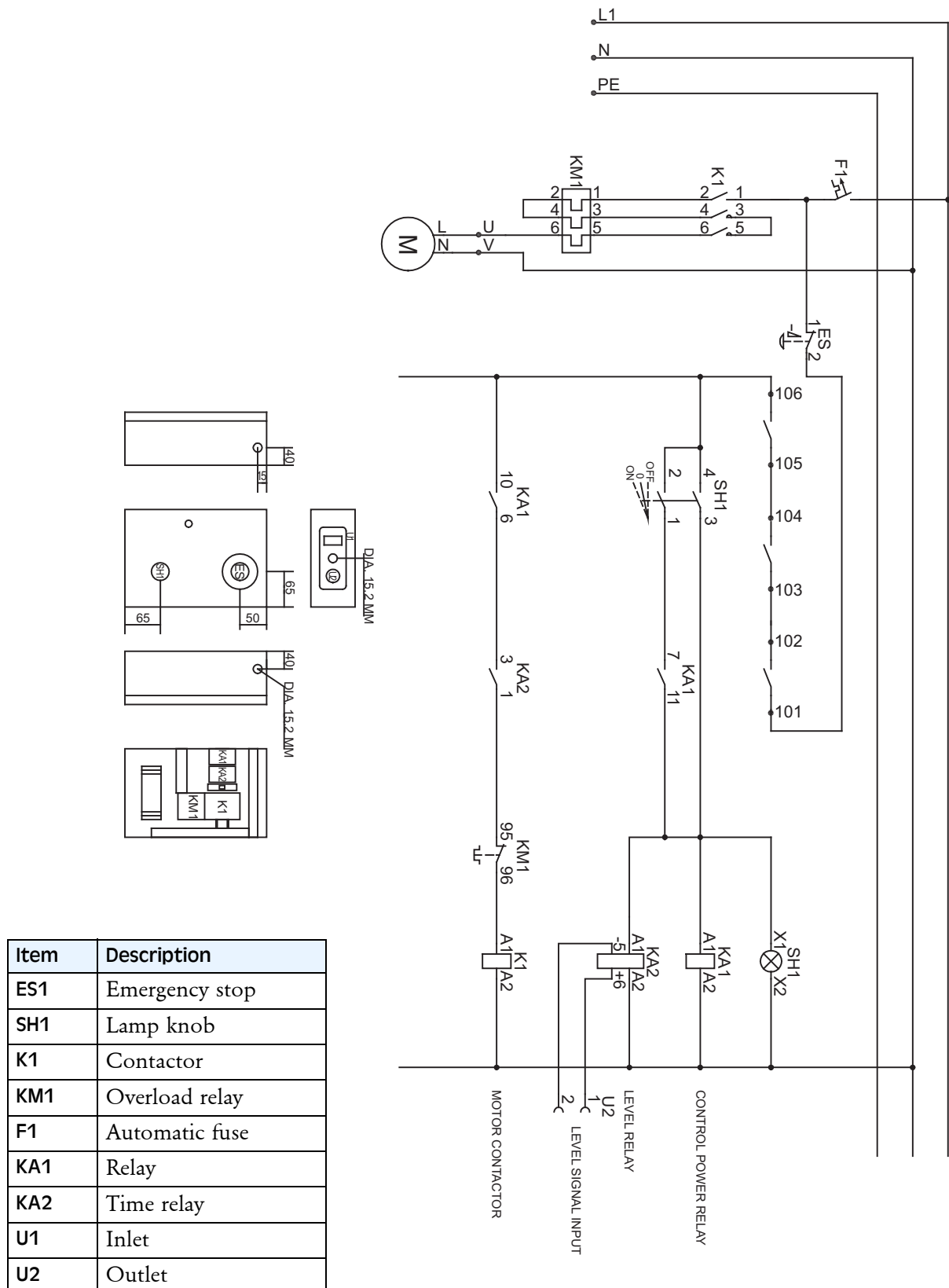


11 Circuit Diagrams and Layouts

11.1 Wiring Diagram, Coin Lift with Signal



11.2 Wiring Diagram, Coin Lift with Feed Sensor

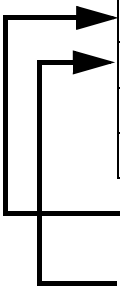


12 Spare Parts List

Note! Always state the manufacture number (see machine label) on your spare parts order.

12.1 Included Parts

Item	Description	Part No.	Remarks
1	Article A	xxxxxx-xxx	
2	• Article B	xxxxxx-xxx	
3	• • Article C	xxxxxx-xxx	
4	Article D	xxxxxx-xxx	
	• Article E	xxxxxx-xxx	



• Article **B** is included in Article **A**

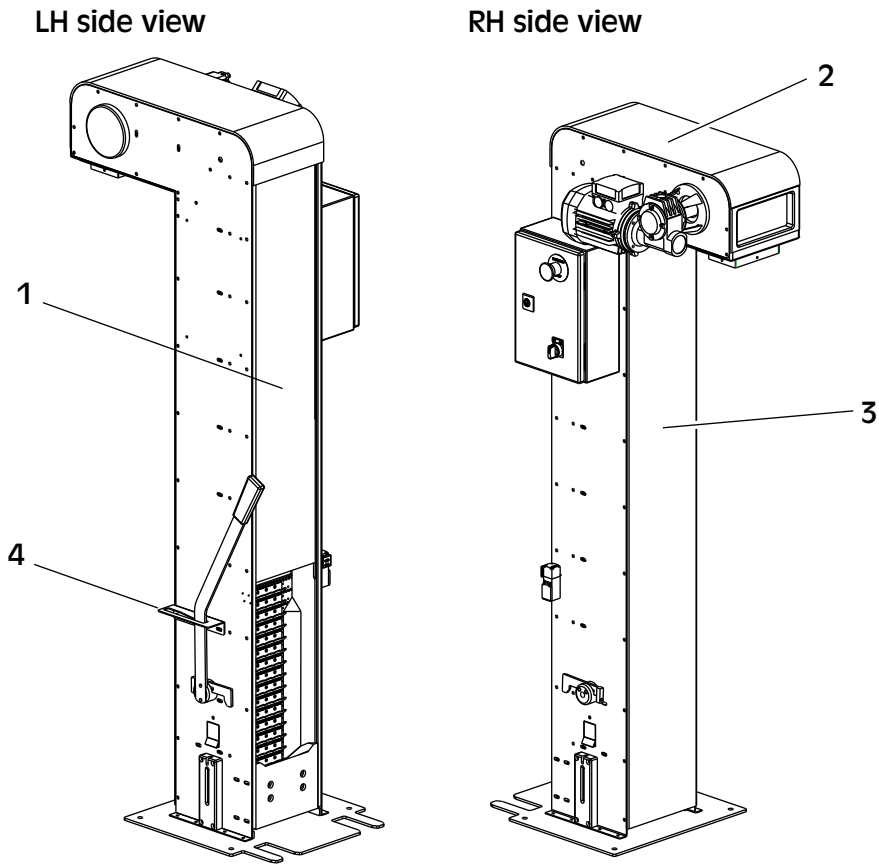
• • Article **C** is included in Article **B**

When ordering part Article **A**, parts **B** and **C** are shipped as well.

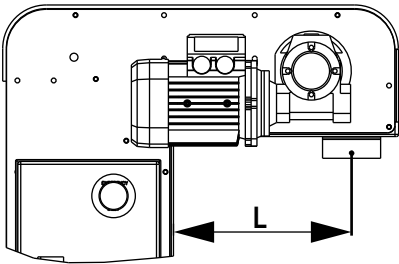
12.2 Reject Tray and Outlet Tubes

Description	Part No.	Remarks
Reject tray	011-003386-000	
Outlet tube	011-008234-000	Complete, L= 500 (Standard)
Outlet tube	011-008234-001	Complete, L= 100
Outlet tube	011-008234-002	Complete, L= 150
Outlet tube	011-008234-003	Complete, L= 250
Outlet tube	011-008234-004	Complete, L= 700
Outlet tube	011-008234-005	Complete, L= 600

12.3 Cover and Plates

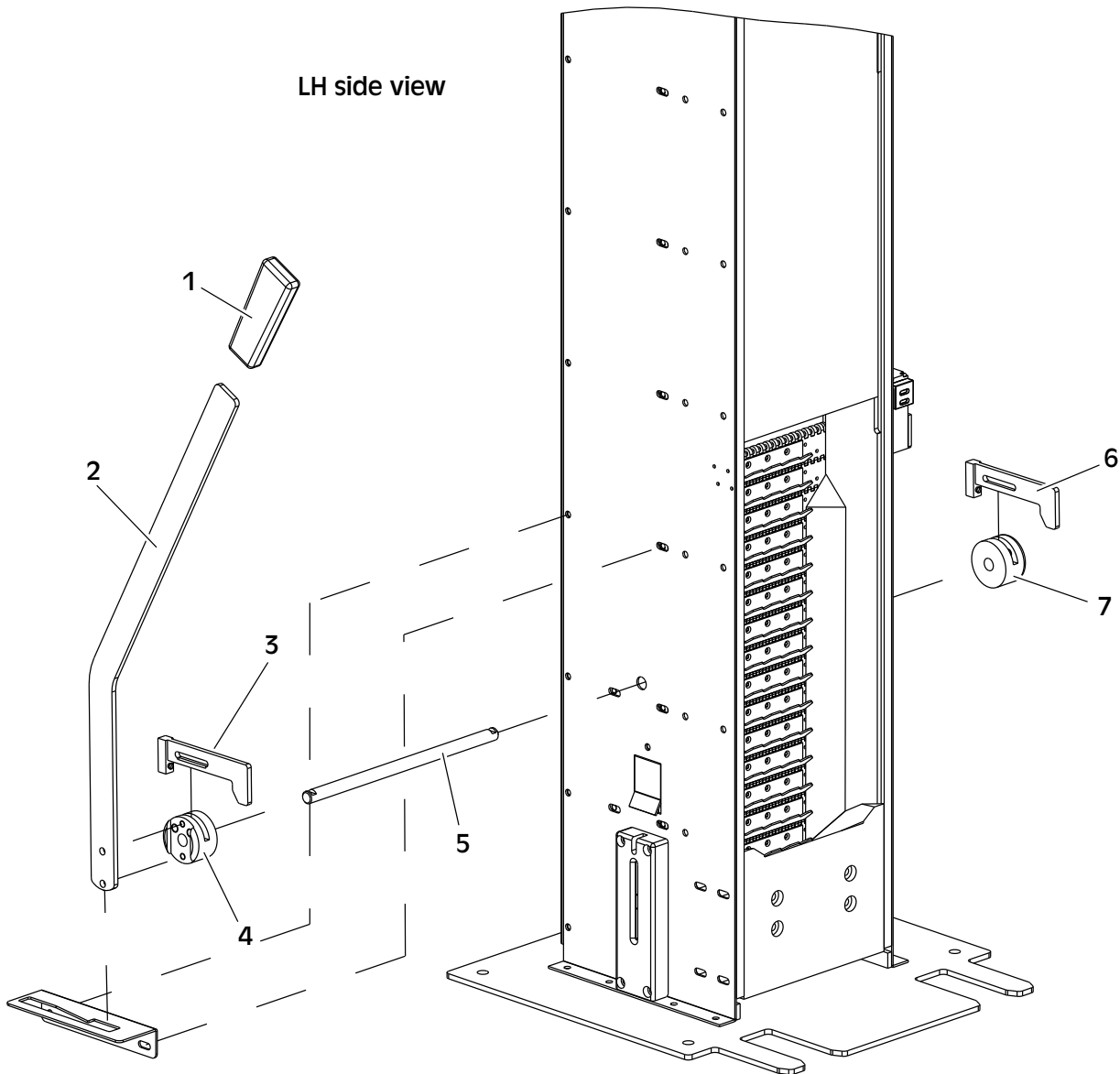


Item	Description	Part No.	Remarks
1	Cover	011-003419-xxx	
2	Top plate	011-003553-000	L=246 mm
		011-004598-000	L=346 mm
		011-004570-000	L=496 mm
		011-004570-001	L=596 mm
3	Front plate	011-003385-xxx	
4	Bracket, Handle lock	011-008070-000	



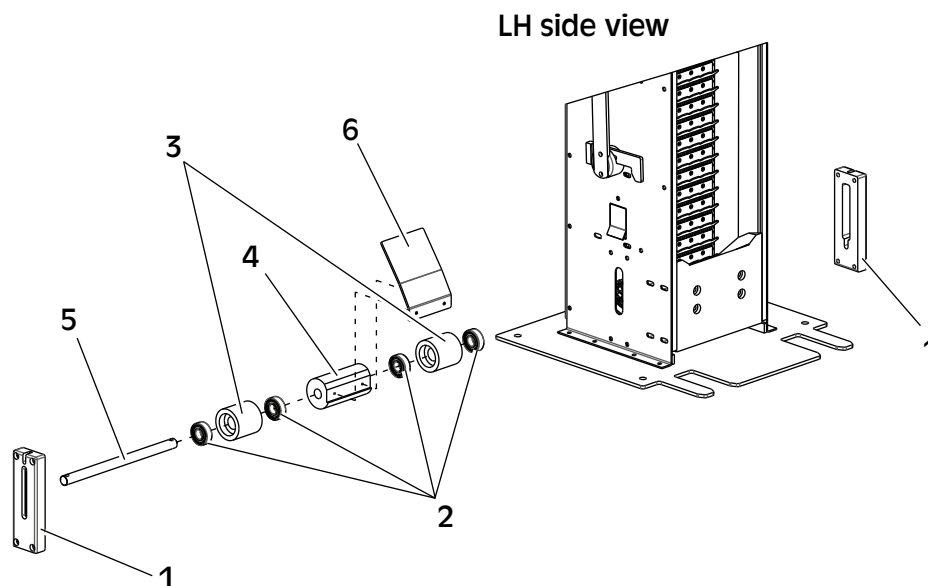
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>>>
12.4 Handle



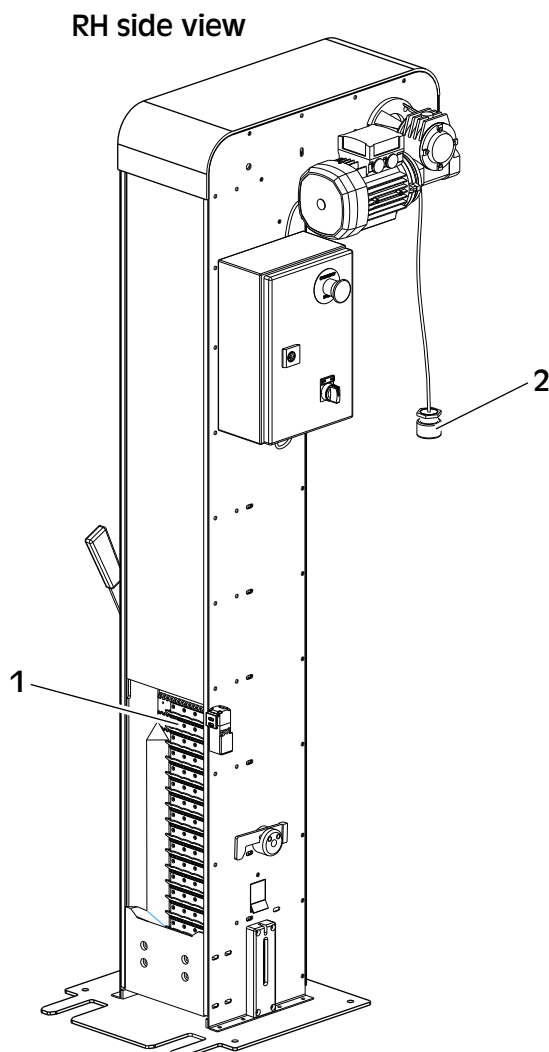
Item	Description	Part No.	Remarks
1	Handle	011-006307-000	
2	Handle	011-003223-000	
3	Hook left	011-003225-200	
4	Left hook anchorage	011-003416-000	
5	Shaft, locking device	011-003393-000	
6	Hook right	011-003225-100	
7	Right hook anchorage	011-003417-000	

12.5 Belt Support



Item	Description	Part No.	Remarks
1	Bearing house, tensioning	011-003363-000	2 pcs
2	Ball bearing 6202 2RS	011-004238-000	4 pcs
3	Roller	011-003379-002	2 pcs
4	Distance	011-003379-001	
5	Shaft	011-003374-000	
6	Belt support	011-003380-000	

12.6 Transport Belt and Sensor



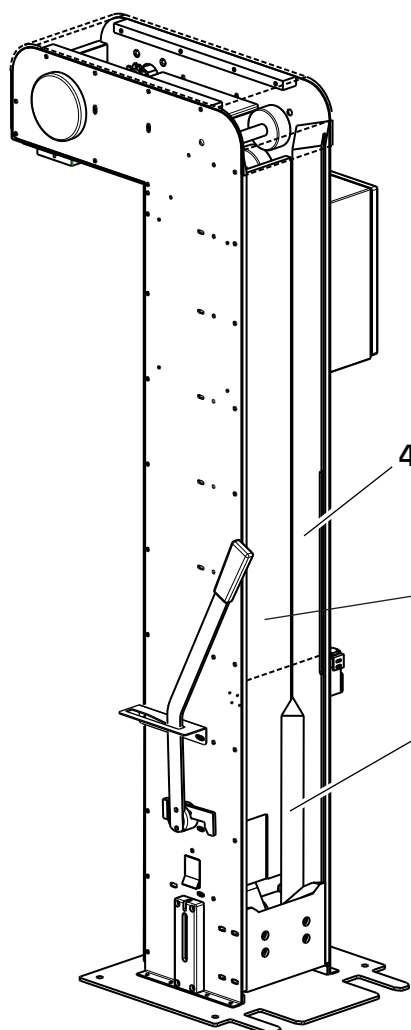
Item	Description	Part No.	Remarks
1	Transport belt, complete	011-004770-000	3,700 mm*
2	Sensor, complete	011-003209-001	

* Required belt length: $2(H+L) + 500$ mm, see:

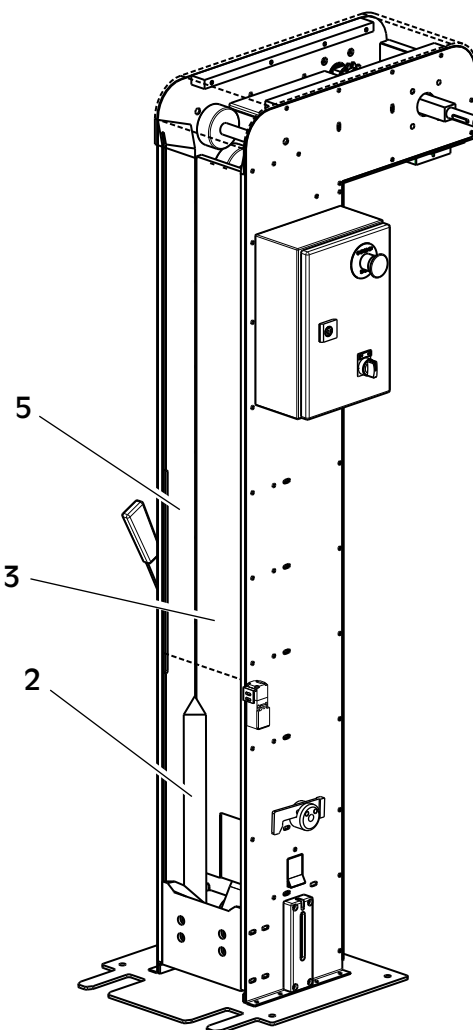
- [“Version table, SC 93365” on page 8,](#)
- [“Version table, SC 93420” on page 10](#) and
- [4.6“Installation Drawing SC 93420 -7xx” on page 11](#)

12.7 Guide, Slide Bar and Middle Support

LH side view

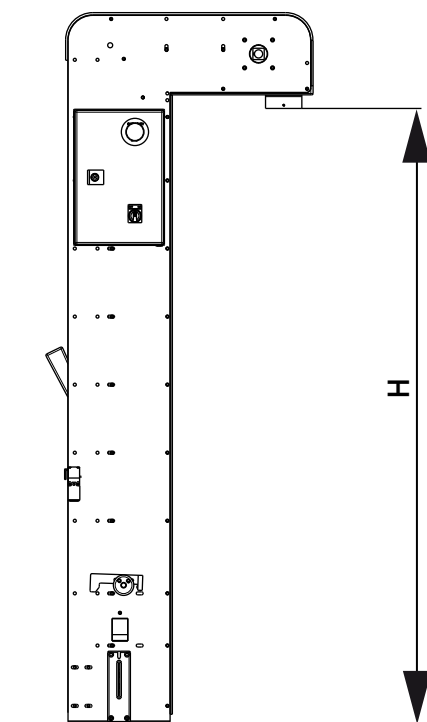


RH side view

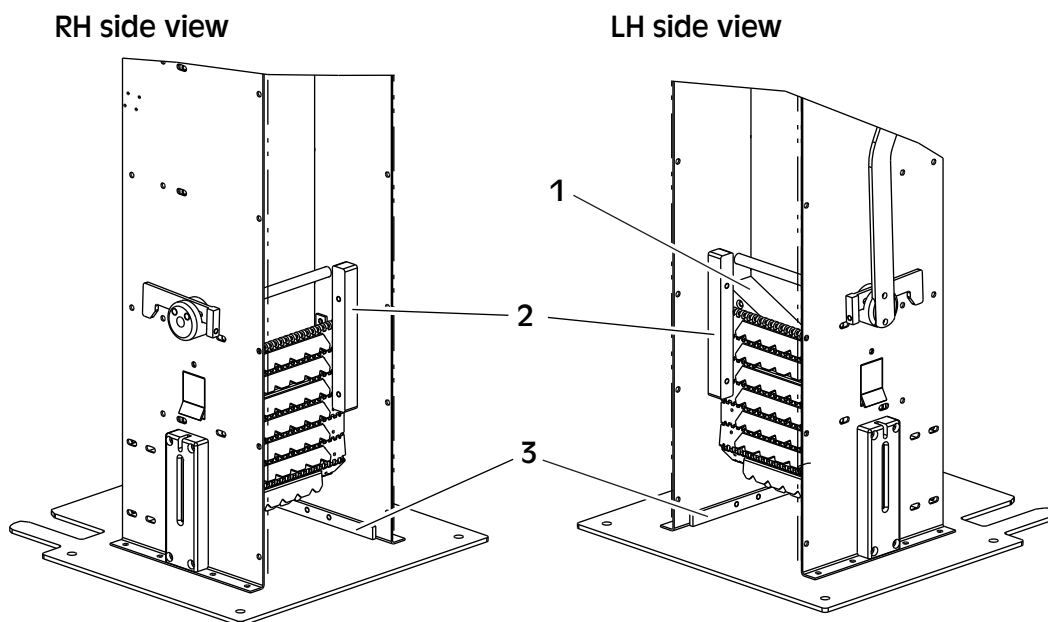


Item	Description	Part No.	Remarks
1	Guide right	011-003907-100	
2	Guide left	011-003907-200	
3	Middle support	011-003375-001	H=1,357 mm
4	Slide bar right	011-003395-100	H=1,357 mm
5	Slide bar left	011-003395-200	H=1,357 mm
3	Middle support	011-003375-003	H=1,650 mm
4	Slide bar right	011-003847-100	H=1,650 mm
5	Slide bar left	011-003847-200	H=1,650 mm

Item	Description	Part No.	Remarks
3	Middle support	011-003375-004	H=1,960 mm
4	Slide bar right	011-003848-100	H=1,960 mm
5	Slide bar left	011-003848-200	H=1,960 mm
3	Middle support	011-003375-008	H=1,824 mm
4	Slide bar right	011-004599-100	H=1,824 mm
5	Slide bar left	011-004599-200	H=1,824 mm
3	Middle support	011-003375-010	H=1,879/1,888 mm
4	Slide bar right	011-004872-100	H=1,879/1,888 mm
5	Slide bar left	011-004872-200	H=1,879/1,888 mm



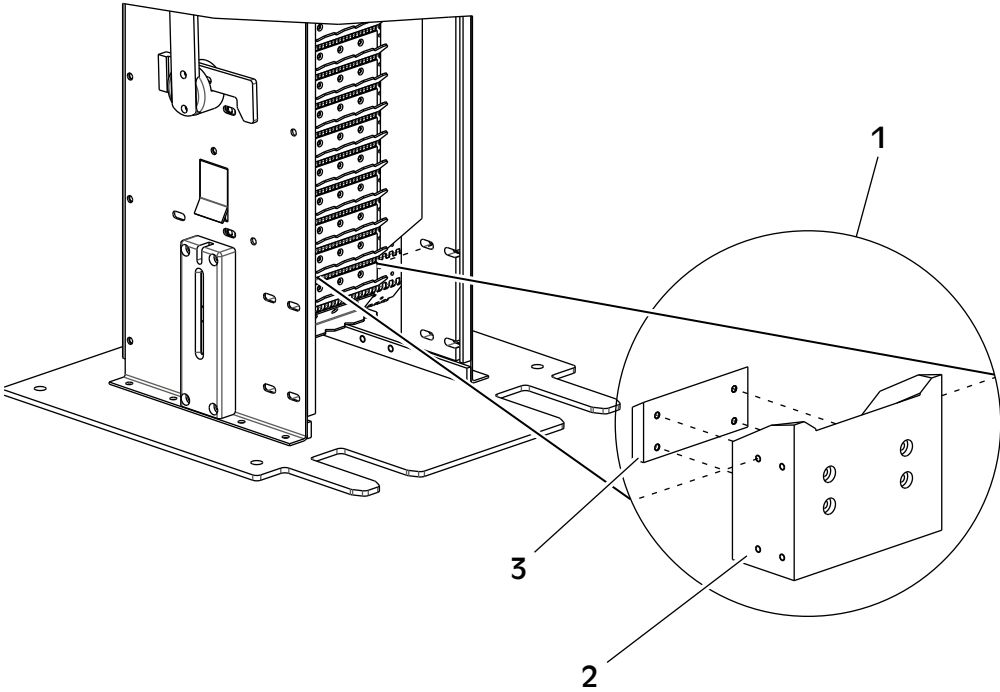
12.8 Slide Bar, Belt Support and Nut Plate



Item	Description	Part No.	Remarks
1	Slide bar	011-003388-000	
2	Belt support	011-003381-000	2 pcs
3	Nut Plate	011-003551-000	2 pcs

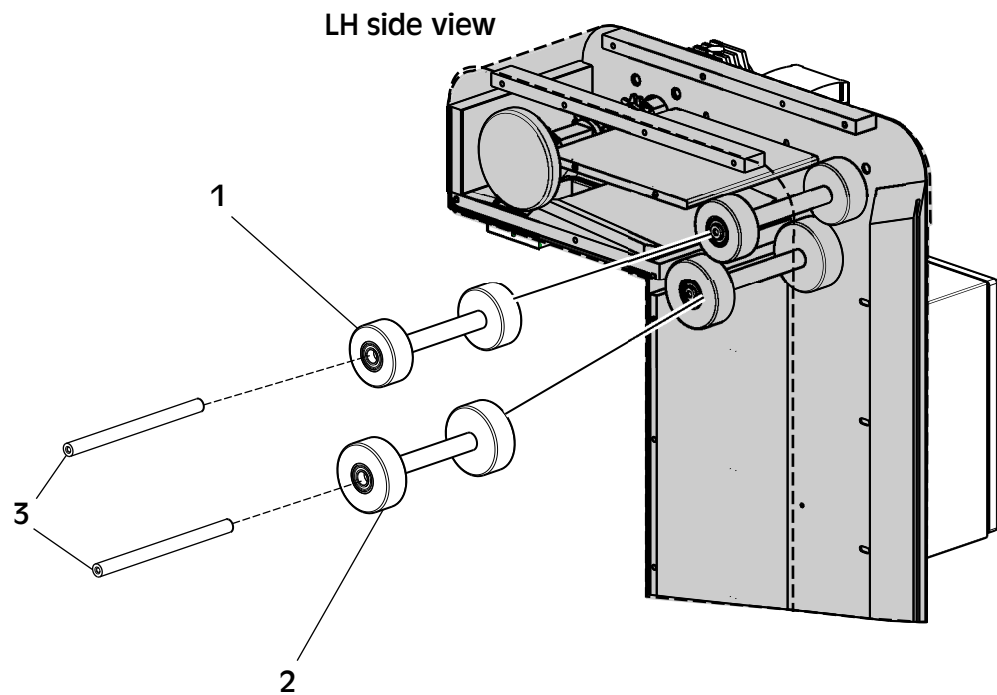
12.9 Gate Block

LH side view



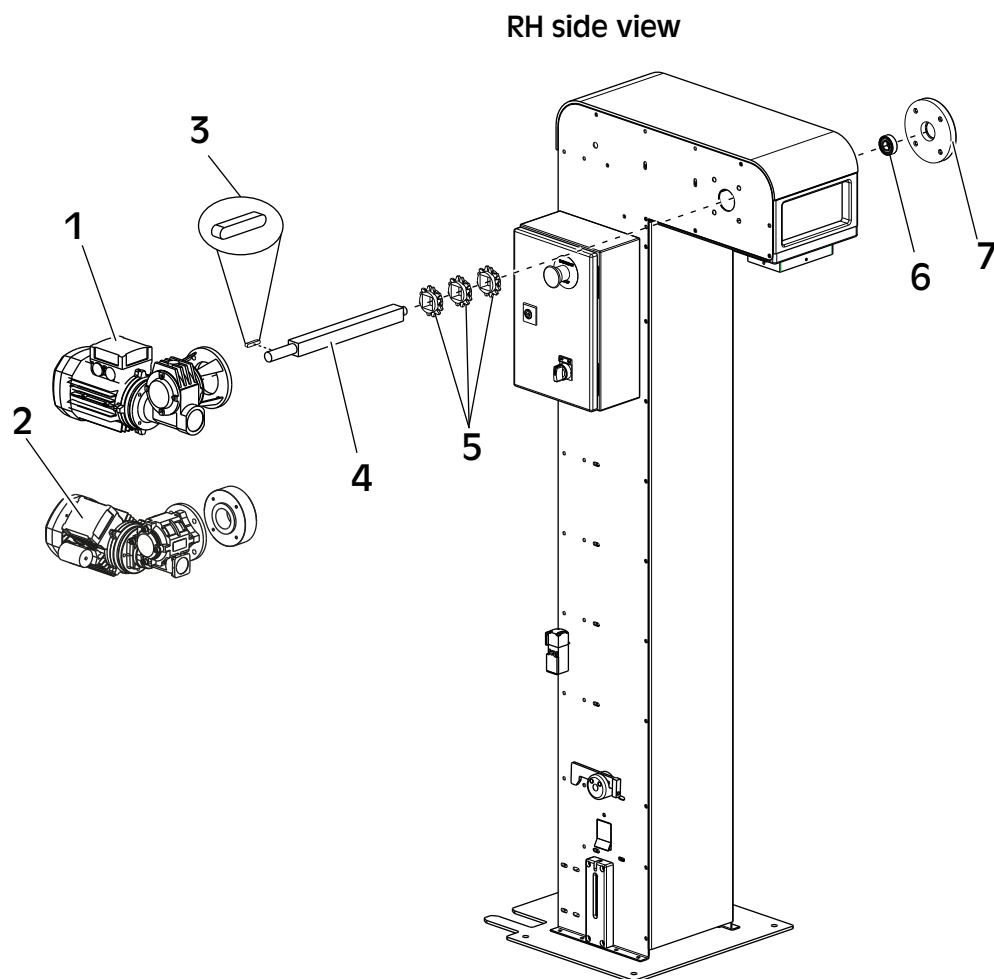
Item	Description	Part No.	Remarks
1	Gate block, complete	011-004928-000	
2	• Gate block	011-003744-000	
3	• Steel insert gate block, hardened	011-004661-002	

12.10 Turnroll



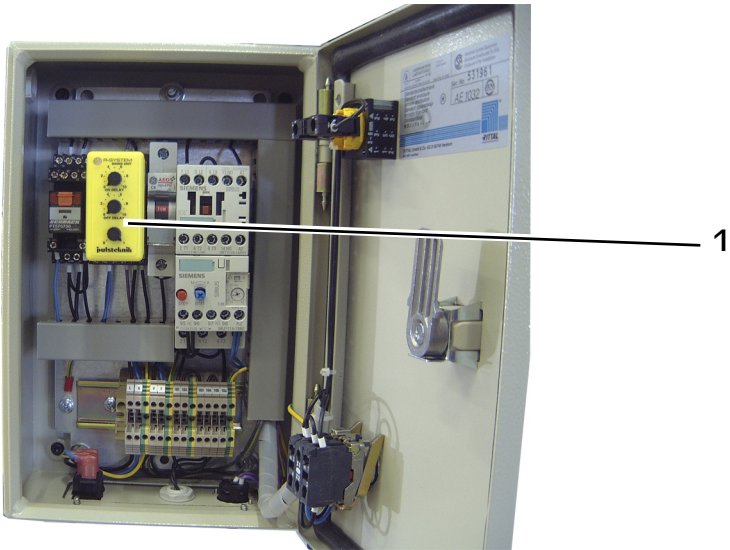
Item	Description	Part No.	Remarks
1	Turnroll Ø71, complete	011-003371-000	
2	Turnroll Ø80, complete	011-003384-000	
3	Shaft	011-003373-000	2 pcs

12.11 Motor



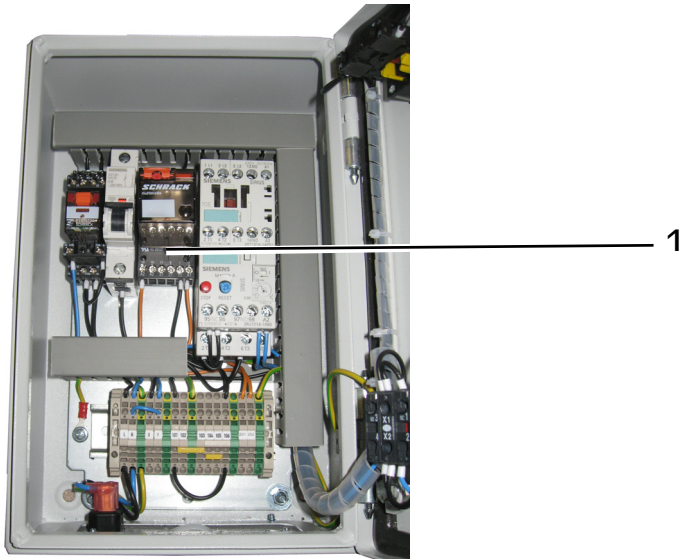
Item	Description	Part No.	Remarks
1	Worm gear motor, 230V/50Hz		Note! This part is replaced by 011-004772-300
	Worm gear motor, 100V/60Hz	011-004772-002	
2	Worm gear motor, 230V/50Hz	011-004772-300	From June 2011
3	Wedge 6x6x32	011-004761-000	
4	Drive shaft	011-003372-000	
5	Sprocket wheel S900-6T 25	011-003734-000	3 pcs
6	Ball bearing 6202 2RS	011-004238-000	
7	Bearing house	011-003392-000	

12.12 Electrical Cabinet, Sensor



Item	Description	Part No.	Remarks
1	Time relay 230 V	011-003199-000	
	Time relay 115 V/60 Hz	011-003199-001	
	Sensor	011-003209-001	

12.13 Electrical Cabinet, Signal



Item	Description	Part No.	Remarks
1	Relay 230 V	011-004897-000	
	Relay 115 V/60 Hz	011-004897-001	

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