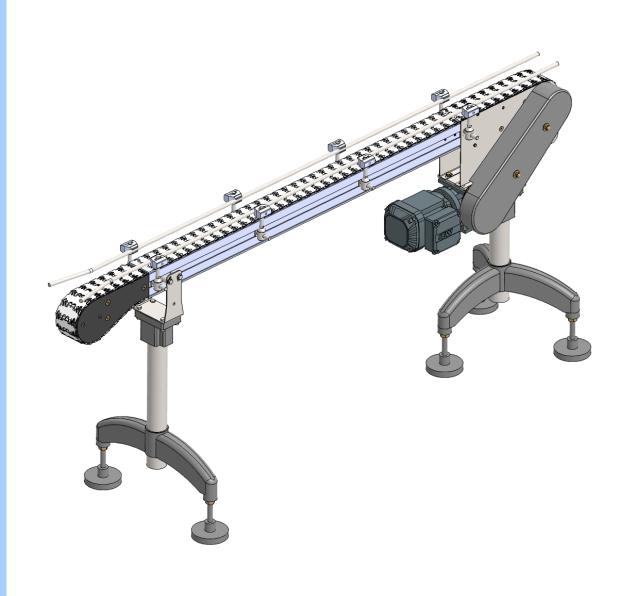


Quick installation guide

Conveyor system EURO-flex aluminium





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1 Reader information

This chapter provides information on the usage of the installation guide:

- Target group (Page 4)
- Customer service (Page 4)
- Copyright protection (Page 4)

1.1 Target group

This installation guide is intended for the owner, operators and the service personnel.



Info

The relevant personnel must have specific qualifications in order to work on or with the conveyor system. The personnel qualification can be found in the section "Qualification requirements" (Page 6).

1.2 Customer service

Our customer service department will be happy to advise you on technical matters. Information on ordering spare parts can be found in the section "Spare parts and their purchase" (Page 8).

Designation	Specification		
Company	euroflex GmbH		
Street no.	Hohe-Flum-Straße 62		
Postcode, place	79650 Schopfheim		
Country	Germany		
Telephone	+49 (0) 7622/68453-30		
Fax	+49 (0) 7622/68453-01		
Email	info@euroflexgmbh.de		
Postcode, place Country Telephone Fax	79650 Schopfheim Germany +49 (0) 7622/68453-30 +49 (0) 7622/68453-01		

Customer service

1.3 Copyright protection

This installation guide is protected by copyright.

The unauthorized forwarding of the installation guide to third parties, reproduction in any type and form, including extracts, as well as the utilization and/or communication of the content are not permitted without the written approval of the manufacturer.

Infringement will lead to compensation for damages. Rights reserved for further claims.



2 Safety

This chapter provides information on the safe operation of the machine:

- Owner (Page 5)
- Obligations of the owner (Page 5)
- Instruction of the personnel (Page 6)
- Qualification requirements (Page 6)
- Personal protective equipment (Page 7)
- Protective enclosure/Protective cover (Page 7)
- Spare parts and their purchase (Page 8)

2.1 Owner

The owner is every natural and legal person that uses the conveyor system or permits it to be used by third parties, and who is also responsible for the safety of the user, personnel or third party during usage.

The owner is responsible for the correct assembly and accident-free operation of the system, in accordance with the Machinery Directive 2006/42/EC.

For all work on the conveyor system, the safety regulations resulting from the specifications of the Machinery Directive 2006/42/EC must be implemented and complied with.

2.2 Obligations of the owner

The owner is obliged to implement measures that result from the specifications provided by the Machinery Directive 2006/42/EC.

The safety, accident prevention and environmental protection regulations valid for the conveyor system's area of application must be complied with.

The owner is obliged to do the following in particular:

- Provide information regarding the applicable occupational safety provisions and, via a risk
 assessment, determine additional dangers that may result due to the special working
 conditions at the conveyor system's deployment site. He must implement this in the form of
 operating instructions for the operation of the conveyor system.
- Regularly check the operating instructions and ensure that they correspond to the current status of the regulations.
- Instruct the utilized personnel on possible dangers and the corresponding protective measures. These instructions should be repeated at appropriate intervals.
- Instruct the utilized personnel on handling the conveyor system.
- Equip the utilized personnel with the required protective equipment and check that it is worn at all times.





2.3 Instruction of the personnel

Each person assigned to carry out work must, before commencing, receive instruction from the owner regarding their delegated activities and potential dangers during work.

For instruction, observe the following:

- Repeat instruction at regular intervals.
- Verifiably log each personnel instruction session.

2.4 Qualification requirements

Safety note: Risk of injury due to insufficient qualification.

If the conveyor system is used improperly, property damage may occur, or persons may be injured or killed.

All activities may only be carried out by personnel who have the required training, understanding regarding the functioning of the conveyor system and the relevant experience.

Furthermore, special qualifications are required for certain tasks. These are defined as follows.

2.4.1 Specially trained personnel

Specially trained personnel are persons who have been instructed on the tasks delegated to them and their potential dangers by the owner.

2.4.2 Operating personnel

Operating personnel are persons who have been instructed on the tasks delegated to them and their potential dangers by the owner. The operating personnel are capable of operating the conveyor system independently. The operating personnel have been instructed regarding possible dangers in the event of improper behaviour. Cleaning and control tasks on the conveyor system are carried out independently.

2.4.3 Maintenance personnel

Maintenance personnel are persons who, as a result of their technical training (e. g. mechanical, electrical, pneumatic), knowledge, experience and awareness of pertinent norms and provisions, are capable of correctly carrying out their delegated tasks. Maintenance personnel are capable of recognizing potential dangers independently, and consequently avoiding them.

2.4.4 Qualified specialist personnel

Qualified specialist personnel are persons who have obtained and proven special experience, knowledge and skills for the safe performance of tasks in particular specialist areas (e. g. mechanical, pneumatic, hydraulic, electrical) and who fulfil the following defined requirements.



2.4.5 Electricians

Electricians are persons who, as a result of their technical training, knowledge, experience and awareness of pertinent norms and provisions, are capable of correctly carrying out work on electrical systems. Electricians are capable of recognizing potential dangers independently, and consequently avoiding personal injury and property damage caused by electrical currents.

All work on the electrical equipment may only be carried out by electricians.

2.4.6 Specialist pneumatic personnel

Specialist pneumatic personnel are persons who, as a result of their technical training, knowledge, experience and awareness of pertinent norms and provisions, are capable of correctly carrying out work on pneumatic systems. Specialist pneumatics personnel are capable of recognizing potential dangers independently, and consequently avoiding personal injury and property damage caused by pneumatic systems.

All work on pneumatic equipment may only be carried out by specialist pneumatic personnel.

2.4.7 Specialist hydraulic personnel

Specialist hydraulic personnel are persons who, as a result of their technical training, knowledge, experience and awareness of pertinent norms and provisions, are capable of correctly carrying out work on hydraulic systems. Specialist hydraulic personnel are capable of recognizing potential dangers independently, and consequently avoiding personal injury and property damage caused by hydraulic systems.

All work on hydraulic equipment may only be carried out by specialist hydraulic personnel.

2.5 Personal protective equipment

Wearing personal protective equipment is an important element of safety. Missing or unsuitable personal protective equipment increases the risk of health damage and personal injury.

2.6 Protective enclosure/Protective cover

The conveyor system must be equipped with a protective enclosure/cover in areas where there is a danger to persons. The protective enclosure/cover protects the operator and other persons from injuries caused by danger points inside the enclosure/cover.

The owner is responsible for equipping the system with a protective enclosure/cover.





2.7 Spare parts and their purchase

Spare parts and accessories can be ordered directly from the manufacturer via the following contact. **Spare parts: Contact**

Designation	Specification
Company	euroflex GmbH
Street no.	Hohe-Flum-Straße 62
Postcode, place	79650 Schopfheim
Country	Germany
Telephone	+49 (0) 7622/68453-00
Fax	+49 (0) 7622/68453-01
Email	info@euroflexgmbh.de



3 Assembly

This chapter provides information on the assembly of the machine:

- Overview of EURO-flex aluminium (Page 9)
- Assembly the slide rails on the link chain conveyor (Page 10)
- Assembling the link chain (Page 13)

3.1 Overview of EURO-flex aluminium



Fig. 1: Overview of EURO-flex aluminium (example)

No.	Designation
1	Link chain
2	Side guide
3	Motor
4	Base plate
5	Support



10 Assembly

Information

Data	Designation or value
Personnel	Maintenance personnel
Personal protective equipment	Protective work clothing Protective gloves Safety shoes
Tools, aids	Mitre cutter Steel pin (Ø 4 mm x approx. 200 mm long) Hammer Carpet knife Assembly tool Drill and drill bit ø 3.4mm



WARNING

Risk of injury and serious damage to property due to improper installation!

A lack of knowledge about the system and experience in assessing and averting residual risks during proper assembly can result in injury and even death.

- » Before working on the system, turn it off and guard it from being switched back on.
- » Prior to working in the system area, empty or clear the system.
- » Regularly remove product residues and splitters from the entire system area.
- » Check that the screw connections on all load-bearing and moving parts are tightened correctly
- » Check correct function of bearings and links.
- » Check the function of the safety devices.
- » Wear appropriate personal protective gear in the system area.

Prerequisite:

• System is switched off and safeguarded against being restarted.

3.2 Assembly the slide rails on the link chain conveyor

Observe the following during assembly:

- Install the slide rails in a number of continuous lengths where possible.
- In areas with high loads, the slide rails must be separated to enable expansion. Separation is required at bending wheels, deflection units and drive units.
- Never connect slide rails in horizontal or vertical sliding bends.
- Avoid slide rail connections at the connection points of the guide profiles.



- 1. Check the slide rail for damage.
 - ! Only use undamaged slide rails.
- 2. Chamfer the slide rail at the start (viewed in running direction).

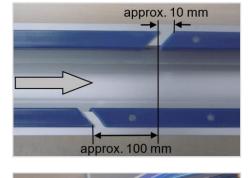
Assembly 11

3. Clip slide rail to the profile with the nose on the underside (see Figure).

- 4. Clip slide rail to the profile in the running direction with the assembly tool.
 - *!* Avoid the development of "waves" in the slide rail by clipping it on completely (audibly).
 - *!* Avoid slide rail connections at the connection points of the guide profiles.
- 5. In the case of slide rail connections, cut both slide rail ends with the mitre cutter at an angle of approx. 45°. Gently deburr the butt ends.
- 6. Cut back the start of the new slide rail section with a narrow angle (running direction, see arrow). Gently deburr the butt ends.
- 7. Maintain a distance of approx. 10 mm between the slide rail ends (running direction, see arrow).
- Do not position two slide rail connections so that they are opposite each other. Maintain a minimum spacing of approx.100 mm.
- 9. Each slide rail section must be <u>double</u> fixed at the start (viewed in the running direction), see "Fixing slide rail".

Slide rail before the bending wheel:

- 10. Cut off the end of the slide rail with an angle of approx. 45° with the mitre cutter.
 - *!* The slide rail must be slightly longer than the guide profile.
 - *!* A distance of 10 mm must be maintained between the end of the slide rail and the bending wheel.
 - *!* The end of the slide rail may not curve upwards or downwards.









Slide rail after the bending wheel:

- 11. Cut off the end of the slide rail with an angle of approx. 45° with the mitre cutter.
- 12. Chamfer the slide rail end in the running direction.
 - I The slide rail must be slightly longer than the guide profile.
 - *!* A distance of 2 mm must be maintained between the end of the slide rail and the bending wheel.
 - I The end of the slide rail may not curve upwards or downwards.
- 13. The slide rail must be <u>double</u> fixed at the start (viewed in the running direction), see "Fixing slide rail".

Fixing slide rail:

- 14. Fasten each slide rail section at the front end (viewed in running direction).
- 15. Using the drill (drill bit ø 3.4 mm), drill a hole in the slide rail and chassis.
 - *!* Do not drill through slide rail. The underside of the slide rail must not be drilled or protruding.
- 16. After drilling, deburr and remove all chips.
- 17. Carefully knock in M4 x 8 plastic screw.

- 18. Cut the screw head carefully and flush.
- 19. Rework possible supernatants with the file.

20. Mount the slide rail at the end of the profile (seen in the running direction) before intermediate elements or following elements with a spacing of approx. 5 mm.

- 21. Cut off the slide rail parallel to the elements with the mitre cutter and gently deburr the ends.
- 22. Mount the slide rail at the end of the conveyor with a spacing of approx. 5 mm at the drive station.
- 23. Cut off the slide rail parallel to the drive station with the mitre cutter and gently deburr.

Fig. 2: Assembly the slide rails









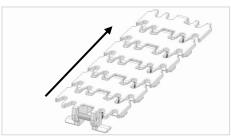
3.3 Assembling the link chain

Observe the following during assembly:

- Select the chain length so that the contraction of the chain ends is done with little effort.
 - *!* With a tight chain, rattling will be heard at the drive station.



- 1. Check the run using a short piece of the chain.
- 2. Remove any clamping points and rework seams if necessary.
- 3. Observe the running direction of the chain.



4. Running direction (arrow direction) of the conveyor chain as shown in the illustration.



With the system size EURO-flex 115 the running direction of the conveyor chain is opposite.



Variant 1:

- 5. Insert the conveyor chain into the deflection.
- 6. Insert the conveyor chain into the deflection in the running direction and push/pull until the chain has been pulled completely through the conveyor.



Variant 2:

- 5. Insert the conveyor chain into the drive station.
- 6. Insert the conveyor chain in the running direction into the drive station from below and push/pull until the chain has been pulled completely through the conveyor.
- 7. At the assembly opening fit the chain bolt and close the chain with this.



Fig. 3: Assembling the link chain



4 Cleaning

This chapter provides information on the execution of the operating mode Cleaning:

- Personnel and Protective equipment (Page 14)
- Selection of the cleaning agent (Page 14)
- Preparation (Page 15)
- Execution (Page 15)

ATTENTION

Warning of material damage due to improper cleaning!

Improper cleaning leads to damage to the system or its surroundings.

- » Cleaning the system according to the instructions in this installation guide.
- » Do not use steam jet or high-pressure cleaning devices for cleaning surfaces.
- » Do not use compressed air for cleaning and drying surfaces.

4.1 Personnel and Protective equipment

Personnel and Protective equipment

Specification	Designation
Personnel	Operating personnel
Personal protective equipment	Protective equipment against the cleaning agents used according to the instructions of the manufacturer of the cleaning agents

4.2 Selection of the cleaning agent

The cleaning agents used are specified by the local hygiene officer.

Observe the cleaning agent manufacturer's instructions.

Furthermore, observe the following:

Find application:

- Solutions with a pH value between 4.5 and 9
- Water under low pressure
- Water with temperatures below 40°C

Find no application:

- Cleaning products containing chlorine, ammoniac, phosphoric acid or their compounds
- Abrasive cleaning products
- Solutions with a pH value below 4.5 or above 9
- Water under high pressure
- Water with temperatures above 40°C



4.3 Preparation

Carry out the following work steps:

- 1. Switch off the conveyor system.
 - ▼ No voltage is present at the conveyor system.
- 2. Close the pneumatic supply at the main valve and secure it with a personal padlock.
- 3. Secure the main switch on the control cabinet with a personal padlock.

The conveyor system is prepared for cleaning.

✓ Ready.

4.4 Execution

Prerequisite:

- conveyor system is switched off and secured against being switched on again
- conveyor system is prepared for cleaning

Carry out the following work steps:

- 1. Remove residues of conveyance goods.
- 2. Remove contamination without damaging the surface.
- 3. Remove contamination with cleaning agents.
- 4. Rinse off solution with water under low pressure.
- 5. Rub surface to dry it.
- ✓ Ready.

Contact euroflex GmbH for instructions on cleaning any further contaminants.



5 Maintenance

This chapter provides information on the maintenance work to be carried out:

- Lubrication (Page 16)
- Maintenance plan (Page 17)
- Maintenance log (Page 19)
- Repair (Page 19)

5.1 Lubrication

Incorrect or negligent use of hazardous substances may lead to serious environmental pollution.

Observe the following:

- Apply lubricant evenly and sparingly at the specified points.
- Carefully remove any escaping, used or excess lubricant.
- Deal with solvents and cleaning agents in accordance with the manufacturer's safety data sheet.
- Dispose of all hazardous substances in accordance with the regional guidelines and commission a specialist company if required.

Malfunctions and excessive levels of wear on individual components are likely to result from the use of operating substances that cause significant pollution and/or that fail to comply with the stipulated specification. Warranty claims that can be traced back to this content shall be rejected.

Observe the following:

- Use operating substances with the specified purity class.
- Check the state of the operating substance at regular intervals.

Lubrication so	chedule
----------------	---------

No.	Designation				
NO.	Name	Note	Interval [Bh]	Lubricant	
1	Roller chain (Drive)	Spray!	250 also after each cleaning	Chain Lubricant Spray NSF H1	
2	Drive station, Deflection, Sliding bend, Bending wheel	Spray!	250 also after each cleaning	Silicone spray NSF H1	
3	Gear motor (Drive motor)	Details on lubrication and maintenance see manufacturer of the gearmotor			



5.2 Maintenance plan

Regular maintenance and care are required for the operational safety and fault-free operation of the system. The specifications in the maintenance plan are guide values and must be adjusted by the owner depending on the operating conditions.

ATTENTION

Warning of material damage due to non-original spare parts!

Use of non-original spare parts can lead to defects in the conveyance goods, operational malfunctions, loss of safety functions and damage to or destruction of components.

» Only replace components with original spare parts from euroflex GmbH.

General

Assembly and maintenand	ce work	Interval [Bh]	Personnel	
Inspect the conveyor system for visible damage, noise and vibration		8 (per shift)	Operating personnel	
Safety and protective devices	Check for completeness and function	8 (per shift)	Operating personnel	
	Replace defective equipment	Replace if required	Maintenance personnel	
Operating and display elements (buttons,	Check functionality	24 (daily)	Operating personnel	
switches, indicator lamps, manometers)	Replace defective components	Replace if required	Maintenance personnel	
Signage	Check legibility and completeness	24 (daily)	Operating personnel	
	Clean or replace, if required	Replace if required		
Check fixing elements, retig	hten if required	1.000 (quarterly)	Maintenance personnel	
Check the supply lines and	connections for leakage	after the first 20	Maintenance personnel	
		24 (daily)		
Electrical connections	Check for damage and firm seating	24 (daily)	Electricians	
	Replace defective connections	Replace if required		
Adhere to lubrication schedule		"Lubrication schedule" (Page 16)	Maintenance personnel	
Clean conveyor system		24 (daily)	Operating personnel	

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Conveyor system

Assembly and maintenance work		Interv	Interval [Bh]		Personnel
Remove foreign bodies		8 (per	8 (per shift)		Operating personnel
Clean conveyor syste	em surface	8 (per	shift)		Operating personnel
Check gear unit for le	eakage	8 (per	8 (per shift)		Maintenance personnel
Inspect surface for da	amage	170	170		Maintenance personnel
Conveyor chain	check for damage and elongation	50	250	500	Maintenance personnel
		therea	fter eve	ry 500	
	replace	4.000	4.000		
	check for wear	1.000	1.000 (quarterly)		Maintenance personnel
Slide rails	check for damage and wear	50	250	500	Maintenance personnel
		thereafter every 500			
	replace	Replace if required		uired	
	check all connections				
Check bending wheel for damage and wear		500			Maintenance personnel
Check sliding bend for	or damage and wear	500			Maintenance personnel
Check roller transitio	n/End module for damage and wear	500	500		Maintenance personnel
Flange bearing: Check eccentric ring for secure seating		170			Maintenance personnel
Check motor plate for secure seating		500			Maintenance personnel
Check bearing and links for correct function		1.000	(quarter	ly)	Maintenance personnel
Check toothed wheel for damage and wear		50	250	500	Maintenance personnel
		thereafter every 500		ry 500	

Drive/Deflection unit

Assembly and maintenance work		Interval [Bh]			Personnel
Guides of the conveyor chain (KU side parts)	check for damage and wear	1.000 (quarterly)		ly)	Maintenance personnel
	replace	7.000			
Sprocket wheel	check for damage and wear	1.000 (quarterly)		ly)	Maintenance personnel
	replace	7.000			
Ball bearing	replace	7.000			Maintenance personnel
Sheet metal flange bearing	replace	7.000			Maintenance personnel
Roller chain at the drive station	shock for domage and elengation	50	250	500	Maintenance personnel
	check for damage and elongation	thereafter every 500			
Sprocket wheel on roller chain	check for damage and wear e	1.000 (quarterly)		ly)	Maintenance personnel
	replace	7.000			



Electrical system

Assembly and maintenance work	Interval [Bh]	Personnel
Check electrical wiring for visible damage	40	Electricians
Electrical connections and distributors: Check terminal boxes for damage	170	Electricians

5.3 Maintenance log

The required maintenance intervals are dependent on the intensity of use of the conveyor system at the owner's deployment site and the consequent signs of wear. In order to be able to adjust the maintenance intervals of these terms of use, the general condition of the conveyor system as a whole as well as the assemblies and components must be logged in detail during the regular and (if required) unscheduled maintenance work.

Observe the following when creating maintenance logs:

- Produce a maintenance log for each maintenance task and log all performed maintenance work.
- Store the maintenance logs.

5.4 Repair

Incorrect repair work impairs the operational safety. This can cause accidents and seriously injure people as a result.

Observe the following:

- Repair work may only be carried out by the manufacturer or authorized specialist personnel.
- Switch off the system and secure it against being switched back on before all repair work.
- Switch off the compressed air system and secure it against being switched back on. Depressurize the compressed air-conveying components. Check if the pneumatic system has been relieved of pressure.
- Work on the electrical system may only be carried out by trained electricians.
- For all work on the electrical system, switch off the voltage supply and secure it against being switched back on again by accident.
- Only use original spare parts.

In case of repairs at the conveyor system, the customer service will help (see page 4: Customer service).

Spare parts can be ordered directly from the manufacturer (see page 8: Spare parts and their purchase).

Personnel

Specification	Designation
Personnel	Maintenance personnel



5.4.1 Conveyor chain: Repair or adjust the chain tension

WARNING

Danger to life due to moving machine parts!

Danger of injury and pulling in due to too long chain sag! Risk of crushing and cutting! Moving machine parts can cause serious personal injury or death.

- » Prior to starting, ensure that no persons are present in the danger zone.
- » Do not reach into moving machine parts during operation.
- » Maintain a safe distance from moving machine parts during operation.
- » Only carry out repairs, maintenance, cleaning and disassembly work when de-energised.

If one or more chain links are damaged, they must be replaced.

If an uneven running or ambient noise occurs, it is necessary to shorten the chain belt.

Select the chain length so that the contraction of the chain ends is done with little effort.



5.4.1.1 Adjust link chain

Data	Designation or value
Personnel	Maintenance personnel
Personal protective equipment	Protective work clothing Protective gloves Safety shoes
Interval	in each case after 50 OH, 250 OH, 500 OH, then check every 500 OH Replace after 4,000 OH
Tools, aids	Steel pin (Ø 4 mm x approx. 200 mm long) Hammer

Prerequisite:

• System is switched off and safeguarded against being restarted.

Perform the following steps:

1. Place the steel pin in the intended recess and carefully knock out the chain bolt with the hammer.



Fig. 4: Adjust link chain

- 2. Remove corresponding chain links or insert new ones.
- 3. Join the chain ends together.
- 4. Insert the chain bolt once more and carefully knock in.
- ✓ Ready.

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5.4.1.2 Check conveyor chain for wear

Information

Specification	Designation or value
Personnel	Maintenance personnel
Personal protective equipment	Protective work clothing Safety gloves Safety shoes
Interval	1.000 Bh (Quarterly)
Tool, aid	Caliper gauge

Requirement:

• System is switched off and secured against being switched on again.

Carry out the following work steps:

- » Check the wear of the conveyor chain by means of the chain links.
 - *!* The chain links must not fall below the minimum dimensions according to the table (Fig. 5: Check conveyor chain for wear).

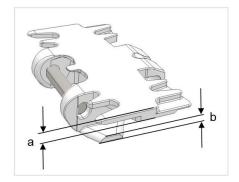


Fig. 5: Check conveyor chain for wear

✓ Ready.

EURO- flex 85, 115, 195 a = min. 3,5 mm b = min. 3 mm EURO- flex 55 a = min. 2 mm

b = min. 2,5 mm



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