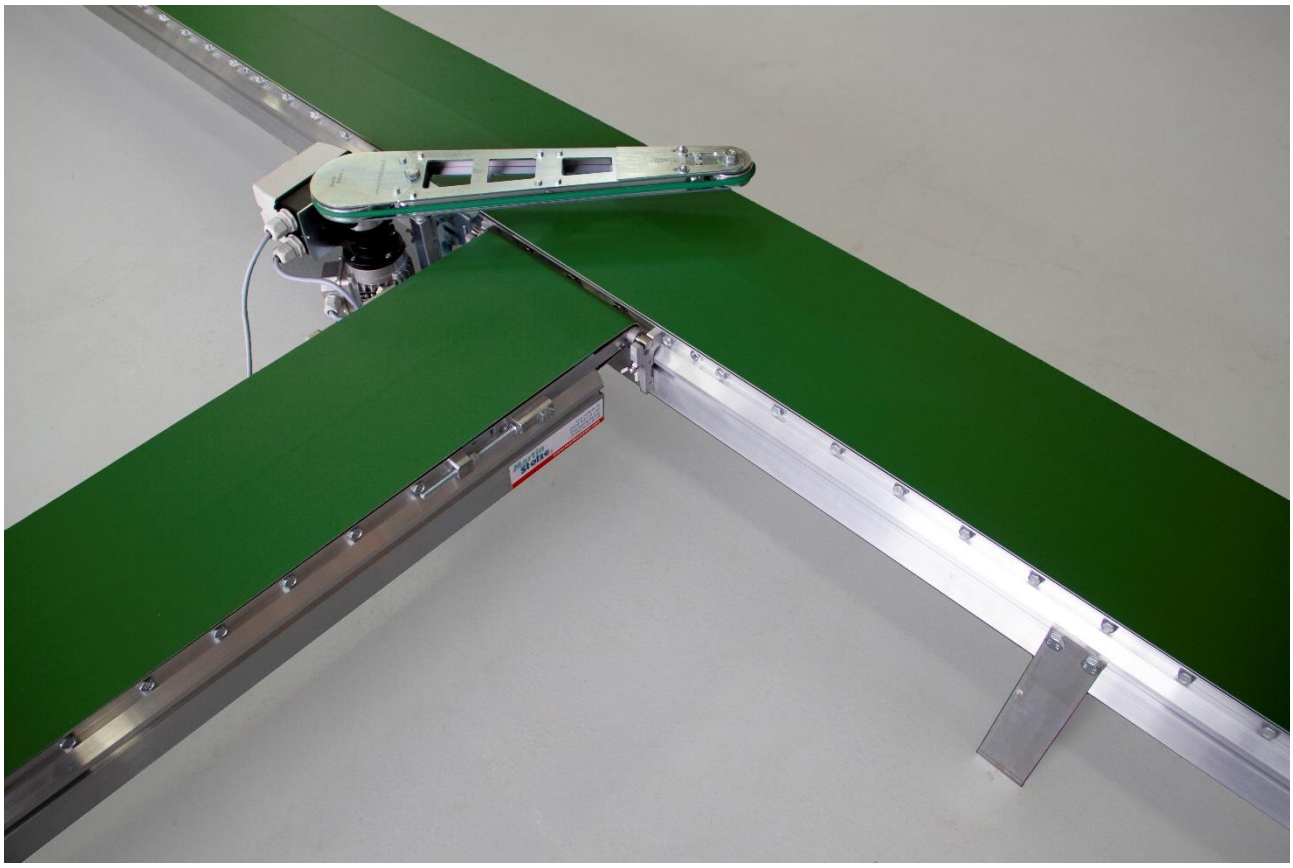

User Manual Conveyor belt

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Introduction

This user manual has been made for everyone who has to work on or with the machine. You should read this manual before starting to work on or with the machine.

The user manual contains important instructions and information on how to use the machine safely, competently and economically. The user manual must always be available at the place where the machine is used.

The user manual must be supplemented with instructions based on existing national regulations relating to accident prevention and environmental protection.

This user manual contains information about the operation of the machine with all possible options. Use only that information that is applicable to your machine. Depending on the intensity of use and customer wishes, this machine can be equipped with various options. Consult your sales advisor for this.

Supplier details if not supplied directly by Martin Stolze b.v.
Dealer stamp:

Martin Stolze b.v. guarantees the proper operation of the machine for 6 months after delivery, but is not liable for consequential damage to buildings, other machinery or the surroundings caused by the Conveyor belts by any cause whatsoever.

Martin Stolze b.v. is constantly seeking to improve its products and services. We therefore reserve the right to change the specifications given in this user manual at any time and without prior notice.

This product is supplied according to the general Terms and Conditions issued by Koninklijke Metaalunie (the employers' organisation for small and medium-sized enterprises in the metal industry) referred to as TERMS AND CONDITIONS OF THE METAALUNIE, filed with the Registry of the Court of Rotterdam on 1 January 2019. Publication of the Koninklijke Metaalunie, P.O. Box 2600, 3430 GA, Nieuwegein.

Martin Stolze b.v. is not liable for damage and indirect damage that result from operating errors, lack of competent maintenance and any use other than that specified in this user manual.

The liability of Martin Stolze b.v. also lapses as soon as modifications or extensions are performed on the machine by you or third parties without prior written permission.

This machine is only suitable for process and environmental conditions as stated in the 'Specifications and tolerances' section of this user manual. No other use is permitted by Martin Stolze b.v. and can result in danger for the operator and/or his/her surroundings.

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1 Technical specifications and tolerances

This machine is only intended for the automatic conveying of pots, trays, boxes, bags or other products. This machine is intended to only process pots, trays, substrate and other materials that are specified in this user manual.

Conveyor belts can be linked;

- on the Easymax conveyor belt, one conveyor belt is electrically driven (types VMD-170, 210 and 250) and this can drive ± 7 non-driven conveyors (types DK-170, 210 and 250). Power transmission uses sprockets. This allows conveyor belt lengths of up to 42 metres.
- Other types of conveyors can be linked by hooking them together or placing them one after another.
    - A conveyor with centre drive is used in places where there is no room to mount the drive on the side. Another advantage of the centre drive is that the total belt length does not increase when it is tensioned.
    - A conveyor belt with a tensioning drive is used in places where the total belt length must be set on site and then no longer allowed to change when the belt is tensioned.
    - A side-driven conveyor belt is available in various weight categories; the normal, flat conveyor for transporting normal-sized pots and the power conveyor for heavy pots. The power conveyor has a large drive wheel intended to pull a belt with a high resistance.

The ‘Operation’ section provides an extensive description of the operation of the machine.

This machine may only be used within the limits specified for specifications and tolerances in the order, on the composition drawing and in this user manual. If the machine is used beyond these specifications, Martin Stolze b.v. can accept no further responsibility for this machine.

This machine is intended solely for products as agreed in the order confirmation. In order to guarantee the correct operation of this machine, only those products with the specifications and tolerances as specified in the order confirmation may be used.

Do not use this machine for purposes other than that for which Martin Stolze b.v. made the machine. That can result in damage and danger for the operator and his/her surroundings.

This machine has CE marking. When several machines are placed in one line, the entire line must have proper CE marking before this machine is put into operation. Until the line has CE marking, this machine may not be put into operation.

Specifications	
Voltage	400 V 50 Hz 3~+N+ PE European standard connection
Machine connection	16 A 5-pole
Drive motor power	VMD-170: 0.75 kW VMD-210: 0.75 kW VMD-250: 0.75 kW Other: project dependent
Maximum load	Easymax: 100 kg (distributed evenly along 6 metres) Other: project dependent
Dimensions (lxbxd)	VMD/DK-170: 6000x195x300 mm VMD/DK-210: 6000x235x300 mm VMD/DK-250: 6000x280x300 mm Other: project dependent
Noise level	<70 dB(A), measured at a height of 1.60 metres and distance of 1.00 metre
Zero voltage coil	The switch unit features an optional zero voltage coil. This prevents the conveyor from restarting spontaneously after a power failure.
Steering cable	All belts are fitted with a steering cable
Year of manufacture	See rating plate
Type of product	As agreed in the order confirmation.

1.1 Rating plate

The rating plate is located near the control system on the side of the conveyor belt frame.

Codes on the rating plates:

Easymax™	
Linking section	DK
Variable motor section	VMD
Fixed section	VD
Project belt	PB
Centre drive	MA
Tensiondrive	SA
Super conveyor	SC
Power conveyor	PC

2 Safety

The machine has been constructed according to the latest technology and recognised safety technical rules. Nevertheless, its use may cause serious injury or death to the user or third parties. Its use may also cause damage to the machine or to other goods.

This machine has CE marking. When several machines are placed in one line, the entire line must have proper CE marking before this machine is put into operation. Until the line has CE marking, this machine may not be put into operation.

2.1 Regulations

1. The operation and maintenance of this machine must be performed by qualified personnel, taking the warnings on the machine into account and with due observance of the user manual. Keep children and other (unauthorised) persons out of the way when the machine is in use.
2. This machine is only suitable for process and environmental conditions as stated in the 'Specifications and tolerances' section of this user manual. All other use is not permitted by Martin Stolze b.v. and can result in danger for the operator and/or his/her surroundings.
3. It is forbidden to modify this machine without prior written permission of Martin Stolze b.v..
4. Thermal safety devices and torque limiters may not be changed from the settings they have when the new machine is delivered.
5. This machine must be installed in a way that allows sufficient service space for giving instructions and/or for performing maintenance and/or inspections safely.
6. Keep the work area clean and well lit. An untidy or dark work area can lead to accidents.
7. This machine is not suitable for outdoor use. Electrical components are only splash-proof. Keep this machine away from rain and moisture. If use of the machine in a damp environment is unavoidable, you must use an earth-leakage circuit breaker.
8. Keep hands, hair, loose clothing and/or jewellery out of the way of moving parts of the machine. Wear suitable clothing with no loose parts. Wear non-slip work shoes. Working on the belt whilst wearing gloves is prohibited. This is so you do not get trapped between the belt and other parts.
9. While the machine is on, no connection or safety device whatsoever may be removed. Only use the machine if all protective measures and safety-dependent facilities are present and ready for use.
10. Do not stand on the machine.
11. Never shift the machine if the power supply cable is still connected.
12. Terms for regular inspections and maintenance prescribed or indicated in the user manual must be respected.
13. Have the machine maintained and repaired only by qualified and competent personnel and only with original replacement parts.
14. In addition to the user manual, generally applicable statutory and other binding regulations regarding accident prevention and environmental protection must be observed. This also means, for example, the regulations concerning the handling of personal protective equipment.
15. Inform operating personnel before maintenance work is started. Disconnect the (mains) power supply before you inspect or perform maintenance on the machine by pulling the power cord plug out of the power point.
    a. If work must take place on the machine with (mains) power voltage connected, use an extra person who can operate the emergency stop.
16. If a machine part is damaged or no longer works as prescribed, work must be stopped immediately. Work may only resume if the machine part has been repaired or replaced and checked. Consult your supplier if the machine does not work as it should.
17. The machine and/or parts must be disposed of in accordance with the local laws and regulations.

2.2 Explanation of pictograms and symbols

The following symbols may be present on this machine:

Pictogram	Meaning
	Read and understand this user manual before putting the machine into use and/or performing maintenance.
	Disconnect the (mains) power supply.
	Wear safety shoes and safety goggles during all activities with or on this machine.
	Wear safety gloves and protective clothing when performing cleaning or maintenance work on the machine.
	Warning. Important points to note and/or instructions concerning safety and/or damage prevention are marked with this warning sign.
	Electric shock hazard. There is electric voltage here.
	Risk of crushing. Hazard from moving or rotating parts.
	Forbidden to come close to moving parts of the machine with loose clothing, long hair and/or jewellery.
	Do not wash switchbox. Danger of moisture in the switchbox if it is washed with water.

2.3 Hazards

This machine has CE marking. When several machines are placed in one line, the entire line must have proper CE marking before this machine is put into operation. Until the line has CE marking, this machine may not be put into operation.

2.4 Entrapment of fingers between two conveyors.

Make sure the conveyor belts never run towards each other.

2.5 Falling objects.

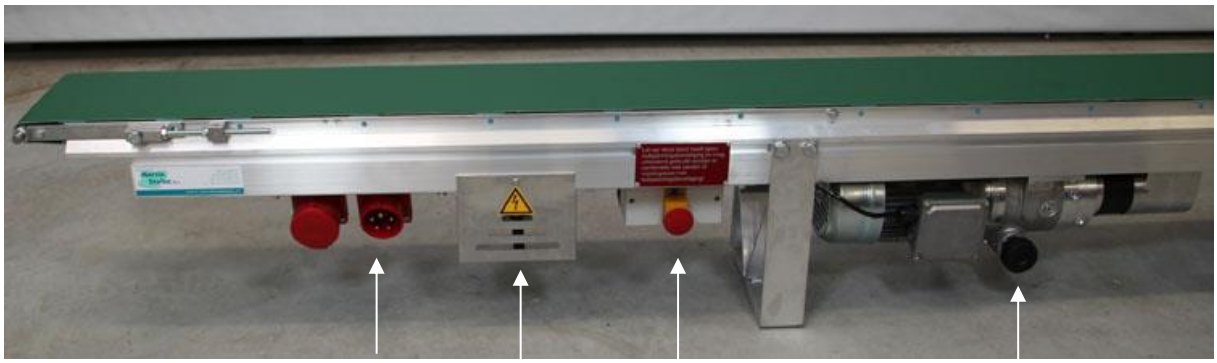
Examine the potential consequences of falling objects due to their weight and geometry. Fit side guards where necessary.

Get in touch with Martin Stolze b.v. to discuss side guard options.

3 Description of the machine

3.1 Machine overview

Easymax: type VMD

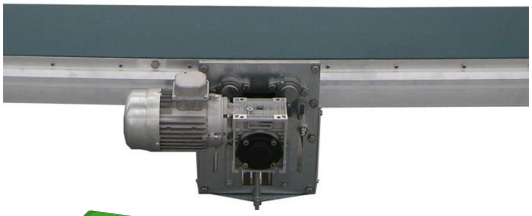


1. Power connection.
2. Three-way switch for conveying direction and neutral position.
3. Emergency stop button and black button for switching on the conveyor.
4. Speed adjustment knob.

Flat conveyor belt with side drive, type: VD, PB, DK

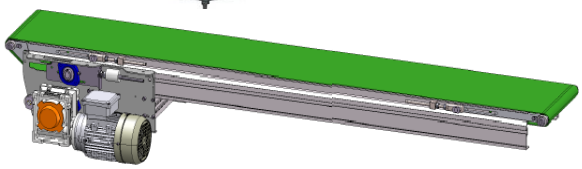
- Fitted with coupling for linking successive belts.

Flat conveyor belt with centre drive: MA



- Belt tensioners fitted to drive so the machine does not lengthen when belt is tensioned.

flat conveyor belt with tensioning drive: SA



- Belt tensioners provided with an additional tensioner so that the machine no longer becomes tense when tensioning the tire.

Flat conveyor belt power conveyor: PC, SC

- Intended for conveying heavy loads. For this reason, the drive roller is thicker than usual so it can exert more resistive force on the belt.

3.2 Options

Depending on the intensity of use and customer wishes, this machine can be equipped with various options. See your sales advisor for this.

Options	Code	Specifications

3.3 Operation

This machine is only intended for the automatic conveying of products. This machine is intended to only process pots, trays, substrate and other materials that are specified in this user manual.

The conveyor belts may only be used for the transport of products such as pot plants. Conveyor belts can be linked;

- on the Easymax conveyor belt, one conveyor belt is electrically driven (types VMD-170, 210 and 250) and this can drive ± 7 non-driven conveyors (types DK-170, 210 and 250). Power transmission uses sprockets. This allows conveyor belt lengths of up to 42 metres. An Easymax is a conveyor that is driven by a single motor. The motor can be powered directly or through a VFD. The VFD may be a mechanical or frequency regulator. Different lengths, widths and heights are possible. These belts are used a lot for the construction of temporary conveyor systems in greenhouses.
- Other types of conveyors can be linked by hooking them together or placing them one after another.
    - A conveyor with centre drive is used in places where there is no room to mount the drive on the side. Another advantage of the centre drive is that the total belt length does not increase when it is tensioned.
    - A conveyor belt with a tensioning drive is used in places where the total belt length must be set on site and then no longer allowed to change when the belt is tensioned.
    - A side-driven conveyor belt is available in various weight categories; the normal, flat conveyor for transporting normal-sized pots and the power conveyor for heavy pots. The power conveyor has a large drive wheel intended to pull a belt with a high resistance.

3.4 Work stations on the machine

This machine allows work to be performed along the conveyor belt.

3.5 Controls

Different for each machine. Conveyor belts can be fitted with switch unit with start/stop/emergency stop button or they can be supplied without controls.

The following applies to the Easymax:

The operating system for type VMD-170, 210 and 250 conveyors consists of

- Switch unit with mechanical emergency stop switch combined with a thermo-magnetic relay and optional zero voltage coil.
- Three-way switch. This switch has a neutral setting (central position) and two positions which determine the conveyor's direction of rotation.
- Power sockets. They enable connection with the mains power supply.

The DK-170, 210 and 250 conveyors are not fitted with a control system

- The widths of the belt surface on the various types are 170, 210 and 250 mm respectively. The recommended maximum diameters of flat-bottomed objects to be conveyed are 300, 400 and 500 mm.
- The maximum weight that may be conveyed along a six-metre belt is ± 100 kg.
- The belts are not necessarily suited to working at a gradient. Our maximum recommended gradient is 10%. (In other words, the rise or drop per metre of length is maximum 10 cm). Conveyor may only operate on a gradient if the sections are supported on legs. These support legs are available from your supplier.

4 Transport

Follow all instructions as described in this user manual, in particular the 'Safety' section.

Before positioning the machine, you must disconnect the electricity. Make sure the cables have been stored neatly.

The machine must be transported upright. The relative humidity may not be excessive, to avoid water from condensing in the machine.

Report damage during or immediately after delivery to the carrier and to Martin Stolze b.v. Take all necessary measures to prevent further damage.

When moving the machine, the conveyors must be switched off, the three-way switch placed in the neutral position, the emergency stop button pushed in and the plug removed from the power socket.

4.1 Storage

If the conveyors need to be transported or stored, they must be kept horizontal with the legs down to prevent oil leaks from the gear housings. When storing the conveyors, always ensure that they are stacked stably (maximum five conveyors stacked on top of one another). Your manufacturer can supply specially-made racks for this purpose.

CAUTION: Store conveyors horizontally! Do not walk or stand on them!

5 Assembly, installation and commissioning

Follow all instructions as described in this user manual, in particular the 'Safety' section.

This machine has CE marking. When several machines are placed in one line, the entire line must have proper CE marking before this machine is put into operation. Until the line has CE marking, this machine may not be put into operation.

5.1 Positioning

The machine must be placed on a flat surface with sufficient load-bearing capacity. This machine must be installed in a way that allows sufficient service space for giving instructions and/or for performing cleaning, maintenance and/or inspections safely. Apply the brakes to the castors before switching the machine on.

Make sure that the belts are stable and properly aligned. The gradient may not exceed 10% (10 cm rise or drop per metre of length). Conveyor may only operate on a gradient if the sections are supported on legs. These support legs are available from your supplier.

This machine is not suitable for outdoor use. Electrical components are only splash-proof. Keep this machine away from rain and moisture. If use of the machine in a damp environment is unavoidable, you must use an earth-leakage circuit breaker.

5.2 To be provided by the user

Before the delivery of the machine, the necessary equipment and facilities (electrical power supply, potting materials etc.) must be in placed within three metres of the machines.
Required power supply: 400 V, 3 phase + Neutral + Earth.

5.3 Assembly/connection

If applicable, the parts supplied with the machine must be assembled on the machine. Make sure that the moving parts are free. When the machine is complete, it can be connected (by a qualified person) by inserting the plug in the socket.

Keep hands, hair, loose clothing and/or jewellery out of the way of moving parts of the machine. Wear suitable clothing with no loose parts. Wear non-slip work shoes.

While the machine is on, no connection or safety device whatsoever may be removed. Only use the machine if all protective measures and safety-dependent facilities are present and ready for use.

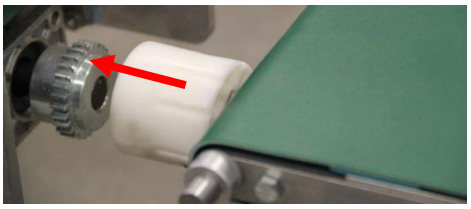
5.4 Linking the conveyors together

Linking the number of conveyor belts depends on the type of conveyor and the power of the electric motor.

For the Easymax, the following lengths must be taken into account when linking sections:

- VMK-170 0.755 kW: maximum 7 sections (+/- 42 metres) DK-170
- VMK-210 0.75 kW: maximum 7 sections (+/- 42 metres) DK-210
- VMK-250 0.75 kW: maximum 7 sections (+/- 42 metres) DK-250

The Easymax conveyors are linked together using the sprung coupling with plastic sleeve. Use the following belt to press the sprocket into the corresponding sprung coupling (see photo).



Link the conveyors together by pushing the pins into the grooves of the previous belt.

For safety reasons, if Easymax conveyors are driven from a central position, remove the sprung coupling with the plastic sleeve from the last conveyor section. Loosen the bolt/nut connection (VMD) and remove the spring link with the plastic sleeve.

5.5 Check conveyor belt tension

Before operating the machine for the first time, check the tension of the conveyor belt.

Procedure:

1. Check the tension of the conveyor belt. If the correct tension has been set, it will not be possible to lift the middle of the belt any more than 15 cm.
2. Adjust the belt tension if necessary.
    a. The tension can be adjusted by simultaneously tightening the tensioning bolts on each side of the conveyor.
        i. On belts with centre drive, the tensioner is located on the drive.
3. After adjusting, it must always be checked that the belt does not run out of line.
    a. If the conveyor is seen to be running out of line, remedy the situation to prevent excessive wear occurring. Use the adjuster screws to set the position of the tracking roller and/or drive roller.
    b. Always align the belt while the conveyor is running. Take care when doing so.

6 Operation

Follow all instructions as described in this user manual, in particular the 'Safety' section.

Keep hands, hair, loose clothing and/or jewellery out of the way of moving parts of the machine. Wear suitable clothing with no loose parts. Wear non-slip work shoes.

While the machine is on, no connection or safety device whatsoever may be removed. Only use the machine if all protective measures and safety-dependent facilities are present and ready for use.

If a machine part is damaged or no longer works as prescribed, work must be stopped immediately. Work may only resume if the machine part has been repaired or replaced and checked. Consult your supplier if the machine does not work as it should.

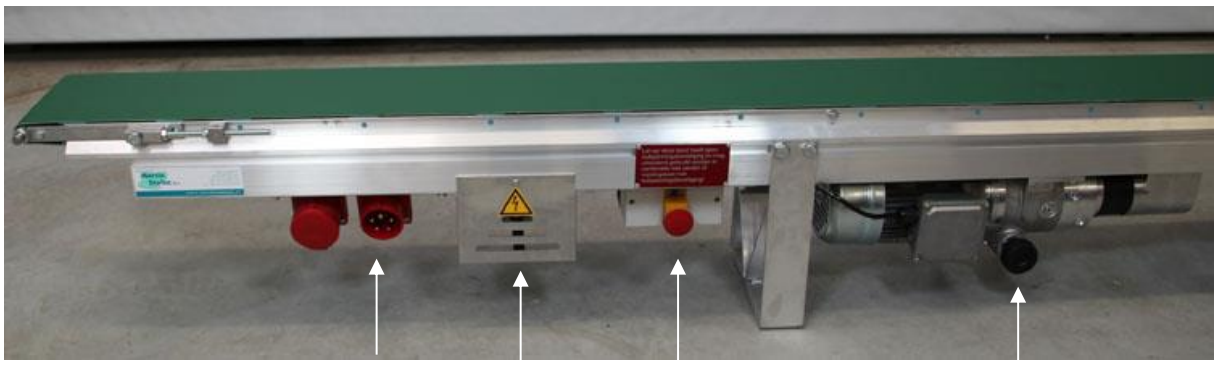
Different for each machine. Conveyor belts can be fitted with switch unit with start/stop/emergency stop button or they can be supplied without controls.

The following applies to the Easymax:

On the VMD-170, 210 and 250, the control unit is mounted on the underside.
The unit is fitted with a three-way switch (2). It can be used to reverse the conveyor belt's direction of rotation. As the phase sequence varies from company to company, it is impossible to state whether the '1' position corresponds to clockwise or anticlockwise direction. In the '0' (neutral) position, the belt is stationary.

The large red button is the emergency stop (3). The purpose of this is so the belt can be stopped with a single press of the button in case of an emergency. If the emergency stop button is pushed in, it is impossible to switch the conveyor belt on. The button can be released by turning it clockwise. Above the emergency stop, there is a black button (3) for switching the conveyor on. This is used for switching the conveyor belt on. This button will only work if the three-way switch is in the '1' or '2' position to indicate the conveying direction.

The correct speed can be set with the black rotary switch (4) on the motor; clockwise is faster (+) and anticlockwise is slower (-).



6.1 Activation

Procedure:

1. Insert the plug in the power socket (1).
    a. On the Easymax, if several sections of conveyors are set up, the power can be connected through the power sockets.
2. If necessary, release the mechanical emergency stop button by turning it clockwise (3).
3. Turn the three-way switch to position ‘1’ or ‘2’ (2).
4. Push the ‘I’ button on the switch unit (3).
5. Adjust the speed of the belt as necessary using the black rotary switch (4).

6.2 Changing the direction of rotation

The direction of rotation is changed by operating the three-way switch.

Procedure:

1. Switch from position ‘1’ via position ‘0’ to ‘2’ (or vice versa). In each case, the conveyor will be switched off. If you change the direction of rotation, hold the switch in the ‘0’ position for at least two seconds so the whole transport line comes to a standstill. Switching immediately from anticlockwise to clockwise or vice versa can cause serious damage to the drive mechanism.
2. Push the ‘I’ button on the switch unit. The conveyor will restart in the opposite direction.

6.3 Shutdown

Procedure:

1. Turn the three-way switch to the ’0’ position.

6.5 Power failure

In the event of a power failure, the conveyor will always shut down. If the optional zero voltage coil is incorporated into the switch unit, the conveyor will not automatically switch on (it will only be started by means of specific actions, as described under ‘activation’ (6.1)).

7 Maintenance

Follow all instructions as described in this user manual, in particular the 'Safety' section.

The maintenance of this machine must be performed by qualified personnel, taking the warnings on the machine into account and with due observance of the user manual.

Keep hands, hair, loose clothing and/or jewellery out of the way of moving parts of the machine. Wear suitable clothing with no loose parts. Wear non-slip work shoes.

While the machine is on, no connection or safety device whatsoever may be removed. Only use the machine if all protective measures and safety-dependent facilities are present and ready for use.

For these activities, always take the plug out of the power point. Before maintenance activities are started, personal protective equipment must be put on (see section 2.3).

Inform operating personnel before maintenance work is started. If possible, disconnect the (mains) power supply before you inspect or perform maintenance on the machine, by switching the main switch off and locking it, and pulling the power cord plug out of the power point.

7.1 Preventive maintenance

Normal usage is assumed for the following maintenance instructions. For intensive use or use in extreme conditions, the maintenance must be performed at shorter intervals.

Item	Interval	Remarks
Machine	Daily	Check whether moving parts work properly and do not jam and/or whether parts are broken or damaged to such an extent that this affects the functioning adversely. Have damaged parts repaired before use.
Conveyor belt	Weekly	Check conveyor belt tension (see section on checking conveyor belt tension).
Pictograms	Weekly	Check their legibility and, if necessary, replace.
Bearings	Monthly	Lubricate with bearing grease.
Gear housing		Check oil and refresh if necessary.
Electrical system	Yearly	Check for damage.
Electrical motors	Yearly	Remove dust.

7.2 Failures

Problem	Possible cause	Action/solution
Failure in electric motor	The mains voltage varies more than 10% from the rated motor voltage	Ensure the correct mains voltage and whether extension cables are too long causing voltage drop.
	Cooling air temperature too high	Ensure cool air
	Poor cable connection	Check the cable connection and repair it if necessary
	Blown fuse	Replace the fuse
	Too little cooling air because of blocked cooling air passage	Ensure the good supply and removal of the cooling air
Problem	**Possible cause**	**Action/solution**

The motor hums and consumes too much current	Defective winding	Repair or replace the motor Loose wire (phase loose) Replace extension cable
Thermal switches repeatedly fail	Motor failure	Call a mechanic
	Mechanical blockage	Remove blockages, check bearings (worn bearings get hot)
	The motor is incorrectly connected	Connect the motor correctly
Machine does not start	Emergency stop switched on	Release emergency stop
	Circuit breaker tripped in switch box	Check why the circuit breaker has tripped. Remove obstacles from feed belts. Switch on the circuit breaker after resolving the problem
	Cable length too long so voltage loss occurs	Reduce cable length
	Voltage changes because other appliances in the same group demand power	Ensure the correct mains voltage. Switch other appliances off
The belt is not moving	The motor or drive mechanism are not operating	Check motor and drive mechanism
	Belt is slipping	Belt tension is too slack. Adjust belt tension
		Belt overloaded (max. load: 100 kg distributed over six metres)
	Loose sprocket	Check and tighten Allen bolt
	Drive shaft below belt is not turning	Check both Allen bolts on the drive unit and/or gear housing
Tracking roller seized	Bearings defect	Replace bearings
Belts are squeaking	Dry bearing hubs below the belt	Lubricate with Teflon or silicon spray
Belt not aligned	Incorrect tensioning	Tension the belt evenly
	Dirt on tracking roller or drive roller	Remove dirt

7.3 Drawings and diagrams

The drawings which belong to this machine are combined in a separate file. The electrical diagrams are supplied in the machine's electrical box.

7.4 Spare parts

Only original Martin Stolze b.v. parts and accessories may be used on the machine.

Martin Stolze b.v. advises you to have certain parts in stock in connection with vulnerability for wear and tear and/or possible downtime of the machine in the event of repeat orders for the relevant parts.

Parts that can be ordered are on the parts list on the assembly drawings.

When you order parts or spare parts from Martin Stolze b.v., please provide the following information: serial number, type stated on rating plate, drawing number, POS code, required length (where applicable) and required quantity.

7.5 Customer service and advice

Our technical department will answer any other questions you may have about repair and maintenance of your machine and about spare parts. We are happy to advise you on matters concerning the purchase, use and setting of products and accessories.

8 Disposing of the machine or machine parts

Follow all instructions as described in this user manual, in particular the 'Safety' section.

Perform the following steps when disposing of the machine:

1. Shut the machine down and disconnect power and pneumatics.
2. Drain and remove all consumables.
3. Scrap the machine in accordance with locally applicable regulations.

9 EC declaration of conformity

EC declaration of conformity for machines (Directive 2006/42/EC, Appendix II, under A.)

CE

Martin Stolze b.v.
Leemidden 6
2678 ME De Lier
The Netherlands

Declares that:

Machine: ***Conveyor belt***

is in conformity with the **Machinery Directive 2006/42/EC** and satisfies the provisions of the **EMC Directive 2004/108/EEC**.

Satisfies the harmonised European Standards:

Harmonised European Standard	Description	Harmonised European Standard	Description
NEN-EN-ISO 12100:2010	Safety of machinery – General principles for design – Part 1: Basic terminology, methodology	NPR-ISO/TR 14121-2:2010	Safety of machinery – Risk assessment – Part 2: Practical guidance and examples of methods
NEN-EN-IEC 60204-1	Safety of machinery – Electrical equipment of machines – Part 1: General requirements		

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