

Buffer belt PT 5000



Operating instructions

Release date: 24/03/2023 / V1.0

Read before initial start-up and keep by the machine for future use



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1 Product description

1. Intended use

The MAYER buffer belt PT 5000 makes it possible to collect multiple pots fed by a conveyor belt and push them over onto a wide buffer belt. This makes it possible to pick up the pots in packages with a wide fork using a fork lift and to transport the pots to their destination.

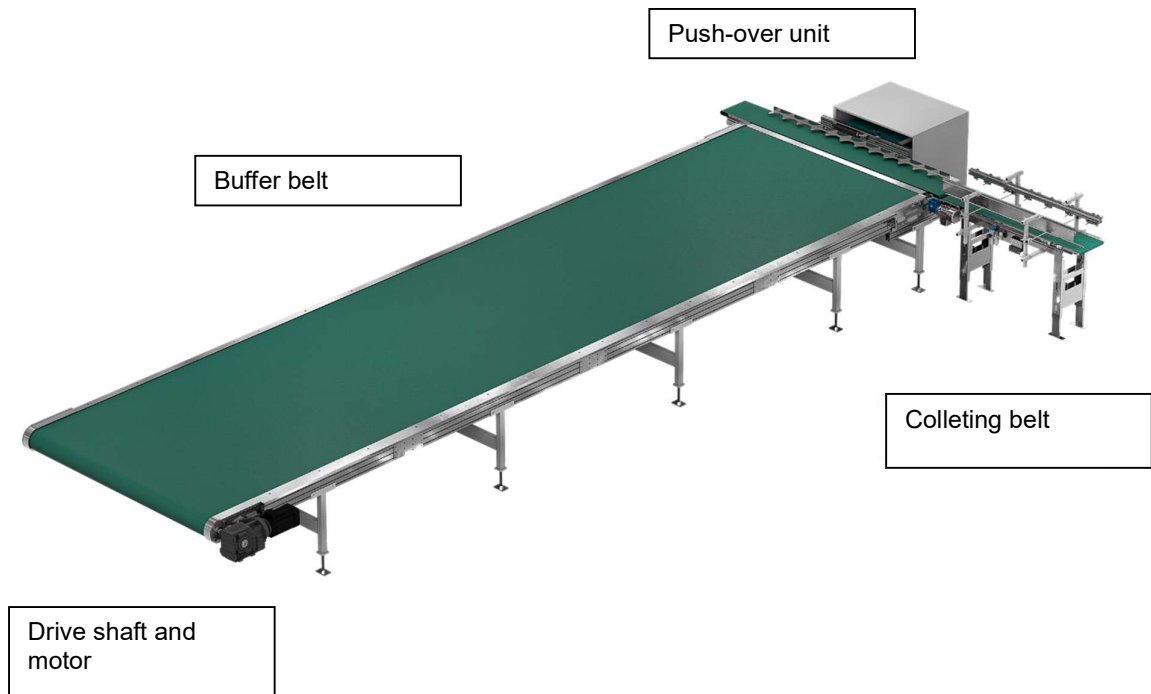
The machine is not intended for purposes other than those listed here - this is considered improper use!

If the MAYER PT 5000 buffer belt is not used according to these specifications, safe operation of the machine cannot be guaranteed.

Proper use also includes reading these operating instructions as well as compliance with the instructions contained therein - and the safety instructions in particular. This also requires that all inspection and maintenance tasks be performed at the stipulated intervals.

The operator of the MAYER PT 5000 buffer belt, not the manufacturer, is responsible for all personal injury and material damage arising from non-intended use!

2. Structure



3. Functional description

When working with the Mayer buffer belt, pots or trays are fed via a conveyor belt to a pre-collection belt.

The pots or trays are collected on the push-over belt and pushed over the push-over unit onto a wide buffer belt. During the push-over process, the pre-collection belt collects the incoming pots in order to then pass them over to the push-over belt.

Once a pre-set number of rows is reached, an empty space is passed through the buffer belt in order to form a so-called package. This package is then picked up with a fork lift and placed in the greenhouse or outdoors.

4. Technical specifications

Manufacturer:	Mayer
Machine type:	Buffer belt
Series:	5000
Length / Width / Height:	500-1300 / 220 / 150 cm
Weight:	approx. 1700 kg
Working height:	approx. 90 cm
Power supply	400V/50Hz, 5-pole, 11A+each additional TB 1.23A
Power consumption:	2.5 kW+each additional TB 0.25KW
Pot size:	from 9-40 cm Trays up to 30cm wide Other dimensions upon request
Hourly throughput:	Up to 7500 pots
Workstation-related emission value:	73dB (A)

Accessories that can be supplied (at additional cost)

- Pneumatic device for diagonal bracing
- Start-up aids for fork lift
- Custom-manufactured push-over templates
- Different collection belt lengths – and widths

Important!

**When ordering accessories and spare parts, always
give the machine type and number!**

5. EC declaration of conformity

pursuant to appendix II A of the EC Machinery Directive (2006/42/EC)

The manufacturer:

Mayer GmbH & Co. KG
Maschinenbau u. Verwaltung
Poststr. 30
89522 Heidenheim / Germany

hereby declares that the machine described below:

Manufacturer: Mayer
Type: Buffer belt
Series: 5000
Year of manufacture: from 2022

satisfies the safety and health requirements of the following EC Machinery Directive:

2006/42/EC

Applicable harmonised standards:

EN ISO 12100:2011	Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)
EN 60204-1:2010	Safety of machines - electrical equipment of machines - part 1: General requirements (IEC 60204-1:2005, as amended)
EN ISO 13849-1:2016	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design (ISO 13849-1:2015)
EN ISO 13850:2008	Safety of machinery - Emergency stop - Principles for design (ISO 13850:2006)
EN ISO 13855:2010	Safety of machinery - Positioning of safeguards with respect to the approach speeds of parts of the human body (ISO 13855:2010)
EN ISO 13857:2008	Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs (ISO 13857:2008)
EN ISO 14119:2014	Safety of machinery - Interlocking devices associated with guards - Principles for design and selection (ISO 14119:2013)
EN ISO 4413:2011	Hydraulic fluid power - General rules and safety requirements for systems and their components (ISO 4413:2010)
EN 349:1993+A1:2008	Safety of machinery - Minimum gaps to avoid crushing of parts of the human body
EN ISO 14120:2016	Safety of machinery - Guards - General requirements for the design and construction of fixed and movable guards (ISO 14120:2015)
EN 1037:1995+A1:2008	Safety of machinery. Prevention of unexpected start-up
EN 618:2002+A1:2011	Continuous handling equipment and systems - Safety and EMC requirements for equipment for mechanical handling of bulk materials except fixed belt conveyors
EN 619:2002+A1:2011	Continuous handling equipment and systems - Safety and EMC requirements for equipment for mechanical handling of unit loads
EN ISO 14738:2009	Safety of machinery - Anthropometric requirements for the design of workstations at machinery (ISO 14738:2002 + Cor. 1:2003 + Cor. 2:2005)
EN 1005-2:2003+A1:2009	Safety of machinery - Human physical performance - Part 2: Manual handling of materials in connection with machinery and component parts of machinery

EN 1005-5:2007	Safety of machinery - Human physical performance - Part 5: Risk assessment for repetitive handling at high frequency
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Structural changes which can have an impact on the technical specifications quoted in the operating instructions and intended use, and which hence significantly modify the machine, shall invalidate this declaration of EC conformity!

Heidenheim, 01/02/2024



.....
Geschäftsführer | Managing Director

2 General safety instructions

1. Due diligence of the operating company

The MAYER Buffer belt PT 5000 was designed and built taking a danger analysis into consideration and after careful selection of the harmonised standards to be complied with as well as other specifications. It therefore meets the state of the art and guarantees a maximum degree of safety.



However, only if all the measures required for such are taken can this safety be achieved in actual operational practice. Planning these measures and checking their implementation is subject to the operating organisation's duty to take due care.

The operating organisation must in particular guarantee that:

- ... the machine is only used in accordance with its intended use (cf. the Product description section).
- ... the machine is only operated when in flawless working order and, especially, that the working order of the safety equipment is regularly checked.
- ... the Operating Instructions are always available in legible condition and complete at the location where the machine is used.
- ... only sufficiently qualified and authorised personnel operate, service and repair the machine.
- ... these personnel are regularly instructed about all relevant matters concerning industrial safety and environmental protection and that they know the Operating Instructions and especially the safety instructions they contain.
- ... none of the safety and warning signs attached to the machine are removed and that all remain legible.
- Users must obligate themselves only to ever operate the machine when it is flawless condition.
- No unauthorised conversions or alterations are allowed that influence the machine's safety.
- Only when it has stopped, must any work ever be carried out on the machine.

- Before beginning with any work on the machine, secure its drives and accessory parts against being switched on unintentionally.
- The protective devices may only be removed when the machine has been stopped.
- Local safety and accident-prevention regulations always apply to any operation of the machine.
- The machine may not be started if any safety devices are removed.
- In the working area the operator is responsible for other people.
- **In case of non-compliance with any one of the points cited above, the manufacturer shall be released from all liability.**

2. Explanation of the safety symbols used

The safety symbols along with the text of the safety instructions are meant to point out unavoidable residual dangers that exist when dealing with this machine. These residual hazards relate to:

- People
- The machine
- Other things and objects
- The environment

The following safety symbols are used in these Operating Instructions:

This symbol indicates that there are dangers to the machine, things and the environment, but that no dangers to people are to be expected.

If these instructions are not followed, it might result in malfunctions and damage to the machine. Property damage and environmental damage might also come about.



This symbol identifies instructions contributing to better understanding of the machine information that helps you to use the machine in optimum fashion. This symbol does not identify safety instructions.



This symbol warns against the danger of electric shock.



Be sure to also note that a safety symbol can never replace the text of safety instructions—the text of safety instructions must therefore always be read completely.

3. Basic safety measures

Basically, it is important to ensure that:

- Tight-fitting clothing is worn at all workstations.
- Wearing necklaces, rings or bracelets is prohibited.
- It is forbidden to reach into the push-over unit (to set up pots, for example), as there is a risk of being caught by the push-over arm.
- It is forbidden to climb onto the buffer belt when the machine is running.
- It is forbidden to reach into the collection area near to the pre-collection belt when the machine is running.

4. Machine-related safety measures

The workstations are distributed around the different areas of the buffer belt.

The responsibilities for the different activities on the machine must be clearly defined and adhered to. Unclear responsibilities pose a safety risk.

In the event of any disruption to the work process, it is forbidden to reach into the machine when it is running in order to remedy the fault.

The Emergency Stop switch must always remain freely accessible.

It is forbidden to climb onto the running machine.

The machine must be set up securely on a level, solid surface.

A failing machine can be fatal.

Dirt and standing water must be cleaned off the floor (workstations on the machine and passageways) regularly in order to avoid any risk of slipping.

Tripping hazards caused by cables which are connected to the power supply systems must be avoided.

All supply lines to the machine must be protected against damage.

Work on the electrical equipment may only be undertaken by an electrician.

The protective devices

- are installed to ensure the safety of operating personnel
- and must not under any circumstances be modified, removed or bypassed because of changes to the machine.

5. Demands on operating personnel

The machine may only be operated by personnel who have been trained for such, shown what is involved and are authorised to do so. These individuals have to know and act in accordance with the Operating Instructions. The respective authorisations for the operation personnel must be clearly prescribed.

In addition to this, special qualifications are required for the following activities:

Operation personnel being trained may at first only work with the machine under the supervision of an

experienced individual. It should be confirmed in writing that the training has been successfully completed.

Only trained personnel may ever operate any of the control and safety equipment.

All individuals that carry out any activities with the machine have to read the Operating Instructions and confirm by their signature that they have understood the Operating Instructions.

3 Transport

To prevent damage to the machine as well as injuries while transporting the machine, it is absolutely necessary to comply with the following points:

- The transport work may only be carried out by individuals qualified to do so, complying with the safety instructions.
- The machine may only be lifted by the supporting points provided for such.
- Be sure to also read the "General Safety Instructions" section.

When transporting the machine, the following special dangers must be expected:

- Suspended loads can drop, which would be a lethal danger – never go under suspended loads!
- If load-lifting equipment other than that specified here, severe damage to the machine may result.

1. Transport

When the machine is transported special care shall be taken to avoid damage of the machine during loading or unloading.

During transport fixings according to type of transport shall be implemented.

Moisture condensation caused by temperature difference during transport as well as shocks during transport shall be avoided.

The machine shall be operated with usual care.

The use of appropriate suspension equipment is required when loading and unloading the machine with a crane lorry.

2. Handling

After being set down, the machine is pushed with a crane lorry/forklift to the planned production location. This is ensured thanks to rollers on the feet.

If the machine must be transported over an inclined surface, it must be ensured that:

- Adequate safety precautions have been taken
- to prevent the uncontrolled movement of the machine.

Appropriate measures may include:

- Sufficient members of staff
- Securing the wheels with chocks
- etc.

3. Storage

When the machine or its parts are not reassembled right after transport, then they shall be carefully stored on a protected area. It shall regularly be covered and protected against dust and moisture.

Tasks for putting out of operation are detailed in section 6.3.

4 Installation

1. General notes

a)

To protect the machine against weather caused damages it is suggested to use and store it inside.

b)

Electrical connection: 400V/50Hz.

Connection is permitted only to socket-outlets which are protected by an AC/DC sensitive RCCB (residual-current circuit-breaker).

c)

Make sure that there is sufficient space for loading and collection. Upstream and downstream machines must be arranged accordingly.

d)

It is not suggested to under-estimate job to remove and transport the planted pots, since an insufficient solution may considerably decrease efficiency of the machine

2. Setting up the machine

a)

The subsurface for the machine should be level and solid, so that the machine feet cannot sink into it.

b)

To relieve the load on the wheels, support the machine together with the feet (with a forklift truck), then remove the transport wheels



3. Precaution for the stability of the machine

There is no need to carry out other activity for erecting the machine than it is described in section 4.2.

4. Dismantling and disposing of the machine

After completion of its full time of operation, the machine must be duly separated from energy supply systems and disposed of according to valid legal regulations

5 Initial start-up

It is absolutely necessary to comply with the following safety instructions for the initial start-up of the machine. This will prevent injury to individuals, damage to machinery and other property damage.

- The initial start-up may only be carried out by qualified individuals, complying with the safety instructions.
- Before the first start-up, check whether all the tools and parts not belonging in it have been removed from the machine.
- Before the first start-up, check the electrical connections.
- Activate all the safety equipment and EMERGENCY SHUT-OFF switches before the initial start-up.
- Also read the section "General Safety Instructions".



1. Checks before initial start-up

- Check the alignment of the machine
- Check the seating of the attachments (fork, push-over plate)
- Remove any foreign objects from the belt
- Check the input voltage against the type plate
- Check the push-over unit for mechanical and electrical damage
- Check the Emergency Stop button
- Check that safety-relevant devices have been installed and adjusted.
- Check electrical and pneumatic plug-in connections
- The gear rack must NOT come into contact with the drive pinion
- All belts must be unloaded

2. Starting the machine for the first time

- Set the main switch to the 'Zero' position → Plug in the cable → Check the input voltage
→ Set the main switch to ON (by turning it)
- In the Service area, control the individual parts of the system "Manually".
- Check the sensors (end and start of push-over unit, forklift safety, package at end of belt)
- In the Service area, move the push-over unit to its base position
- Select a programme and move the push-over unit to the Hold position, then check and measure the values.
- Move the push-over unit to the "Buffer belt" position
- Check the belt speeds and adjust if necessary
- Then reset the belt and start the system
- Troubleshooting → Check the light barriers (forklift and end of belt), then reset the faults

3. Stopping the machine

- Stop the machine using the Stop button
- Only stop the machine using the Emergency Stop switch in an emergency.
- Reach into the collision protection light barrier (will continue to run after exiting the light barrier)
- Reach into the end-of-belt sensor (will continue to run after exiting the light barrier)

Note:

Please also see “6.2 - Shutting down the machine”.

6 Operation

1. Normal operation

- Turn on the main switch
- Check the preset programme and if necessary, select a new programme based on the pot size
- Check the collector setting (cylinder) and adjust, if necessary, so that the pots are positioned upright (pot to pot)
- Check the compressed air connection to the pneumatic collector and if necessary, check this at the cylinder at the bracing
- Activate the machine with “Control On”, then press Start to put the system into operation
- Confirm the programme selection
- If necessary, reset the counter

2. Shutting down the machine

There are two ways provided to switch off the machine.

a)

In normal case by pressing switch „**Stop**” mounted on the swinging cable.

In this case the machine may be restarted by pressing switch „**Start**”.

b)

In emergency case by „**Emergency Stop**” switch.

When push button „Emergency Stop” is pressed the machine stops immediately and remains stopped.

After unlocking the “Emergency Stop” switch, the

Release button must be pressed until it lights up, after which you can then set the machine in motion using the “Start” button.

3. Measures prior to and after a longer shutdown

a) Before a long shutdown

- Clean carefully the machine.
- Grease and oil certain parts of the machine according to maintenance plan.
- Protect against dirt and moisture (to be covered)
- Disconnect the machine from power lines (electricity, compressed air)

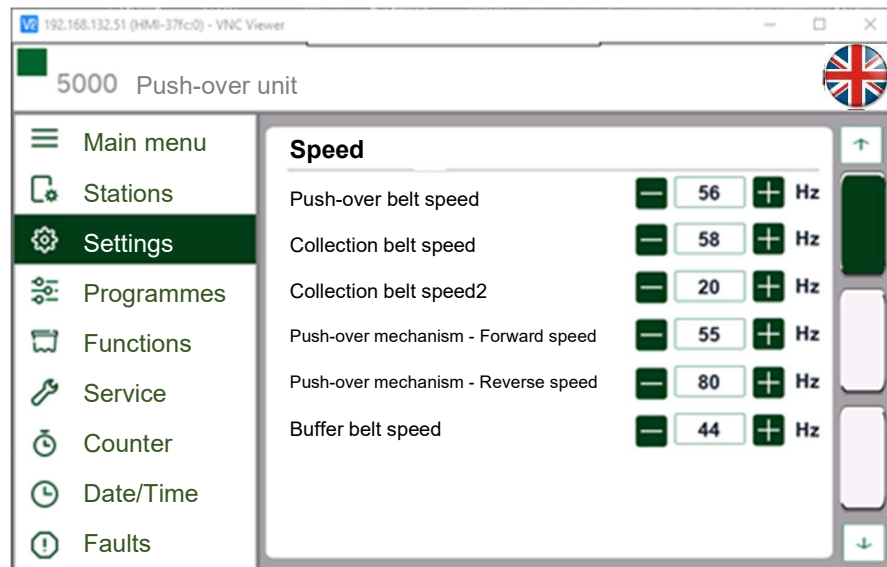
b) After a long shutdown

- Grease and oil certain parts of the machine according to maintenance plan.
- Visually check the machine.
- Connect the machine to required energy sources.
- Start the machine as it is described in section „Initial start-up“.

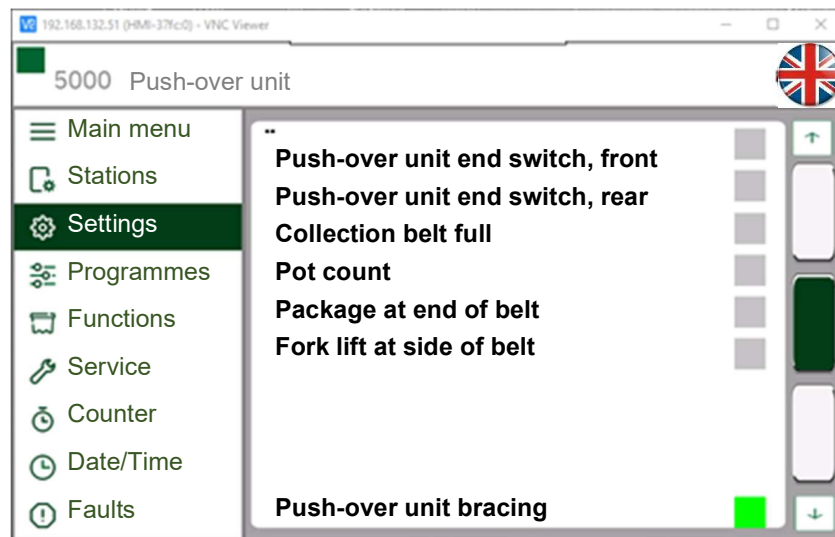
4. Further setting and operation options

a) Settings

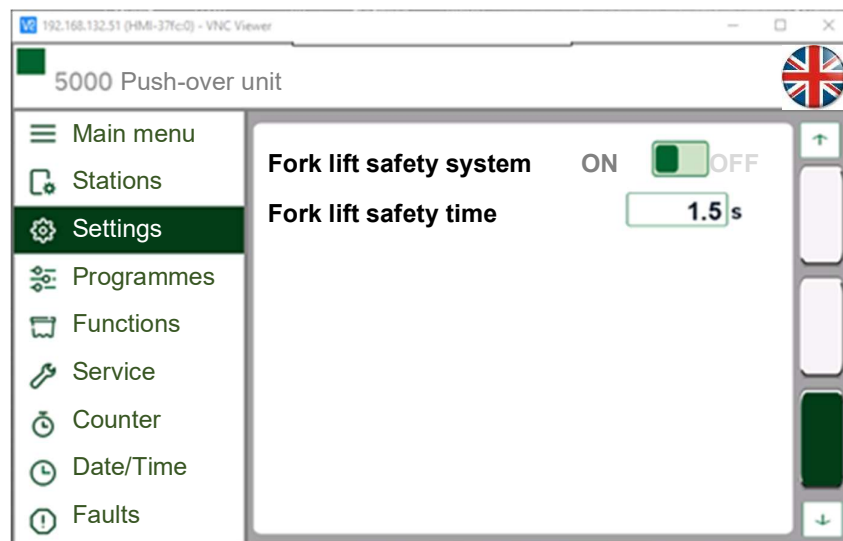
- Each of the individual drives and the speed can be adjusted variably.



- Status display for individual queries

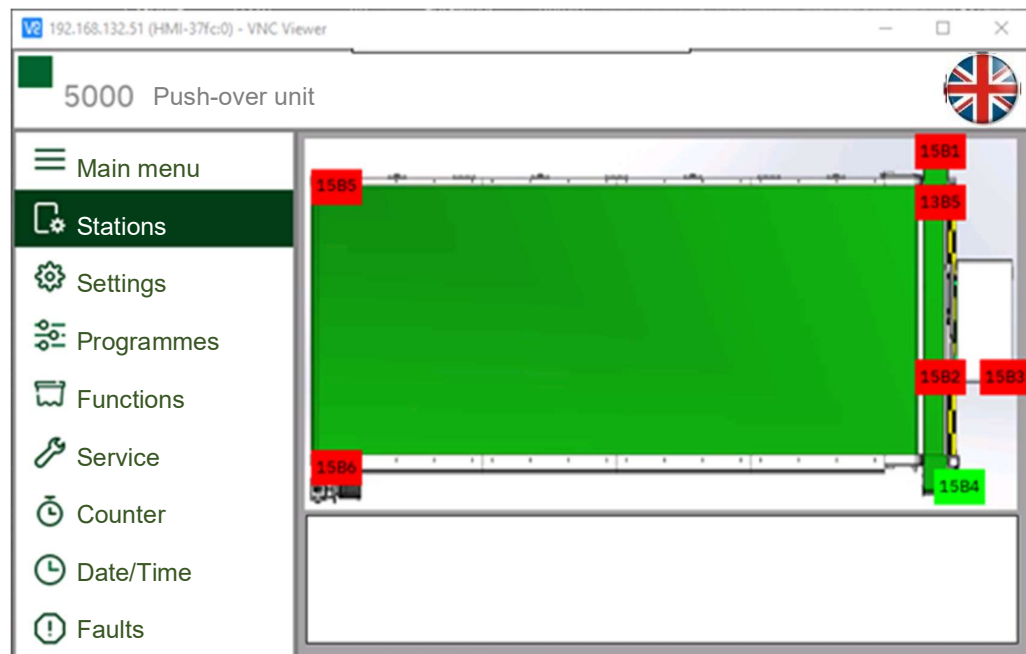


- Switching the fork lift safety system on and off



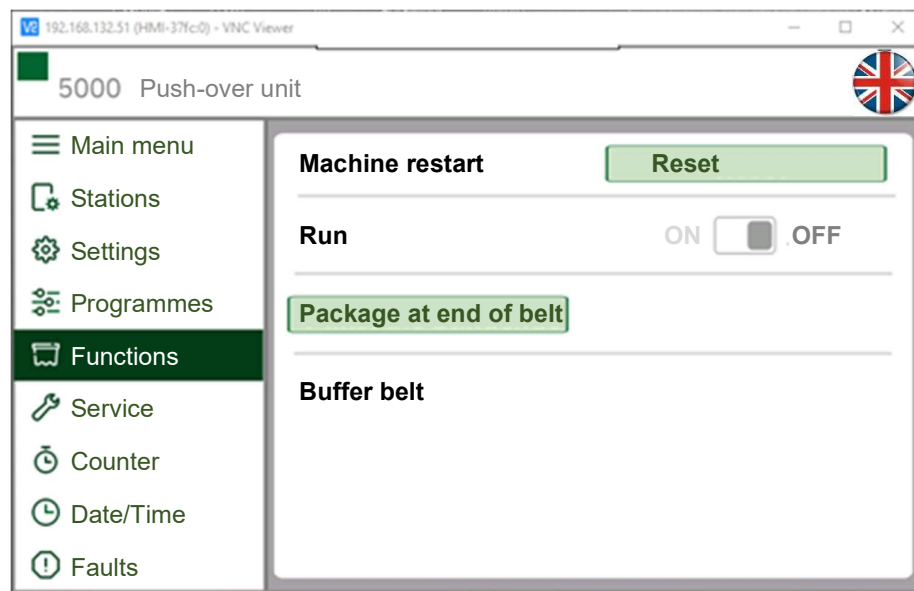
b) Stations

- Optical status display for queries



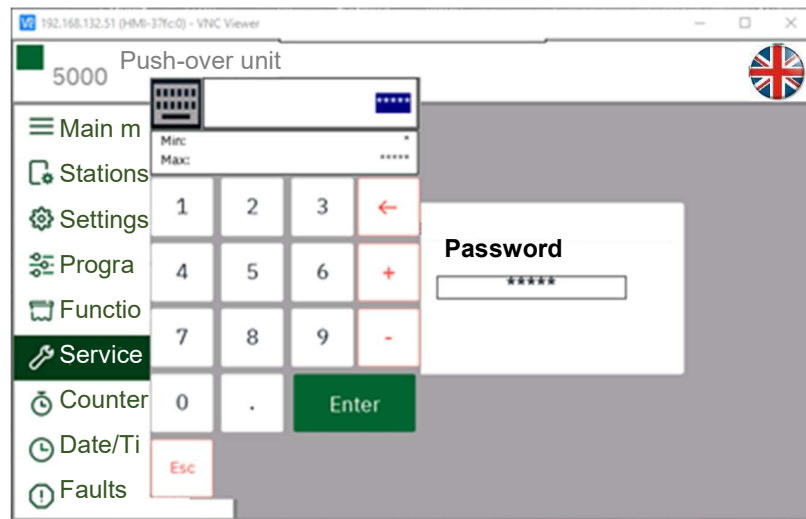
c) Functions

- The machine must be reset after any programme setting or change, same as after any manual intervention in the machine process
- Activating the “Run” function switches off the push-over process. The collection belt and push-over belt operate continuously.
- When the “Package to end of belt” function is activated, the buffer belt moves the pots/pot packages to the light barrier at the end of the belt, where the belt is stopped when the light barrier is triggered.
- The buffer belt can be moved back and forth manually.

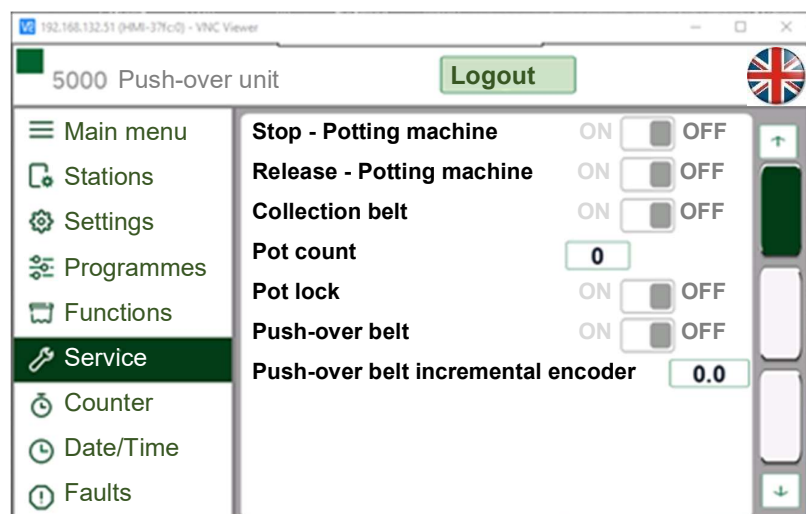


d) Service

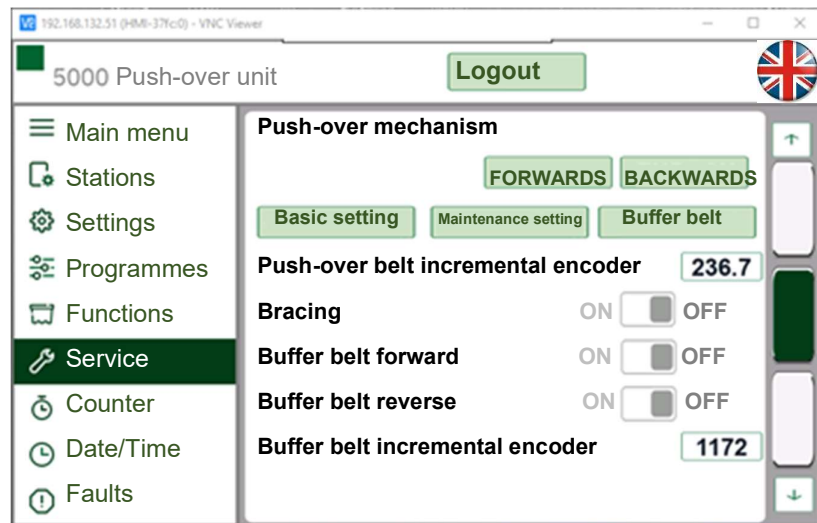
- Service settings are password-protected (4321)



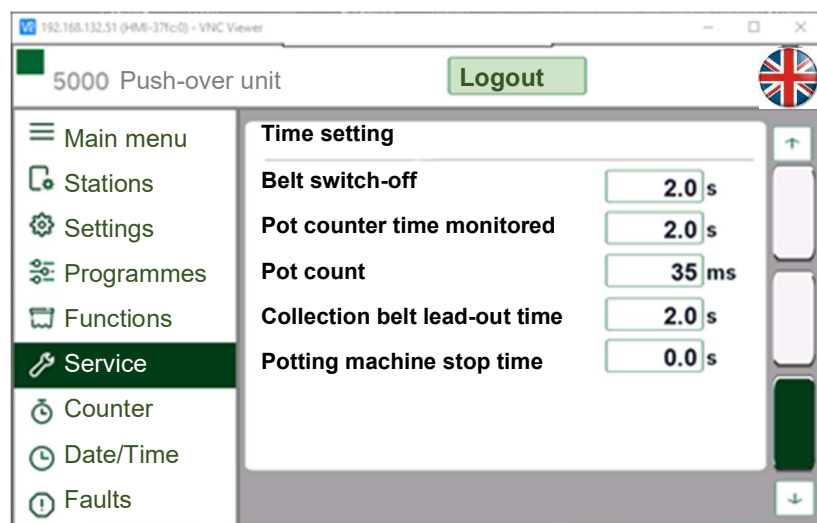
- The individual drives and functions can be switched on and off using the buttons. Please note that if anything is turned on in the Service area, it must be turned off again before starting normal operations.



- Display of the travel routes for the individual drives

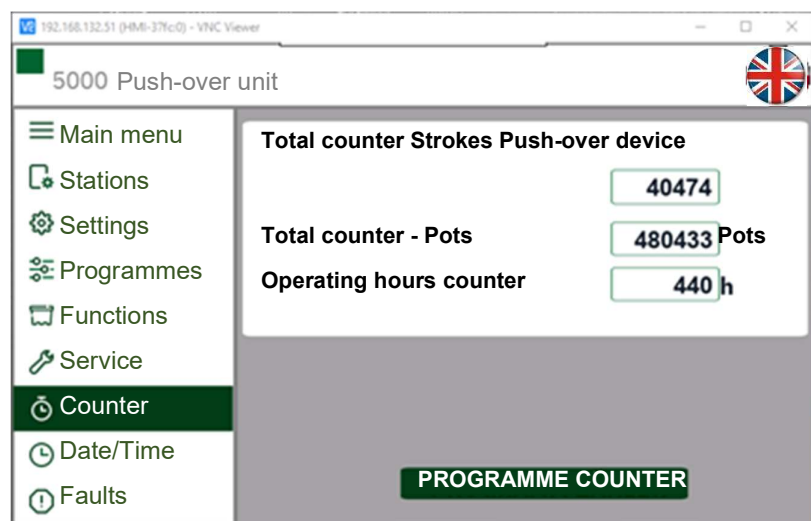


- Setting monitoring and switch-off times.



e) Counter

- Displays push-over strokes
- Pot counter
- Operating hours counter (periods after starting the machine.



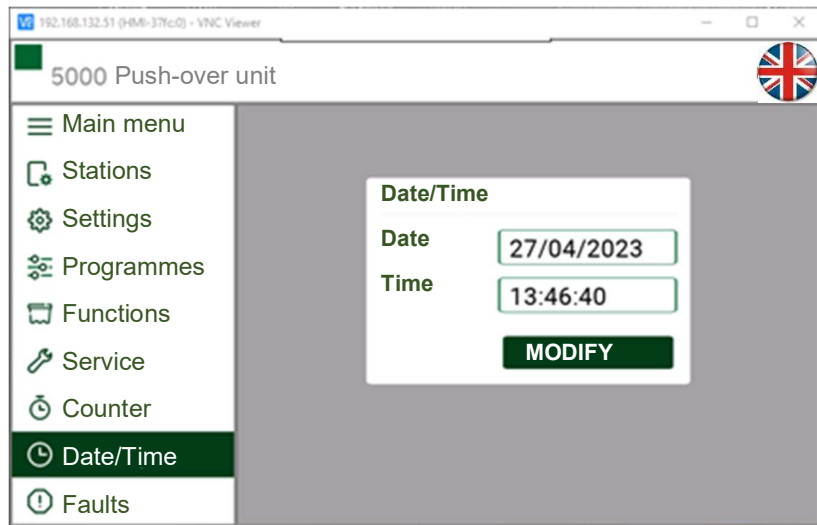
- Saves pot transfers by programme as a daily and total counter.



	Plant variety/Name	Date	Number of pots	Total number	Save
1	Test	11/30/22 - 13:29:54	0	0	SAVE
2	Set 1	10/28/22 - 15:43:38	0	0	SAVE
3	Trays	11/30/22 - 16:28:54	45	45	SAVE
4	Set 3	01/01/70 - 00:00:00	0	0	SAVE
5	Set 4	01/01/70 - 00:00:00	0	0	SAVE
6	Set 5	01/01/70 - 00:00:00	0	0	SAVE
7	Set 6	01/01/70 - 00:00:00	0	0	SAVE
8	Set 7	01/01/70 - 00:00:00	0	0	SAVE
9	Set 8	01/01/70 - 00:00:00	0	0	SAVE
10	Set 9	01/01/70 - 00:00:00	0	0	SAVE
11	Set 10	01/01/70 - 00:00:00	0	0	SAVE
12	Set 11	01/01/70 - 00:00:00	0	0	SAVE
13	Set 12	01/01/70 - 00:00:00	0	0	SAVE

f) Date time

- For documenting fault messages



5000 Push-over unit

Date/Time

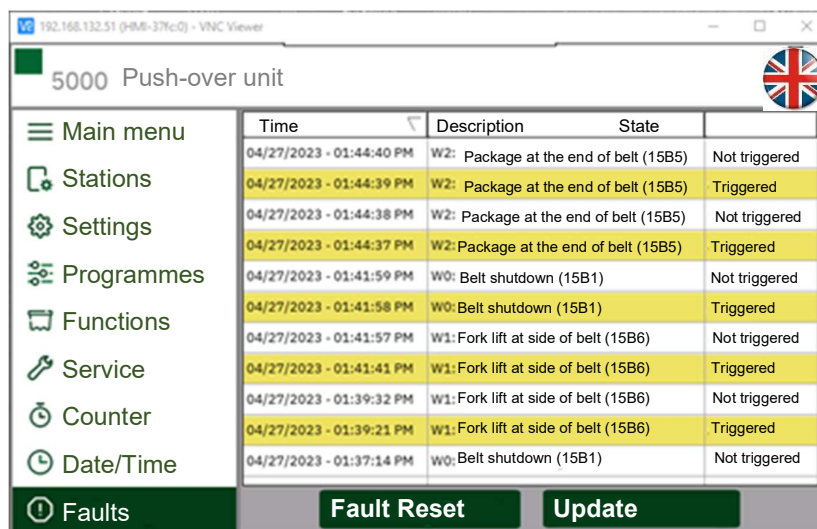
Date: 27/04/2023

Time: 13:46:40

MODIFY

g) Faults

- Displays malfunctions and fault messages
- Reset after a fault occurs.



5000 Push-over unit

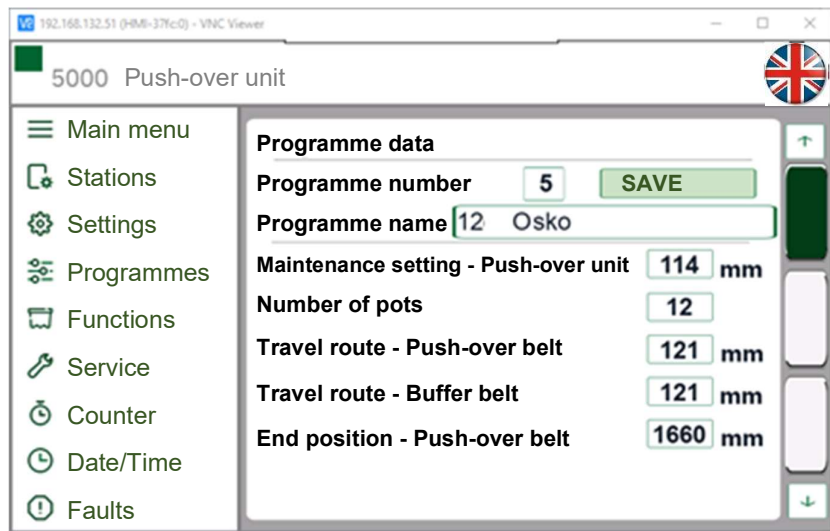
Time	Description	State
04/27/2023 - 01:44:40 PM	W2: Package at the end of belt (15B5)	Not triggered
04/27/2023 - 01:44:39 PM	W2: Package at the end of belt (15B5)	Triggered
04/27/2023 - 01:44:38 PM	W2: Package at the end of belt (15B5)	Not triggered
04/27/2023 - 01:44:37 PM	W2: Package at the end of belt (15B5)	Triggered
04/27/2023 - 01:41:59 PM	W0: Belt shutdown (15B1)	Not triggered
04/27/2023 - 01:41:58 PM	W0: Belt shutdown (15B1)	Triggered
04/27/2023 - 01:41:57 PM	W1: Fork lift at side of belt (15B6)	Not triggered
04/27/2023 - 01:41:41 PM	W1: Fork lift at side of belt (15B6)	Triggered
04/27/2023 - 01:39:32 PM	W1: Fork lift at side of belt (15B6)	Not triggered
04/27/2023 - 01:39:21 PM	W1: Fork lift at side of belt (15B6)	Triggered
04/27/2023 - 01:37:14 PM	W0: Belt shutdown (15B1)	Not triggered

Fault Reset **Update**

5. Programmes

a) Programme per pot size

- A new programme must be entered for each pot size
- A new programme must be entered for identical pot sizes with different row or pot spacings.



192.168.132.51 (HMI-37fc0) - VNC Viewer

5000 Push-over unit

Main menu
Stations
Settings
Programmes
Functions
Service
Counter
Date/Time
Faults

Programme data

Programme number **SAVE**

Programme name

Maintenance setting - Push-over unit mm

Number of pots

Travel route - Push-over belt mm

Travel route - Buffer belt mm

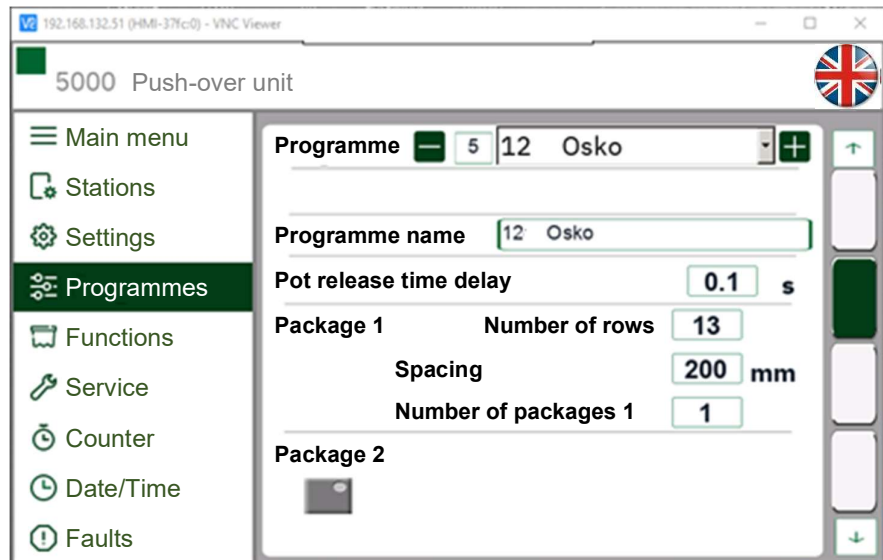
End position - Push-over belt mm

b) Programme settings

- Programme name: A programme name must be entered for each programme
- Maintenance setting - Push-over unit: Value at which the push-over unit waits for the next pushover process (pot diameter + safety)
- Number of pots: Number of pots to be pushed over.
- Travel route - Push-over belt: Distance between pots on the push-over belt (for pot-to-pot, this is the diameter of the pot)
- Travel route - Buffer belt: Distance between pot rows on the buffer belt (dependent on the width of the individual fork elements, for row-to-row this is the diameter of the pot)
- End position - Push-over belt: Distance between the end of the first pot on the push-over belt to the end of the last pot at the push-over position



- Pot release time delay: Start delay for pots from the collection belt to the push-over belt following the push-over process.
- Package 1: Number of rows to be included in a package
Distance between packages
Number of identical packages to be pushed over
- Package 2: Required when a different number of rows is required within the package.
Number of rows to be included in a package
Distance between packages
Number of identical packages to be pushed over



192.168.132.51 (HMI-37fc0) - VNC Viewer

5000 Push-over unit

Main menu
Stations
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Faults

Programme **5** **12** Osko

Programme name **12** Osko

Pot release time delay **0.1** s

Package 1 Number of rows **13**
Spacing **200** mm
Number of packages 1 **1**

Package 2

7 Malfunctions

To prevent damage to the machine as well as injuries while remedying malfunctions at the machine, it is absolutely necessary to comply with the following points:

- Only eliminate a malfunction if you have the qualification specified to do so.
- Also read the section "General Safety Instructions".
- When eliminating malfunctions with the machine, the following special dangers have to be expected:
- Accidentally switching on the power sources can result in injuries to people as well as damage to the machine.
- In case of unprotected manual operation, there is an increased risk of injuries through bruising

1. Behaviour in case of malfunctions

If any malfunctions should occur while the machine is in operation, proceed as follows:

1. Stop the machine either using the STOP button or EMERGENCY SHUT-OFF, depending on the situation.
2. When necessary for the safety of people or of the machine, immediately cut off the machine from the power system it has.
3. Troubleshooting > If necessary, then by qualified personnel
4. Error correction > If necessary, then by qualified personnel
5. Starting up the machine

2. Possible malfunctions and trouble shooting

a) Mechanical malfunctions

Fault / malfunction	Cause	Measure
Pot jam on collection belt	Pots not clean when fed in Substrate residue on the collection unit	Eliminate the fault and reset

b) Electrical malfunctions

Fault / malfunction	Cause	Measure
Emergency Stop pressed	Emergency Stop switch activated	Unlock Emergency Stop
End of belt reached	Light barrier at end of belt blocked	Eliminate the cause Realign the sensor
Forklift collision protection activated	Light barrier on the approach side activated	Eliminate the cause Realign the sensor
Machine does not accept values saved in the programme	Programme error	Reset the system
Frequency converter fault	Frequency converter fuse tripped	Turn fuse on
Frequency converter overload fault	Overload or underload at frequency converter Phase failure in the supply line	Check the drives Inspect motor cables Check the feed Replace the frequency converter.
Pot jam at pot counter	Pot remains too long in pot counter	Remove the pot and start

8 Maintenance

When carrying out maintenance for the machine, it is absolutely necessary to comply with the following safety instructions. Doing so will prevent injuries to people, damage to the machine and other damage to property as well as the environment.

- **Cleaning, lubricating and maintenance work may only be carried out by authorised operating personnel. The Operating Instructions must be complied with exactly.**
- Only trained electricians may ever carry out any of the work on the machine's electrical equipment.
- Switch off all sources of voltage and secure the sources of voltage against them being accidentally switched back on.
- Release pressure of every unit that is under pressure.
- Only Mayer GmbH & Co. KG may ever manipulate the machine's control programme.
- All un-recycled operational materials, lubricants and supplies must be disposed of in an environmentally friendly manner.
- Also read the section "General Safety Instructions"

When carrying out maintenance on the machine, the following special dangers have to be expected.

- Installing incorrect spare parts or wearing parts can cause severe damage to the machine.
- Accidentally switching on the power source can result in severe bodily injuries and damage to the machine.
- There is a danger of getting injured on sharp-edged machine parts/tools that are exposed.
- Lubricants or fertilisers that have escaped can result in caustic burns on direct contact with the skin.
- When unsecured manual operation is carried out, there is an increased risk of injury through crushing.

1. Maintenance plan

Description	Time	
Lubrication of linear guides	after 80 operating hours	
Visual inspection for damage or leaks on the drive motor	Weekly	

9 Part list

10 Pneumatics and electrical circuit diagrams

11 Guarantee

Horticultural machinery and special machinery

We will accept liability for faults in the supplied goods and for any failure to provide features for the existence of which an express assurance had been given. In such a case we undertake – to the exclusion of all further claims – to improve or re-supply (at our discretion) free of charge any parts which have revealed themselves to be unserviceable or subject to a not inconsiderable impairment in serviceability due to faults in their material, manufacturing process or design within twelve months (or within six months for multi-shift operation) of their arrival on the customer's premises. For parts which we do not manufacture ourselves (e.g. motors), we can only accept liability for the same scope and length of time which the subcontractor has accorded to us.

Any replaced parts shall become our own property. No warranty claims can be accepted if the fault occurs as a result of the customer having mistreated or neglected the products delivered by us, made modifications or undertaken repairs incorrectly or without our prior approval, or had third parties undertake such work.

The customer's entitlement to assert claims due to faults shall in all cases lapse six months following a complaint made within the required time period, however no sooner than the end of the compulsory warranty period. We are not responsible for correcting faults unless the customer has fulfilled its obligations due to us up to the point when the fault became apparent.

Changes in the design and shape of horticultural machinery and equipment

We reserve the right to make changes in design and shape, in particular with regard to deviations from the drawings and descriptions etc. during the delivery period, provided that the purchased object is not thereby significantly altered, rendered less effective or reduced in value and the customer can reasonably be expected to accept the modifications.

You have chosen to purchase a product of true quality.

We wish you every success with your product.

We would be most grateful if you would recommend our products to others.

Thank you

Your MAYER-TEAM