

BARFIDE

Parts collector & Reduction tubes

TLT Touch box



INSTRUCTION MANUAL



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1 FOREWORD

This manual is intended for the various persons who have to work on the product, in order to provide them with the information they need.

In particular, it includes information on:

- security;
- the installation of the product
- the use of the product
- Product maintenance

As well as the diagrams, drawings and useful documents in the appendix.

2 DISCLAIMER

Any copying or reproduction, even partial, by any process whatsoever, as well as any total or partial transcription, without the agreement of ERRIC, is prohibited (Law No. 57,298 of 11.03.57).

Despite all the care taken in the preparation of this document, ERRIC cannot guarantee the accuracy of all the information it contains. In particular, your partly completed machine may differ, in certain points, from the figures presented in this manual. However, this does not affect the operation of the machine.

Surrendering one or more documents with an incremented index commits you to destroy all documents with a lower index (originals and copies).

This manual is essential for the safe handling of the machine. It is necessary to keep it, as a reference, in all circumstances close to the machine.

This document includes the safety rules and procedures to be applied when operating the machine. Therefore, please read this document before using the machine.

3 CERTIFICATE OF COMPLIANCE

3.1 ERRIC Certificate of Conformity

DECLARATION OF INCORPORATION OF A PARTLY COMPLETED MACHINE

Extract from Directive 2006-42 "Rules for Machinery Article 2 §g (Definitions)

"partly completed machine": a set that almost constitutes a machine, but which cannot provide a defined application on its own. A drive system is a partly completed machine.

The partly completed machine is intended solely to be incorporated or assembled with other machinery or other quasi-machinery or equipment in order to constitute a machine to which this Directive applies.

We, the undersigned,

ERRIC

265 rue de la Grange
74950 SCIONZIER
FRANCE

Declare that the equipment:

Service: TLT : Touch Box

Description: The Tempo box allows you to control the following BARFIDE products:

- SP0
- SP1

Complies with all the provisions of Directive 2006/42/EC on machinery, and complies with the following harmonised standards::

EN 14121-1 et 2
EN 12100-1 et 2
EN 13849-1 et 2

Person providing technical documentation :

M. DUFOUR (Project Manager)

Address: 265 rue de la Grange 74950 SCIONZIER

Done at Scionzier on: 01/12/20

Mr. DUFOUR, CEO :



4 GENERAL SAFETY RULES AND PREVENTIVE MEASURES

4.1 General

In order not to impair the proper functioning of the product and not to put personnel in a dangerous condition, the following rules must be respected:

- Read the instructions carefully before performing any operation.
- Never lean on the product.
- Never shock the product.
- Safety devices can only be dismantled by authorised persons and can only be replaced by an identical system.
- Inhibition or forcing of a sensor that may result in unforeseen action is prohibited for any unqualified person.

The customer is responsible for the wiring of the power supply and its protection at 300mA.

The proper maintenance of the product as well as the replacement of worn parts is the responsibility and appreciation of the customer and its maintenance personnel.

Our products are not designed to handle chip evacuation. The parts must therefore arrive without chips on our products.

Hazardous and/or flammable substances used by the customer are not the responsibility of ERRIC but must be taken care of by the customer.

ERRIC cannot be held liable for interventions that have not been carried out by ERRIC.

5 COMMISSIONING

5.1 Environmental Data Sheet

Electricity	
Frequency	Direct current
Nominal Voltage	230V
Presence of neutral at the level of the product supply	YES
Maximum Power	50VA
Connection	M12 Cable 5 Pole Female 5m 5x0.34 ²
Pollution	
Atmospheric	NO
Sonorous	NO
Vibration	NO

The product is designed to operate under the normal conditions of an industrial production workshop. The elements have been selected to meet the constraints imposed, but require regular maintenance.

Overcurrent protection must be placed by the customer and calculated with the maximum power above.

5.1.1 Noise pollution

Our machines are not subject to the installation of an acoustic enclosure.

All the components of the machine do not generate a sound pressure higher than 78dBa and comply with CE standards.

Noise from sources other than our equipment is not our responsibility.

5.1.2 Vibration

Our machines are not subject to vibrations.

5.1.3 Quality

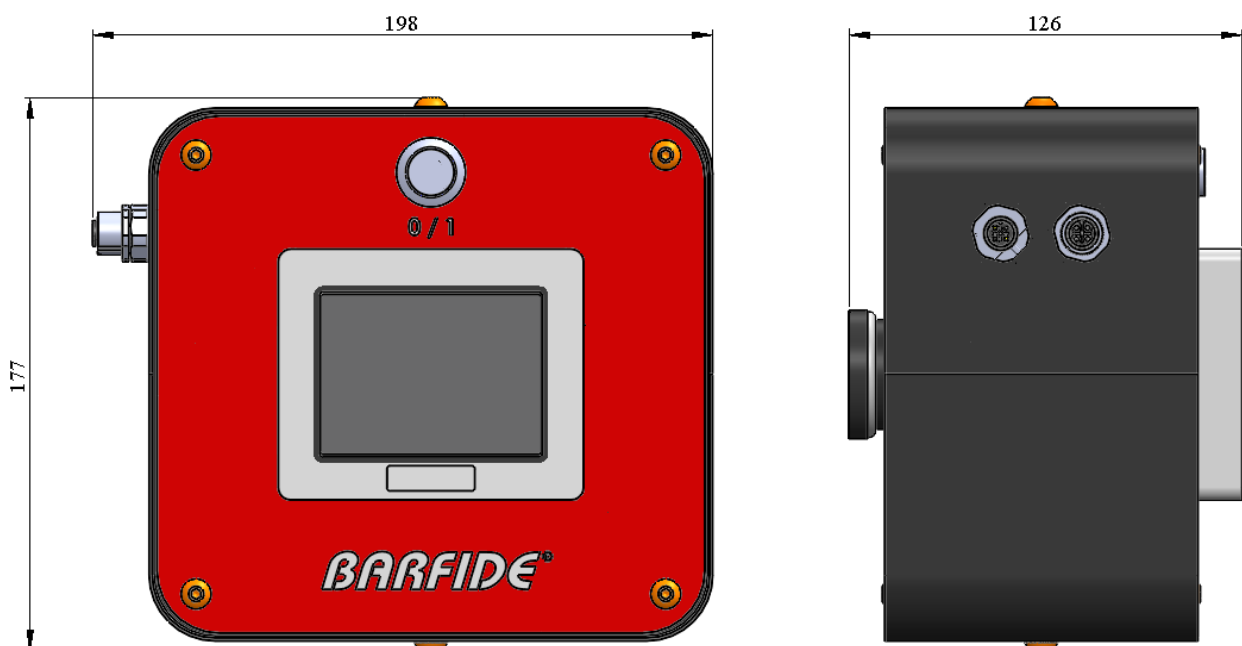
The product is tested and runs for 48 hours in the company before being shipped.

5.1.4 Transport – Packaging

The TLB can be moved manually.

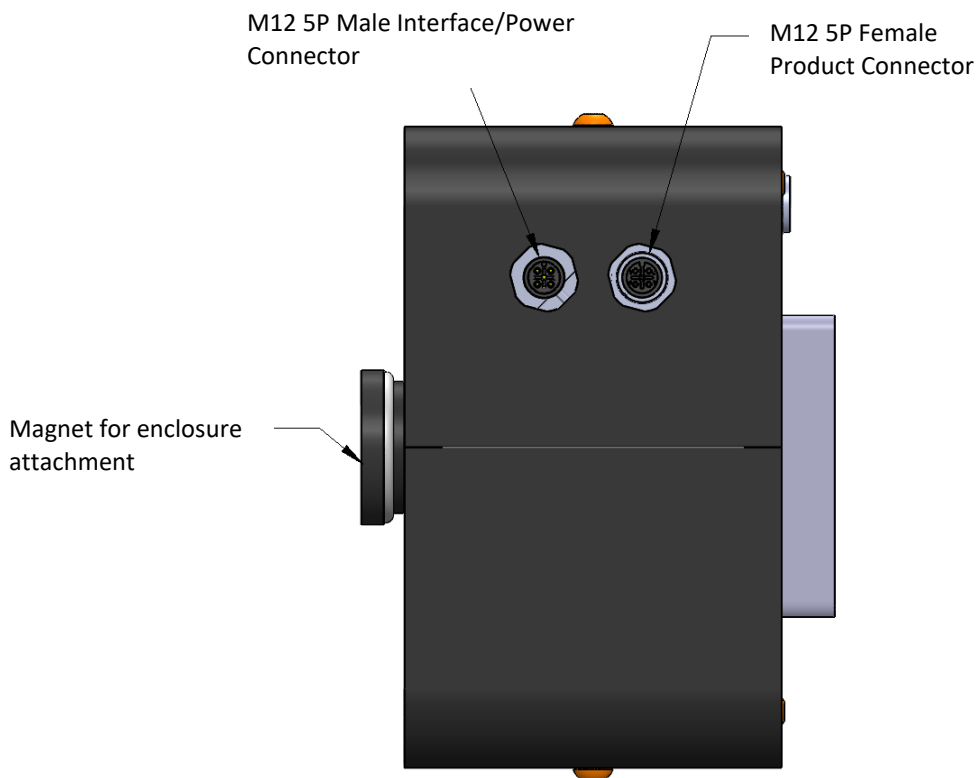
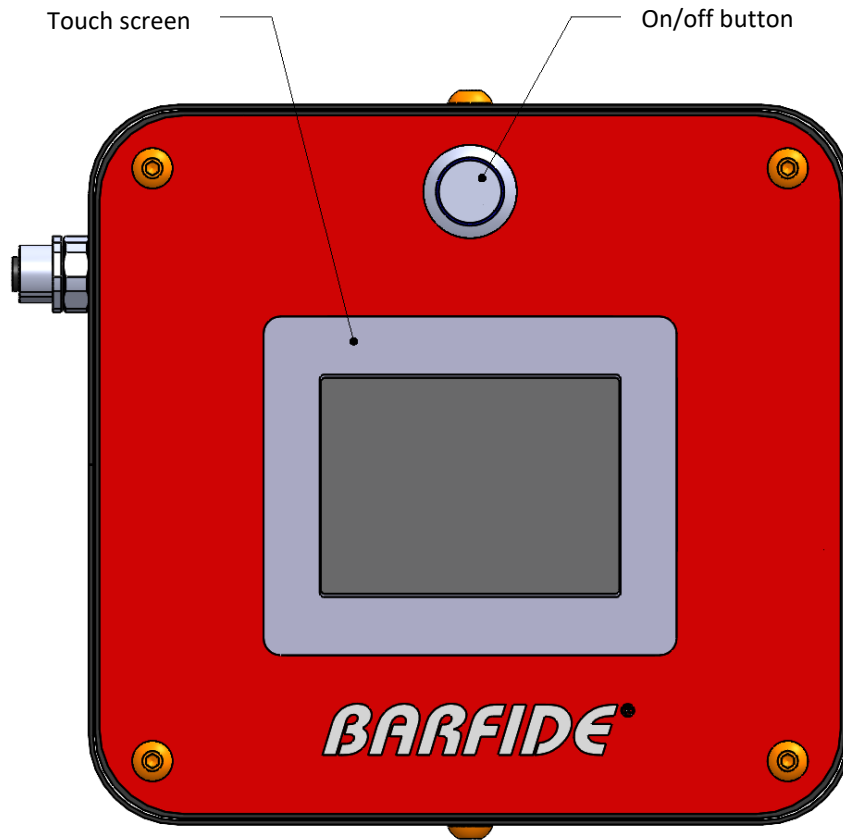
5.1.5 Overall Product Size

Taille globale TL.T	
Overoll size(L*W*H)	198x177x126mm
Weight (kg)	1,8 Kg



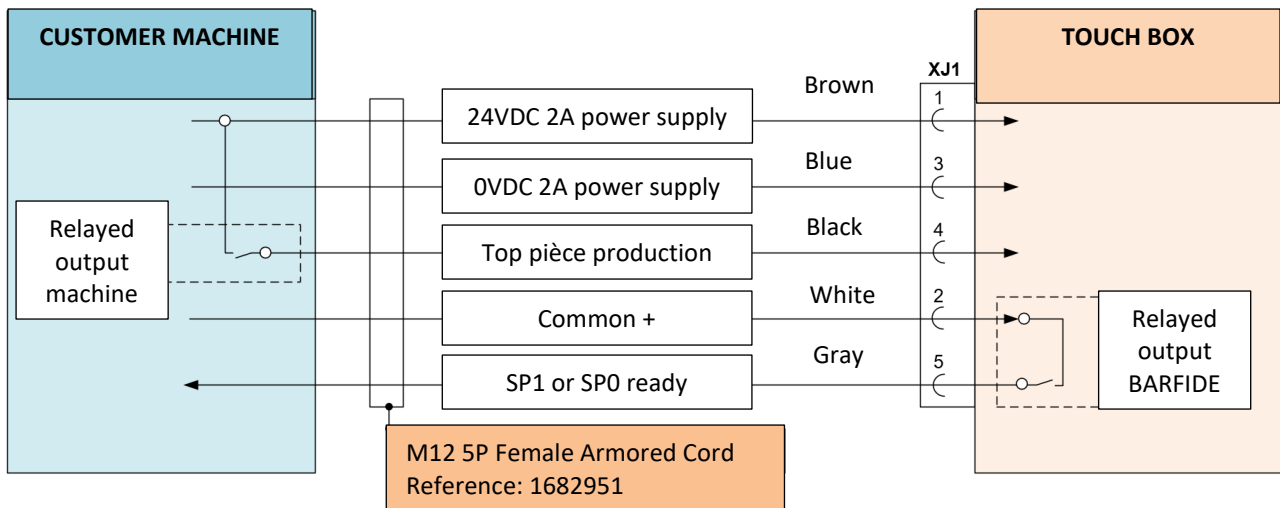
Product dimensions

6 PRODUCT DESCRIPTION



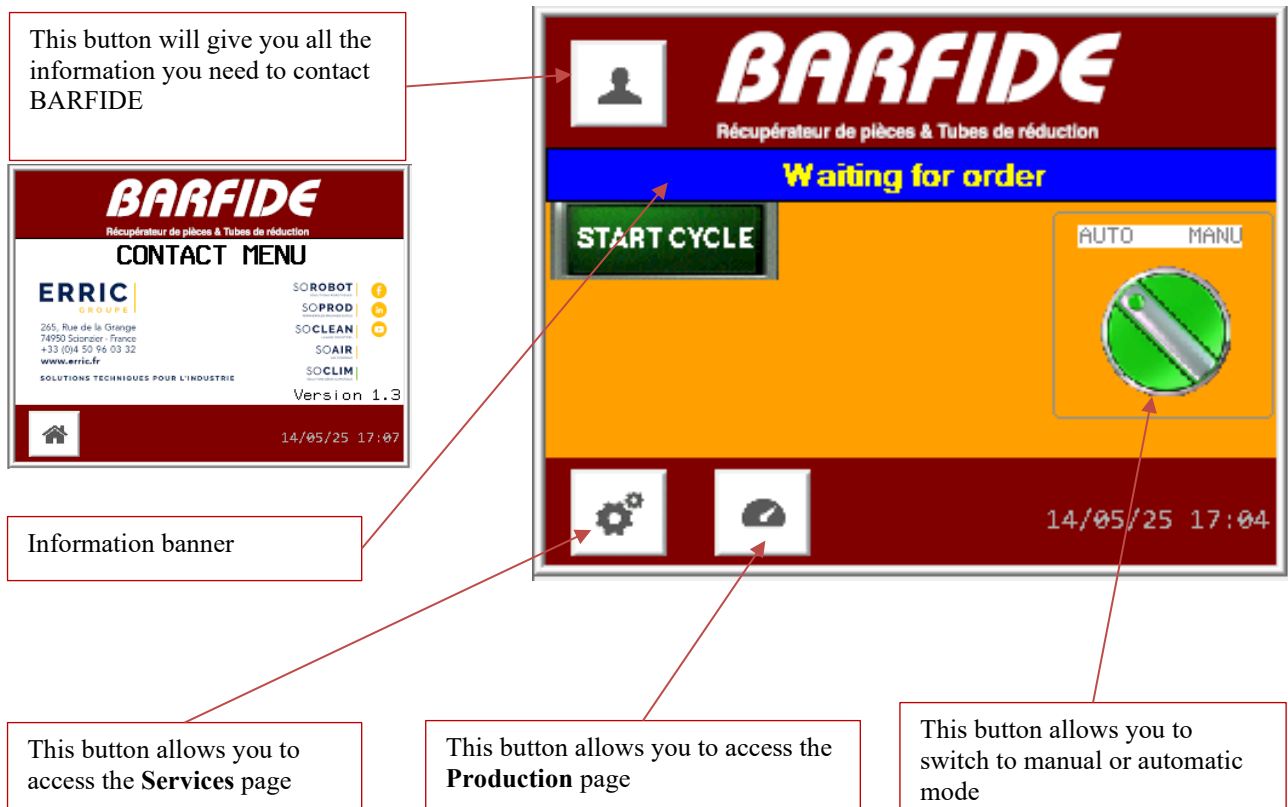
Product description

7 ELECTRICAL DIAGRAM



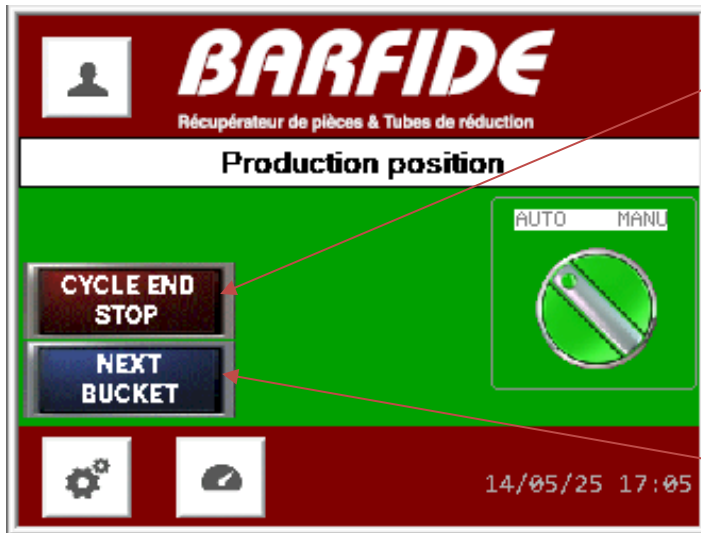
8 OPERATOR / MACHINE DIALOGUE

8.1 Main screen



8.2 Manual and automatic mode

To start the automatic mode, turn the button to AUTO and press the START CYCLE button.



This button stops the cycle


This button allows you to **force** the rotation of the tray to the next bucket.

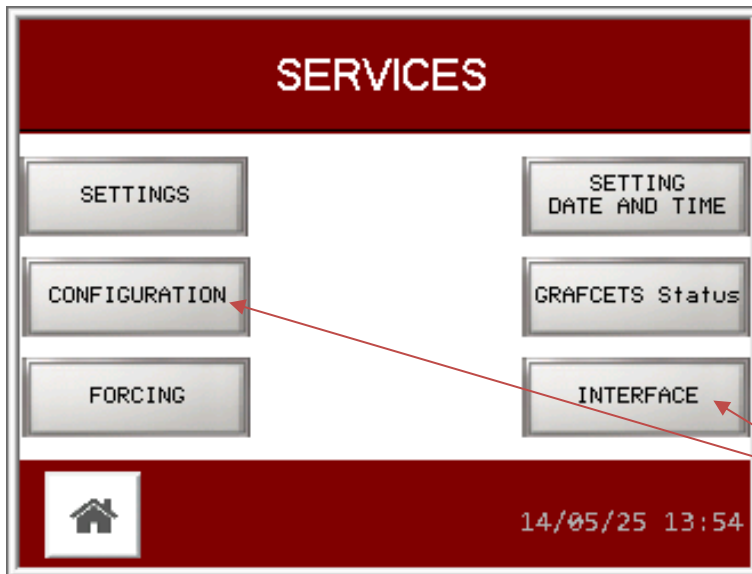
NOTE: In platter full off mode. When the tray is almost full, the display flashes green/orange before pausing the automatic mode and sending error information to the machine (if interfacing with the machine).

When you put the button on MANU the automatic cycle stops and the following page appears:




8.3 Services

The button  takes you to the page below:

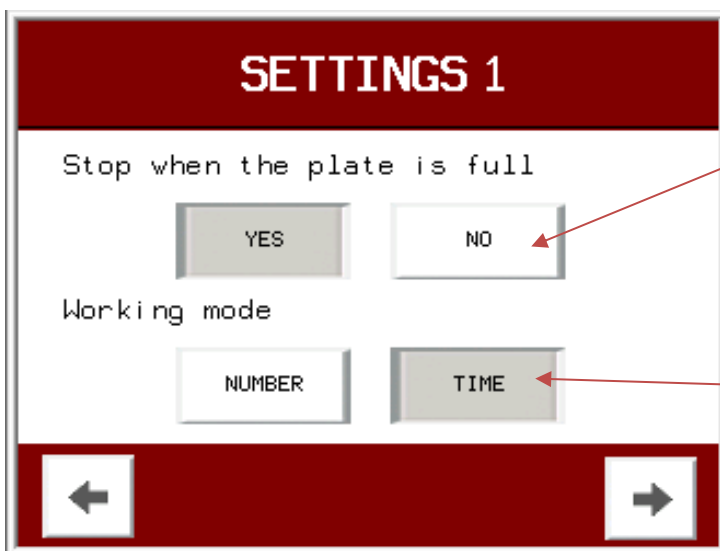


These menus are reserved for **BARFIDE staff**, they allow access to the maintenance pages.

The button  returns to the main screen.

8.4 Settings


The button  takes you to the page below:




By pressing **YES**, the SP0 or SP1 will stop if all containers are full. An error information is sent to the machine (if interfaced with the machine).

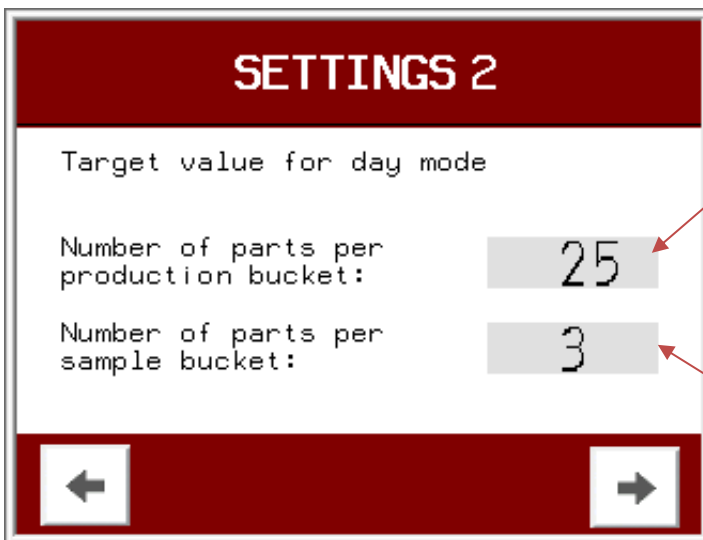
The **NUMBER** mode allows you to count the number of parts using machine information (M code or part presence sensor on the machine conveyor). To do this, the TLT box must communicate with your machine.

The **TIME** mode allows you to count the number of parts according to the defined cycle time.

The button  allows you to go to the next page.

The button  allows you to return to the previous page.

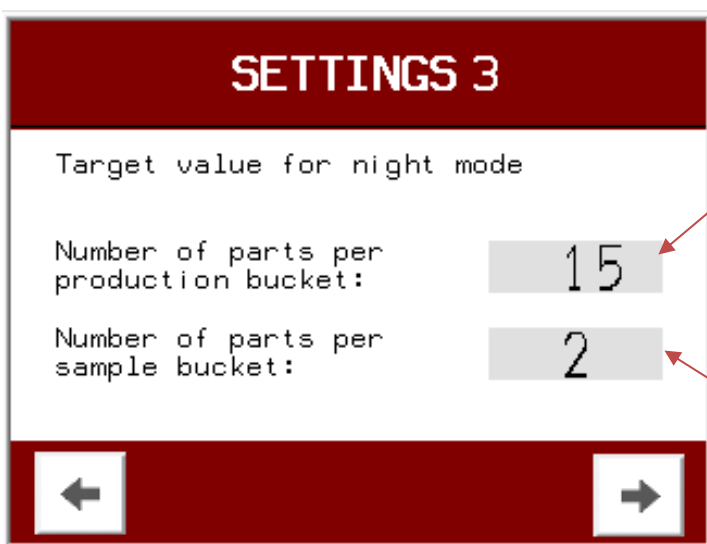
8.4.1 Number mode



The screenshot shows a screen titled "SETTINGS 2" with a dark red header. Below the header, the text "Target value for day mode" is displayed. There are two input fields: "Number of parts per production bucket:" with the value "25" and "Number of parts per sample bucket:" with the value "3". At the bottom of the screen, there are two navigation buttons: a left arrow on the left and a right arrow on the right.

This box allows you to set the **number** of parts in the **production compartment** for the “**day**” configuration.

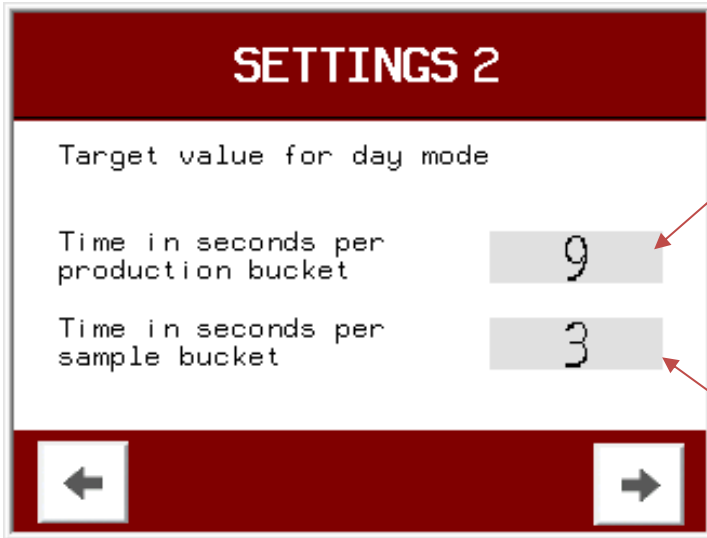
This box allows you to set the **number** of parts in the **sample compartment** for the “**day**” configuration.



The screenshot shows a screen titled "SETTINGS 3" with a dark red header. Below the header, the text "Target value for night mode" is displayed. There are two input fields: "Number of parts per production bucket:" with the value "15" and "Number of parts per sample bucket:" with the value "2". At the bottom of the screen, there are two navigation buttons: a left arrow on the left and a right arrow on the right.

This box allows you to set the **number** of parts in the **production compartment** for the “**night**” configuration.

This box allows you to set the **number** of parts in the **sample compartment** for the “**night**” configuration.

8.4.2 Time mode

SETTINGS 2

Target value for day mode

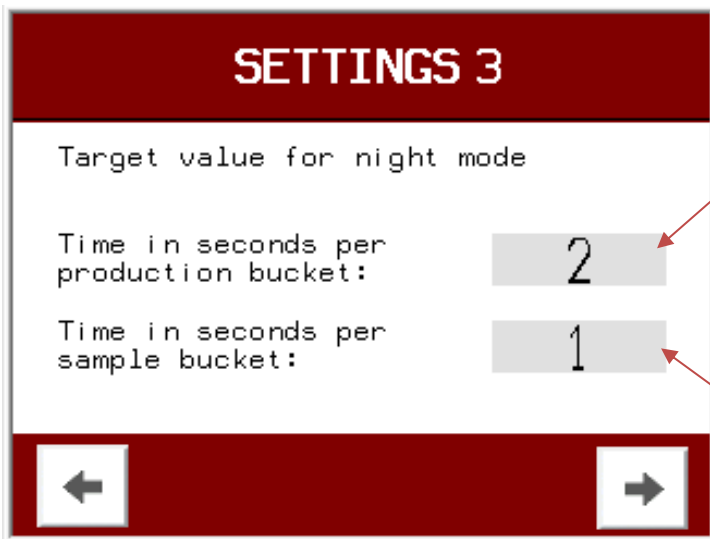
Time in seconds per production bucket: 9

Time in seconds per sample bucket: 3

Navigation arrows: ← →

This box allows you to set the total time for a **production compartment** for the “**day**” configuration.

This box allows you to set the total time for a **sampling compartment** for the “**night**” configuration.



SETTINGS 3

Target value for night mode

Time in seconds per production bucket: 2

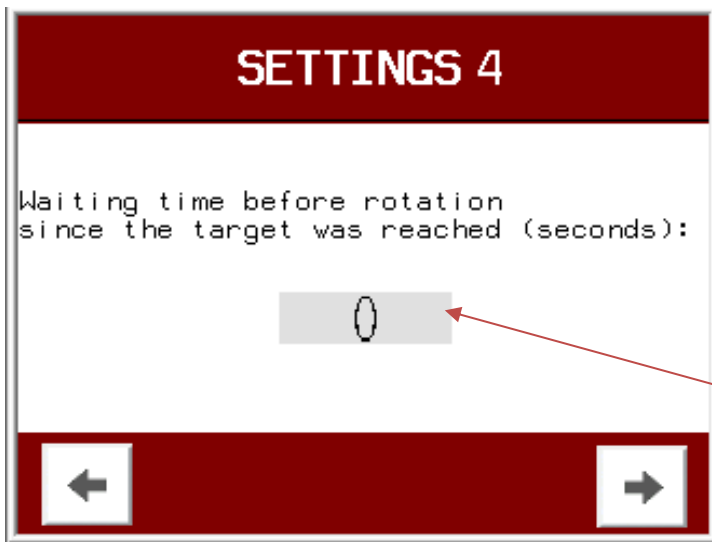
Time in seconds per sample bucket: 1

Navigation arrows: ← →

This box allows you to set the total time for a **production compartment** for the “**day**” configuration.

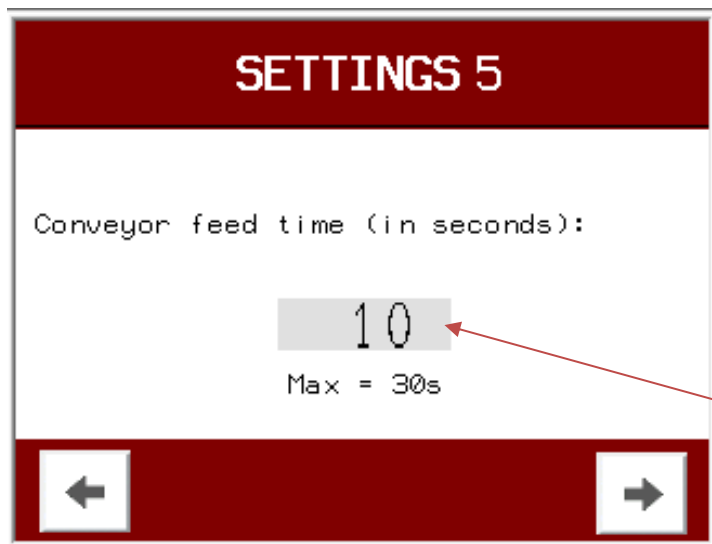
This box allows you to set the total time for a **sampling compartment** for the “**night**” configuration.

NOTE: For the **TIME mode**, you must enter the time (in seconds) for the production and sampling compartment. So if the part has a cycle time of 11 seconds and you want 9 and 4 parts respectively in the production and sampling compartment, you have to fill in 99 and 44 seconds.




This box allows you to set the waiting time before the plate rotates. This time delay allows you to manage the time lag between sending the M code and receiving the part in the SP0 or SP1.

The “setting 5” page appears if the TLT box is configured with a conveyor (configuration by Barfide). This configuration is necessary if there is a conveyor between the machine output and SP0 or SP1.

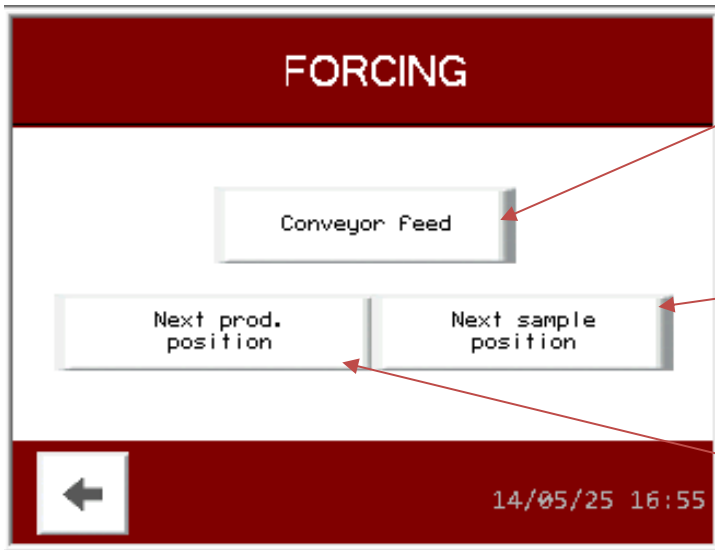


This box allows you to enter the time it takes for the part to travel along the conveyor, if a conveyor is added between the machine exit and SP0/SP1.

The button  allows you to return to the services page.

8.5 Forcings


The button  takes you to the page below:



This button allows you to advance the conveyor by the time delay value entered in "Settings 6"

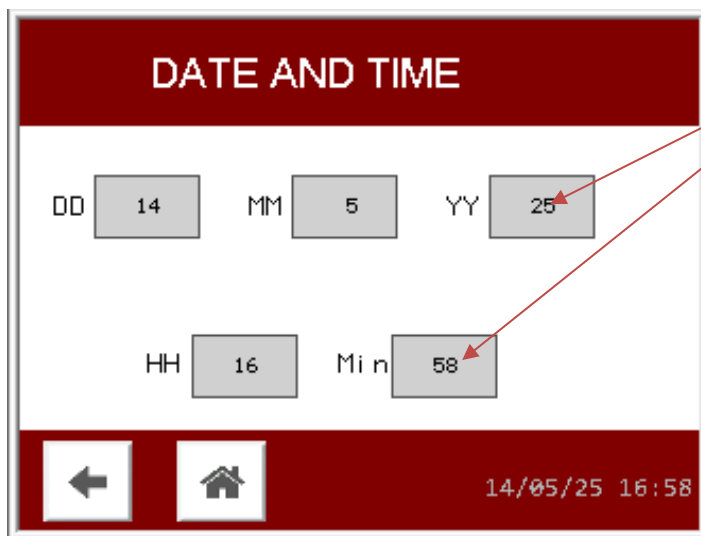
This button is used to position the next sampling compartment under the chute

This button allows you to position the next production compartment under the chute



The button  allows you to return to the services page.

8.6 Date and time setting

The button  takes you to the page below:

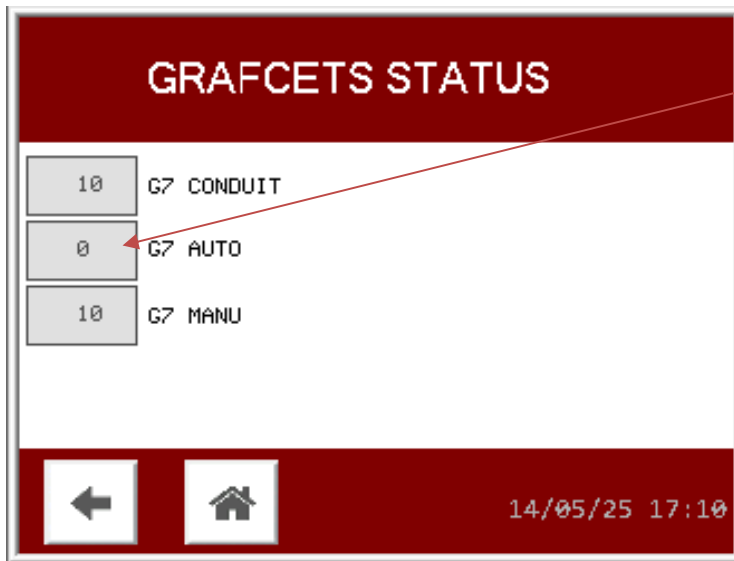


Enter the date and time



The button  returns to the previous screen and the button  returns to the main screen.

8.7 Condition of the grafkets


The button  takes you to the page below:

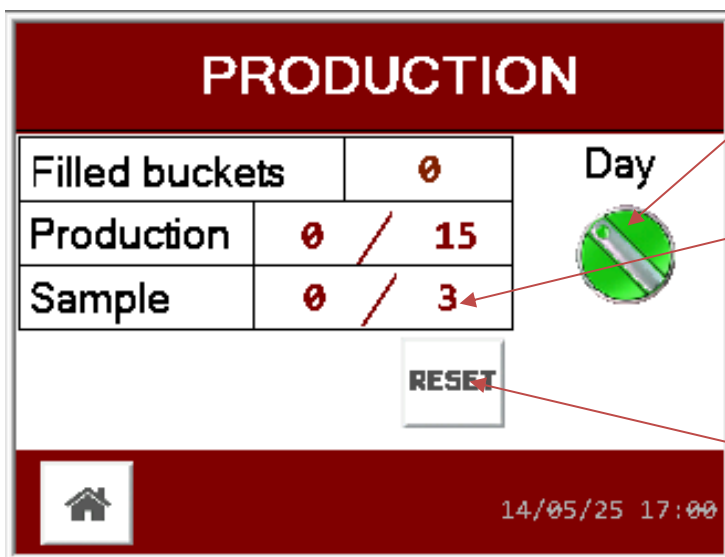


Visualization of active steps of corresponding grafkets. Useful for debugging.

The button  returns to the previous screen and the button  returns to the main screen.

8.8 Production


The button  takes you to the page below:



Select the desired production mode: **Day** or **Night** (here Day selected)

This display allows you to view the number of parts currently in the sampling or production compartment, compared to the value previously entered.

The RESET button resets the number of filled buckets. If the number of filled buckets is 0, the RESET button resets the values of the bucket currently being filled.

The button  returns to the main screen.

8.9 Error messages



If one of these pages appears, you must go to the forcing page and test the rotation by pressing one of the two buttons.

If the fault persists, contact the BARFIDE company (contact page on the home screen)

9 REMOTE CONTROL SETUP

The remote control is equipped with a magnet for attachment to the machine. Its position is configurable according to the references below:

- Magnet on the top of the remote control
Ref: TL. B.AH
- Magnet on the underside of the remote control
Ref: TL. B.AB
- Magnet on the back of the remote control
Ref: TL. B.AA

The electrical connection is configurable according to the references below:

- Power cable kit (M12 5-pole female cable length 5m)
- Internal power supply kit (Power supply 24V 2.5A / M12 bulkhead pass / M12 5-pole female cable 5m long / M12 5-pin female and male connector 3m long)
- External power supply kit (Cable with a 24V transformer and 220V socket 2m long)

10 MAINTENANCE

Weekly cleaning of the case with a dry cloth.

BARFIDE

Parts collector & Reduction tubes



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