

# VOH IV

## User Guide



## Table of content

<b>1</b>	<b>General</b> .....	<b>2</b>
1.1	Warranty.....	2
1.2	Security informations.....	2
1.3	Transport.....	3
1.4	Storage.....	3
<b>2</b>	<b>Specifications</b> .....	<b>3</b>
<b>3</b>	<b>First use</b> .....	<b>4</b>
3.1	Get started.....	4
3.2	Standard Display.....	5
3.2.1	Navigation (upper left corner).....	5
3.2.2	Notification block (upper right corner).....	5
3.2.3	« Correction » block (upper center).....	5
3.2.4	« Temperature » block (lower center).....	5
3.3	Working progress.....	6
<b>4</b>	<b>Settings when changing pallet fork type</b> .....	<b>9</b>
4.1	Adjusting the stop.....	9
4.2	Adjusting the clamping force of the pallet clamp.....	9
4.3	Adjustment of the pallet fork locking force.....	10
<b>5</b>	<b>Details of the user interface</b> .....	<b>11</b>
5.1	Selection of the user type.....	11
5.2	Display settings.....	11
5.3	Device settings.....	12
5.4	The Preset function.....	13
5.4.1	Operator home screen with Preset function.....	13
5.4.2	Administrator home screen with Preset function.....	14
5.5	Link references to different types of pallet forks (Preset mod activated).....	16
5.5.1	Bluetooth scanner activation.....	16
5.5.2	Link a reference.....	17
<b>6</b>	<b>Safety measures</b> .....	<b>18</b>
<b>7</b>	<b>Disclaimer of liability/warranty</b> .....	<b>19</b>
<b>8</b>	<b>Maintenance and service</b> .....	<b>19</b>
<b>9</b>	<b>Representation / Distribution</b> .....	<b>19</b>

### Suivis des modifications :

Ver.	Date	Rédigé	Modifications	IHM	Validé
V1.0	19.09.2022	<u>LPE</u>	EN creation based on FR version		<u>LPE</u>

User Guide updated on website : <https://voh.ch/service-clients/>

# 1 General

## 1.1 Warranty

VOH SA guarantees this product against any manufacturing or material defect under normal conditions of use and service, for a period of two years from the date of commissioning by the customer. If at any time during the warranty period, the product is found to be defective or fails, VOH SA will repair or replace it (at VOH SA's option). If the product is defective, call VOH Customer Service at +41(32) 945 17 45.

The warranty does not apply if VOH SA proves that the defect or failure is due to improper use of the equipment. The product is equipped with warranty seals. Any breakage or rupture of these seals will result in the cancellation of the warranty.



Figure 1: Warranty Seals

VOH SA's liability is limited to the repair or replacement of the product under the conditions set forth above. IN NO EVENT SHALL VOH SA BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER, INCLUDING CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM ANY BREACH OF WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. THIS WARRANTY IS THE ONLY EXPLICIT WARRANTY THAT VOH SA MAKES ON THIS PRODUCT.

This warranty covers the original purchaser only and is not transferable.

If you have any questions regarding this warranty, write to VOH SA :

VOH SA  
La Praye 5a  
CH-2608 Courtelary

Phone : +41(32) 945 17 45  
Fax : +41(32) 945 17 55  
e-Mail : customer-service@voh.ch  
Internet : <http://www.voh.ch>

## 1.2 Security informations

### Warning

- Do not use the VOH IV if it is damaged. Before using the VOH IV, inspect its housing and electrical connections.
- The VOH IV should be used according to the manufacturer's instructions.
- Do not use the VOH IV in a dirty environment.
- The VOH IV should only be used by trained personnel.
- **Caution!!!**
- Please read the information in this manual before using the equipment. Incorrect use may damage the system or cause incorrect results.
- Do not disassemble the equipment. Only the manufacturer reserves the right to replace or repair a defective component.
- Use this device at a temperature between 10°C and 40°C (140°F) Don't use the VOH IV if it is damaged. Before usage *VOH IV*, inspect the box and electrical connections.

	<b>VOH SA</b>	GU-04-06-01
	<b>VOHIV 4.0 – User Guide</b>	Version 1.1
		09.2022
		Page 3 / 20

## 1.3 Transport

This device is not intended for frequent transport. If it is necessary to move it, please take care not to cause any shocks that could damage the mechanics of the device. Also, in case of transport over a long distance, use a packaging that protects against shocks.

## 1.4 Storage

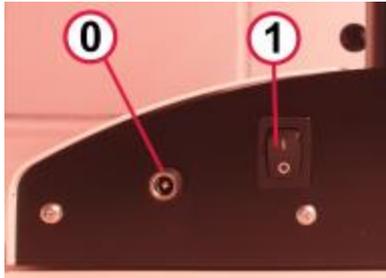
VOH IV should be stored in a dry and dust-free place. The storage temperature should be between 10°C and 40°C. It is highly recommended to cover the device to protect it from dust and moisture.

# 2 Specifications

- Shifting of the pallets on the same axis
- Bi-directional correction ⇄
- Precision of the correction  $\pm 1\mu\text{m}$
- Adjustable clamping force
- Adjustable heater from 50 – 160°C increases of 5°C
- Vision by binocular LEICA
- Lightening LED
- Usable for every current typ of pallets
- temperature selector and offset positions, pre-programable
- Colorfull touchscreen Display
- Master switch ON / OFF
- Power supply via transformer 230 VAC / 24 VDC
- Improved design and ergonomics
- Can be connected to a 2D barcode reader
- Compatible to LINKiX

### 3 First use

#### 3.1 Get started

Display VOH IV	Comments	Device
	After plugging in the power supply on the Plug-in location (0), Power on the device by switching the power switch (1)	
	Adjust the sharpness of the binocular LEICA by using the knob 12. The zoom can be adjusted by using the knob 13. (adjustment of the LED lightning, see chapter 6.3)	
	Adjust and choose the temperature as you wish, with the 2 touchscreen buttons.	

We suggest two different temperatures:

- 75°C (167°F) for pallets with traditional shellac.
- 120°C (248°F) for current pallets.

## 3.2 Standard Display

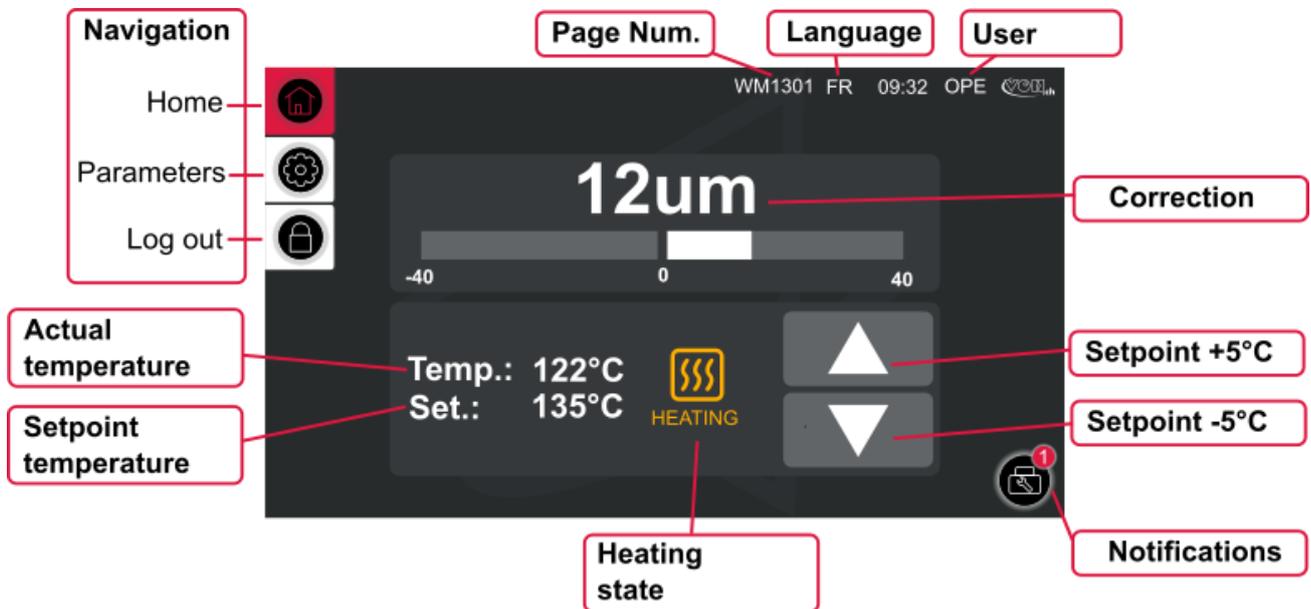


Figure 2: VOH IV, Home screen (WM1301)

### 3.2.1 Navigation (upper left corner)

To navigate through the different pages of the device, use the icons in the upper left section. The red icon indicates the current page, while the white icons allow access to other pages.

### 3.2.2 Notification block (upper right corner)

- - Page number: each page is identified with a unique code of type WM13XX. This makes troubleshooting easier.
- - The currently selected language is indicated (FR, DE, EN)
- - The currently selected user is indicated. If it is an operator (OPE) or an administrator (ADM). The administrator has broader rights than an operator

### 3.2.3 « Correction » block (upper center)

This block indicates the current correction in um using numbers as well as a bar graph.

### 3.2.4 « Temperature » block (lower center)

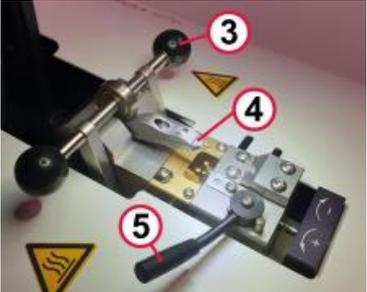
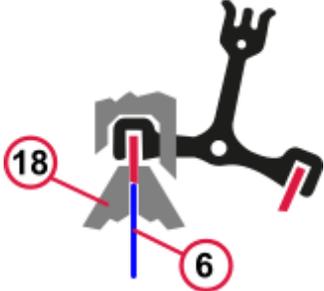
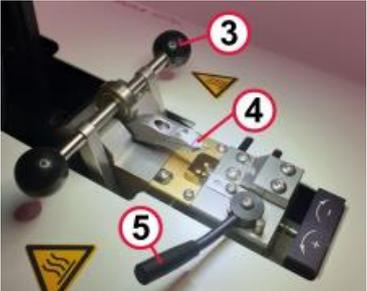
This block is linked to the management of the device's temperature.

- "Temp": Measured temperature
- "Set": Setpoint temperature
- Icon in the center:
  - Orange: heating in progress
  - Green: setpoint temperature reached, pallets correction possible
  - Flashing red: temperature too hot, above the setpoint. Do not place any pallets. Wait until the light turns green.
- Up/Down button: selection of the temperature in 5°C (41F) increments.

### 3.3 Working progress

#### DISCLAIMER

The operating temperature of the device is over 100°C (212°F), the risk of burning yourself is real, we recommend you to be very careful and never touch the device with bare hands when it is switched on! Before any intervention, you must switch off the device by its main switch (1), remove the power supply plug (15) and wait 30 minutes so the unit cools down.

Display VOH IV	Comments	Device
	<p>The warm-up time is approx. ~25 min. It must be observed, the status indicator turns GREEN when the temperature is reached.</p>	
	<p>Push the rolling clamp (3) against the rear so that the support (4) is raised.</p> <p><b>⚠ CAUTION: Never operate the eccentric lever (5) of the lifting clamp when the clamping support (4) is in the down position..</b></p>	
	<p>Open the lifting clamp with the eccentric lever (5)</p>	
	<p>Insert the pallet fork (fork side up) by engaging one pallet to be adjusted in the clamp (18) and press it lightly against the stop (6), located between the two jaws.</p> <p>Note: when using for the first time or when changing the type of pallet, the stop must be adjusted, see: Chapter 4.1.</p>	
	<p>Close the clamp with the eccentric lever (5).</p> <p>Note: When using for the first time or when changing the type of a pallet fork, the clamping force of the clamp must be adjusted, see: Chapter 4.2.</p>	

**VOHIV 4.0 – User Guide**

	<p>Set the digital number on the display to 0, by using the adjustment wheel (10)</p>	
	<p>Lock the pallet fork by gently moving the rolling clamp (3) against the front until it stops.</p> <p>Note: When using for the first time or when changing the type of pallet fork, the locking force of the rolling clamp (3) can be adjusted, see: Chapter 4.3</p>	
	<p>By turning the carriage displacement wheel (10) you can move the pallet by the desired amount. The displacement value can be read on the digital display. It is recommended to go 2-3µm beyond the desired value and then go back, in order to avoid the spring effect of the glue.</p>	
	<p>Release the pallet fork by gently pushing the rolling clamp (3) backwards with both hands.</p>	
	<p>Open the lifting clamp by using the eccentric lever (5)</p>	

Gently pull the pallet fork away from the touching elements.

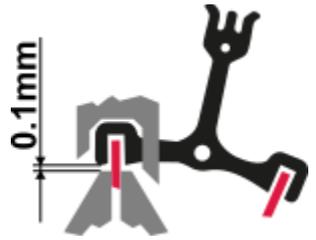
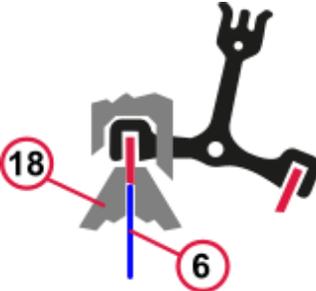
Note: If, during handling, you drop your pallet fork inside the VOH IV, you can retrieve it by removing the recovery tray (16).



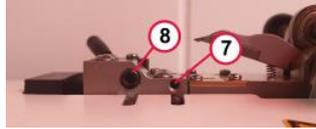
## 4 Settings when changing pallet fork type

Below are the settings to be made the first time or when changing the type of the pallet fork.

### 4.1 Adjusting the stop

Display VOH IV	Comments	Device
	This stop must be adjusted to a gap of ~ 0.1 mm between the body of the pallet fork and the end of the clamp. To perform this adjustment, the device (VOH IV) must be cold.	
	Place the pallet fork and observe it's position.	
	Unlock the screw (7) with an allen key 1.5 mm	
	Adjust the stop (6) in the required position.	
	Lock the screw (7)	

### 4.2 Adjusting the clamping force of the pallet clamp

Display VOH IV	Comments	Device
	<p>The force of the pallet clamp can be adjusted by turning the regulation screw (8) with an allen key 2.5mm</p> <p>↻ = increase in force</p> <p>↺ = decrease in force</p>	

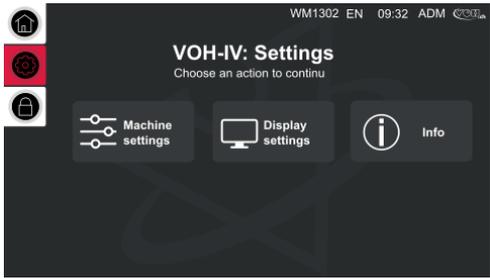
	<b>VOH SA</b>	GU-04-06-01
	<b>VOHIV 4.0 – User Guide</b>	Version 1.1
		09.2022
		Page 10 / 20

### 4.3 Adjustment of the pallet fork locking force

Display VOH IV	Comments	Device
	<p>The locking force of the pallet fork, can be adjusted by screwing (↻) or unscrewing (↻) the adjustment screw (11) located at the back of the mechanical block.</p>	

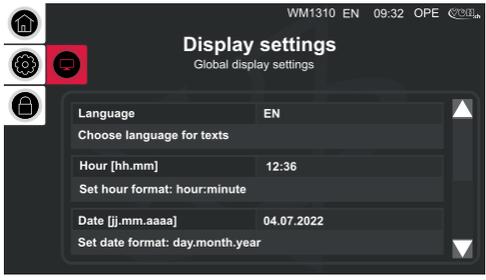
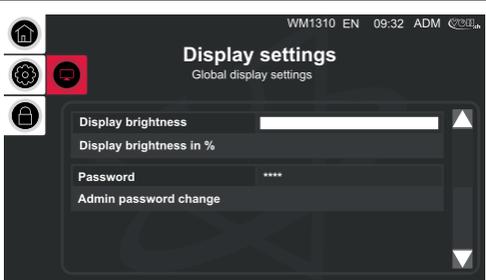
## 5 Details of the user interface

### 5.1 Selection of the user type

Display VOH IV	Comments	Device
	<p>From the home screen (WM1301), click on the bottom navigation icon.</p> <p>If the current user is « Operator », the administrator password will be requested.</p> <p>If the current user is « Administrator », the user will change to « Operator ».</p>	
	<p>Enter the administrator password with the keyboard on the screen.</p> <p>The standard password for the administrator is: « 1234 ».</p>	
	<p>Once you enter the correct password, the page for settings as « Administrator » appears.</p> <p>On « Administrator » mode, the button « Device settings » is available. On « Operator » mode, this is not the case.</p>	

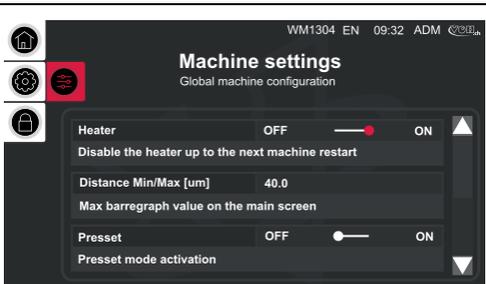
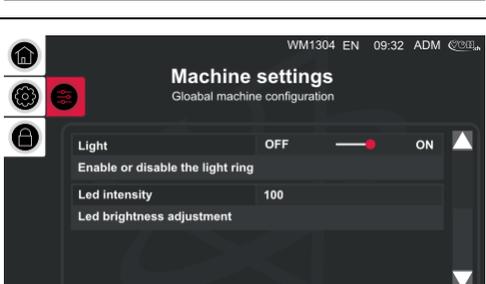
### 5.2 Display settings

Display VOH IV	Comments	Device
	<p>From the « Settings » page (WM1302), click on the button « Display settings »</p>	

	<p>The page WM1310 opens. It's possible to :</p> <ul style="list-style-type: none"> <li>- Set the language</li> <li>- Set the clock</li> <li>- Set the date</li> </ul> <p>ADM or OPE, It's the same page.</p>	
	<p>By clicking on the down pointing arrow, the second half of the page appears.</p> <ul style="list-style-type: none"> <li>- Display brightness</li> <li>- As ADM : changing password for the « Administrator »</li> </ul>	

### 5.3 Device settings

The device settings are only available on « Administrator » mode.

Display VOH IV	Comments	Device
	<p>From the page « Settings » (WM1302), click on the button « Device settings »</p>	
	<p>Heater : it's possible to disable the heater until the next restart of the machine.</p> <p>Distance Min/Max : adjustment of the bar-graph for minimum or maximum value, shown on the Home Screen.</p> <p>Preset : enable or disable the « Preset » function. see chapter 5.4</p>	
	<p>By clicking on the down pointing arrow, the second half of the page appears :</p> <p>Light : enable or disable the light ring.</p> <p>LED intensity : If the light is « ON », you can adjust the brightness of the LED by 0 to 100 %.</p>	

## 5.4 The Preset function

The Preset function allows savings from multiple types of pallet forks. Each type of pallet fork, can be saved with a specific temperature as well as a preset position for the O.

To enable this fonction, see chapter 5.3

### 5.4.1 Operator home screen with Preset function

With Preset function enabled, an operator can select different types of pallet forks but is not allowed to change temperature or the position for the O.

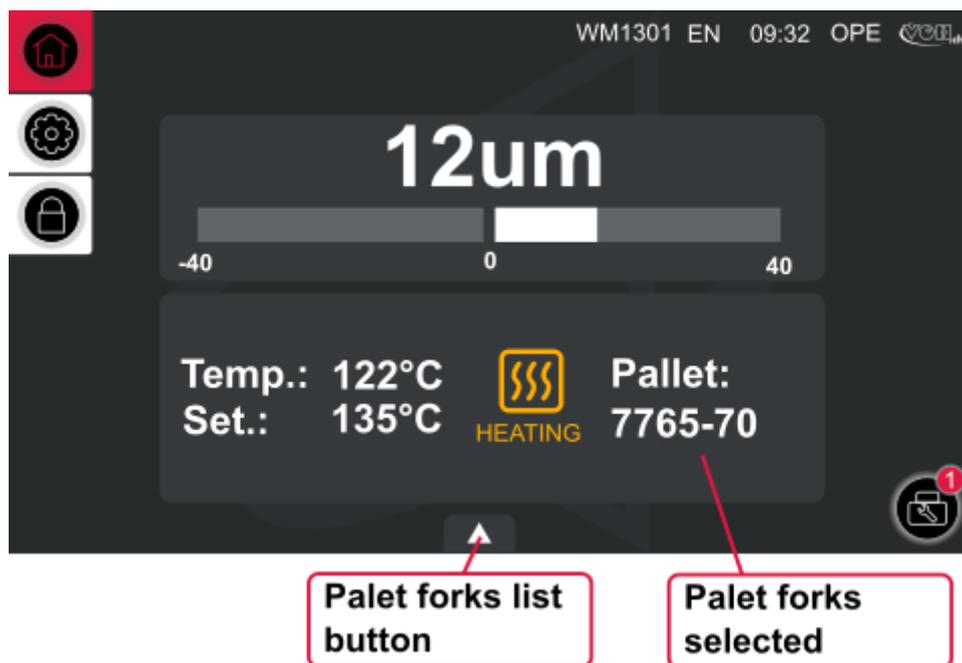
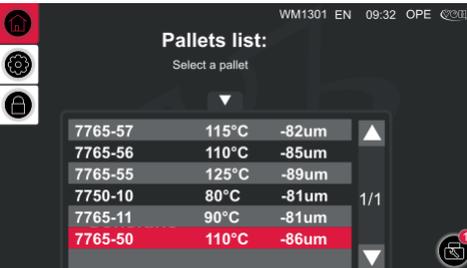


Figure 3: VOH IV, OPE home screen with preset function enabled (WM1301)

#### 5.4.1.1 Select a pallet fork

Display VOH IV	Comments	Device
	<p>On « home screen » (WM1302), click on the bottom center button.</p>	
	<p>A list of different types of available pallet forks appears. Simply click on any type of pallet fork and the presets will load. Ready for work.</p>	

### 5.4.2 Administrator home screen with Preset function

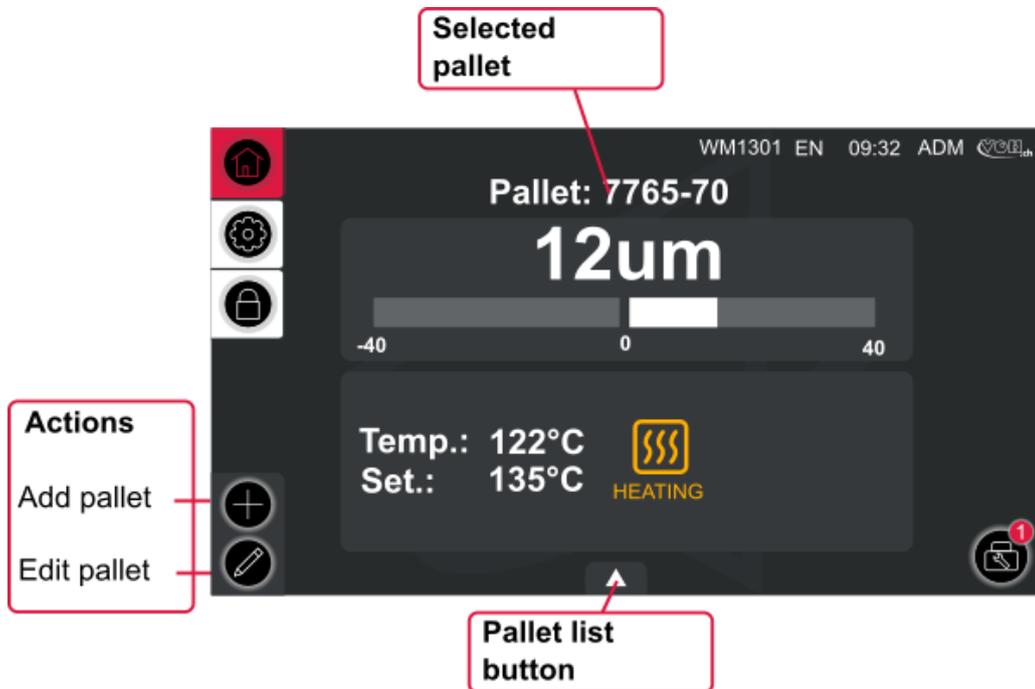
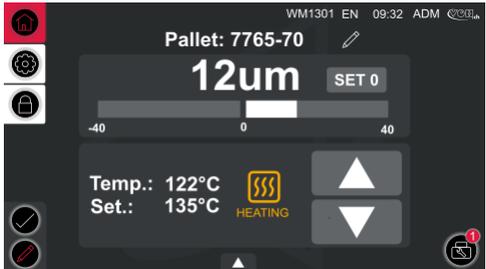
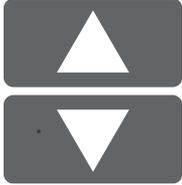


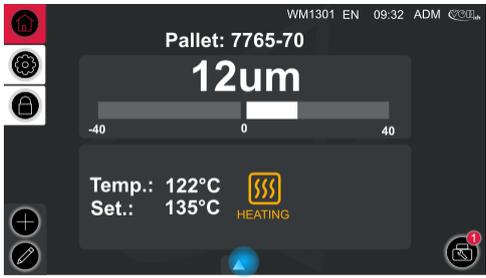
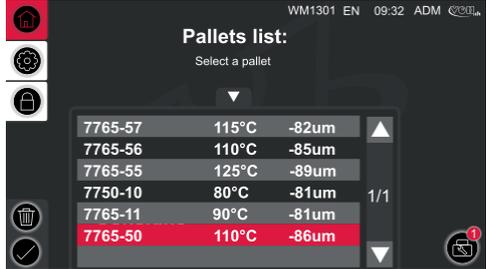
Figure 4: VOH IV, ADM home screen with preset function enabled (WM1301)

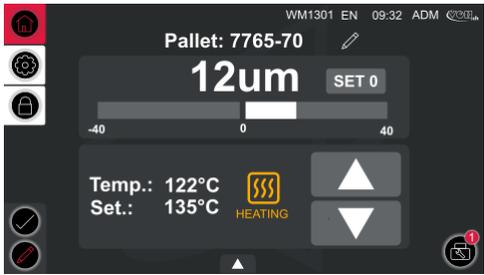
#### 5.4.2.1 Add a pallet fork

Display VOH IV	Comments	Device
	<p>On « home screen » (WM1302), click on the « plus » button in the lower left corner.</p>	
	<p>Choose a name for the type of pallet fork you want to add. A Keyboard will appear. (you can type max. 20 characters) Confirm with the « Check » button.</p>	
	<p>The page with the type of pallet fork appears.</p>	

	<p>The button « SET 0 » allows to take the actual position as the new 0 position to work with.</p>	
	<p>As in standard mode, these 2 buttons allow to select the working temperature by steps of 5°C.(41°F)</p>	
	<p>Once the pallet fork is edited, just save it with the « Check » button.</p>	

#### 5.4.2.2 Edit or delete a pallet fork

Display VOH IV	Comments	Device
	<p>On « home screen » (WM1302) on ADM mode, click on the bottom center button to show the list of pallet forks.</p>	
	<p>Select the pallet fork to edit or delete.</p>	
	<p>To delete, click on the « Trash » button. To Select a pallet fork, click on the the « Check » button.</p>	

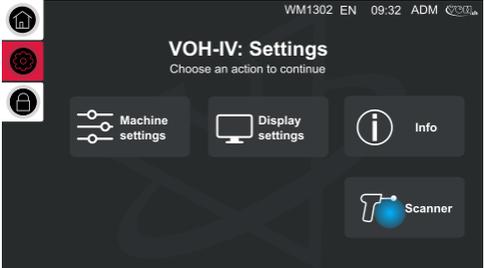
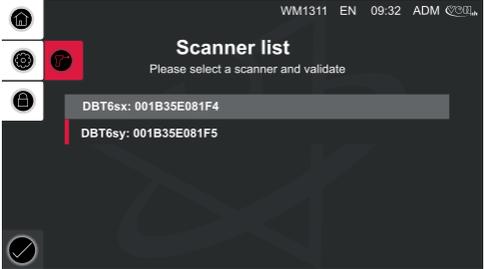
	<p>Once the pallet fork selected, click on the « Edit » button.</p>	
	<p>The editing page from the selected pallet fork appears. It's possible to change the name by clicking it. To save, click on the « Check » button.</p>	

## 5.5 Link references to different types of pallet forks (Preset mod activated)

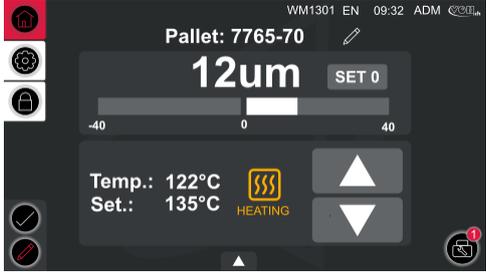
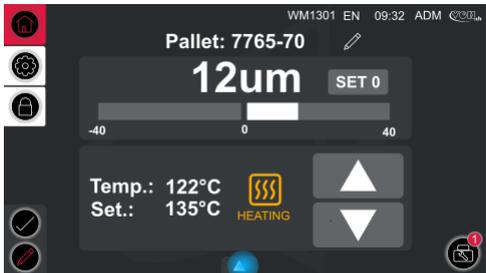
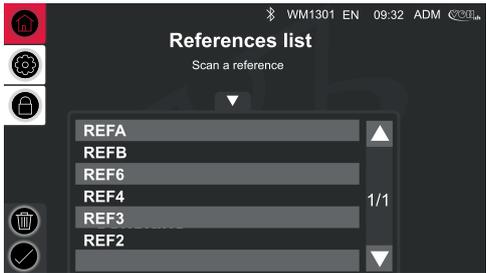
The VOH IV Device allows references to be linked to pallet fork types. These references are scanned via the Bluetooth scanner, and the corresponding pallet fork is automatically loaded.

### 5.5.1 Bluetooth scanner activation

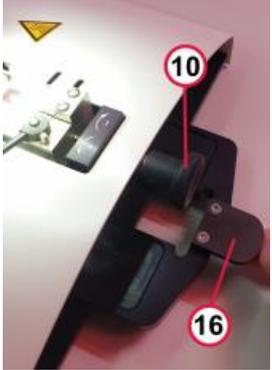
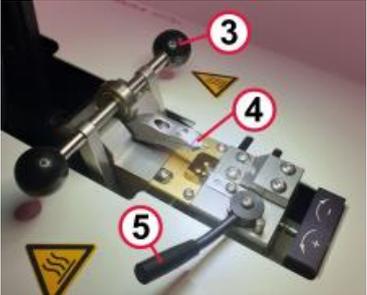
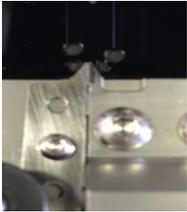
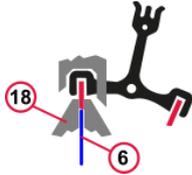
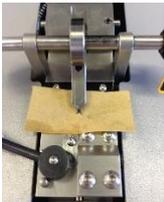
With the preset function enabled, see chapter 5.3 :

Display VOH IV	Comments	Device
	<p>From the « settings » screen (WM1302), click on the « Scanner » button.</p>	
	<p>Follow the procedure shown on screen, choose the scanner to pair with the VOH IV Device.  The MAC address on the right-hand side of the list is engraved on the VOH scanner, delivered by us.</p>	
	<p>Once the scanner is connected, a « Bluetooth » icon appears in the notification block. (upper right corner)</p>	

### 5.5.2 Link a reference

Display VOH IV	Comments	Device
	<p>To Link a reference to one type of pallet fork, begin to edit the selected pallet fork.</p>	
	<p>On the « Home screen » (WM1302) on ADM mode and in edition mode, click on the bottom center button to show the list with references linked to the current pallet fork.</p>	
	<p>Simply scan a reference to add to this list.</p> <p>It's also possible to delete a reference by clicking the « Trash » icon.</p> <p>Caution: Only one reference can be linked to one type of pallet fork. In opposite case, a error message will appear.</p>	

## 6 Safety measures

Display VOH IV	Comments	Device
	Adjust the carriage to approx. +500 µm by using the micrometric screw (10).	
	Close the clamp for the pallet (18) by using the eccentric lever (5).	  
	Place anti-rust paper on the plate and lower the support (4).	

	<b>VOH SA</b>	GU-04-06-01
	<b>VOHIV 4.0 – User Guide</b>	Version 1.1
		09.2022
		Page 19 / 20

## 7 Disclaimer of liability/warranty

The manufacturer does not accept responsibility for damage caused by improper use, transport or storage as described in this manual. Modifications to the device and opening of the housing are prohibited and lead to the exclusion of liability. The warranty claim expires when it is proven that the defects cannot be attributed to the original cause.

## 8 Maintenance and service

To be completed or redirected to corresponding maintenance protocol documents.

## 9 Representation / Distribution




---

**VOH SA** CP66 Z.I La Praye 5a CH-2608 Courtelary info@voh.ch www.voh.ch T+41 (0)32 945 17 45 F+41 (0)32 945 17 55