

VOH IV

User guide



VOH SA

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1 General

1.1 Warranty

VOH SA warrants this product against defects in workmanship or material under conditions of normal use and operation for a period of one year beginning on the date of placing into service by the customer. If at any time during the warranty period, the product is deemed defective or is breaking down, VOH SA will repair or replace it (determined by VOH SA).

If the product is defective, call the VOH after-sales service +41 (32) 945 17 45.

This does not apply if VOH SA shows that the defect or malfunction was caused by damages which occurred while the product was in possession of a buyer.

The responsibility of VOH SA is limited to repair and replace the product under the above mentioned conditions.

VOH SA, SHALL NOT BE RESPONSIBLE FOR LOSS OR DAMAGES WHATSOEVER, INCLUDING CONSEQUENTIAL Or ACCESSORIES DAMAGES FROM DIRECTLY OR INDERECTLY BREACH OF WARRANTY, EXPRESSED OR IMPLIED Or ANY OTHER FAILURE OF THIS PRODUCT.

THIS WARRANTY IS THE ONLY EXPRESSED WARRANTY THAT VOH SA GIVES ON THIS PRODUCT.

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

If you have questions concerning this warranty, please contact VOH SA:

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1.2 Security Information

Warning :

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The operating temperature of the device exceeds 100°C, the burning hazard is real, and we exhort the operator to great caution and recommend to never touching the device with bare hands when it is switched on. Before any intervention, it is compulsory to switch off the device with the main switch (1) and to wait for 30 minutes until all is cooled down.

Attention !!!

- Please read the information contained in this manual before using the device. An improper use may damage the system, cause measurement errors.
- Before connecting the device for the first time, make sure the power supply network matches the one requested by the device.
- In case of longer non-use of the device, disconnect the power cable.
- Do not disassemble the unit. Only the manufacturer is entitled to replace or repair a faulty component.
- Use this device to a temperature between 10° (50° F) and 40° C (104° F)

Caution : The device in your possession is a precision instrument, whose purpose is the moving of the liftings of pallet-stones with an acuteness of about 1/1000 mm (μm). As such, this unit should be treated and handled with the utmost care, and any operation must be performed by an authorised person and trained for this purpose.

1.3 Transport

This device is not intended for frequent transportation. If however it is necessary to shift it, mount the transport handles and make sure not to cause shocks which might damage the mechanics of the device. Likewise, when transported over a long distance, it is preferable to use a packaging protecting well from shocks.

1.4 Storage

The VOH IV- Prod must be stored in a dry place and protected from dust. The storage temperature should be between 10° C (50° F) and 40° C (104° F). For an extended storage, it is advisable to protect the device from dust and humidity.

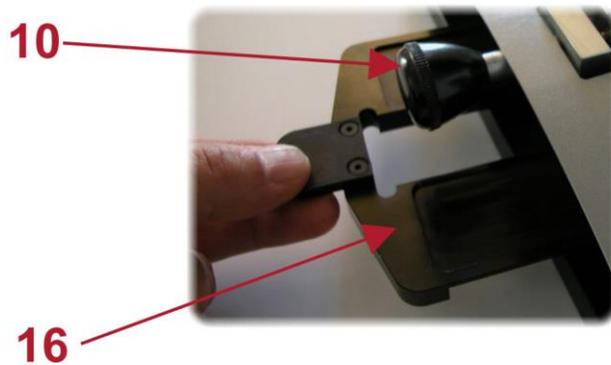
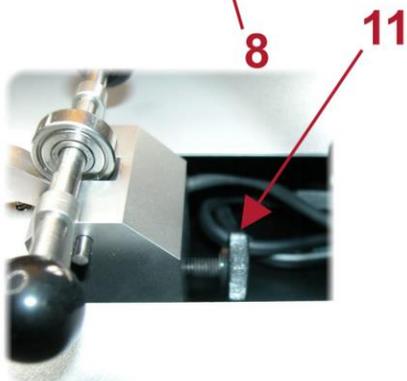
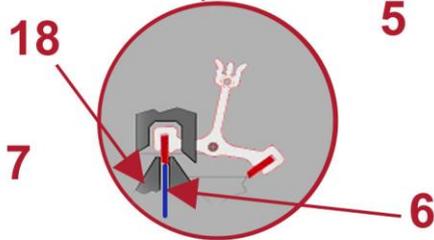
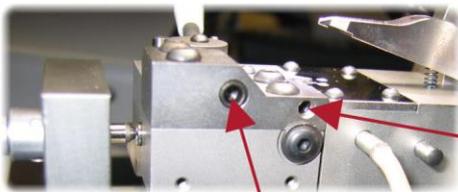
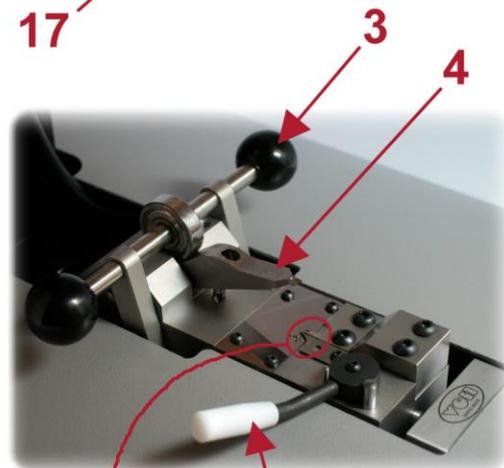
2 Ownership of the device

- Move in the lifting axis
 - Bidirectional correction ↔
 - Accuracy of $\pm 1\mu\text{m}$ for the correction
 - Adjustable clamping force
 - Viewing with Leica binocular
-

**User guide**

- LED lighting
 - Suitable for all types of existing pallet-stones
 - Pre-programmed temperature selector
 - LCD digital display and analog indicator
 - General ON/OFF switch
 - General electric power transformer 230 VAC / 24 VDC
 - Optimized ergonomics and design
-

3 Procedure



1. Start the device through the main switch (1)
2. Adjust the sharpness of the LEICA microscope by turning the knurling wheel (12)
3. Choose the appropriate magnification zoom with the knurling wheel (13), the 1.0 position is recommended.
4. The intensity of the LED ring lighting can be adjusted using the knurling wheel (14) located at the rear of the device.
5. Select the wanted working temperature by pressing succesively on the TEMP contactor (2). The value increases in a loop by increments of 5°, from 70° to 125° C.

Two working temperatures are recommended :

- 75°C for pallet-stones with traditional shellac
- 120°C for pallet-stones with traditional shellac

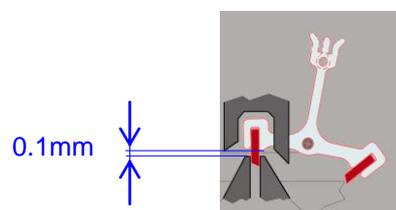
The preset temperature is displayed in the top left of the LCD (9), the instant temperature in the top right.

6. A setting temperature time of about 25 min. must be respected; the LED indicator (17) becomes GREEN when the temperature is reached.
7. Push back the clamping roller (3) so that the clamping support (4) is lifted.

WARNING! Never handle the eccentric lever (5) for clamping the liftings when the clamping support (4) is in the lower position.

8. Open the the clamp with the excentered lever (5)
9. Place the pallet-stone (dart side above) by inserting the lifting to adjust in the gripper (18) and press it against the stop (6) located between the two jaws.

This stop must be adjusted so as to respect an interspace of ~0.1 mm between the body of the pallet-stone and the tip of gripper. To do this, the device must be cold.



- a) Position the pallet-stone and watch its position
- b) Unlock the screw (7) with a 1.5 mm Allen key
- c) Move the stop (6) in the wanted position
- d) Tighten the screw (7)

10. Close the clamp using the excentered lever (5)

The clamping force for the lifting gripper can be adjusted by turning the adjustment screw (8) with a 2.5mm Allen key. ↻ = increasing the strength and ↺ = decreasing the strength.

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11. Bring the digital display (9) to 0 using the knurling wheel for the carriage skip (10)
12. **Secure the pallet-stone by gently bringing the clamping roller (3) forwards, until the stop. It is better to do this by using both your hands.**

The blocking force for the pallet-stone can be adjusted by screwing (↻) or unscrewing (↺) the adjustment screw (11) located on the rear side of the mechanical block of the Echappemètre.

13. Move the lifting in the wanted value by turning the knurling wheel of the carriage skip (10) The value of the displacement value can be read on the digital display (9). It is advisable to go 2 - 3 µm beyond the desired value and go back, in order to avoid the spring effect of the glue.
14. Unlock the pallet-stone gently pushing the clamping roller (3) backwards.
15. Open the chuck for the liftings with the excentered lever.
16. Carefully remove the pallet-stone.

If, during handling, you drop your pallet-stone in within the Echappemètre VOH - IV, you can retrieve it by removing the tray (16)

4 Representation/distribution



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