

# EBATEST


## User guide

Translated from french




**VOH SA**

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	Solution mécatronique
	Ebatest
	Page 2
<b>User guide</b>	

<b>1</b>	<b>General.....</b>	<b>3</b>
1.1	Warranty.....	3
1.2	Information .....	4
1.3	Transportation .....	4
1.4	Storage.....	4
<b>2</b>	<b>Elements of the device.....</b>	<b>5</b>
<b>3</b>	<b>Operation.....</b>	<b>6</b>
<b>4</b>	<b>Switch on/off .....</b>	<b>7</b>
<b>5</b>	<b>Use .....</b>	<b>8</b>
<b>6</b>	<b>Settings.....</b>	<b>10</b>
6.1	Change the tip.....	10
<b>7</b>	<b>Representation/distribution.....</b>	<b>11</b>

	Solution mécatronique
	Ebatest
	Page 3
	User guide

# 1 General

## 1.1 Warranty

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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 INDIRECTLY 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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	Solution mécatronique
	Ebatest
	Page 4
<b>User guide</b>	

## 1.2 Information

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### 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° and 40° C (104 F)

## 1.3 Transportation

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When moving the device, make sure not to cause shocks which might damage its mechanics. If transported over a long distance, it is preferable to use a packaging protecting well from shocks.

## 1.4 Storage

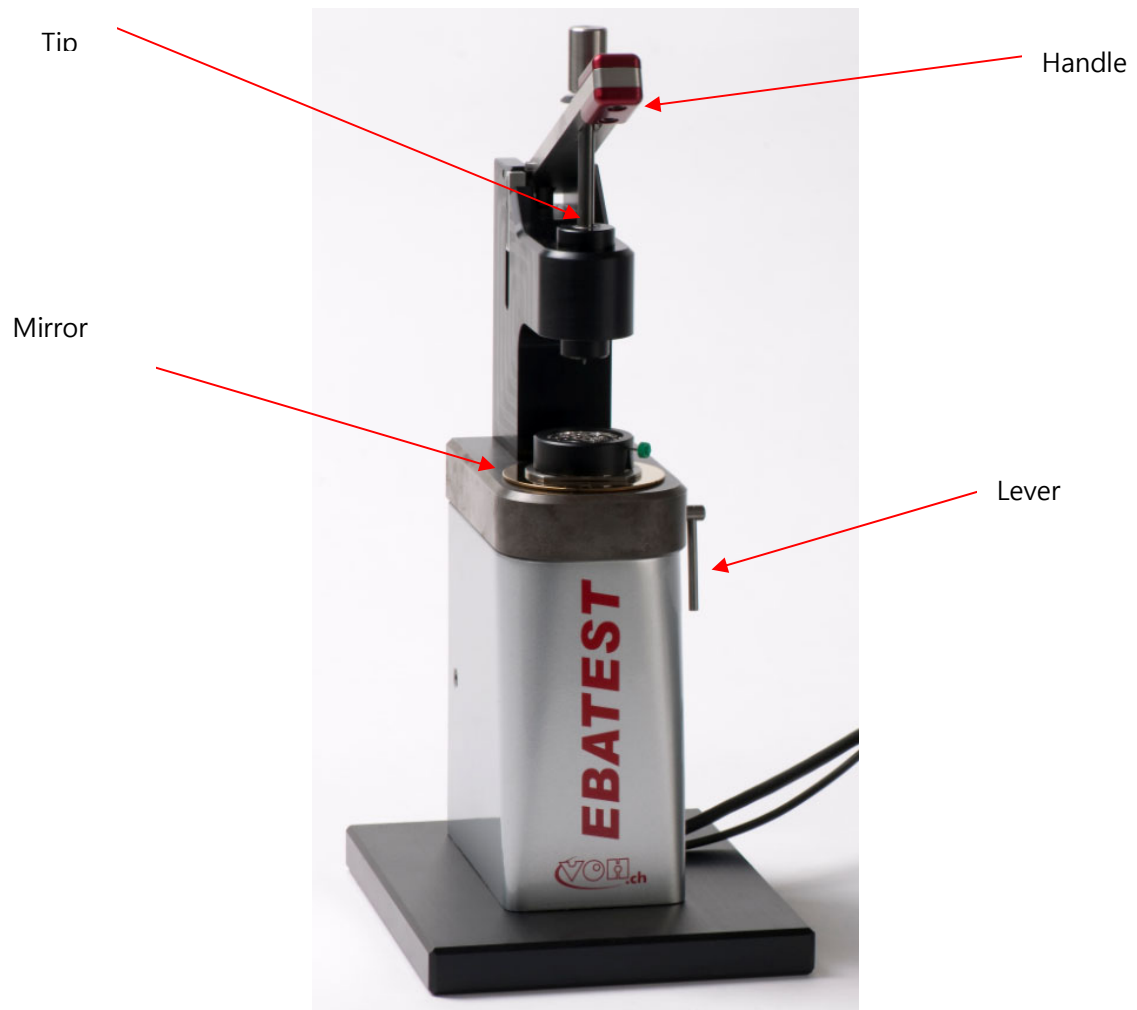
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The Ebatest must be stored in a dry place and protected from dust. The storage temperature should be between 10° and 40° C (104°F). It is advisable pack the camera to protect it from dust and humidity.

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## 2 Elements of the device

Ebatest :



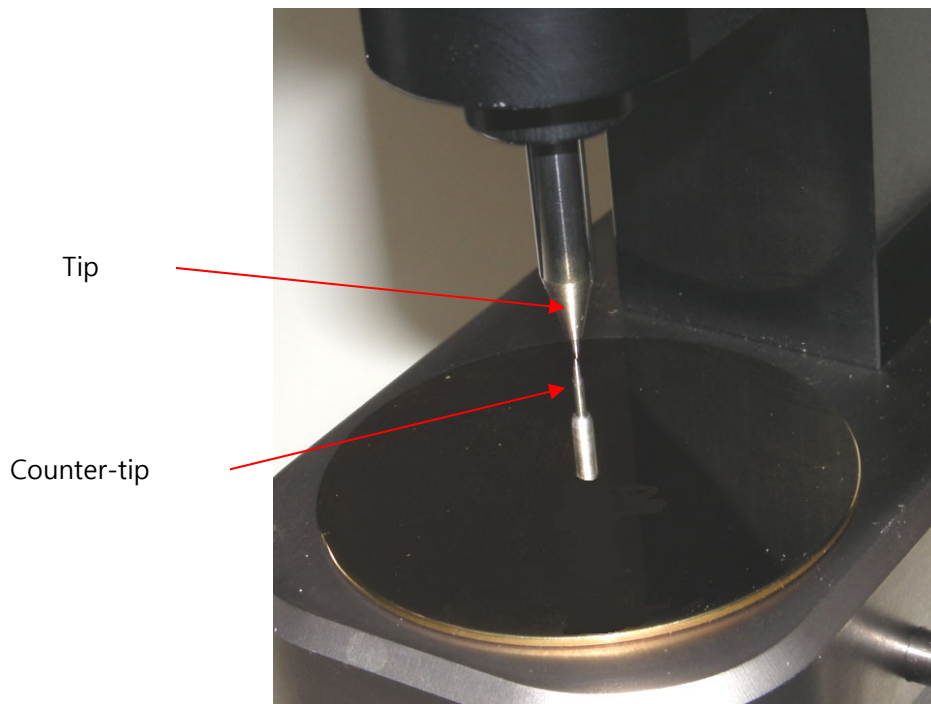
The handle is to move the tip downward (see chap. 3). The mirror enables the operator to place easily movement-holder on the Ebatest. The lever allows to free the counter-tip when the operator wants to change it.

Micro Vision display :



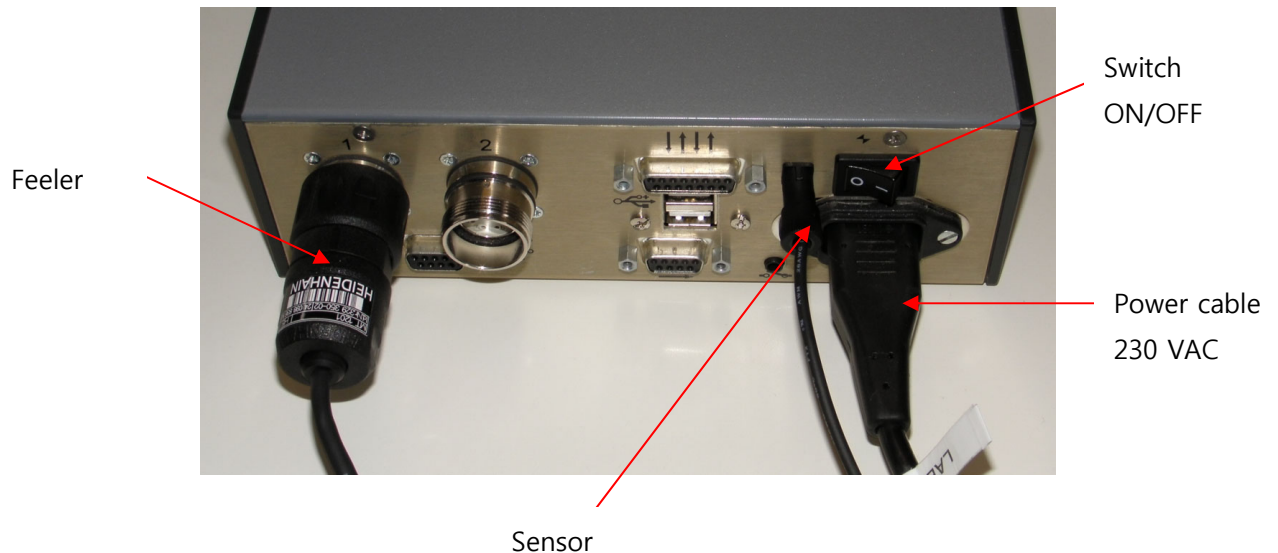
### 3 Operation

The Ebatest allows the measurement of the shake on mounted watch-movements. Its accuracy is about one micron. Its operating principle is as follows: when moving down the handle, the counter-tip (lower tip) moves up and pushes the movement wheel from below so as to catch it in the slot. While continuing to descend the handle the upper tip comes pressing on the wheel from above. By its own weight, the top pin will lower the wheel. A feeler is measuring this displacement, which represents the clearance. The measure will be displayed on the Micro Vision.



## 4 Switch on/off

Before switching on the display, make the following connections :

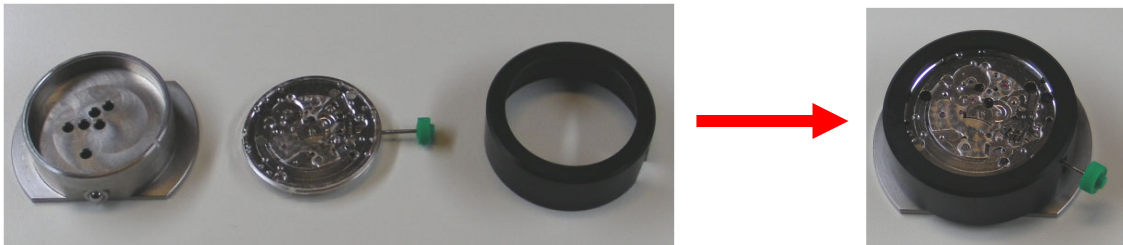


Once the connections are done, the display can be started by pressing the switch on ON. In the same way, it can be stopped by pressing the switch on OFF.

## 5 Use

To measure the shake of a wheel on a watch-movement, proceed as follows :

1. Connect the device (see chap. 4) and switch on the display.
2. Place the watch-movement you want to measure on the fitting.



3. Place the movement on the Ebatest. The mirror allows to easily set the correct fitting hole on the pin (each hole corresponds to a wheel position on the movement and is specific to this movement).





4. Lower the handle until the tip presses on the wheel.



5. Note down the value of the shake displayed on the Micro Vision.

## 6 Settings

### 6.1 Change the tip

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**Tip :**

To change the tip, simply slide it by the top



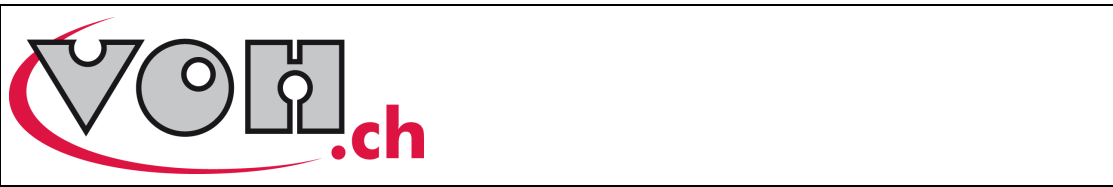
**Caution :** The head of the tip is extremely fragile !!! Avoid shocks, as it may damage it !!!

**Counter-tip :**



To release the counter-tip, remove the mirror and turn the lever.

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	Solution mécatronique
	Ebatest
	Page 11
	User guide

## 7 Representation/distribution



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