briot couture

User Manual-Blocker

FC001204-rev02

VISIONIX

INNOVATION TO UNLOCK YOUR POTENTIAL

Dear Customer,

You have purchased an BRIOT COUTURE machine, and the entire team of Briot, a brand belonging to the Luneau Technology group, would like to thank you for the confidence you have shown us.

The BRIOT COUTURE machine is a laboratory machine designed for opticians and is used for carrying out operations such as creating fittings and centering and blocking spectacle lenses.

We advise you to read this manual carefully and keep it near the machine in order to be able to refer to it easily.

The information contained in this manual is not contractually binding and may be changed without prior notice. Although this document has been prepared with great care, it may contain some unintentional errors or omissions, even though every effort has been made to avoid them. The manufacturer cannot, under any circumstances, be held responsible for any operating faults that may result from such errors or omissions.

THE MANUFACTURER DOES NOT GUARANTEE THE PERFORMANCE OF YOUR MACHINE IF THE INSTRUCTIONS CONTAINED IN THIS MANUAL ARE NOT OBSERVED.

DEPENDING ON THE MACHINE VERSION AND OPTIONS AND ON THE DATE AND COUNTRY OF SALE, SOME EQUIPMENT ITEM(S)/FUNCTION(S) DESCRIBED IN THIS MANUAL MAY NOT BE INCLUDED IN YOUR MACHINE.

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Θ GRAPHIC CODE

Different graphic codes have been used in this manual to allow the user to distinguish between different types of information and easily spot the items which demand special attention (e.g. safety-related items).

The table below lists and describes all the codes used:

DESCRIPTION OF THE PICTOGRAMS

GRAPHIC CODES	MEANING
	**VITAL WARNING** Risk of human injury or material damage and machine malfunction. Follow the instructions carefully.
	**VITAL PRELIMINARY ACTION** Before undertaking any action, check that the machine is disconnected.
	**ELECTRICAL HAZARD**
	**HEAVY COMPONENT** In particular, a second person is necessary to carry and move the machine
	**DANGER: KEEP HANDS AWAY**

HANDLING OF ELECTRICAL AND ELECTRONIC EQUIPMENT WASTE (APPLICABLE IN THE EUROPEAN UNION AND IN EUROPEAN COUNTRIES HAVING A SELECTIVE WASTE COLLECTION SYSTEM)

This symbol affixed to the product or to its packaging indicates that the product will not be treated like household waste. Instead, it must be delivered to the designated collection point where electric and electronic equipment may be recycled. By ensuring that this product is correctly disposed of, you will help prevent potentially harmful environmental and human consequences due to improper handling when improperly disposed of. The use of recovered materials preserves natural resources. For more information about where you can drop off this product for recycling, please contact your local waste disposal service or the agent from whom you purchased this product.

1. INSTALLATION

1.1. UNPACKING THE MACHINE

1.1.1. WARNING

> Ensure that the machine is placed in accordance with the TOP and BOTTOM signs on the box.
> Place the machine on a flat and stable surface.
> If you install your machine yourself, **you must keep the packaging and ALL the internal and external dunnage**, in case you need to return the machine.

1.1.2. UNPACKING

Follow the steps below to unpack the machine:

1 Place the packed machine on the floor.

2 Cut the two straps on the packaging carton.

3 Remove the packing carton by pulling it upwards.

4 Remove the carton and the protection from the machine.

5 Remove the accessory case and keep it near the machine.

6 Lift the machine and set it down on the workbench.

1.2. SETTING UP

1.2.1. WORKBENCH PREPARATION

Before installing the machine, check that the workbench corresponds to the following characteristics:

- Install the machine on a stable, level workbench.
- Provide a mark measuring of 360 mm x 600 mm on the workbench
- Do not place any obstacles (cabinet, shelf, etc.) lower than 600 mm above the workbench.
- Allow sufficient distance between the BRIOT COUTURE blocker and the edger.
  Note: the standard connection lead is 5m long.
- Prepare a grounded 16 A power socket, protected by a 30 mA differential circuit breaker.
- Prepare a RJ45 Ethernet connector and a network access to facilitate the updating of your machine.
- Install the machine away from any source of heat, dust contamination or humidity contamination (a non-enclosed water tank, for example).
- Install the machine away from any source of strong light.

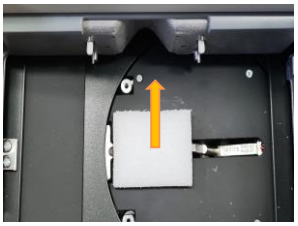
1.2.2. INSTALLATION

1 To avoid damaging the machine's internal components, do not turn on the machine

2 Gently remove the blocker shim by pulling it leftwards.

3 Gently remove the 1st shim of the mechanical plotter.

4 Gently remove the 2nd shim of the mechanical plotter being careful with the stylus head.



1.2.3. MACHINE CONNECTION

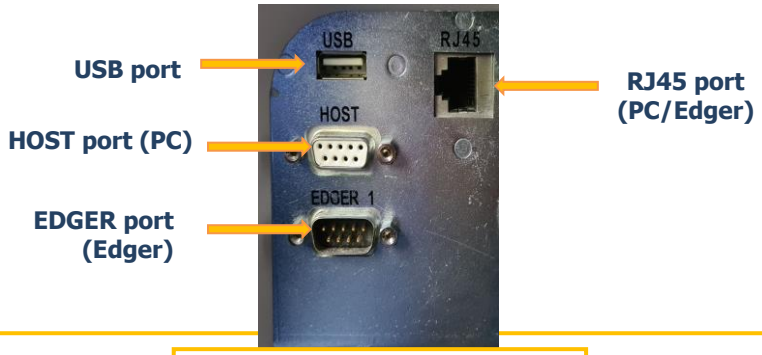
1 Make sure you have:

- An electrical socket: 2-phase + Ground
- A power line protected by a 30 mA differential circuit breaker
- ⚠ Sector

2 Connect the supplied electric lead to the power socket.

3

- If you connect the machine to the HOST network:
  connect the cable to the HOST port using the RS232 cable provided.
  Contact your Briot dealer to configure the machine in client configuration.
- If you connect the machine to an edger:
  connect the cable to the EDG 1 port using the RS232 cable provided.
  Contact your Briot dealer if you want to plug in other edgers.
- In all cases, use the RS232 leads with the screening connected on both sides.
- Connect the RJ45 Ethernet cord.



4 Before connecting the machine to the mains supply, the electrical socket must always be grounded.

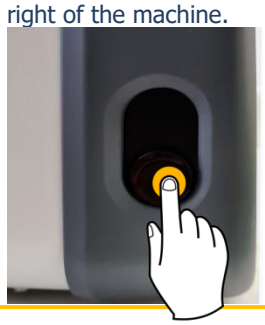
1.3. TURNING ON THE MACHINE

1.3.1. SWITCHING THE MACHINE ON

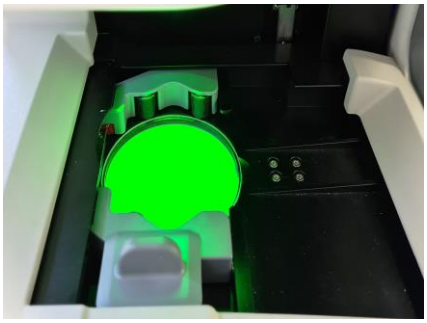
To turn on the machine, follow the steps below:

1 Press the Start/Stop switch, located at the rear of the machine.

2 Press the pushbutton, located at the bottom front right of the machine.



On powering up, the bearing surface comes on in green during the machine's initialization (see below).



The pushbutton must only be pressed briefly (press/release). Do not hold the pushbutton pressed as this may cause an unexpected electrical stoppage of the machine.

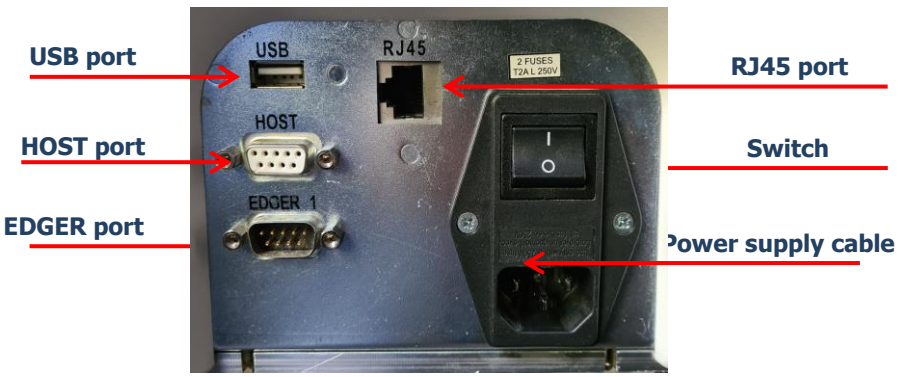
1.3.2. SWITCHING THE MACHINE OFF

To turn off the machine properly, follow the steps below:

Press the pushbutton, located at the bottom front right of the machine.

Before carrying out work on the machine, wait for the bearing surface to go off before pressing the Start/Stop switch located at the rear of the machine and disconnect the power cable from the mains supply.

1.4. MACHINE PRESENTATION



2. PRECAUTIONS FOR USE

briot Couture

2.1. SAFETY

2.1.1. OPERATOR

> Read the instructions carefully and always keep the CD-Rom containing the user manual near the machine in order to be able to refer to it easily.
> Before carry out any work on the machine, check that the mains cable is unplugged.
> If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired

2.1.2. MACHINE

> Make sure your voltage source corresponds to the voltage specified on the identification plate located at the rear of the machine. If you are unsure of the type of current available in your premises, contact your electricity company.
> If the machine is not going to be used for a long period of time, disconnect the power cords from the wall outlet.
> Disconnect the machine if there is an electrical storm or when the machine is left unattended for a long period.
> It must be positioned so that the way to disconnect it from the power supply is easily accessible. The disconnecting Mean is the cord plug/appliance coupler of the device.
> No liquids must be placed near the power supply and/or its cable.
> Never replace detachable mains supply cords with inadequately rated cords.
> Keep the machine away from any source of heat. A radiator is a heat source which can be detrimental to the correct operation of the machine.
> The openings in the cover are designed to ventilate the machine and contribute to its normal operation. Do not obstruct them or cover them.
> Make sure that the machine is installed in a correctly ventilated room.
> Do not overload the wall sockets or plugs because you would increase the risk of fire or electric shock.
> Avoid using electric extension leads.
> Keep the machine away from any source of dust.
> Any work carried out on the machine (with the cover open or closed) must be undertaken by a Briot technician.
> Do not place your hands in the hazardous area during the machine's mechanical movements.

2.1.3. LITHIUM BATTERY

> The replacement of the battery (Type: cURus CR2032 lithium battery) can only be performed by a trained service technician
> CAUTION: there is a risk of explosion if the battery is replaced by an incorrect type.
Do not discard used batteries as normal waste, but dispose of them in a battery recycling centre.

THE MANUFACTURER CANNOT BE HELD RESPONSIBLE FOR DAMAGE CAUSED BY ANY USE OF THE MACHINE WHICH DOES NOT COMPLY WITH THE INSTRUCTIONS IN THIS MANUAL OR DISPLAYED ON THE MACHINE ITSELF.

2.2. RECOMMENDATIONS

2.2.1. GENERAL

> Clean the machine regularly.
> Comply with the machine maintenance messages.
> Protect the machine's power cords.
> Use blocks designed and supplied by Briot.
> Use new adhesives.

2.2.2. CLEANING

2.2.2.1. OUTSIDE COVER

> Use a clean, soft cloth moistened with some alcohol.

2.2.2.2. TOUCH SCREEN

> Do not press too hard on the touch screen. You may break it.
Caution: Breakage of the touch screen is not covered by the guarantee.

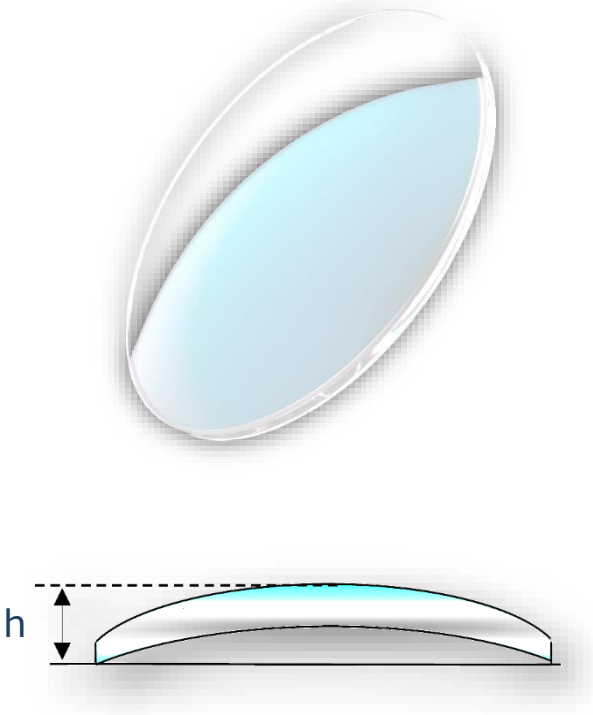
> Clean the touch screen with a soft, clean, dry cloth.

CAUTION! TAKE CARE NOT TO USE THE FOLLOWING PRODUCTS WHEN CLEANING YOUR MACHINE:
- **PRODUCTS CONTAINING AMMONIA, SODA OR ACETIC ACID.**
- **ORGANIC PRODUCTS SUCH AS ACETONE, BENZENE OR TRICHLOROETHANE.**

3. USE

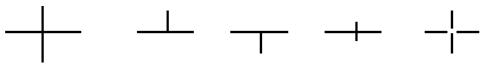
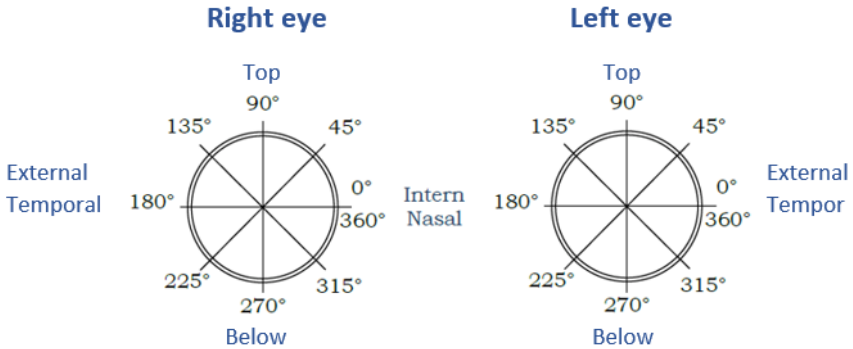
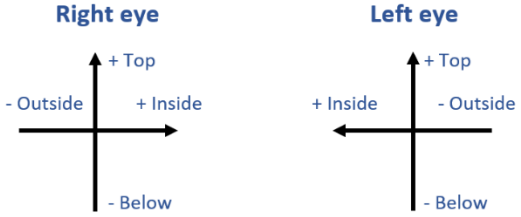
3.1. SPECIFIED LENS TYPES

3.1.1. LIMITS

Eyeglass lenses	
- Single vision lens - Bifocal lens - Trifocal lens - Executive lens - Progressive lens - Prism lens	 Figure 1 Lens illustration example
Dimensions	
Diameter Ø	Ø 45 mm to Ø 80 mm (min./max.)
Height (centre of lens) h	h = 19 mm (max.)

- The refractive index and the colour do not have an effect on the automatic centring by the blocker.
- The lens treatment and the anti-reflective coating in particular have no effect on the lens measurement.
- The precise lens parameters are described on the following page.

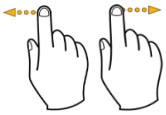
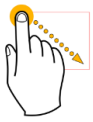
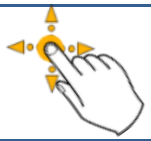
3.1.2. LENS PARAMETERS

Single vision lens
Optical power between **-15 D** and **+15 D** (sphere and cylinder) Outside these parameters, the lens centre and axis must be marked with a ***lens meter***. **Comment:** Evaluation and display of lens width with a precision of **+/- 0.125 D** are only possible for optical powers of between **-10 D and +10 D**.
Bifocal lens
Lens with high, curved, or flat segment (flat top)
Trifocal lens and executive lens
Alignment should only be done manually or by **3-dot centring**. If the Briot Couture cannot automatically determine the lens parameters, the manual blocking mode is started.
Progressive lens
Lens with an axis characterised by at least two separate segments and one of the optical centres shown below. **Optical centres (variants):**  **Comment:** Centre markings must be clearly recognizable. Deviations of axis from horizontal during insertion into device may be **max. +/- 30°**.
Prism lens
Prism base marked according to TABO scheme:    **Lenses with axis orientation in the following format:**    Lenses with optical power **0 D** and **+10 D** at centre

3.2. USING THE BRIOT COUTURE

3.2.1. USING THE SCREEN

The following symbols explain the gestures used in this operator's manual in connection with the multitouch display/control panel:

No.	Gesture	Description
1		• Tap briefly using one finger (button). • Place finger on multitouch display and move.
2		Place one finger on multitouch display and move vertically up or down.
3		Place one finger on multitouch display and move laterally to left or right.
4		Place two fingers on multitouch display and move vertically down.
5		Tap multitouch display briefly twice with one finger to double-click.
6		Place one finger on multitouch display and hold down for approx. 3 seconds.
7		Place two fingers on multitouch display and move closer together or further apart.
8		Place one finger on multitouch display and move diagonally up or down to draw a selection rectangle.
9		Place one finger on multitouch display and move freely (rotate).
10		Place one finger on multitouch display and move freely (move).

The various gesture symbols are used instead of the descriptions in the remaining sections of this operating manual.

3.2.2. DISPLAY AND INDICATION

The following table describes the different display variations for symbols and numerical values and their meanings:

No.	Gesture	Description
1		Inactive selection button
2		Activated selection button
3		Confirmation button not pressed
4		Confirmation button pressed
5		Cancel/quit action
6		Stop/pause running process
7		Delete selected file, template, or setting
8		Confirmation of numerical value or parameter required
9		Optional numerical value or parameter
10		Confirmed/accepted numerical value or parameter

3.2.3. INPUT LINES AND KEYBOARDS/KEYPADS

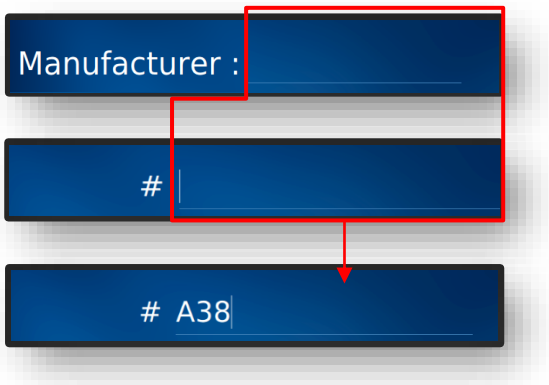


Figure 2 Input lines

All input lines work according to the same principle.

Press button (B-1) on the "Trace" screen (B-9) once to call up the job window.

The screen for input of a new job number appears.

Figure 3 Keyboards/keypads

3.3. OVERVIEW OF FUNCTIONAL PARTS

Figure 4 Functional parts

No.	Designation	No.	Designation
B	Multi-Touch-Display	3	Lens clamping chuck
1	Blocker	4	Gravitech™ optical tracer
2	Mechanical tracer		

This overview only covers the functional parts relevant in working operation. A detailed description of all device components can be found in Section 1, "Installation."

→ Section 1.4, "Description of the device"

3.4. MULTI-TOUCH-DISPLAY (B)

3.4.1. BASIC BUTTONS

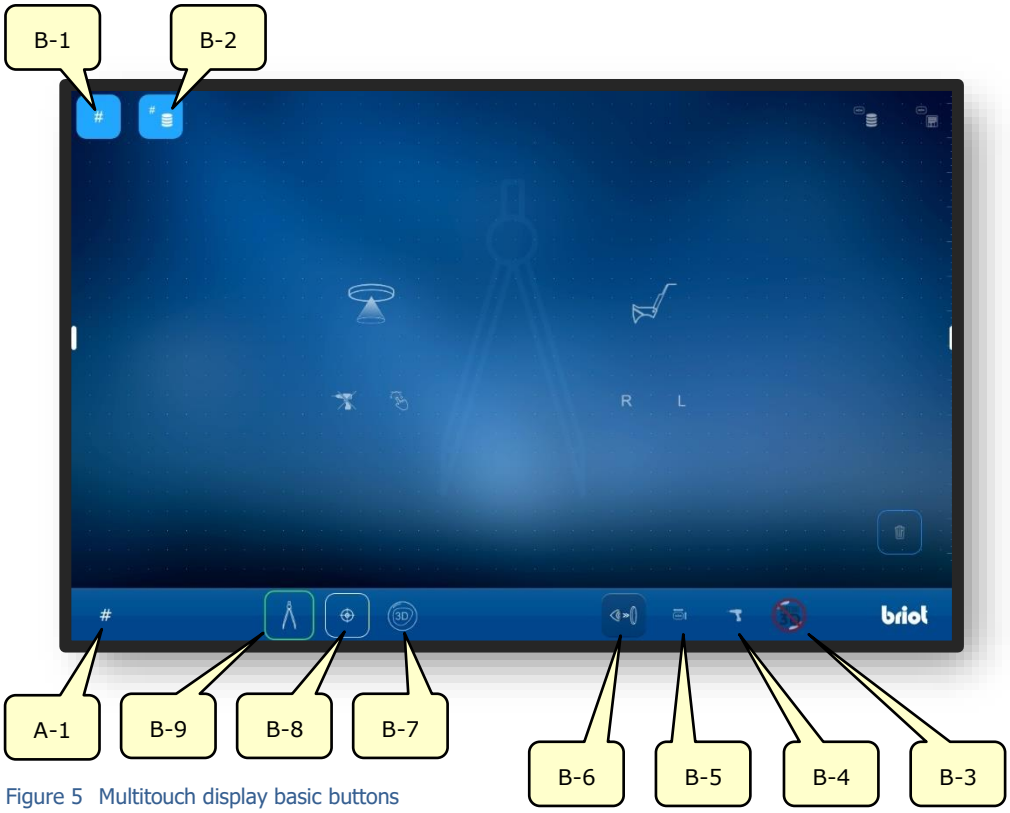


Figure 5 Multitouch display basic buttons

No.	Operating element	Function
B-1	Button	Record new job
B-2	Button	Show job list
B-3	Button	Notification of incoming external 3D data
B-4	Button	Call up menu for recording/modifying drilling data
B-5	Button	Call up menu for modifying shape data
B-6	Button	Activate live image
B-7	Button	Call "3D simulation" function
B-8	Button	Call "Centre" function
B-9	Button	Call "Trace" function
A-1	Display	Current job number

The displayed symbols are the so-called basic buttons.
They can be accessed from any menu.

The specific menu buttons are described in greater detail further on in this operating manual.

3.4.1.1. SUBMENU: NEW JOB (B-1)

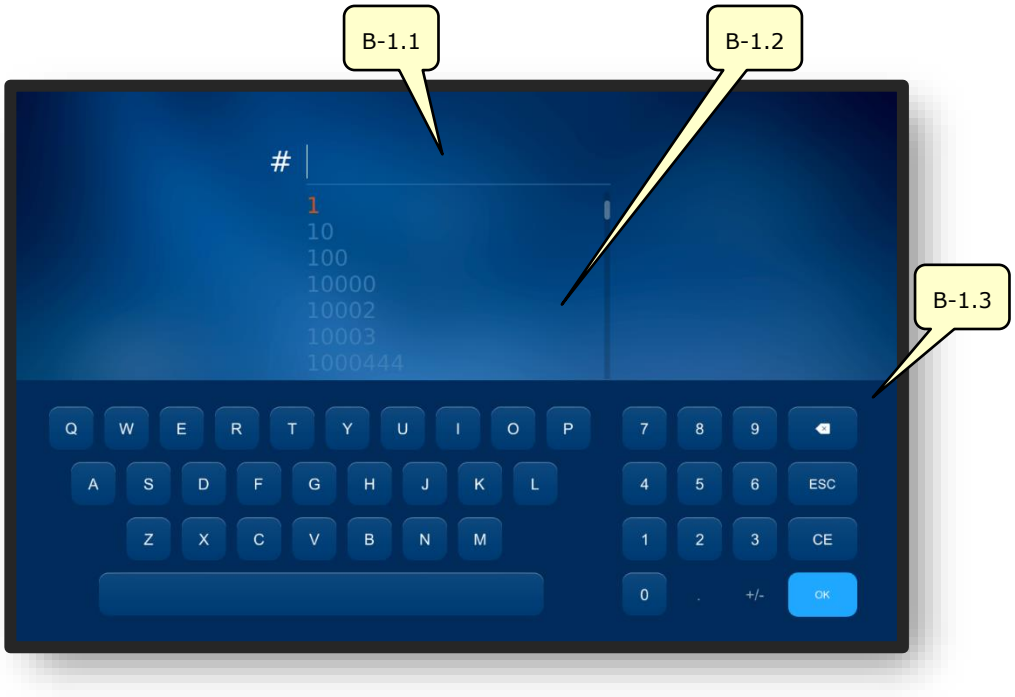


Figure 6 "New Job" multitouch display

No.	Operating element	Function
B-1.1	Input field	Record/input new job number
B-1.2	Job List	List already existing jobs
B-1.3	Keyboard/keypad	Input job number via keys

A job number can also be recorded with a manual scanner via a bar code.

The job list shows jobs that have already been created on the device in order of ascending job number and changes according to the input.

When a job number is being recorded, the job list shows appropriately sorted jobs that have already been created each time a digit is input.

3.4.1.2. SUBMENU: JOB LIST (B-2)

Figure 7 "Job List" multitouch display

No.	Operating element	Function
B-2.1	Sort by job number	Sort job list by job number in ascending or descending order
B-2.2	Sort by date	Sort job list by job date in ascending or descending order
B-2.3	Information	Add comments or information
B-2.4	R status display	Show processing status of right lens
B-2.5	L status display	Show processing status of left lens
A-2.1	Selected job	Show currently selected job
A-2.2	Active frame parameters	Show frame parameters currently defined for this job
A-2.3	"Jobs" storage space	Show used and available storage space

The following symbols may be listed in the "R" and "L" status lists.

No.	Status/symbol	Description of symbol
1		Lens already blocked
2		Lens already ground

→ Description of confirmation fields in Section 3.2.2, "Display and indication"

3.5. USING THE MAIN FUNCTIONS

3.5.1. "TRACE" BUTTONS BEFORE TRACING (B-9)

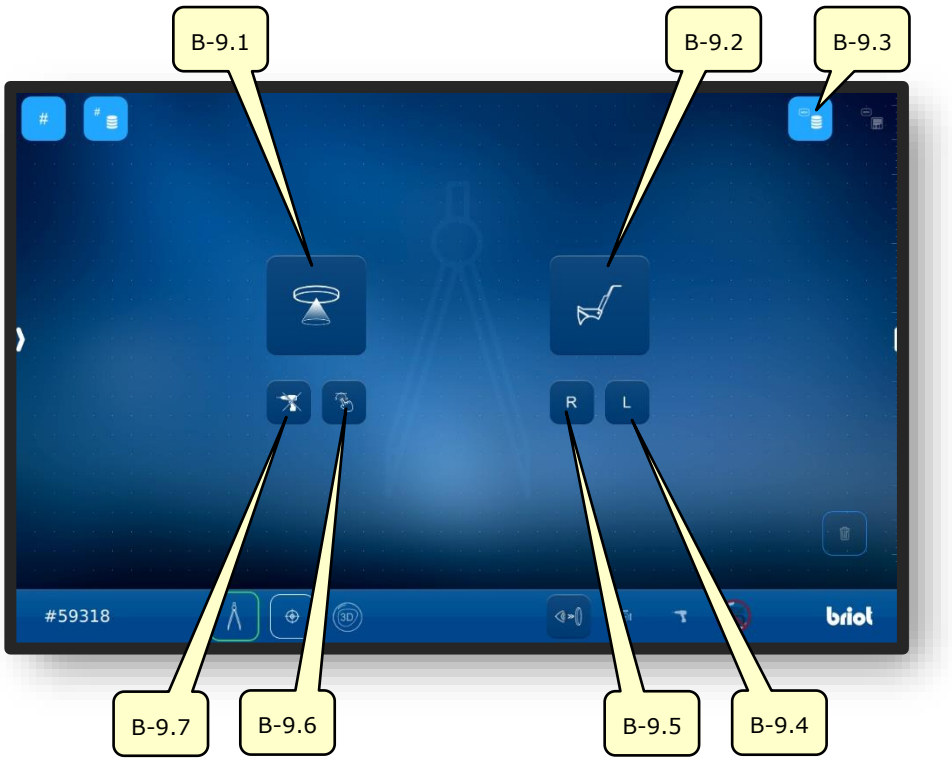


Figure 8 "Trace" multitouch display

No.	Operating element	Function
B-9.1	Button	Activate Gravitech™ optical tracer → Section 3.5.4: "Record shape"
B-9.2	Button	Activate mechanical tracer
B-9.3	Button	Call up saved shape database
B-9.4	Button	Activate mechanical tracer; only trace left side of frame
B-9.5	Button	Activate mechanical tracer; only trace right side of frame
B-9.6	Button	Activate Gravitech™ optical tracer with shape creator function
B-9.7	Button	Activate Gravitech™ optical tracer without including drilling data

The buttons can only be selected if there is an active job.

→ Creating/opening a job: Section 3.3.1.1, "New job (B-1)"

→ Call "Trace" function: Section 3.3.1, "Basic buttons"

3.5.1.1. SUBMENU: SHAPE ARCHIVE (B-9.3)

Figure 9 "Shape Archive" multitouch display

No.	Operating element	Function
B-9.3a	Sort by manufacturer	Sort shape list by manufacturer in ascending or descending order
B-9.3b	Sort by shape designation (bar code)	Sort shape list by shape designation (bar code) in ascending or descending order
B-9.3c	Sort by model	Sort model list by model name in ascending or descending order
B-9.3d	Sort by date	Sort shape list by creation date in ascending or descending order
B-9.3e	Sort by quantity	Sort shape list by manufactured quantity in ascending or descending order
B-9.3f	Sort by satisfaction level	Sort shape list by favourite in ascending or descending order
A-9.31	Selected shape	Show currently selected shape
A-9.32	Active shape parameters	Show parameters saved for this shape
A-9.33	"Manufacturers" storage space	Show used and available storage space
B-9.3g	Manufacturer filter	Filter shape list according to manufacturers
A-9.34	"Shapes" storage space	Show used and available storage space

3.5.2. "TRACE" BUTTONS AFTER TRACING (B-9)

3.5.2.1. MECHANICAL TRACING PROCESS (B-9.2)

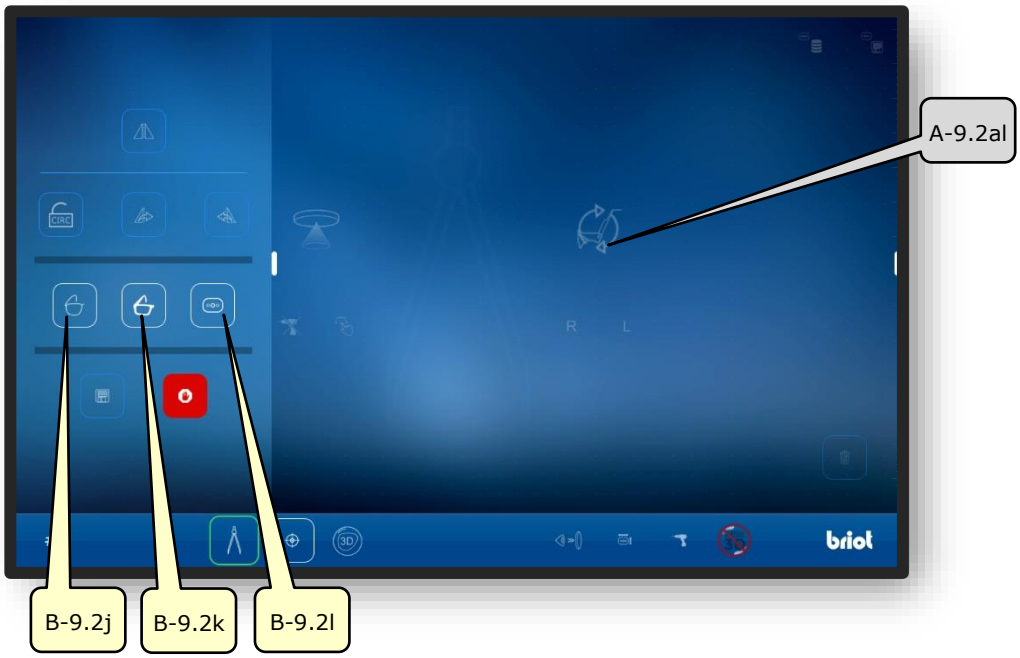


Figure 10 "Mechanical tracing process" multitouch display

No.	Operating element	Function
B-9.2j	Button	Measure metal frame
B-9.2k	Button	Measure plastic frame
B-9.2l	Button	Measure shape pattern / demo lens
A-9.2a	Working indication	Symbolises running process

The faded buttons can only be selected/pressed after the measurement process is finished.

The other buttons in "Trace" mode are described below.

→ "Trace" buttons after tracing process: Section 4.1.2.2, "'Trace' buttons parameterised"

→ Calling the "Mechanical tracing" function: Section 4.1.1, "'Trace' buttons before tracing"

3.5.3. "TRACE" BUTTONS PARAMETERISED (B-9.2)

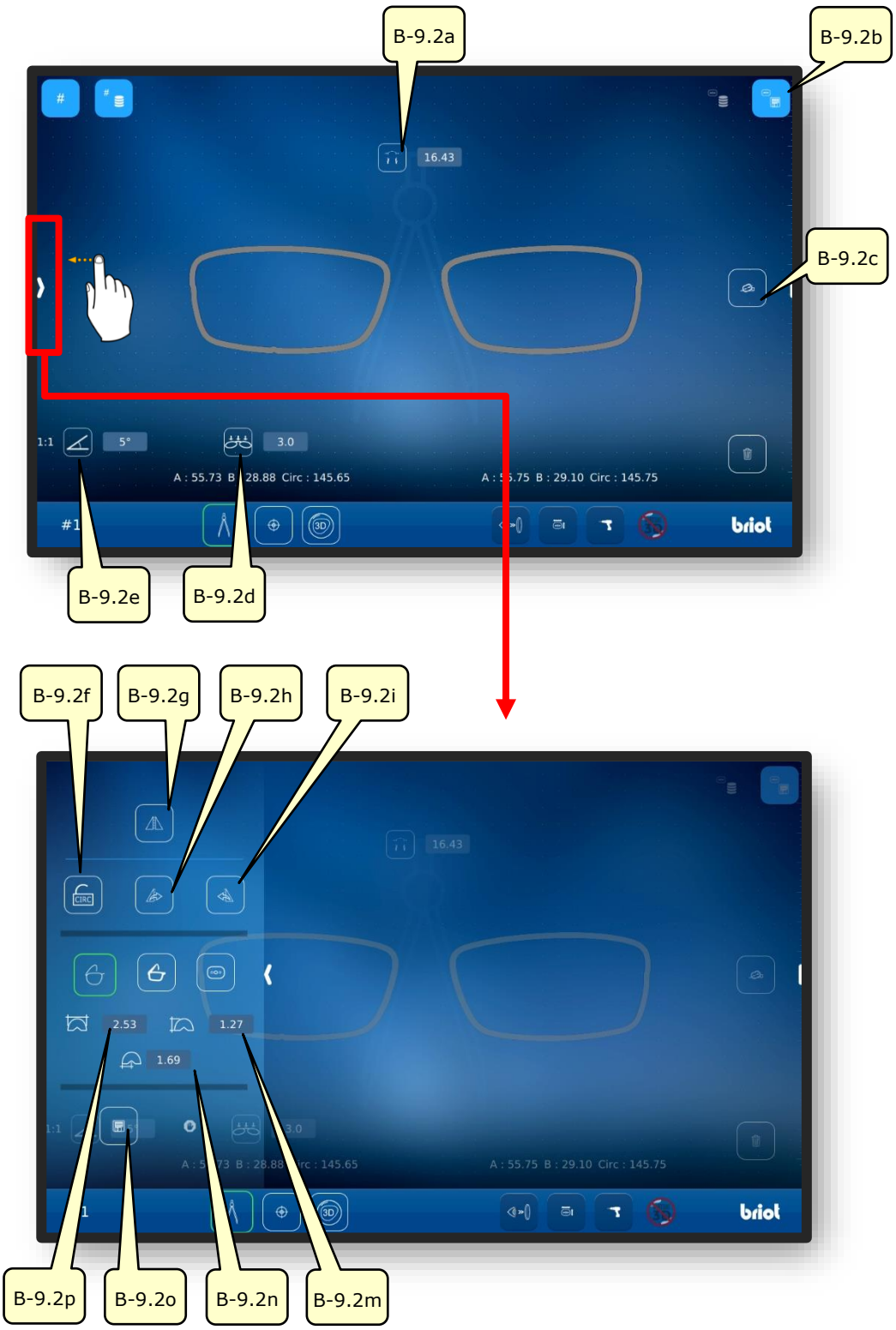


Figure 11 "Mechanical Tracing menu parameterised" multitouch display

The list with the descriptions of the buttons is given on the following page.

No.	Operating element	Function
B-9.2a	Button 	Input/display bridge width (AZG)
B-9.2b	Button 	Save recorded data as template
B-9.2c	Button 	Align shape axis
B-9.2d	Button 	Adjust frame base curve
B-9.2e	Button 	Set wrap angle (FSW) (Z-tilt)
B-9.2f	Button 	Open: Transfer shape circumference when mirroring Closed: Retain original circumference of side
B-9.2g	Button 	Mirror/invert frame side
B-9.2h	Button 	Transfer right shape to left lens
B-9.2i	Button 	Transfer left shape to right lens
B-9j	Button 	Measure metal frame
B-9.2k	Button 	Measure plastic frame
B-9.2l	Button 	Create sample lens
B-9.2m	Button 	Manually display/adjust thickness of frame edge
B-9.2n	Button 	Manually display/adjust position of groove centre with respect to front
B-9.2o	Button 	Transfer shape data to external server
B-9.2p	Button 	Manually display/adjust depth of frame edge

The greyed-out buttons are described in the previous section.

→ Description of greyed-out buttons:
Section 4.1.2.1, “Mechanical tracing process (B-9.2)”

3.5.3.1. SUBMENU: MANUALLY DETERMINE WRAP ANGLE (FSW) (B-9.2D)

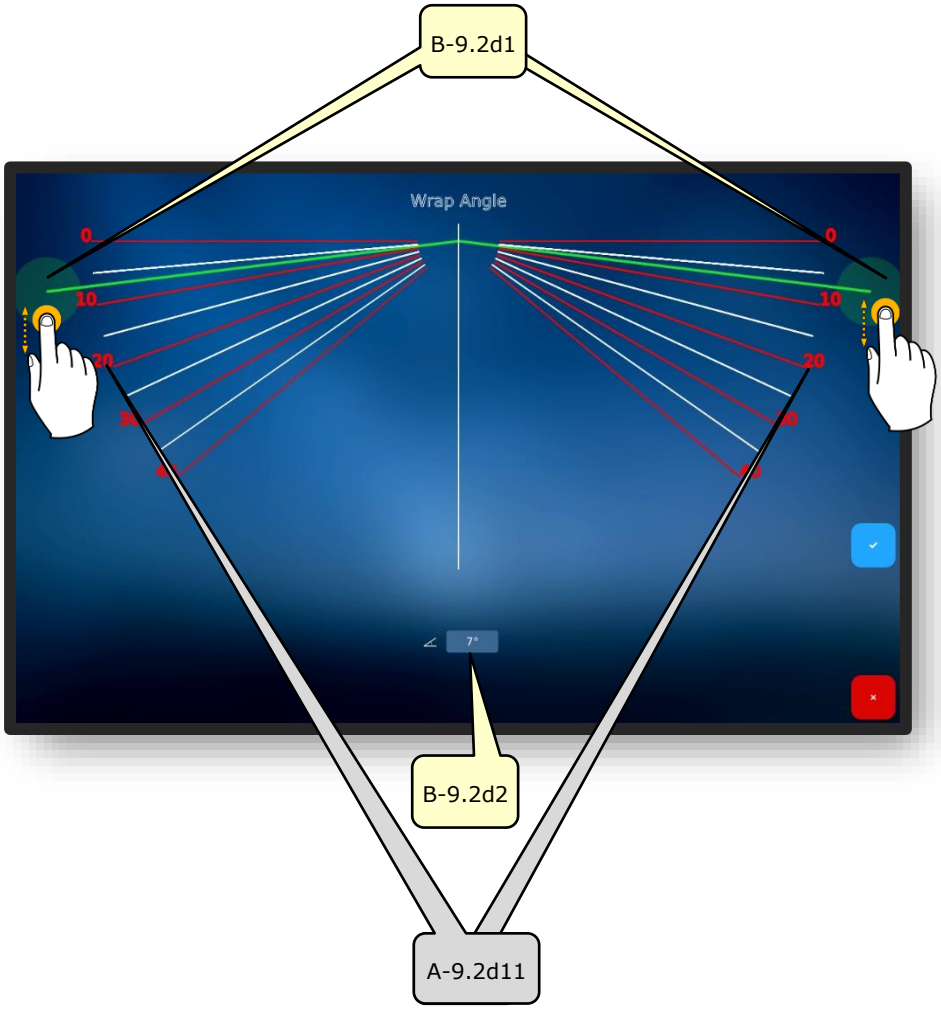


Figure 12 "Frame base curve" multitouch display

No.	Operating element	Function
B-9.2d1	WA slide control	Shift/adjust wrap angle via touch input
B-9.2d2	"Value" of FSW	Directly input wrap angle as number
A-9.2d11	FSW scale	Scale providing visual orientation for adjustment

You can stop the frame on the Briot Couture multitouch display in order to determine the wrap angle.

→ Description of confirmation fields in Section 3.1.1.2, "Display and indication"

3.5.4. "RECORD SHAPE" BUTTONS PARAMETERISED WITH GRAVITECH™ (B-9.1)

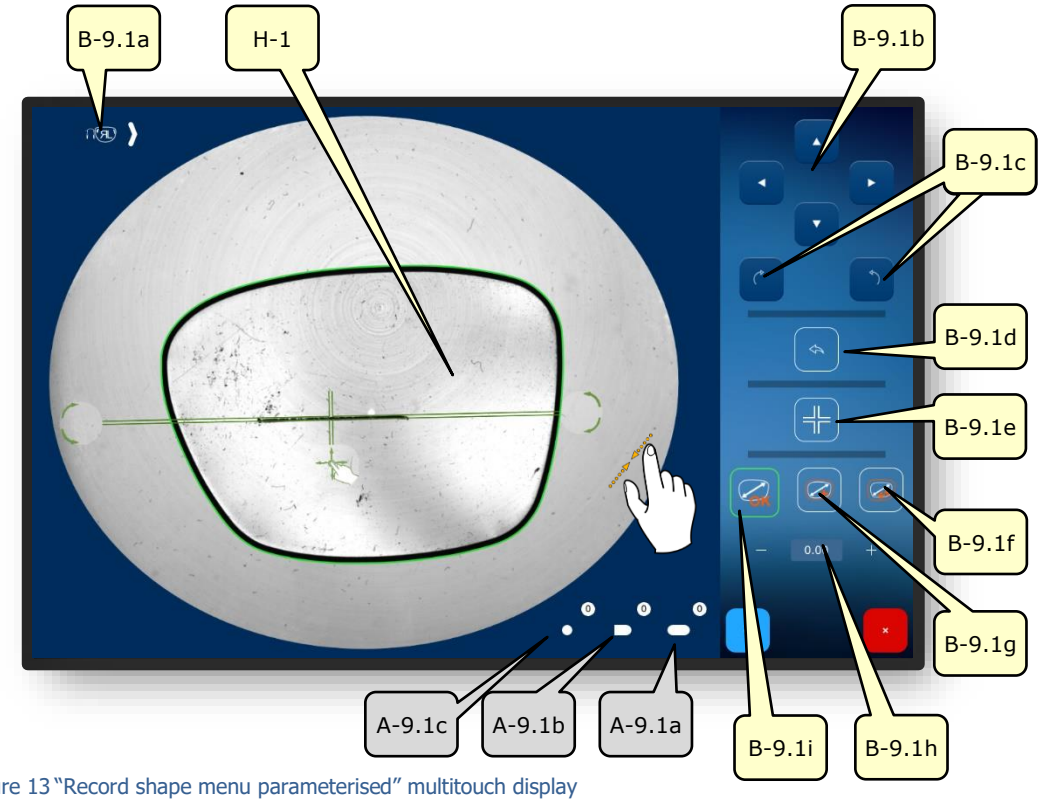
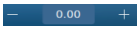


Figure 13 "Record shape menu parameterised" multitouch display

No.	Operating element	Function
B-9.1a	Button	Change lens side (L/R) assignment
B-9.1b	Buttons	Shift shape axis in (H-1) in direction of arrow
B-9.1c	Buttons	Rotate shape axis (H-1)
B-9.1d	Button	Go back a step; record shape again
B-9.1e	Button	Lock/release shape axis position
B-9.1.f	Button	Allowance: +0.4 mm, proportional (Value is adjustable; see standard parameters.)

The list with the descriptions of the buttons is continued on the following page.

B-9.1g	Button 	Allowance: +0.2 mm, proportional (Value is adjustable; see standard parameters.)
B-9.1h	Button 	Enter allowance manually
B-9.1i	Button 	No compensation / no allowance
A-9.1a	Display 	Number of detected slots
A-9.1b	Display 	Number of detected open-ended holes (edge holes)
A-9.1c	Display 	Number of detected round holes

By locking the shape axis, you can prevent it from shifting unintentionally when you zoom in or out.

Press and hold button "  " to remove undesired holes that are displayed after the shape has been recorded.

You can adjust the definition of the preset allowance in the device settings.

→ Section 4.2.1.2: Configuration of standard parameters

→ Description of confirmation fields in Section 3.1.1.2, "Display and indication"

3.5.5. "CENTRE/BLOCK" BUTTONS (B-8)

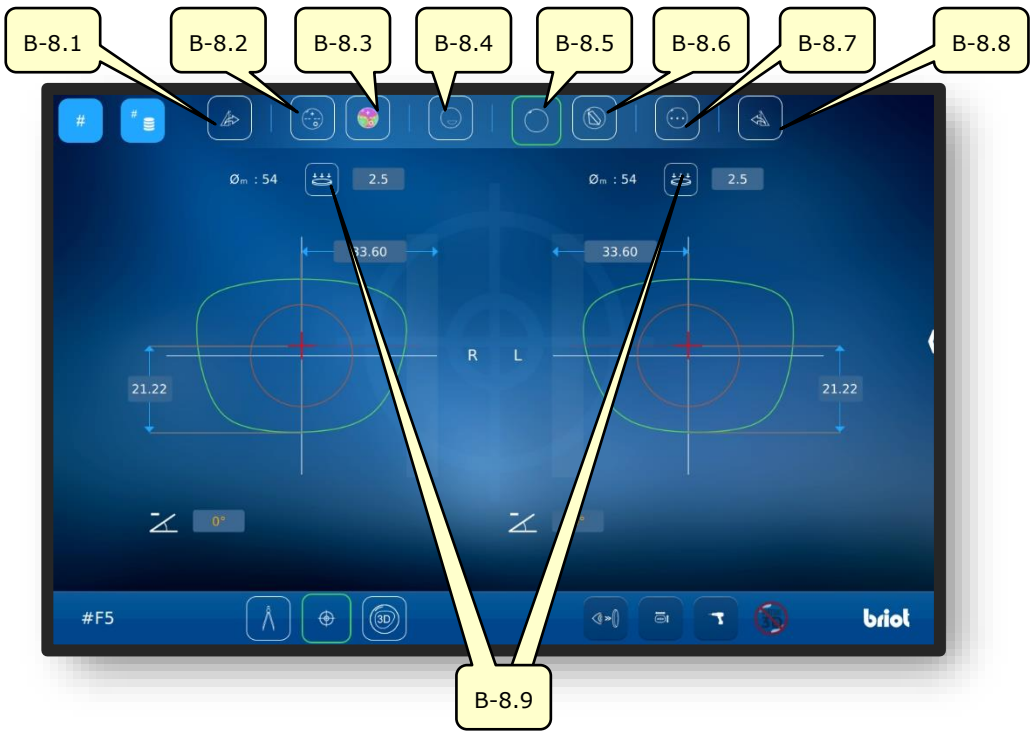


Figure 14 "Centre/Block" multitouch display

No.	Operating element	Function
B-8.1	Button	Transfer right centring and lens parameters to left lens
B-8.2	Button	Centre/block progressive lens
B-8.3	Button	Centre/block progressive lens with power map
B-8.4	Button	Centre/block bifocal lens
B-8.5	Button	Centre/block single vision lens
B-8.6	Button	Centre/block prism lens
B-8.7	Button	Centre/block trifocal lens
B-8.8	Button	Transfer left centring and lens parameters to right lens
B-8.9	Button	Measure L/R lens base curve

The "Measure base curve" submenu (B-8.9) is described below.

→ Calling up the "Centre/Block" function: Section 3.3.1, "Basic buttons"

3.5.5.1. SUBMENU: MEASURE EYEGLASS LENS BASE CURVE (B-8.9)

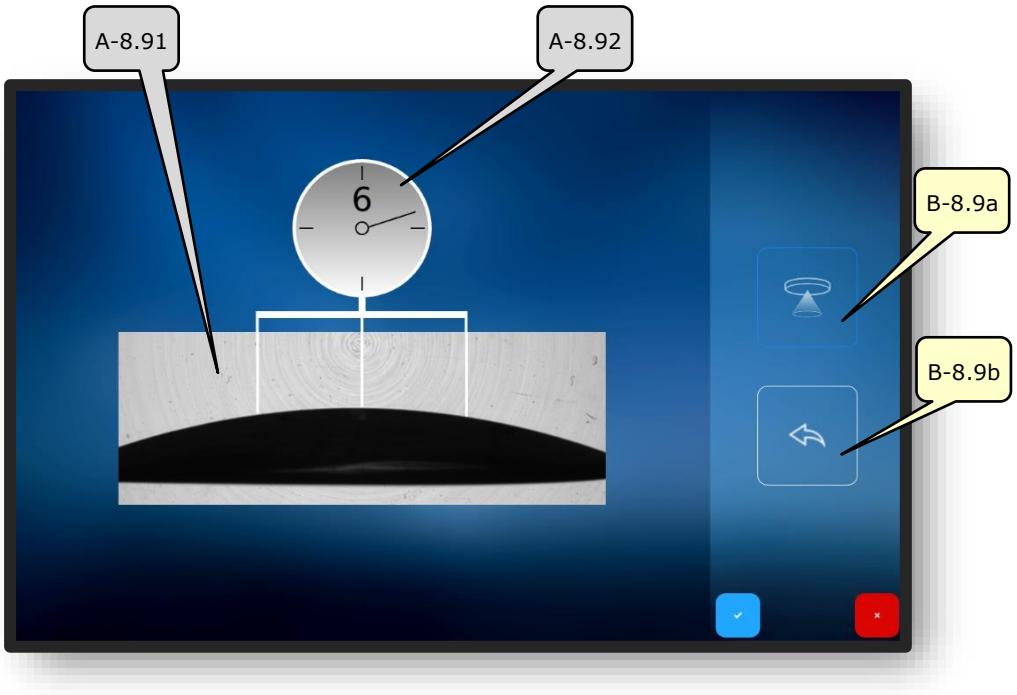


Figure 15 "Measure base curve" multitouch display

No.	Operating element	Function
A-8.91	Measurement window	Record base curve of lens with Gravitech™ optical tracer (4)
A-8.92	Display base curve	Display determined value of base curve
B-8.9a	Button 	Trigger/start measurement process
B-8.9b	Button 	Undo last measurement

→ Calling up the "Measure base curve" submenu: Section 4.1.2, "'Centre/block' buttons"

3.5.6. "3D SIMULATION" BUTTONS (B-7)

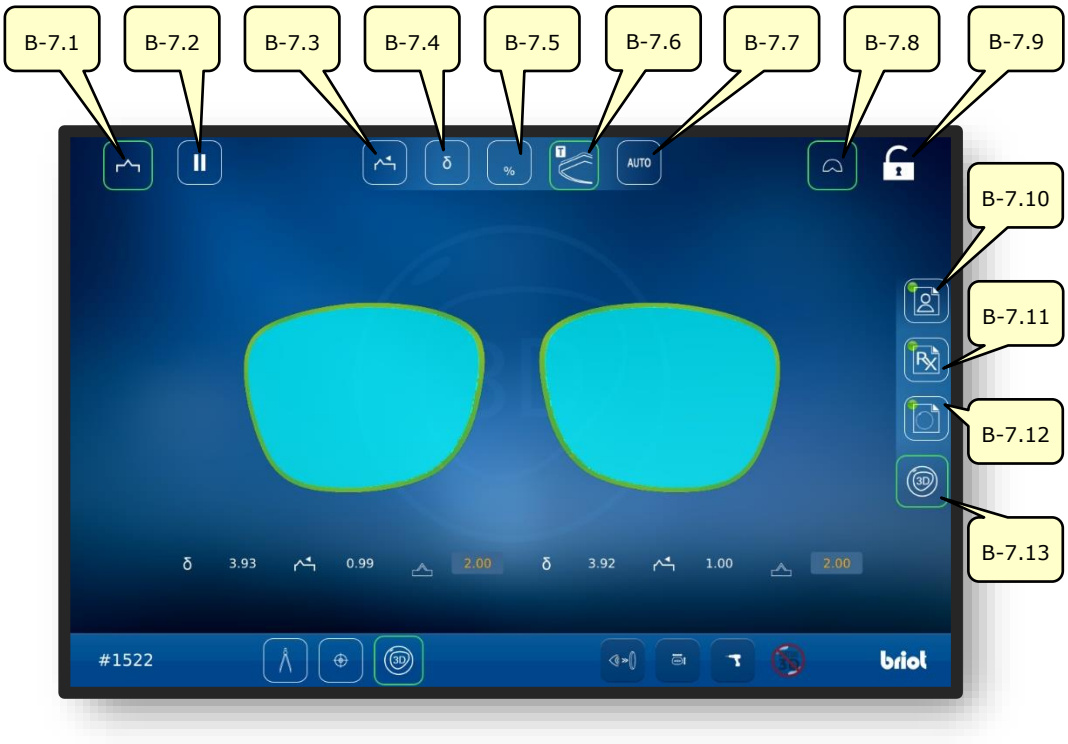


Figure 16 "3D Simulation" multitouch display

No.	Operating element	Function
B-7.1	Button	Lens with bevel active
B-7.2	Button	Pause grinding operation after lens measurement
B-7.3	Button	Align bevel to front (3D mode)
B-7.4	Button	Select delta frame curve mode (3D mode)
B-7.5	Button	Select percentage bevel mode (3D mode)
B-7.6	Button	Select TrueFit mode (3D mode)
B-7.7	Button	Select automatic bevel mode (3D mode)
B-7.8	Button	Activate/deactivate detailed view with frame display
B-7.9	Button	Release/lock automatic centring of model
B-7.10	Button	Open/edit patient centring data (PD/height)
B-7.11	Button	Open/edit refraction data
B-7.12	Button	Open/edit lens properties/geometry
B-7.13	Button	Start 3D mode

→ Call "3D simulation" function: Section 3.3.1, "Basic buttons"

3.6. OPERATION

3.6.1. TURNING ON THE BRIOT COUTURE

- ☑ Briot Couture has been properly commissioned and is set up stably.
- ☑ Power connector is inserted on back of Briot Couture.
- ☑ Power switch on back of Briot Couture is set to "I" position.

1. Press pushbutton (T-1) to turn on the Briot Couture.

- ↙ The power supply to the Briot Couture is established and the operating system boots up.
- ↙ The start screen appears.
- ↙ The Briot Couture is now ready for operation.

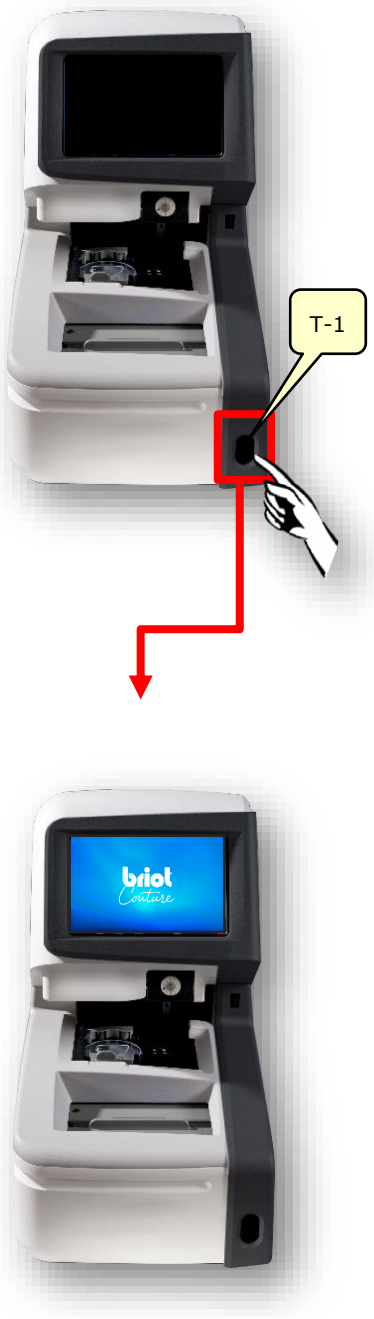


Figure 17 Turning on the Briot Couture

3.7. WORKING OPERATION

3.7.1. DATA MANAGEMENT

3.7.1.1. CREATING A NEW JOB

The empty field (B-AZ) shows that no job is currently selected.

1. Press button (B-1) on the "Trace" screen (B-9) once to call up the job window.

The screen for input of a new job number appears.

2. Enter the desired job number via the keyboard on the multitouch display (B) and complete the input by pressing the "OK" confirmation button.

Existing jobs matching the input are automatically suggested.

Instead of using the keyboard to record a new job, you can use a manual scanner to record a bar code.

The view switches back to the "Trace" menu screen.

The new job is now active and is displayed in line (B-AZ).

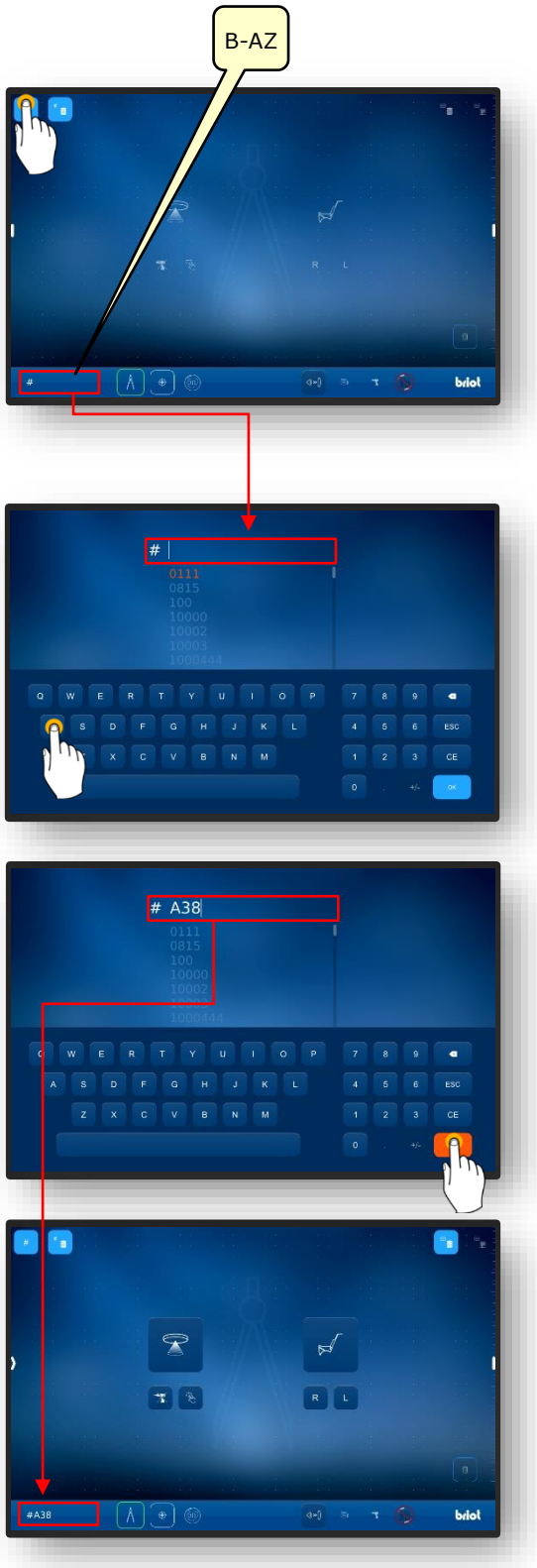


Figure 18 "Create Job"

3.7.1.2. OPENING AN EXISTING JOB

☑ At least one job has already been created.

A job can also be opened if another job is already active.
The previously active job is closed and saved.

1. Press button (B-2) on the "Trace" screen once to open the job archive.

↙ The job archive screen opens.

2. Tap once on the desired job in the job list to select it.

↙ The selected job is highlighted in colour and displayed in the job line (A-2.1).
↙ The saved parameters are displayed on the right side of the screen (A-2.2).

3. Complete the input by pressing the "☑" confirmation button.

↙ The view switches back to the "Trace" menu screen.
↙ The selected job is now active and is displayed in line (B-AZ).

All saved parameters from the job are now loaded and can be processed further.

→ Sorting the job list: Section 3.3.1.2, "Job list submenu (B-2)"

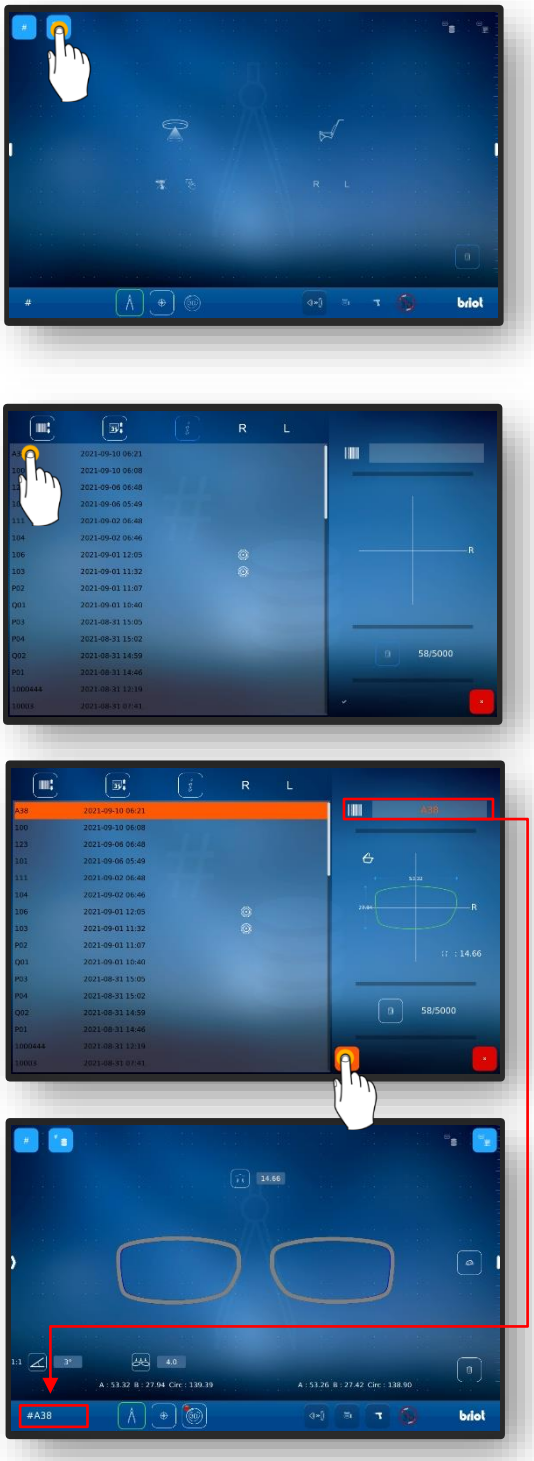


Figure 19 "Open job" screen

3.7.1.3. CREATING A SHAPE TEMPLATE

☑ A new job has been created and is active.
☑ A demo lens or a frame has been measured.

1. Call up the screen for adding new shape templates by pressing button (B-9.2b) on the "Trace" screen once.

↙ The screen for input of the manufacturer data opens.

2. Tap once on the respective fields to enter the desired manufacturer and model names.

The bar code is created automatically and incorporates parts of the manufacturer and model names.
The bar code can be changed manually.

↙ The texts under "Model" and "Bar code" are displayed in green after being successfully generated.

3. Complete the selection by pressing the "☑" confirmation button.

↙ The view switches back to the "Trace" menu screen.
↙ The created shape template is saved to the database.

All recorded parameters are now permanently available as a shape template.

→ Section 4.7.1.4, "Applying a shape template"

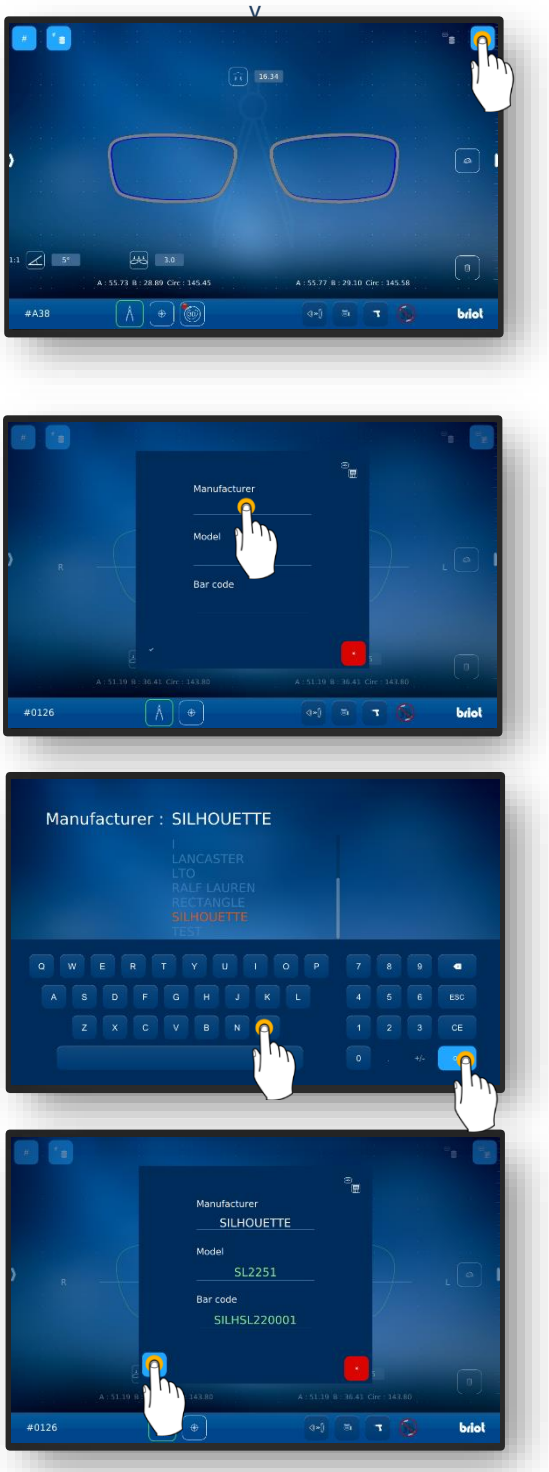


Figure 20 "Create shape template" screen

3.7.1.4. APPLYING A SHAPE TEMPLATE

☑ At least one shape template has already been saved.
☑ A new job has been created and is active.

Saved shape templates allow you to work with glasses data without prior measurement.

1. Press button (B-9.3) on the "Trace" screen once to call up the shape archive.

↙ The shape archive screen opens.

2. Tap once on the desired shape template in the shape list to select it.

Alternatively, you can use the filter list to limit the selection to a specific manufacturer.

↙ The selected shape template is highlighted in colour and displayed in the selection bar (A-9.31).
↙ The saved parameters are displayed on the right side of the screen (A-9-32).

3. Complete the selection by pressing the "☑" confirmation button.

↙ The view switches back to the "Trace" menu screen.
↙ The selected shape template is now active.

All saved parameters from the shape template are now loaded and can be used.
All shape templates in the database are standardly displayed as demo lenses after loading.
The frame type can be changed at any time as described in the following:

→ Section 3.5.2.1: Mechanical tracing process (B-9.2)

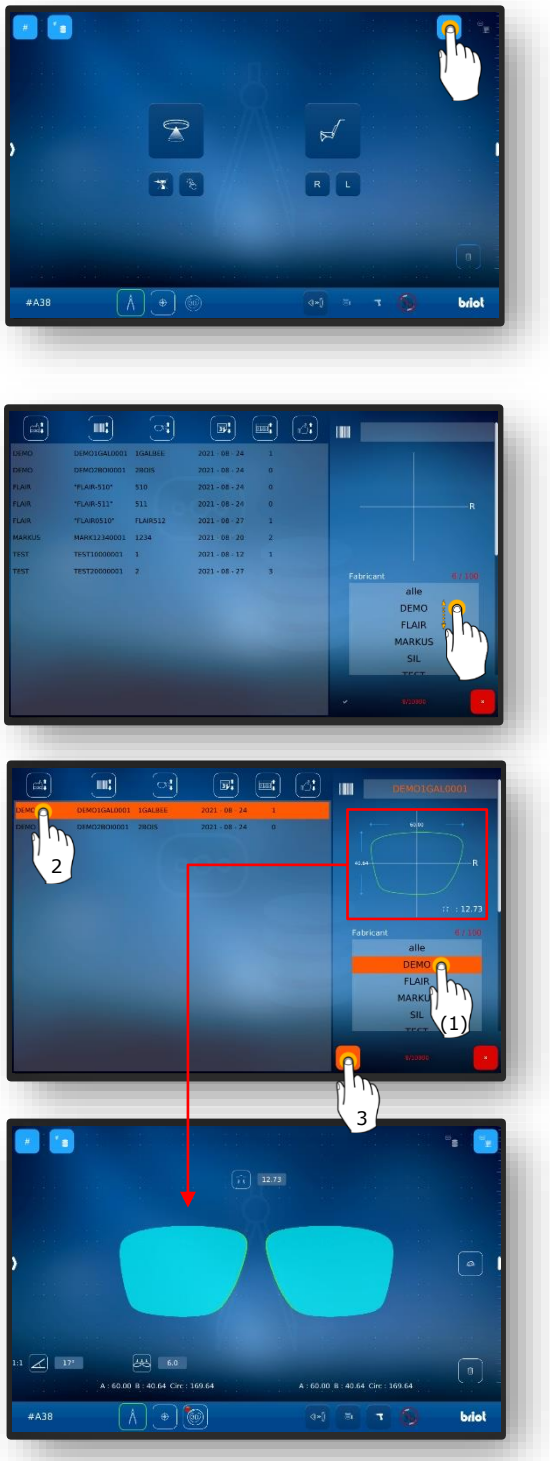


Figure 21 "Call up shape template" screen

3.7.2. RECORDING THE SHAPE WITH GRAVITECH™ "EDGED OR DEMO LENS"

☑ A new job has been created and is active.

1. Place the frame on a flat surface and mark the desired lens with the supplied felt pen marking tool (TL-1).

- The axis should always be drawn on the inward-curving lens side.
- The drawn axis should not be longer than 15 mm.
- For automatic detection of the demo lens side by the device to be possible, the axis must be drawn at an offset toward the nasal side.
- The automatic detection option must be configured beforehand.

→ Section 4: Configuration

- If the side of the lens is set up manually, the axis can also be applied at the centre.

2. Centre the marked lens with the convex / outward-curving side facing down on the GravitechTM optical tracer (4).

- If the lens is placed with the concave / inward-curving side facing down, the recording cannot be made with respect to the centroidal axis.
- Make sure the inserted lens and the lens support surface are clean to ensure optimal detection.

↙ The lens is now ready.

Figure 22 Optical tracer for recording the shape

3. Press button (B-9.1) by tapping on it once to start the process of recording the shape.

↙ The screen switches to trace mode.
↙ The GravitechTM optical tracer (4) is active.

Press button (B-9.7) to start the process without including the drill holes.

4. Tap the end points (H-1a) of the auxiliary axis (H-1) and shift to correct the angle. Tap and shift the axis cross (H-1b) to shift the entire auxiliary axis (H-1).

The marking applied to the lens with the felt pen marking tool (TL-1) must lie between the two green lines of the auxiliary axis (H-1).

The functions of the individual parameters (side menu) are described in the following section.

→ Section 3.5.4: "Record shape" buttons parameterised

5. Press the confirmation button "✓" to accept the determined data.

↙ The "Trace" screen opens.
↙ The process is finished.
↙ The shape has now been successfully recorded.

For 3D visualisation of the eyeglass lens in the frame to be possible, the base curve of the demo lens must be recorded.

→ Section 3.5.5.1: Submenu: Measure eyeglass lens base curve (B-8.9)

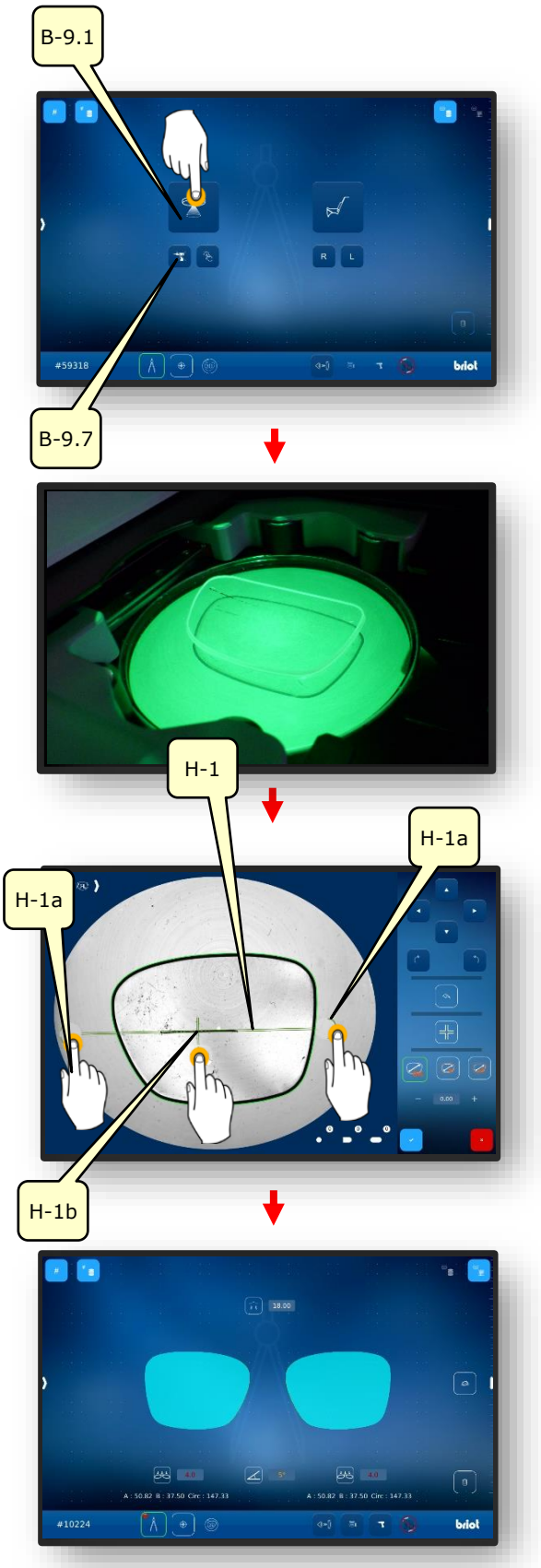


Figure 23 Software for recording the shape

3.7.3. MEASURING THE FRAME

☑ A new job has been created and is active.

1. Pull the handle (2.1) on the mechanical tracer (2) outward and hold in position.

↙ The mechanical tracer (2) is open and ready for use.

The mechanical tracer (2) must be held open by hand during the clamping operation.

2. Insert the frame between the clips (2.2) and centre with respect to the recess (2.3).

3. Close the mechanical tracer (2) by moving the handle in the direction of the frame with a smooth movement.

Ensure that the frame is positioned in all four clips (2.2).

↙ The mechanical tracer (2) is closed.

↙ The frame is ready to be measured.

The description below shows how to start the measurement via the software.

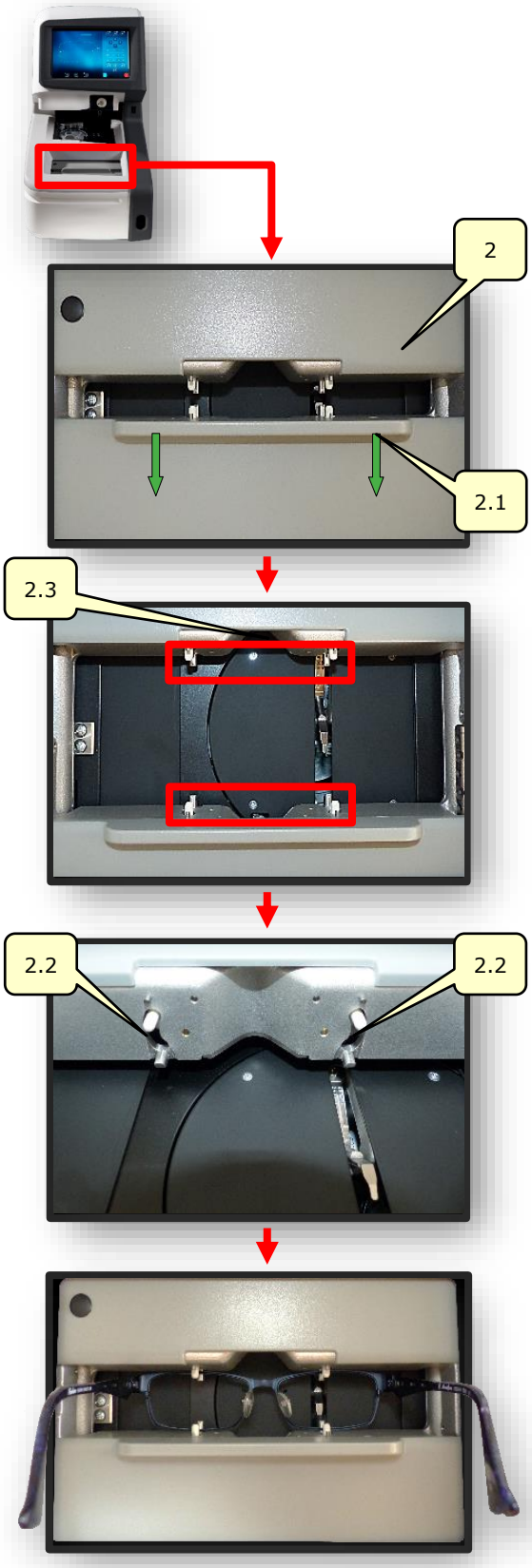


Figure 24 Mechanical tracer for recording the frame

4. Press -9.2) by tapping on it once to record the frame.

↙ The screen switches to trace mode.

↙ The mechanical tracer traces the frame (L/R).

Press button (B-9.4) to measure the left side individually.

Press button (B-9.5) to measure the right side individually.

The symbol (A-9.2a) rotates about its own axis during the measurement process.

5. Swipe the screen inward from the left edge to open the window for subsequent parameterisation of the measured frame.

The functions of the individual parameters (side menu) are described in the following section.

→ Section 3.5.3: "Trace" buttons parameterised.

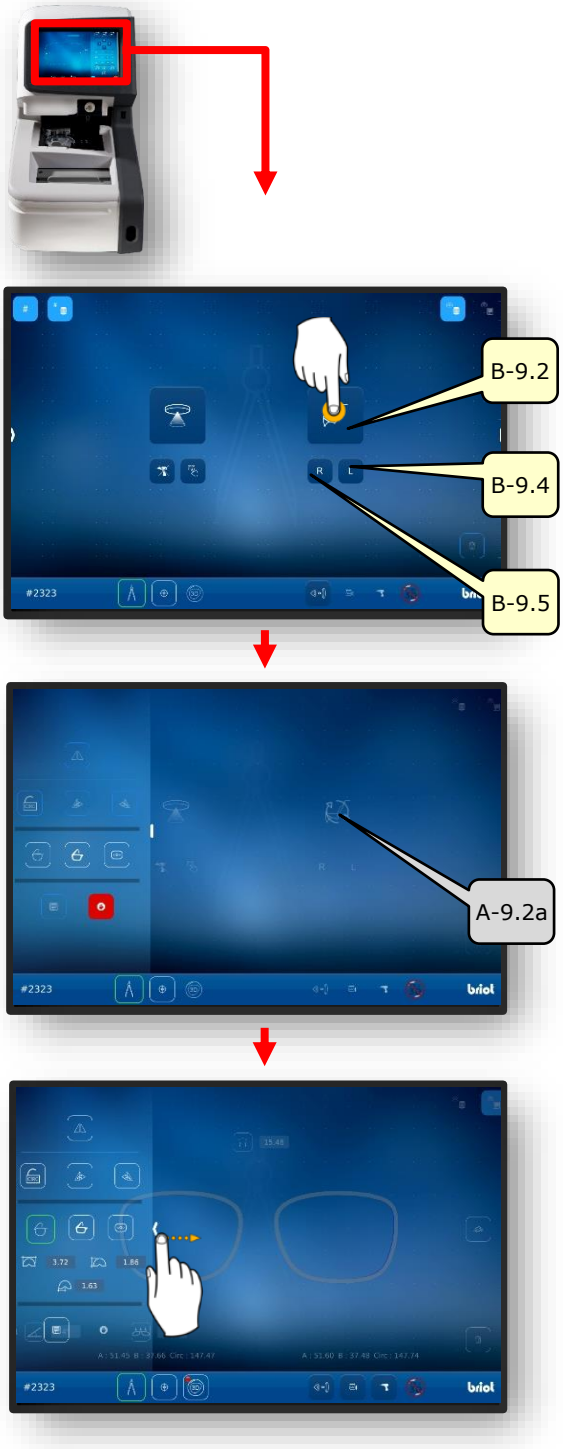


Figure 25 Software for measuring the frame (1)

6. Place one finger on the multi-touch display (B) and rotate it on the screen surface to orbit around the 3D model of the frame.

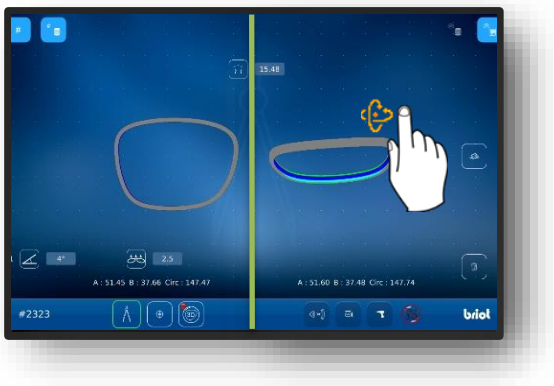


Figure 26 Software for "measuring the frame" (2)

- The screen for adjustment of the bevel in the cross section enables fine adjustment of the bevel position and its progression.
- The visual display shows the model with a colour progression.
- Blue: Back region of groove
- Light blue: Front region of groove
- Green: Unprocessed region

- The "Trace" screen opens.
- The process is finished.
- The frame has now been successfully measured.
- The frame can be taken out of the mechanical tracer.

3.7.4. "SHAPE CREATOR" FUNCTION

☑ A new job has been created and is active.
☑ Offset tool is on hand.

The "Shape creator" function can be used for tracing lenses in installed condition.
Defective glasses can be reconstructed with the "Shape Creator."

1. Mount the offset tool (VWZ) on the plate in the working chamber of the Gravitech™ optical tracer (4).

2. Tap button (B-9.6) once.

↙ The screen for aligning the frame in a live image opens.

3. Place the frame with the lens to be reconstructed flush against the offset tool.

Centre the frame between the two reference holes (REF) in the offset tool.
Lay the left side of the frame as flatly as possible on the Gravitech™ (4) optical tracer.

4. Tap button (B-9.6a) once.

↙ The process is started.
↙ The frame is scanned by the Gravitech™ optical tracer.
↙ The screen switches to the screen of the "Shape Creator" function.

Figure 27 Preparation for the "Shape Creator"

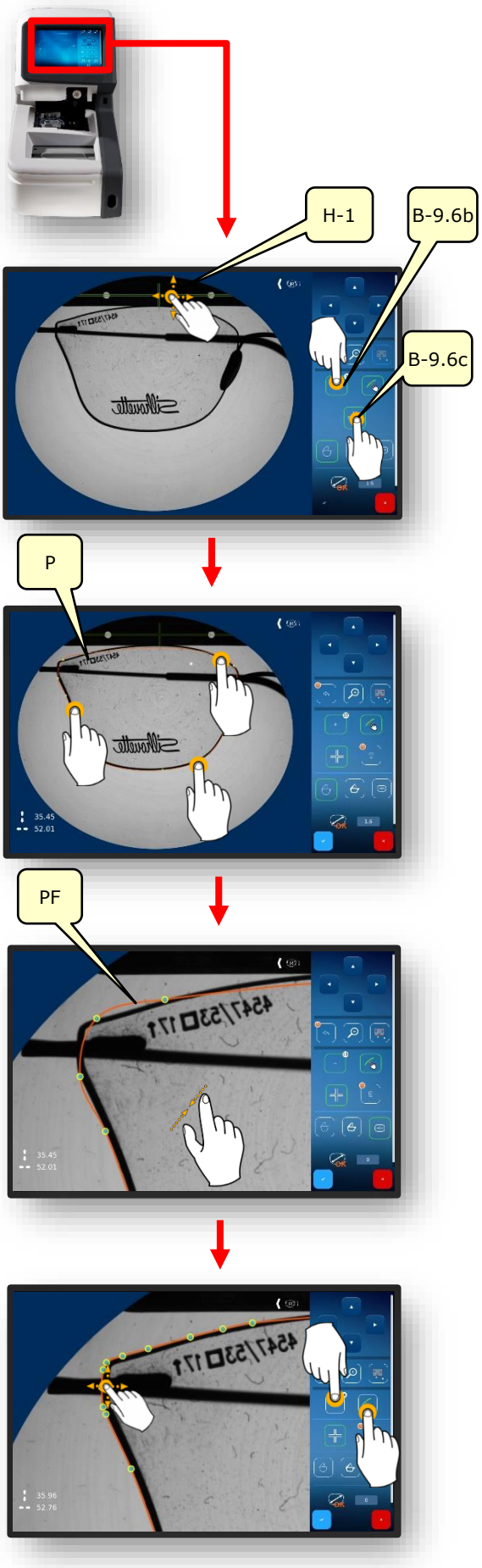
5. Place the auxiliary axis (H-1) over the reference holes and lock it by tapping the snap tool button (B-9.6c).

↙ The frame is aligned with the auxiliary axis.
↙ The shape can now be reconstructed.

6. Tap button (B-9.6b) to generate points (P).

7. Tap once along the contour to record the rough shape of the lens.

The points are connected via a "path" (PF).
The points automatically form a closed contour along the "path" when at least four points are generated.
The active snap tool allows for easy alignment to the contour.



8. Enlarge the generated rough contour by zooming to perform fine path (PF) corrections.

→ Section 3.2.1: Using the Screen

9. Tap the snap tool (B-9.6c) and generation of points (B-9.6b) to deactivate.

10. Refine the contour by generating additional points (P).

If you deactivate the snap tool, you can precisely align the points in the dark regions of the glasses.

The number of generated points is displayed in the information box next to button (B-9.6b).

Press and hold button (B-9.6d) to delete incorrectly placed or unnecessary points.

11. Press the confirmation button to conclude the process.

→ Section 3.2.2: Display and indication

12. Enter the bridge width (AZG) via the keypad that appears and tap the confirmation button to conclude.

→ Section 3.2.3: Input Lines and Keyboards/Keypads

↙ The screen switches to the "Trace" menu (B-9).

↙ The constructed eyeglass lenses are displayed in 3D.

↙ The process is finished.

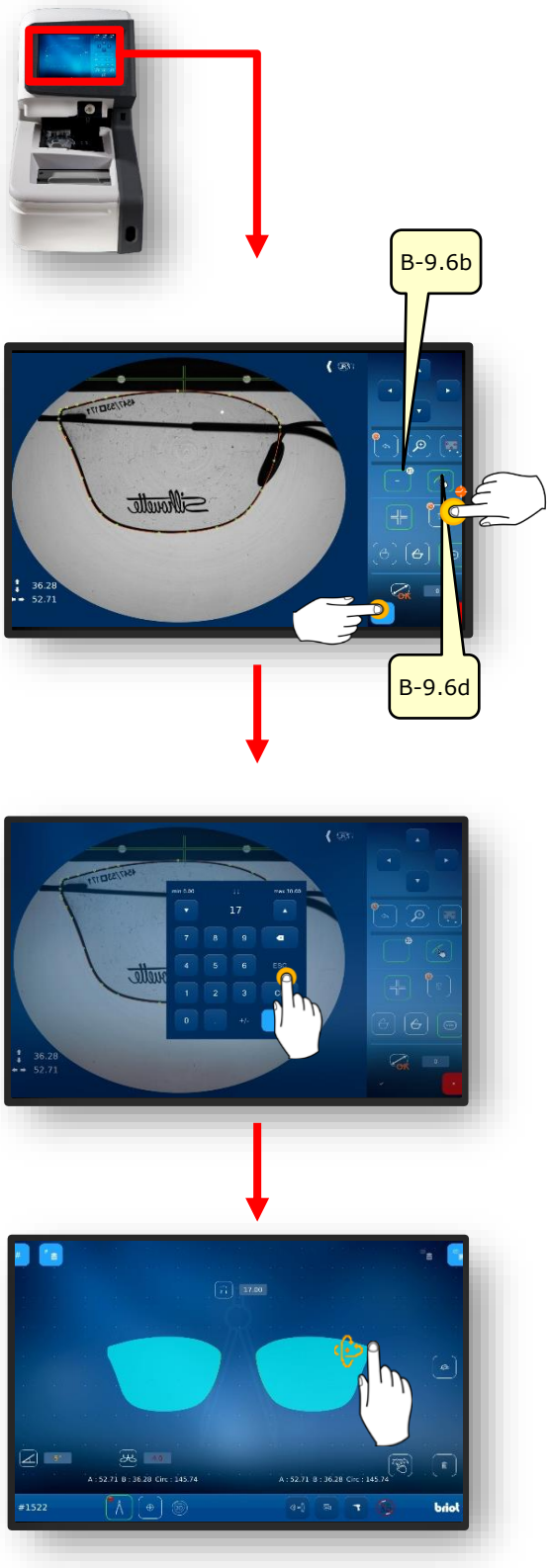


Figure 28 "Shape creator" function

3.7.5. DRILLING PLAN

3.7.5.1. DESCRIPTION OF BUTTONS

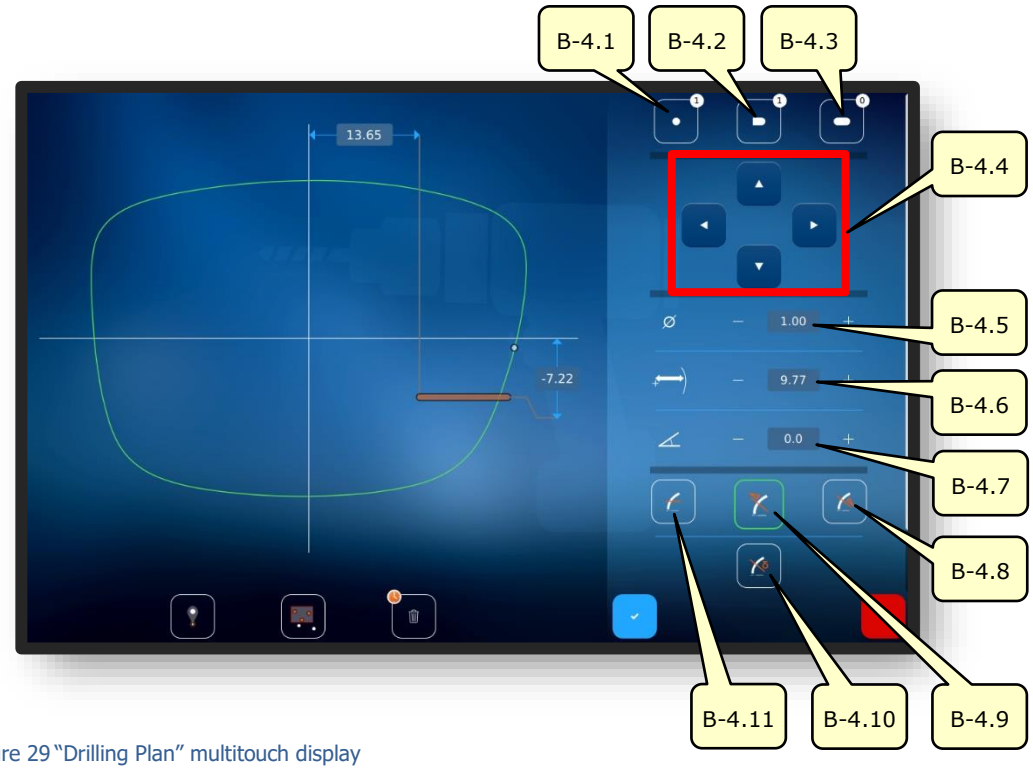


Figure 29 "Drilling Plan" multitouch display

No.	Operating element	Function
B-4.1	Button	Activate creation of a drill hole. The number of drill holes already existing is displayed.
B-4.2	Button	Activate creation of a slot. The number of slots already existing is displayed.
B-4.3	Button	Activate creation of a notch. The number of notches already existing is displayed.
B-4.4	Buttons	This can be used to shift the active drill hole (or the active drill hole group).
B-4.5	Diameter	Adjust drill hole diameter.
B-4.6	Distance to lens edge	Adjust position of drill hole to lens edge.
B-4.7	Inclination	Adjust angle between drill hole and lens edge.
B-4.8	Button	Drill hole at 90° angle to back surface.
B-4.9	Button	Drill hole at 90° angle to front surface.
B-4.10	Button	Drill hole at 90° angle to a set base curve (manual angle setting).
B-4.11	Button	Drill hole parallel to clamping axis.

The description is continued on the following page.

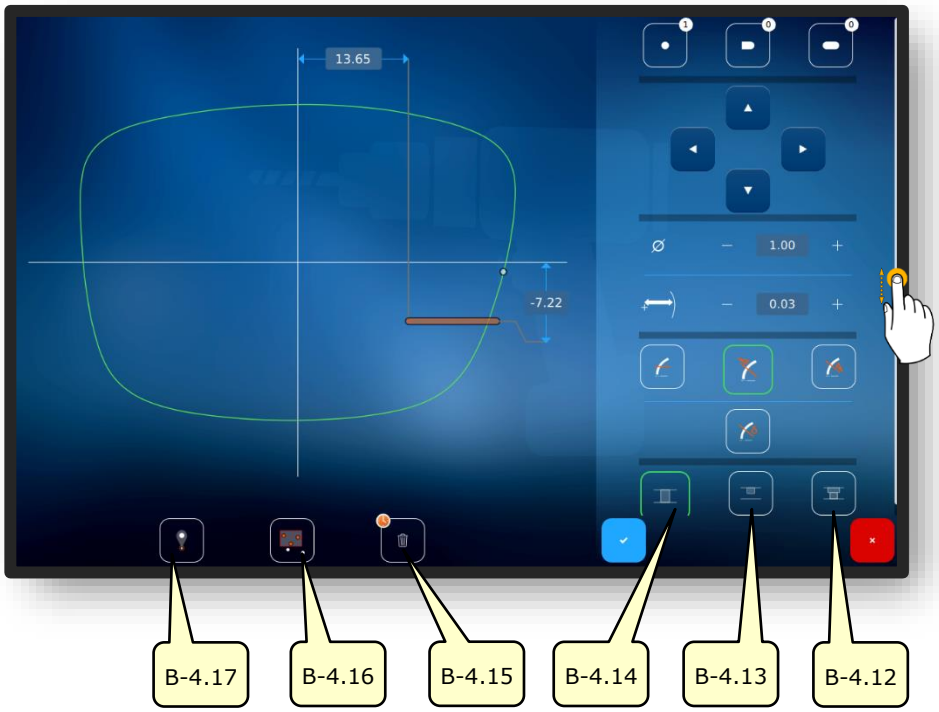


Figure 30 "Drilling Plan" multitouch display

No.	Operating element	Function
B-4.12	Button	Drill stepped through hole.
B-4.13	Button	Drill blind hole.
B-4.14	Button	Drill through hole.
B-4.15	Button	Delete selected drill holes. Hold down to delete all drill holes.
B-4.16	Button	Activate grouping function.
B-4.17	Button	Activate hot spot function.

The grouping function can be used for shifting and adjusting multiple selected elements as a group (drag & drop). The active drill holes and notches can also be raised or lowered to a common plane and adjusted so that there is a uniform spacing between elements.

The hot spot function shows the distances of all other drill holes to the selected hot spot and enables these distances to be adapted.

Selected drill holes and notches are highlighted in red.

→ Section 3.2.2: Display and indication

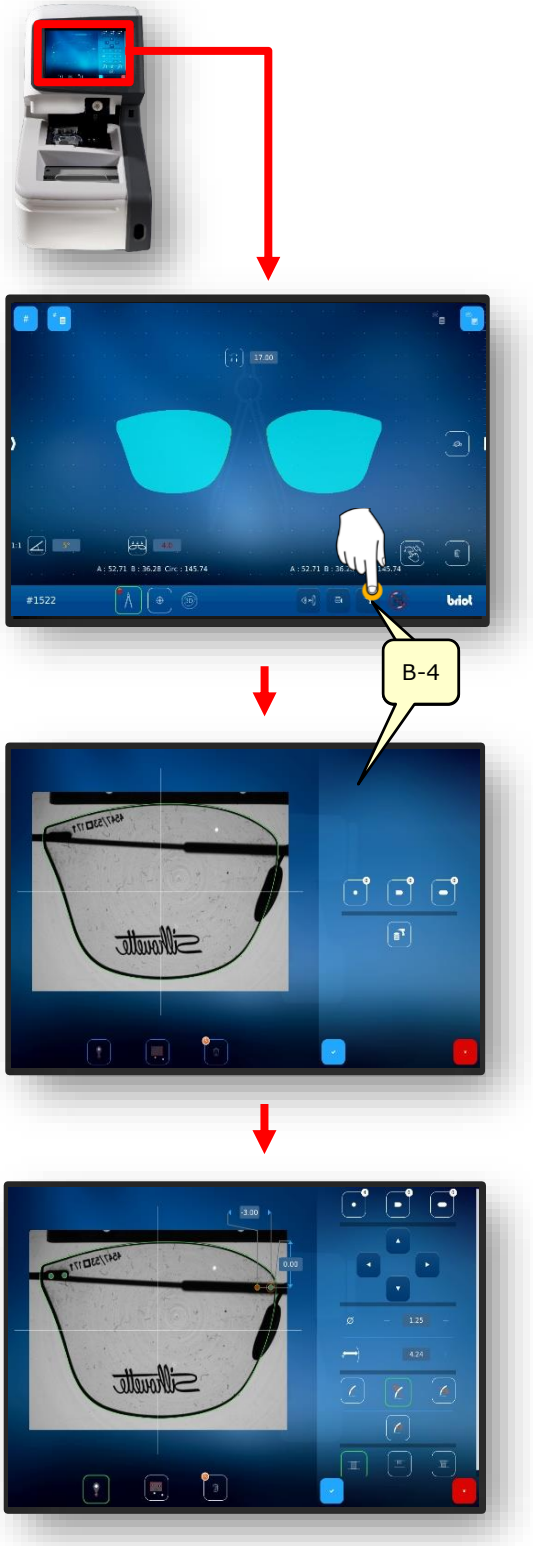
3.7.5.2. CREATING A DRILLING PLAN

☑ A new job has been created and is active.
☑ Lens has been measured or shape template is loaded.

The "Create drilling plan" function can be used for planning and simultaneously defining drill holes and their positioning.

1. Tap button (B-4) once.

The display switches to the "Drilling plan" screen.



Round holes, slots, and notches can be defined.
The meanings of the hole symbols are given in the following section.

→ Section 3.5.4: "Record shape" parameterised

2. Adjust the numerical values appropriately and confirm.

→ Section 3.2.3: Input Lines and Keyboards/Keypads

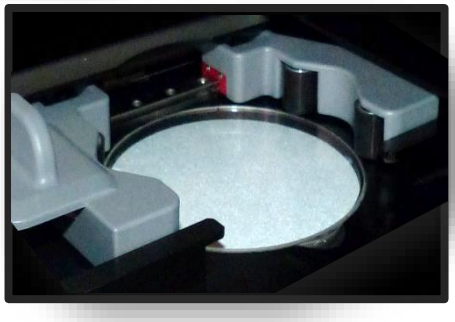
Figure 31 Drilling data management

3.7.6. POSITIONING OF AN EYEGLASS LENS

☑ A new job has been created and is active.
☑ Eyeglass lens is on hand.

Ensure that the clamping chuck is open.

1. Tap button (B-9.6) once.



↙ The screen for aligning the frame in a live image opens.

2. Place the frame with the lens to be reconstructed flush against the offset tool.

Centre the frame between the two reference holes (REF) in the offset tool.
Lay the left side of the frame as flatly as possible on the Gravitech™ (4) optical tracer.

3. Tap button (B-9.6a) once.

↙ The process is started.
↙ The frame is scanned by the Gravitech™ optical tracer.
↙ The screen switches to the screen of the "Shape Creator" function.

Figure 32 "Positioning a Lens"

3.7.7. CENTRING A LENS

3.7.7.1. DECENTRATION DATA

☑ A new job has been created and is active.
☑ Frame has been measured or shape template is loaded.

1. Tap button (B-8) once.

↙ The display switches to the "Centre" screen.

Tap once on an individual value to change it.

Operator actions are required for all numerical values displayed in red.

→ Section 3.2.2: Display and indication

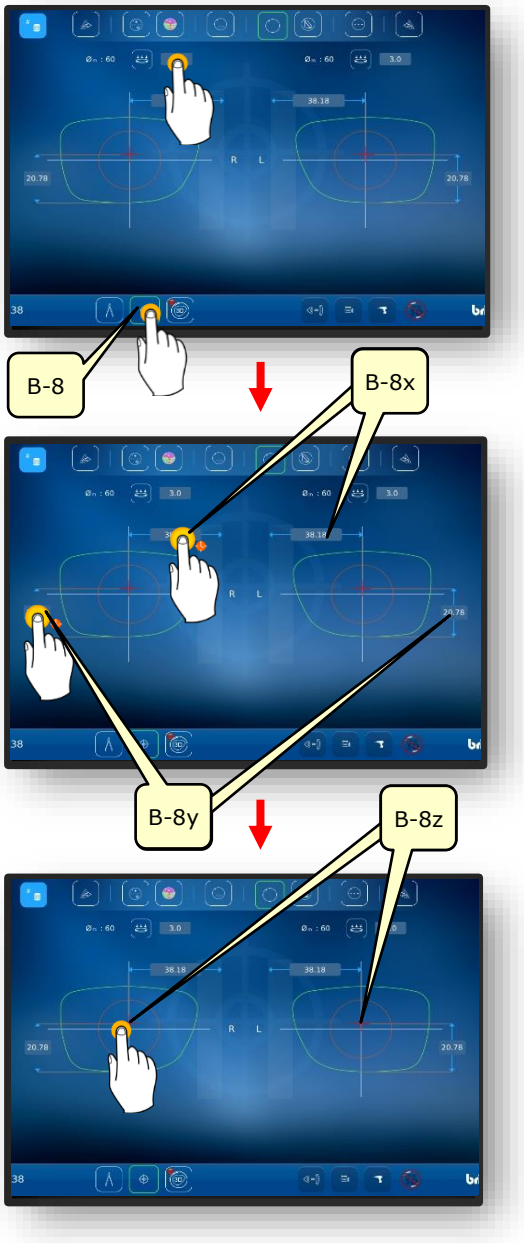


Figure 33 Standard decentration data

Hold down button (B-8x) to switch from "Half Pupillary Deviation" mode to "Delta X" mode.

Hold down button (B-8y) to switch from "Box Height" mode to "Frame Edge Height" mode and from "Frame Edge Height" to "Delta Y" mode.

2. Adjust the numerical values appropriately and confirm.

→ Section 3.2.3: Input Lines and Keyboards/Keypads

Tap the respective red cross hairs (B-8z) to start automatic centring.

→ Section 3.7.7.4: "Automatic centring"

3.7.7.2. CENTRING A PROGRESSIVE LENS

→ Section 3.7.6.1: Decentration data

→ Section 3.7.5: "Positioning a Lens"

Automatic centring only works with single vision and prism lenses.

1. Check the measured data against the inscription.

2. Tap button (1) once to view the centring in detail.

↙ The screen for manual centring opens.

Use two fingers to zoom in on the lens.

You can now precisely position the engravings.

3. Precisely align the engraving via the cross hairs.

↙ The engraving is now positioned.

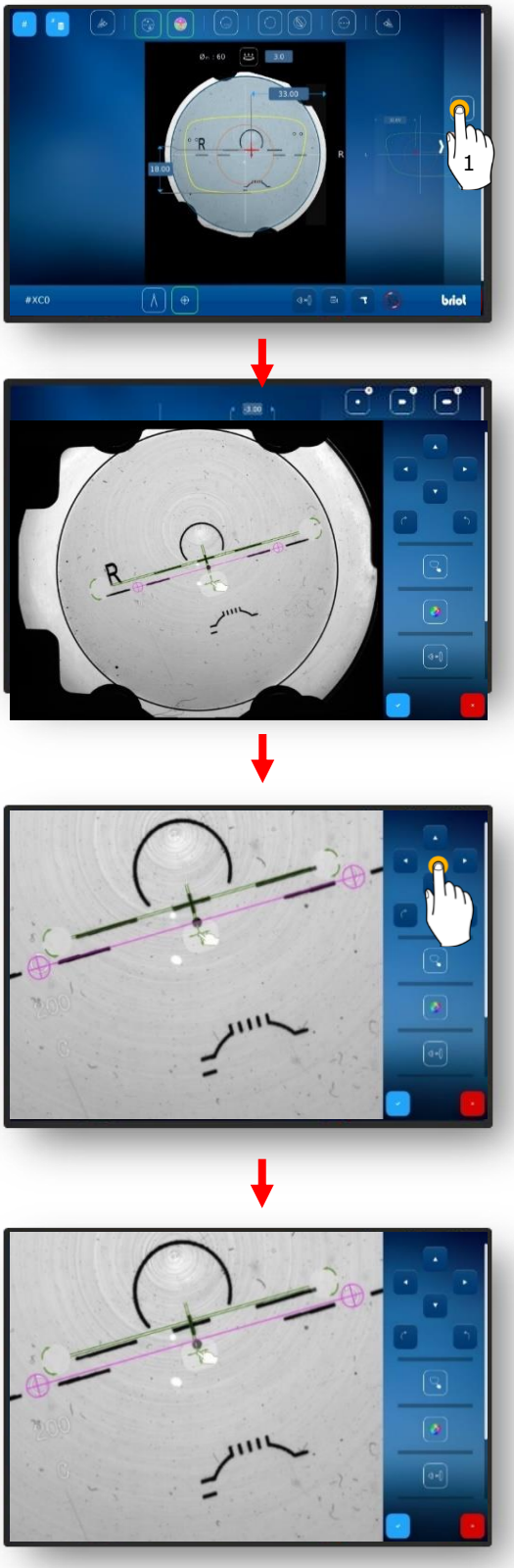


Figure 34 Centring a Progressive Lens (1)

Double-click the zoomed region to zoom back out.

4. Confirm the adjusted engraving via the "☑" button.

↙ The superimposed shape is displayed with the lens.

5. If the wavefront measurement was activated at the start and you want to display it, tap button (2) once.

↙ The power map (wavefront) display opens.

You can determine the power in an area by clicking on the relevant area (marked by the red cross).

In this case, it is the distance zone.

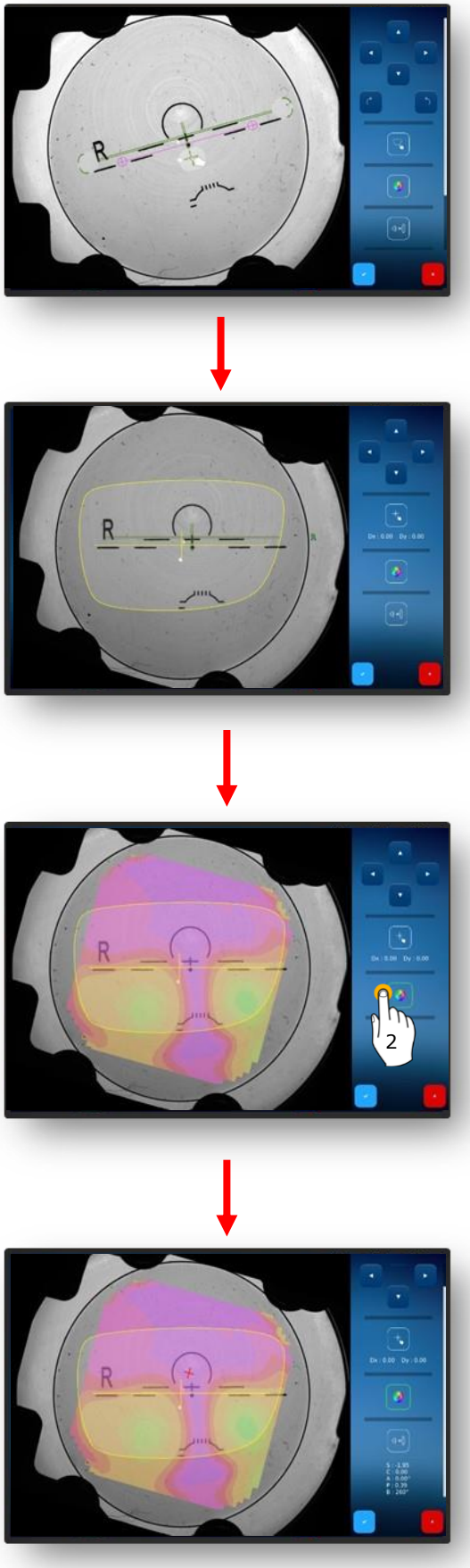
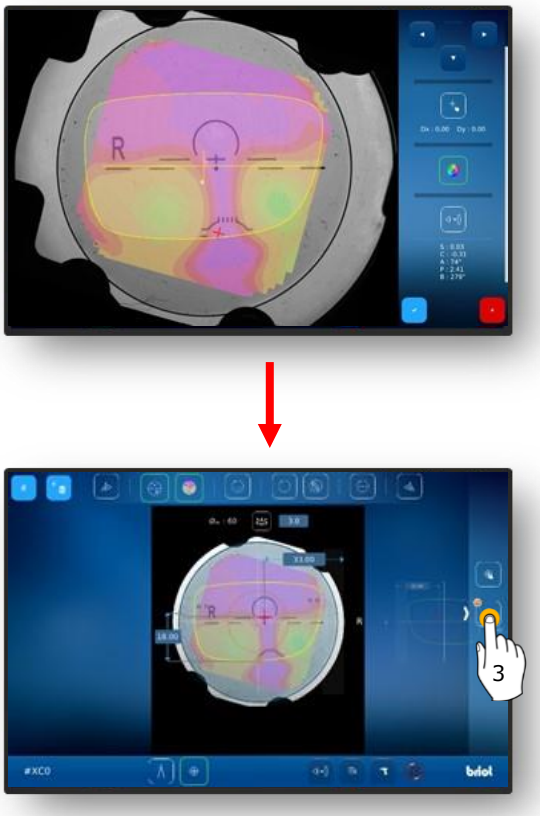


Figure 35 Centring a Progressive Lens (2)

6. Tap the "☑" button once to confirm.

In this case, the power in the near zone is displayed.



7. Tap button (3) to block the lens.

↙ The lens is blocked.

→ Section 3.5.5: "Centre/Block"

Figure 36 Centring a Progressive Lens (3)

3.7.7.3. CENTRING A BIFOCAL LENS

☑ A suitable lens is in position.

→ Section 3.7.6.1: Decentration data
→ Section 3.7.5: "Positioning a Lens"

1. Check the measured data and the centring using the near segment.

2. Tap button (1) once if a detailed view is necessary/desired.

↙ The screen for manual centring opens.

The different zones of the bifocal lens are detected and the lens is accordingly aligned.

3. Tap the "☑" button once to confirm.

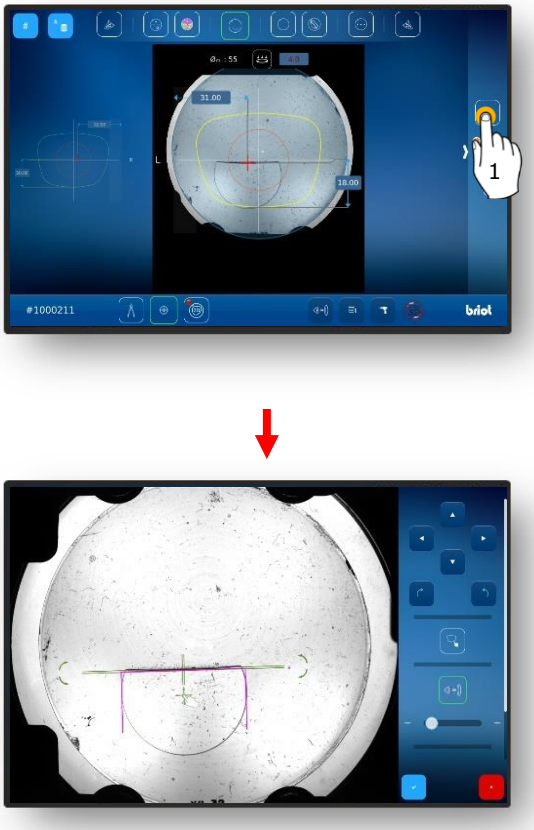


Figure 37 Centring a bifocal lens

3.7.7.4. CENTRING A PRISM LENS

1. Tap button (B-8.6) once.

↙ The input fields for adding the base of the prism width (B-8.6a) and the prism angle (B-8.6b) appear.

Tap once on an individual value to change it.

Operator actions are required for all numerical values displayed in red.

→ Section 3.2.2: Display and indication

2. Adjust the numerical values appropriately and confirm.

→ Section 3.2.3: Input Lines and Keyboards/Keypads

↙ The auxiliary cone (HK) for display of the set prism values is shown.

Tap the different lens illustrations to switch between the R and L sides.

The values can be adjusted independently.

The previously entered values for the other lens side are automatically adopted and displayed in red when you switch.

Depending on the setting (in the "Settings" menu), the prism can be specified either according to prism width and base direction or in rectangular coordinates (horizontal and vertical).

→ Section 3.2.2: Display and indication

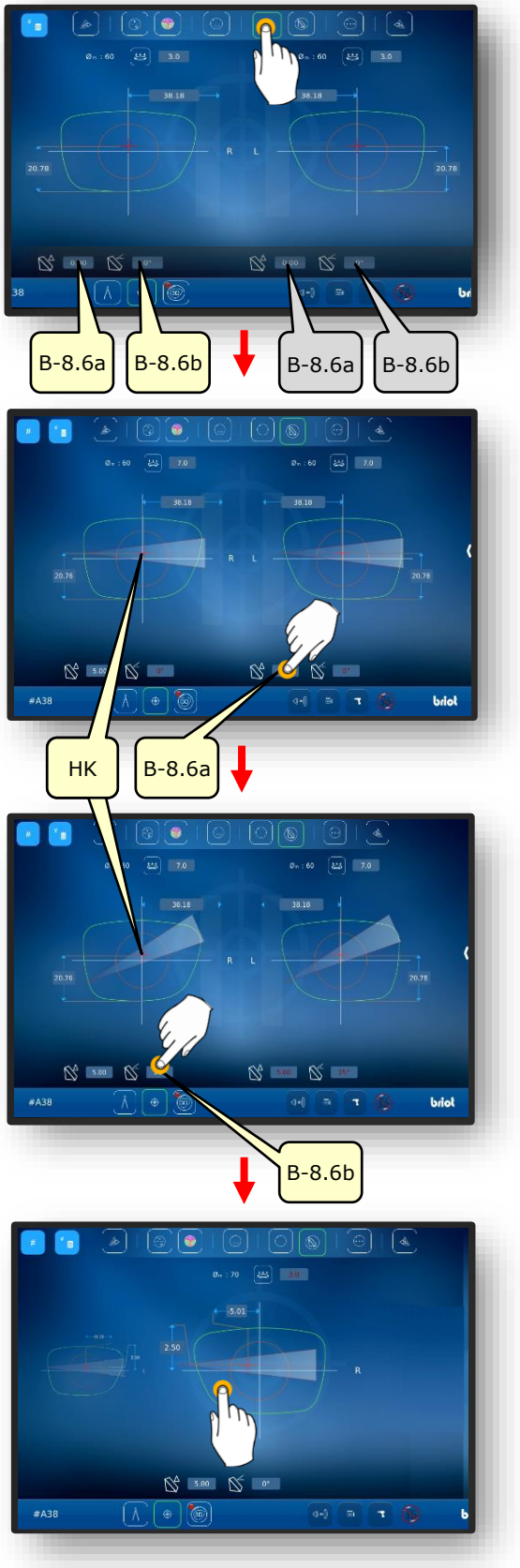


Figure 38 Decentration data for prism

3.7.7.5. CENTRING A TRIFOCAL LENS

☑ Trifocal lens is inserted.

1. Tap button (B-8.7) once.

→ Section 3.2.3: Input Lines and Keyboards/Keypads

Tap the respective red cross hairs (B-8z) to start automatic centring.

2. The yellow contour reference (KF) must be shifted with the arrow buttons.

3. Adjust the alignment appropriately and confirm.

→ Section 3.2.3: Input Lines and Keyboards/Keypads

↙ The trifocal lens is now centred.

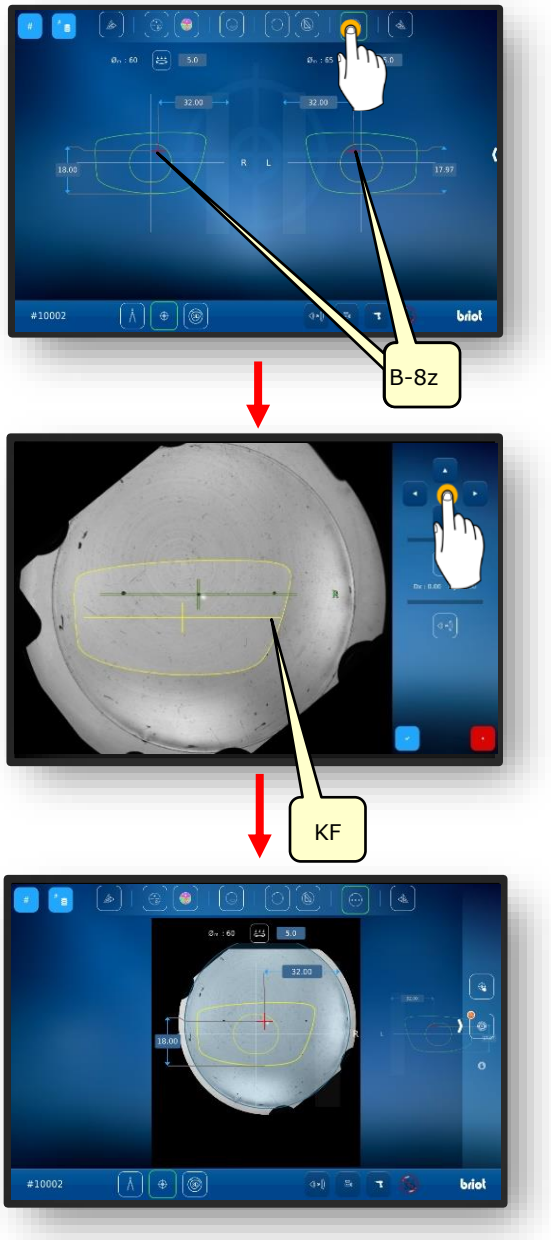


Figure 39 Centring a trifocal lens

3.7.7.6. AUTOMATIC CENTRING OF A SINGLE VISION LENS

☑ A new job has been created and is active.
☑ Frame has been measured or shape template is loaded.
☑ Decentration data have been recorded.
☑ A suitable lens is in position.

→ Section 3.7.6.1: Decentration data
→ Section 3.7.5: "Positioning a Lens"

Automatic centring only works with single vision and prism lenses.

1. Select the desired glasses side by tapping once in the corresponding outer lens region.

↙ The selected glasses side is brought to the foreground.

2. Tap once on the appropriate mode in the menu bar at the top of the screen to select it.

Ensure that a suitable lens has been placed on the lens table and clamped.

3. Tap the inner region of the selected glasses side.

↙ The "Automatic centring" process is started.
↙ The screen with the recorded data opens.
↙ The process is finished.

Tap once on the recorded data to change manually.

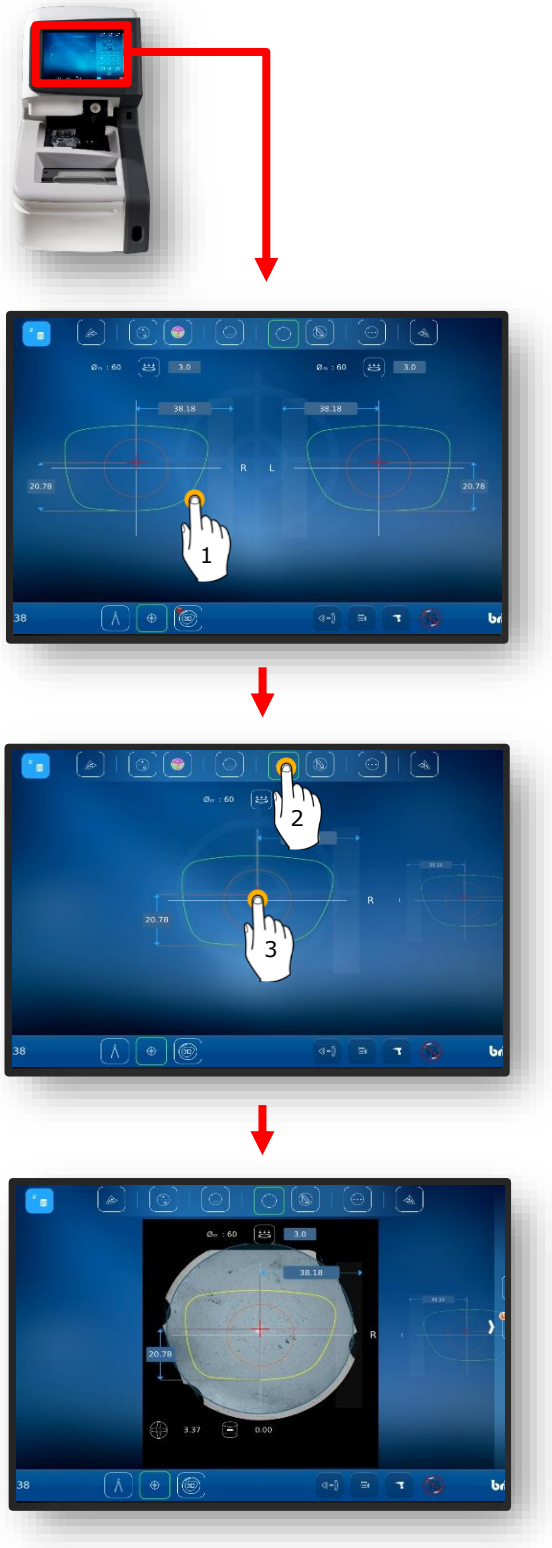


Figure 40 Automatic centring

3.7.7.7. MANUAL CENTRING OF THE LENS

☑ A new job has been created and is active.
☑ Frame has been measured or shape template is loaded.
☑ Decentration data have been recorded.
☑ A suitable lens is in position.

→ Section 3.7.6.1: Decentration data
→ Section 3.7.5: "Positioning a Lens"

1. Select the desired glasses side by tapping once in the corresponding outer lens region.

↙ The selected glasses side is brought to the foreground.

2. Tap once on the corresponding mode in the menu bar at the top of the screen to select.

The individual buttons are described in the following section.

→ Section 3.5.5: Centre/block buttons

Ensure that a suitable lens has been placed on the optical Tracer Gravitech™ .

3. To begin, tap the cross inside the shape.

↙ The screen with the centred lens opens.

4. Swipe the screen from the right edge to the middle to open the side menu.

5. Tap button (MZ) once to select.

↙ The screen for manual centring opens.

6. Tap button (K) once to select.

↙ The contour adjustment screen opens.

The contour can be shifted with the arrow keys.

Contour areas that are outside the lens are shown in red.

7. The yellow contour reference (KF) must be positioned to be inside the lens area.

The contour reference (KF) line can be centred between the two lines of the lens axis.

8. Position the yellow contour reference (KF) in such a way that the prism amount is not exceeded.

If the prism amount is too high, it can lead to eye strain.

9. Tap the "☑" confirmation button once.

↙ The screen switches back to the selection of the glasses side.

↙ The contour for the selected side has been adjusted and the data have been adopted.

↙ The process is finished.

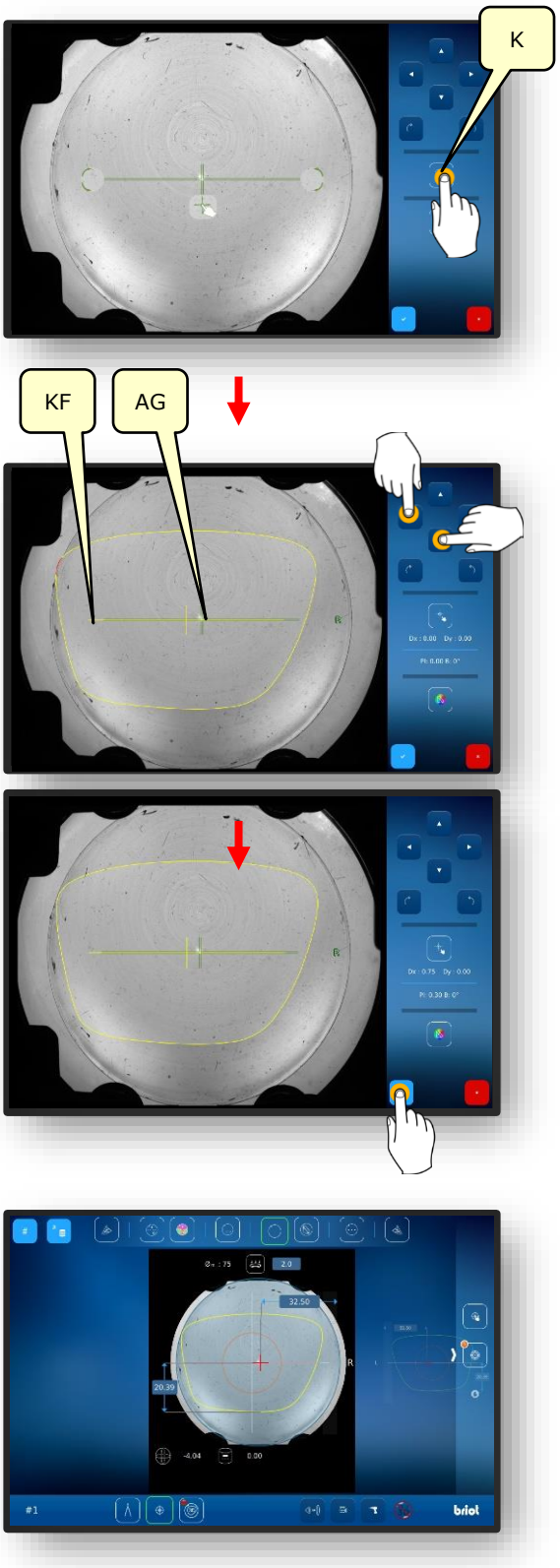


Figure 41 Manual centring of the eyeglass lens

3.7.8. SHAPE CHANGE – DIGIFORM FUNCTION

3.7.8.1. SIMPLE SHAPE CHANGE

☑ A new job has been created and is active.

1. Tap button (B-5) once.

↙ The display switches to the "Shape change" screen.

→ Section 3.2.2: Display and indication

→ Section 3.2.3: Input Lines and Keyboards/Keypads

→ Section 3.2.3: Input Lines and Keyboards/Keypads

The addition region can be enlarged or reduced in size in 0.5-mm steps.

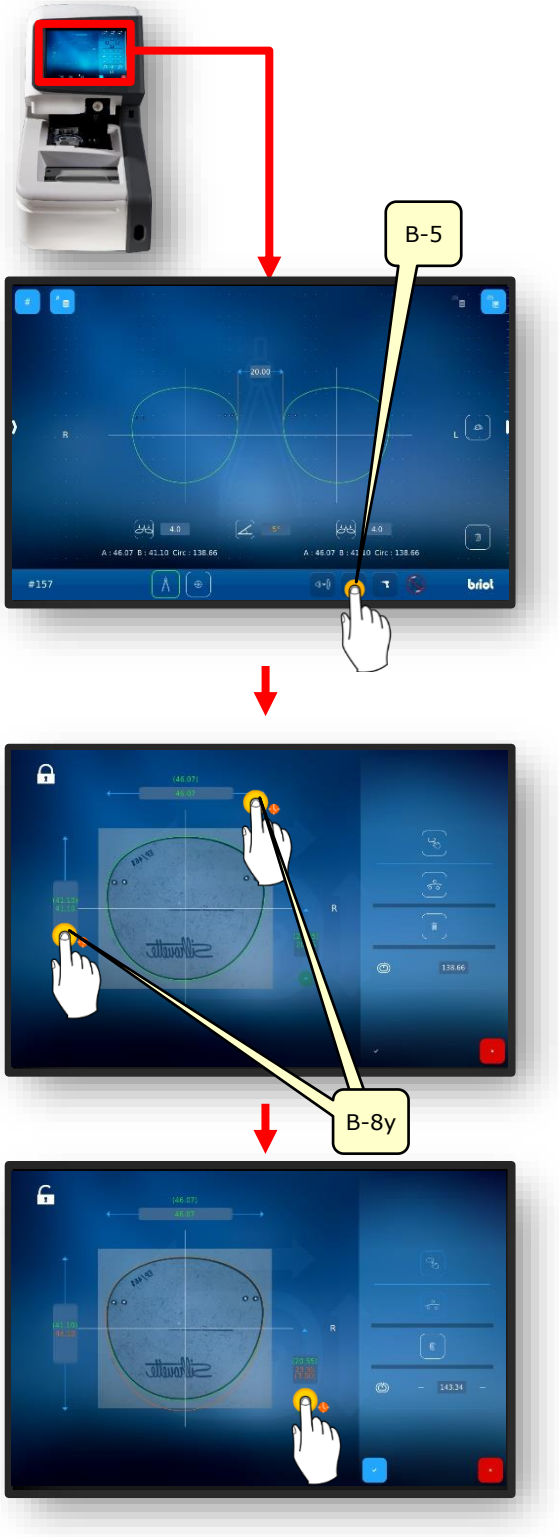


Figure 42 Simple shape change

→ Section 3.2.3: Input Lines and Keyboards/Keypads

In closed mode, the addition region can only be changed proportionally.

The addition region can be individually changed in open mode.

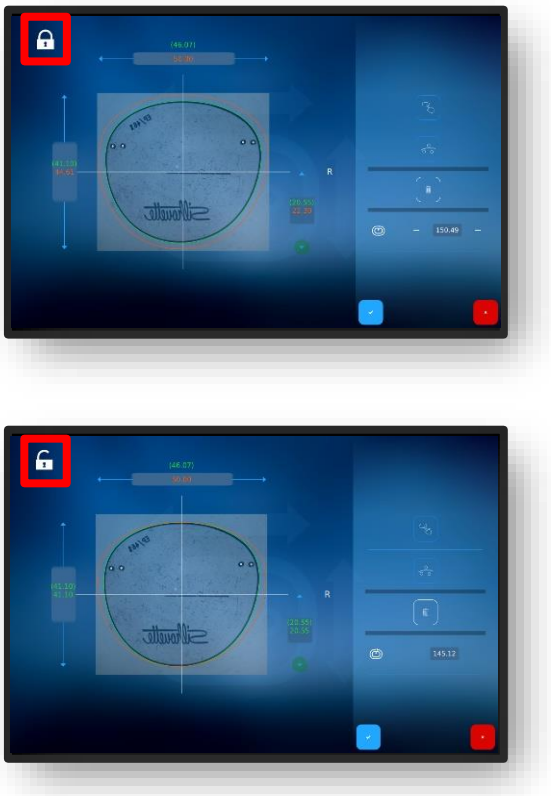


Figure 43 Simple shape change

3.7.8.2. VARIABLE SHAPE CHANGE

→ Section 3.2.3: Input Lines and Keyboards/Keypads

1. Tap button (VF) once.

↙ The screen for variable adjustment of the shape change opens.

To shift the boundary lines, hold and drag (1) and (2).

Hold and drag the red line to change the shape.

The shape changes tangentially in the region in which the red line is dragged.

The addition can also, e.g., be reduced in the nose region for semi-rimless glasses with nylon threads.

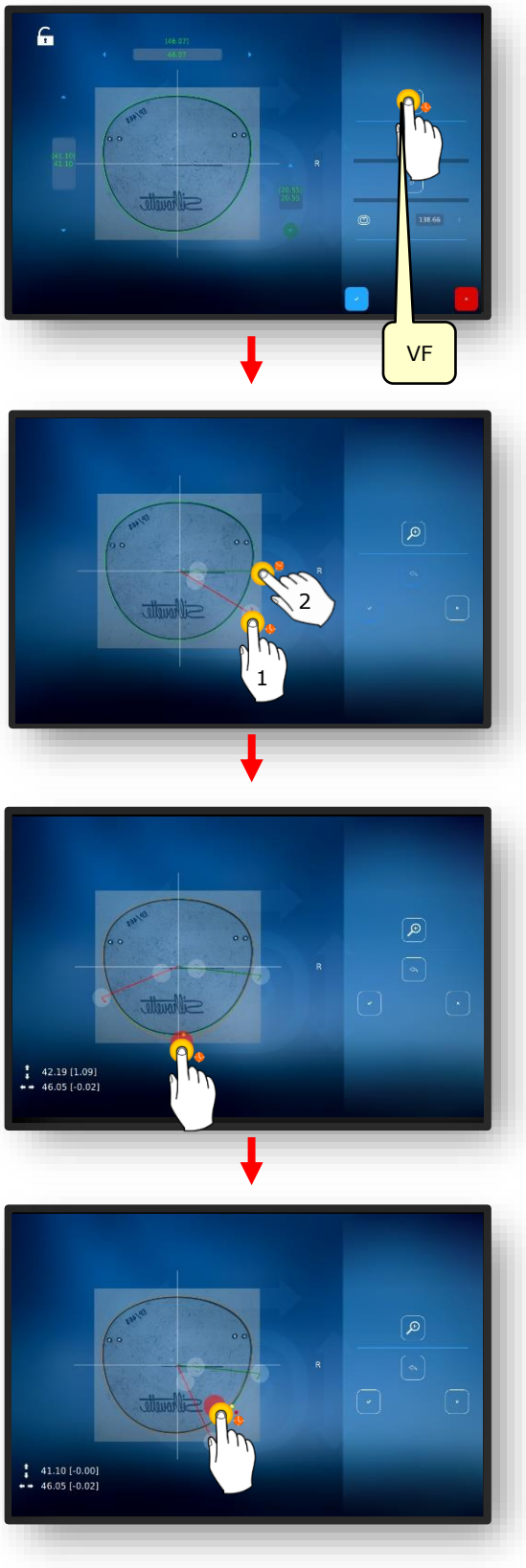


Figure 44 Variable shape change

→ Section 3.2.3: Input Lines and Keyboards/Keypads

2. Reposition the drill holes again and then confirm.

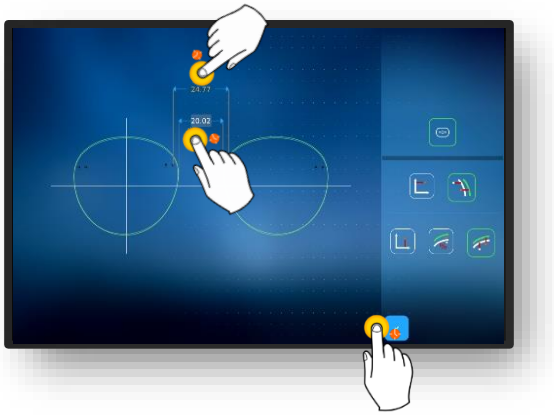


Figure 45 Variable shape change

3.7.8.3. SHAPE CORRECTION

1. Tap button (VK) once.

↙ The shape correction screen opens.

→ Section 3.2.3: Input Lines and Keyboards/Keypads

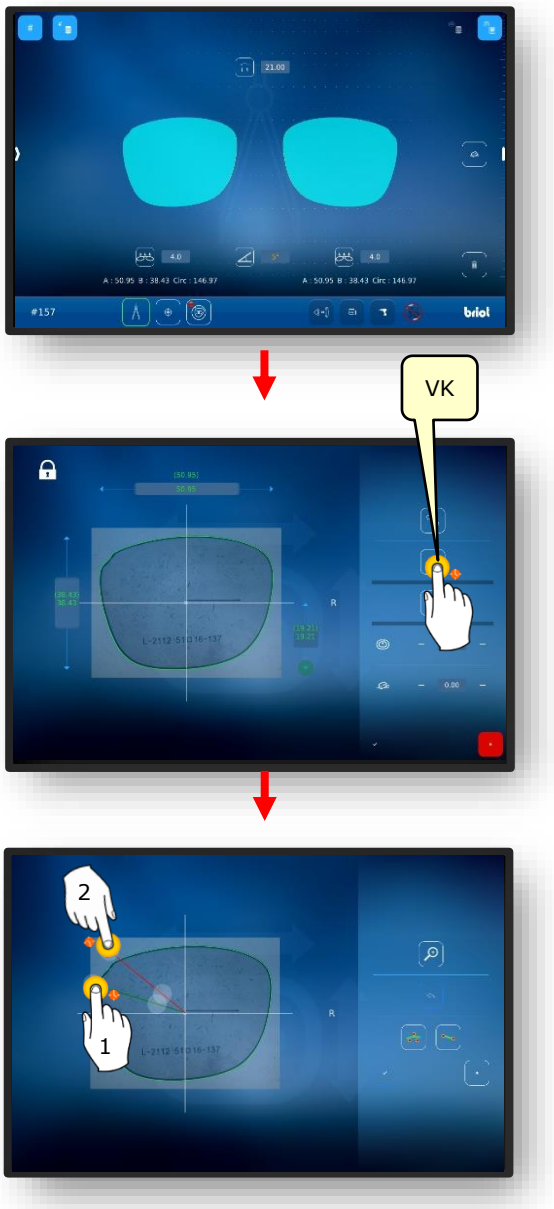


Figure 46 Shape correction (1)

To shift the boundary lines, hold and drag (1) and (2).

Press button (4) to enlarge the view.

Press button (4) to enlarge the view.

View of section of shape in enlarged mode

View of corrected section of shape in enlarged mode

Tap button (5) to correct the selected region tangentially.

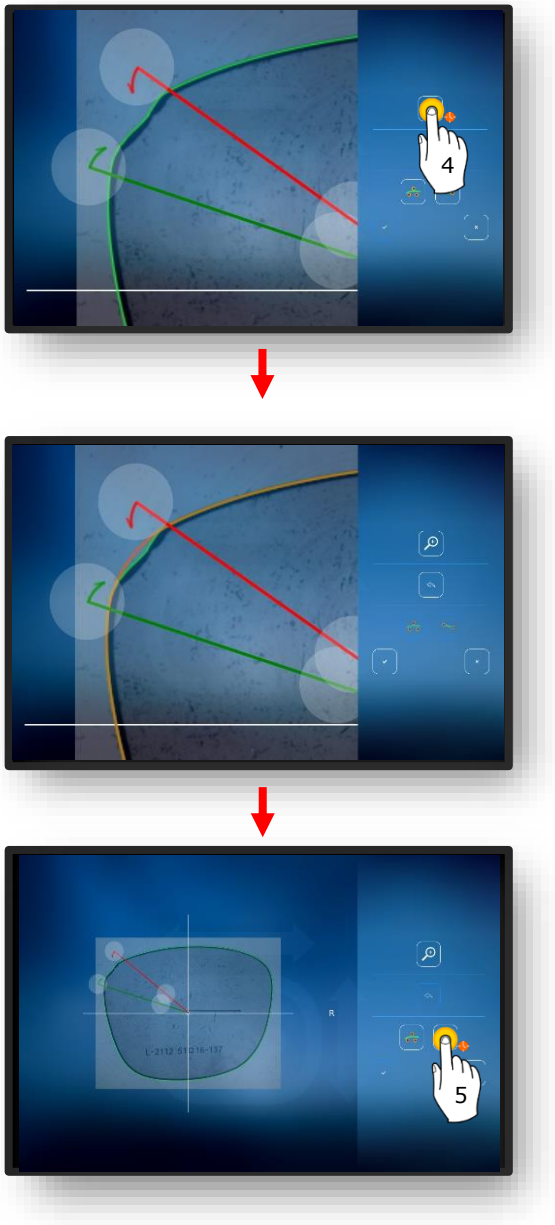


Figure 47 Shape correction (2)

View of tangentially corrected section of shape in enlarged mode

2. Press button (6) to confirm the adjustments.

→ Section 3.2.3: Input Lines and Keyboards/Keypads

3. Press the "✓" button and confirm the changes made to the shape.

↙ The view switches back to the "Shape correction" screen.

↙ The adjusted shape is now active.

Figure 48 Shape correction (3)

3.8. SIMULATION (VIRTUAL 3D)

3.8.1. RECORDING THE PATIENT DATA

- ☑ A new job has been created and is active.
- ☑ Lens/frame has been measured or shape template is loaded.
- ☑ Decentration data have been recorded.
- ☑ Lenses are centred.

1. Tap button (B-7) once.

↙ The display switches to the "3D Simulation" screen.

Tap once on an individual value to change it.

Operator actions are required for all numerical values displayed in red.

All numerical values shown in orange are optional and do not have to be adjusted.

→ Section 3.2.2: Display and indication

2. Adjust the numerical values appropriately and confirm.

→ Section 3.2.3: Input Lines and Keyboards/Keypads

If the lenses were centred in advance, they are shown in the 3D model.

Figure 49 Patient data

3.8.2. RECORDING THE REFRACTION DATA

1. Tap button (B-7.11) once.

↙ The display switches to the "Rx Data" screen.

The sphere (B.7.11.s) and cylinder (B-7.11z) parameters are given in the Rx data.

2. Adjust the numerical values appropriately and confirm.

→ Section 3.2.3: Input Lines and Keyboards/Keypads

The different lens types offer various setting possibilities.

For example, for prism lenses (B-8.6), the parameters are identical for both lens sides.

→ Section 3.7.6.1: Decentration data

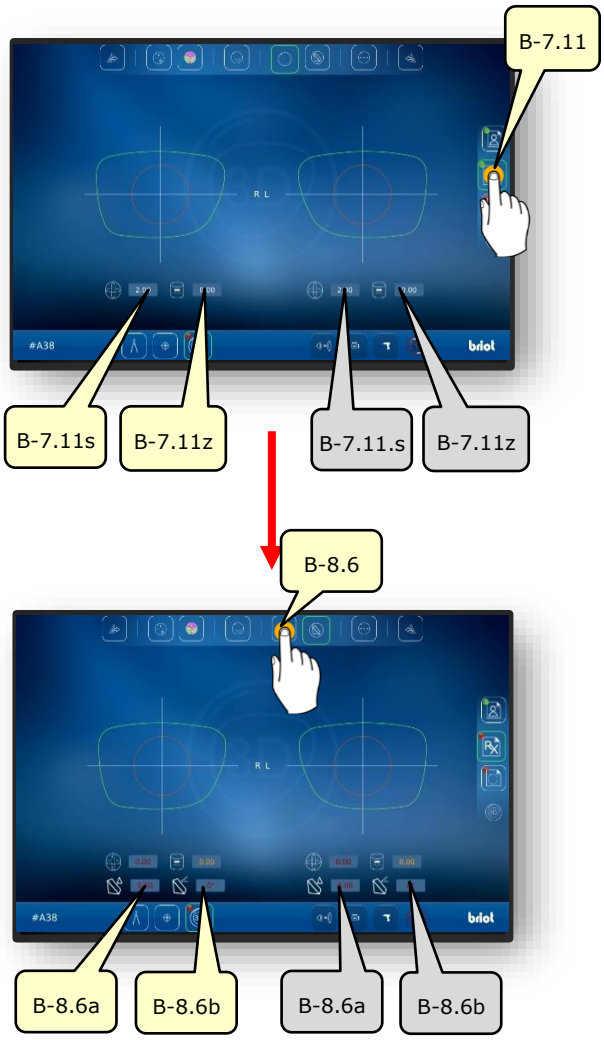


Figure 50 Refraction data

3.8.3. RECORDING THE LENS DATA

1. Tap button (B-7.12) once.

The parameters are identical for both glasses sides.

2. Tap button (B-7.14) once.

The lens geometry simulation opens.

3. Tap button (B-7.14a) once.

The thickest and thinnest edge points are displayed on the shape.

The thickest point is displayed with the large circle and the thinnest point with the smallest circle.

4. Tap button (B-7.14a) once.

The thickest and thinnest edge points are shown on the lens blank.

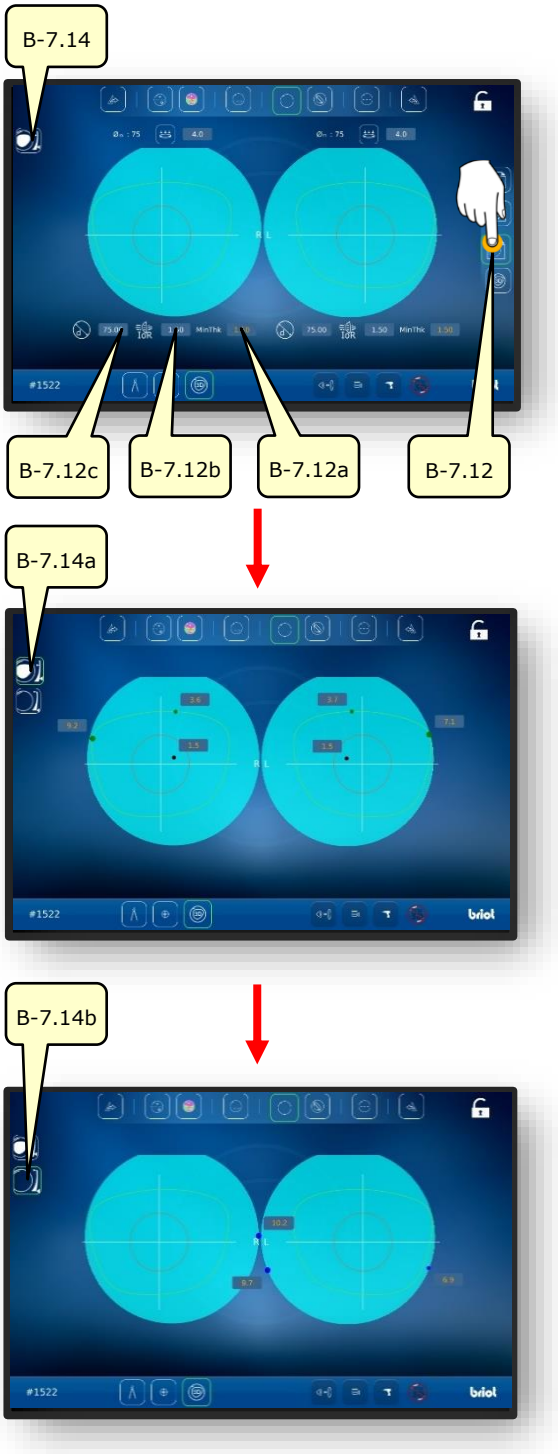


Figure 51 Lens data

3.8.4. 3D ADJUSTMENT

1. Tap button (B-7.13) once.

↙ The model can now rotate three-dimensionally about its own centre.

Press button (B-7.13a) to show the lens bevel and parameters:

B-7.13a: Bevel width

B-7.13b: Bevel distance to front edge

B-7.13a: Bevel depth

The parameters are identical for both glasses sides.

Press button (B-7.13d) to hide the frame and parameters.

↙ The model can continue to rotate three-dimensionally about its own centre.

Press button (B-7.13f) to stop the model in a specific position or release it.

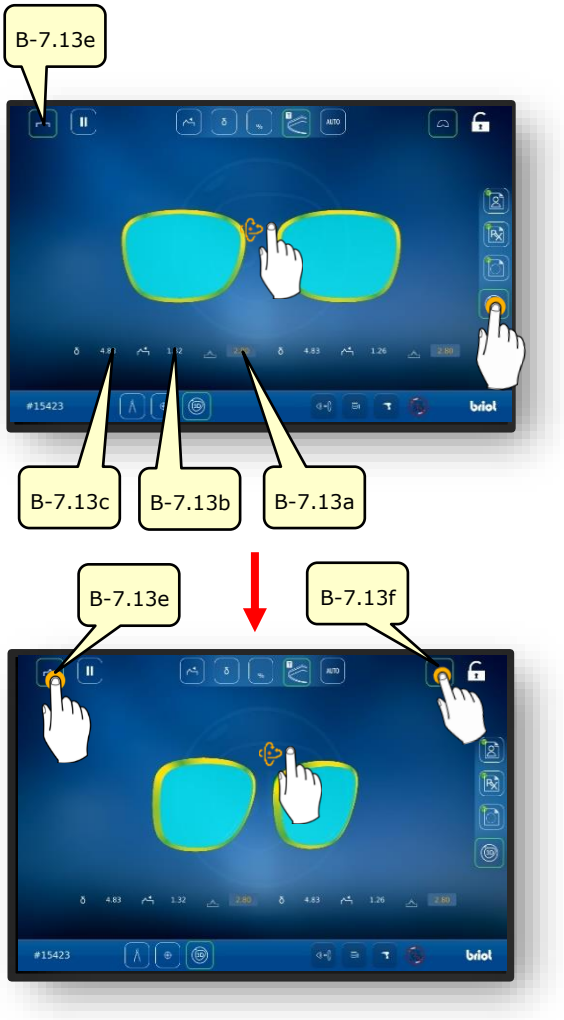


Figure 52 Lens data

2. Tap the desired glasses side with your finger.

The screen for viewing and adjusting the frame and bevel in the cross section opens.

By sliding the slide control laterally (B-7.POS), you can shift the viewing position of the bevel.

If you tap button (B-7.15a), the model shows the thinnest point of the lens.

If you tap button (B-7.15b), the model shows the thickest point of the lens.

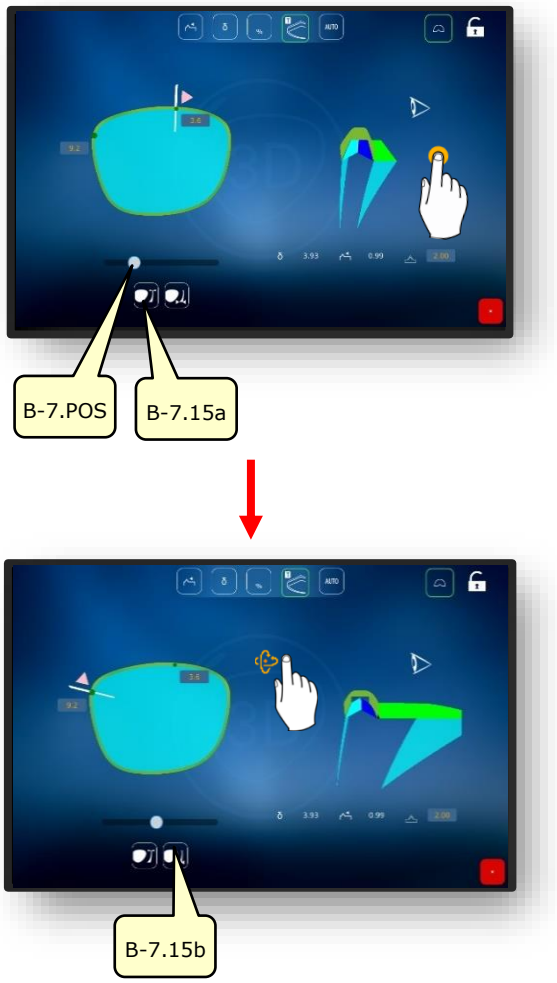


Figure 53 Lens data

3.8.5. CROSS SECTION FOR RIMLESS / NYLOR FRAMES

☑ Groove of a full-rim frame or edge of a demo lens has been traced.

The screen for adjustment of the groove in the cross section enables fine adjustment of the bevel position and its progression.

The visual display shows the model with a colour progression.

Blue: Back region of groove

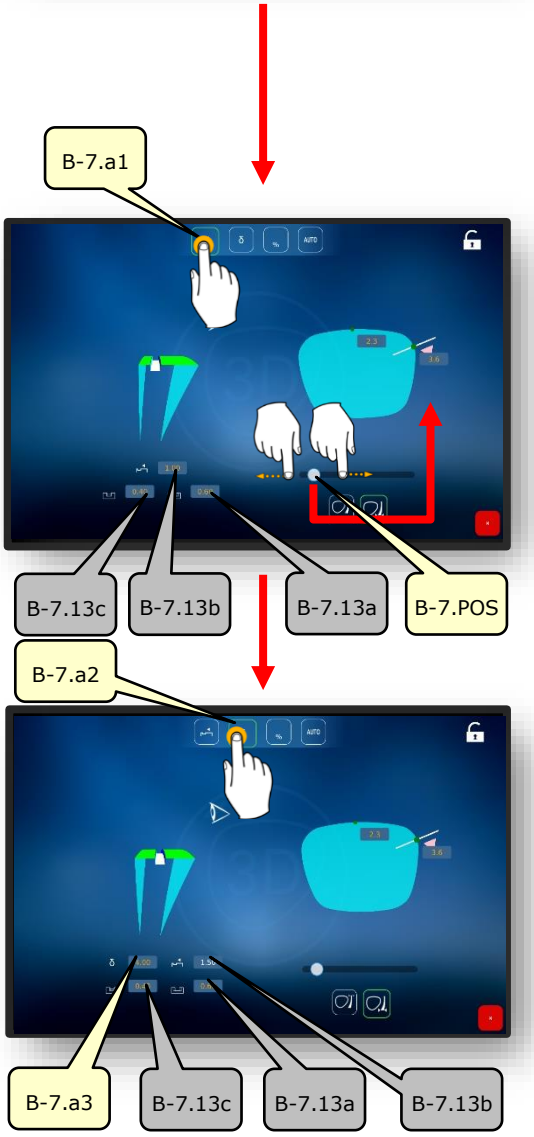
Light blue: Front region of groove

Green: Unprocessed region

1. Tap the desired glasses side with your finger.

↙ The screen for viewing and adjusting the groove in the cross section opens.

By sliding the slide control laterally (B-7.POS), you can shift the viewing position of the groove.



2. Press button (B-7.a1).

↙ The manual mode for groove adjustment is started.

The setting parameters are identical to those in the previous section:

→ Section 3.8.4: 3D Adjustment

3. Press button (B-7.a2).

↙ The delta mode for groove adjustment is started.

Button (B-7.a3) specifies a maximum deviation of the groove from the edge.

The description is continued on the following page.

4. Press button (B-7.a4).

↙ The percentage mode is started.

Button (B-7.a) specifies a continuous percentage distance of the groove from the edge.

5. Press button (B-7.a6).

↙ Automatic mode is started.

The automatic mode calculates the optimal groove progression by means of the determined frame and lens parameters.

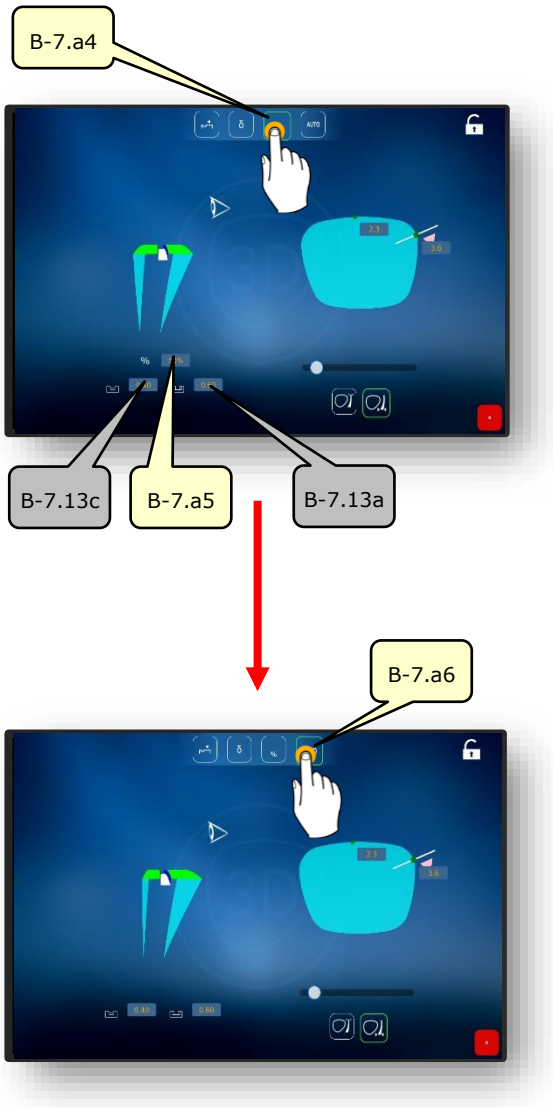
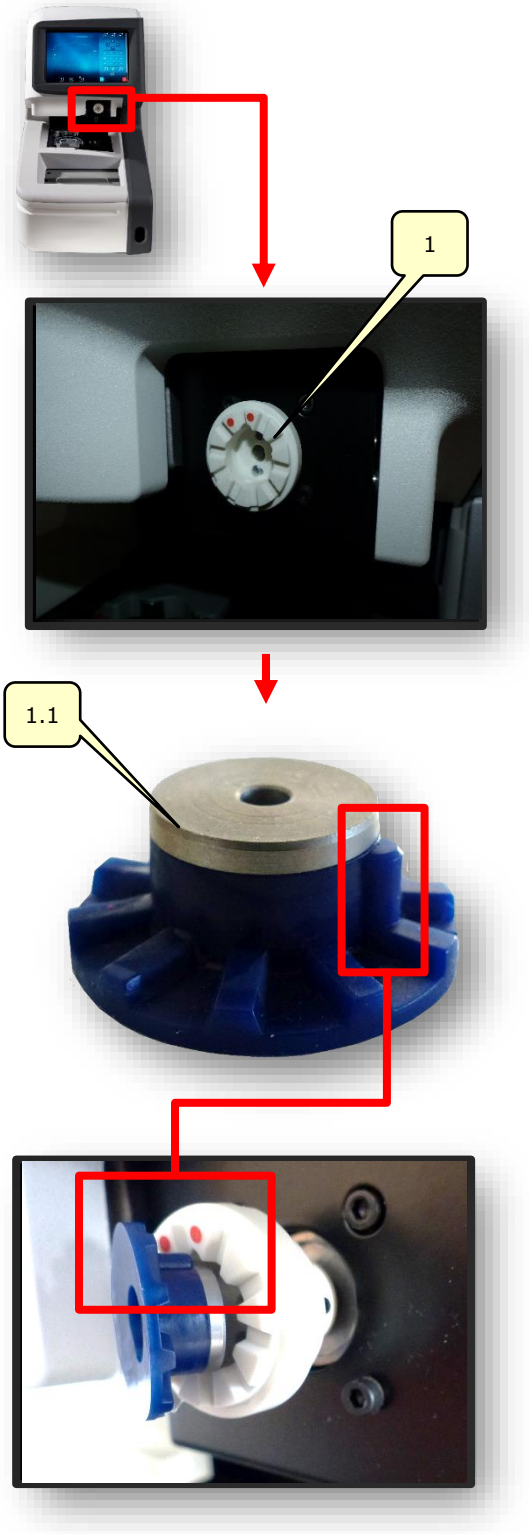


Figure 54 Cross section of the groove

3.9. BLOCKING A LENS

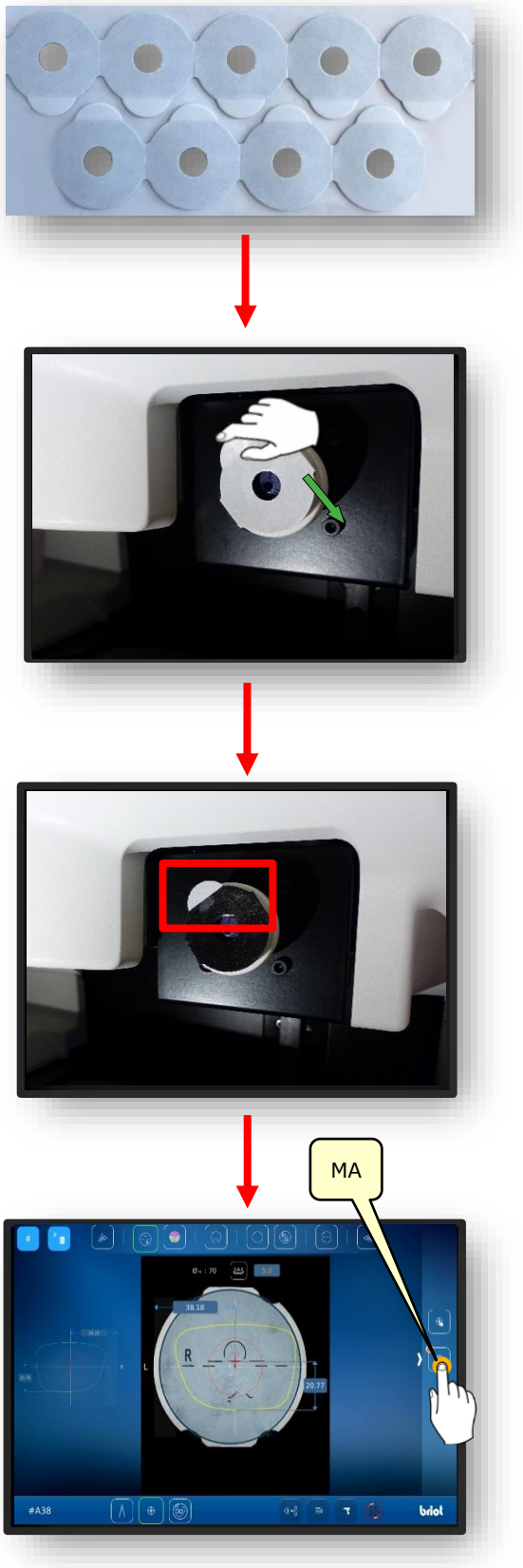
- ☑ A new job has been created and is active.
- ☑ Lens/frame has been measured or shape template is loaded.
- ☑ Decentration data have been recorded.
- ☑ Lenses are centred.
- ☑ Block and adhesive pad are on hand.



- The block serves to hold the lens during downstream processing in a grinding machine.
- There are two red circular markings on the blocker (1).
- Each block has a "key" enabling it to be aligned in the blocker (1).

1. Insert the block (1.1) with the key between the two red markings on the blocker (1).

- The block (1.1) is held in the blocker (1) by a magnetic force.



2. Remove an adhesive pad from the blister and stick it on the block (1.1).

3. Grasp the backing paper on the positioned adhesive pad by the tab and pull off.

Part of the backing paper remains on the adhesive pad to facilitate handling.

4. On the "Automatic centring" screen, select the desired frame side.

→ Section 3.7.6.2: "Automatic centring"

5. Tap button (MA) once.

↙ The screen for manual centre adjustment opens.

- The corresponding lens must be clamped in the lens clamping chuck (3).
- The numerical values in fields (1.1v) and (1.1h) determine the distance between the green axis and the violet axis.
- The two axes must be lined up with the markings and engravings on the lens to be blocked.

6. Press the "☑" confirmation button to start the blocking process.

- The blocker (1) moves in the vertical and horizontal directions toward the centred lens.
- The blocker (1) presses the block (1.1) against the lens.
- The blocker returns to its starting position.
- The process is finished.
- The clamped lens can be removed.

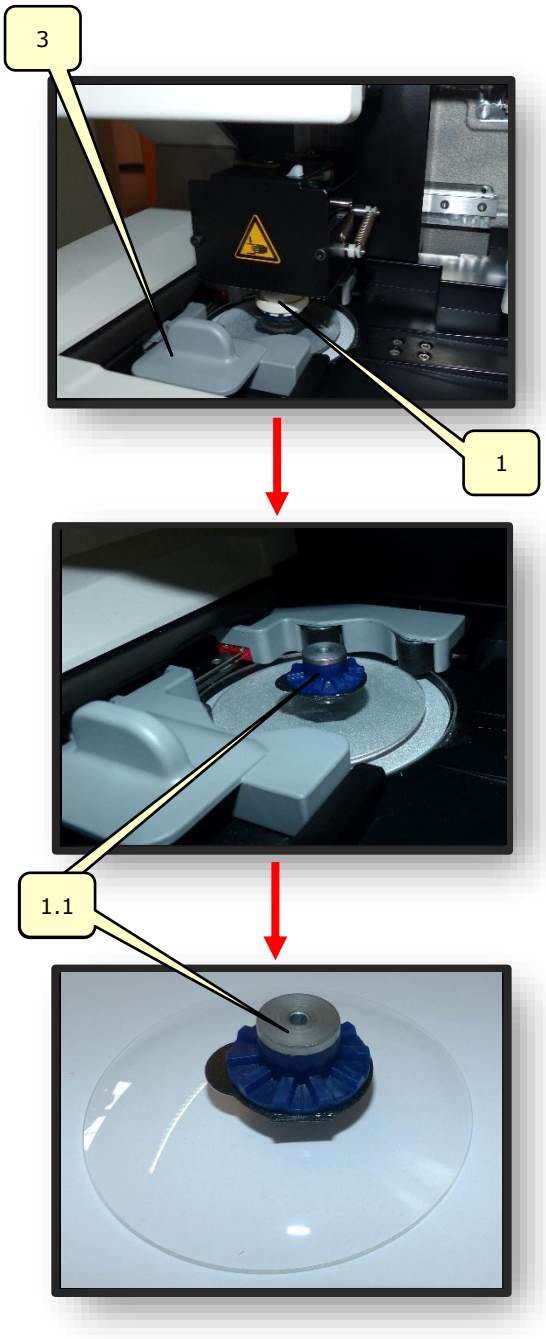


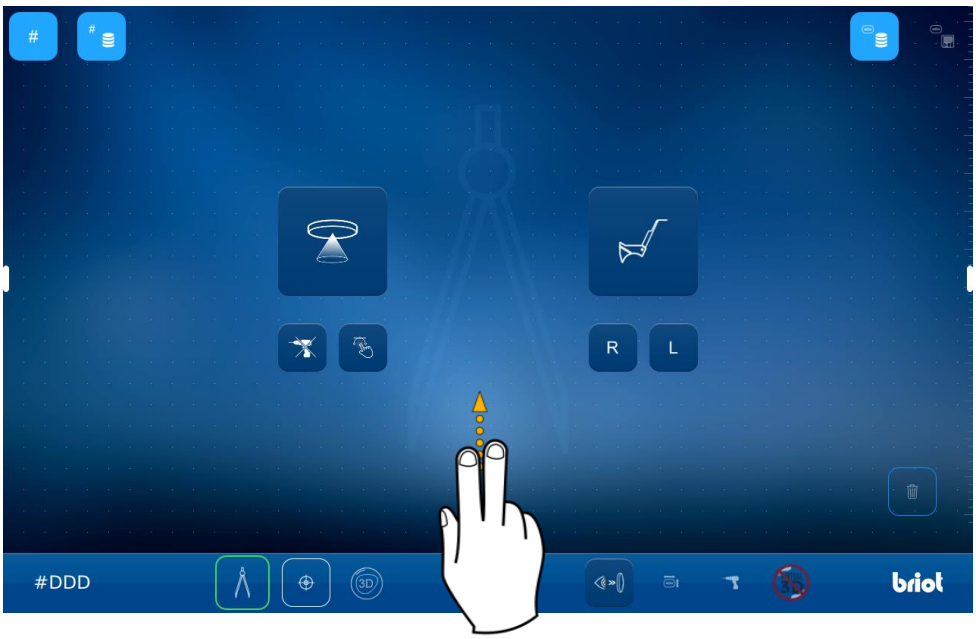
Figure 55 Blocking

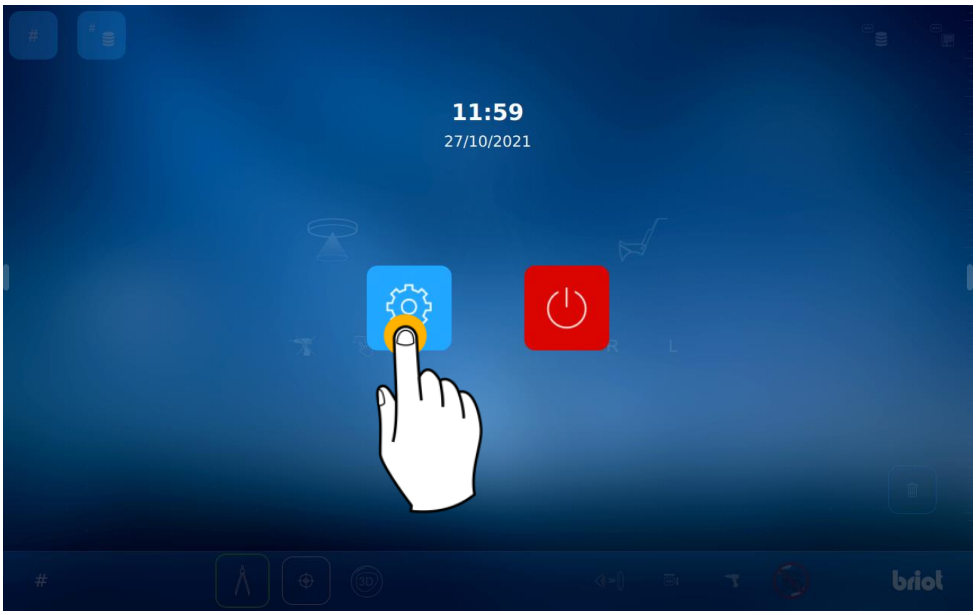
4. CONFIGURATION

4.1. DESCRIPTION

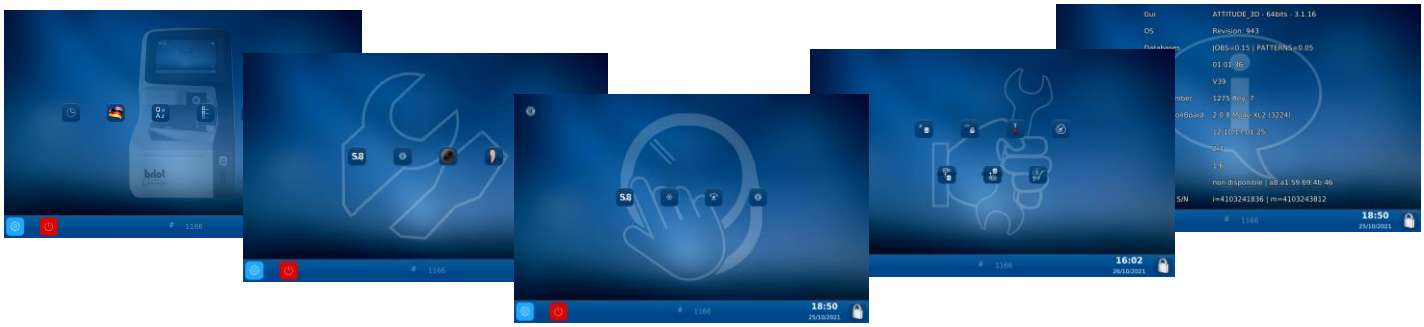
4.1.1. CONFIGURATION SCREEN ACCESS

The main entering or centering screen provides access to the technical user menus used to adjust your machine.

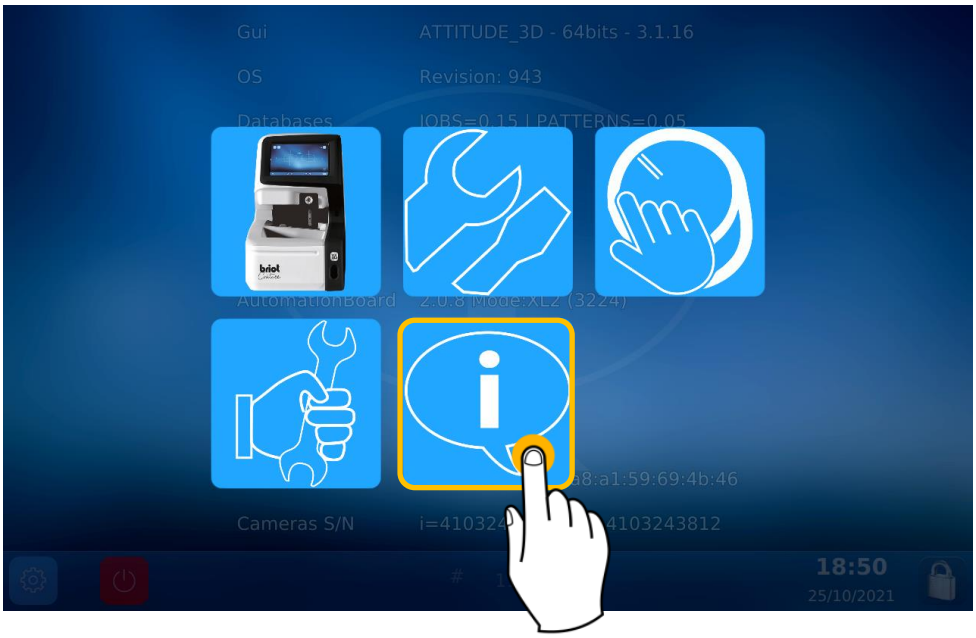




To access the available menus (as in the example in orange below), scroll the screens to the desired menu (1).



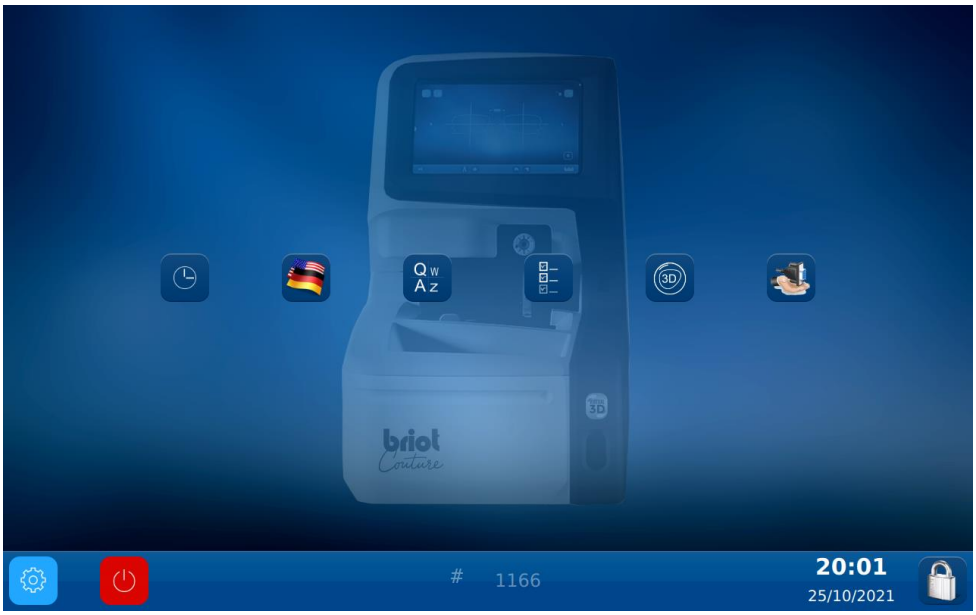
You can also access a screen containing the machine's settings by pinching the screen (2).



4.2. SETTINGS SCREENS

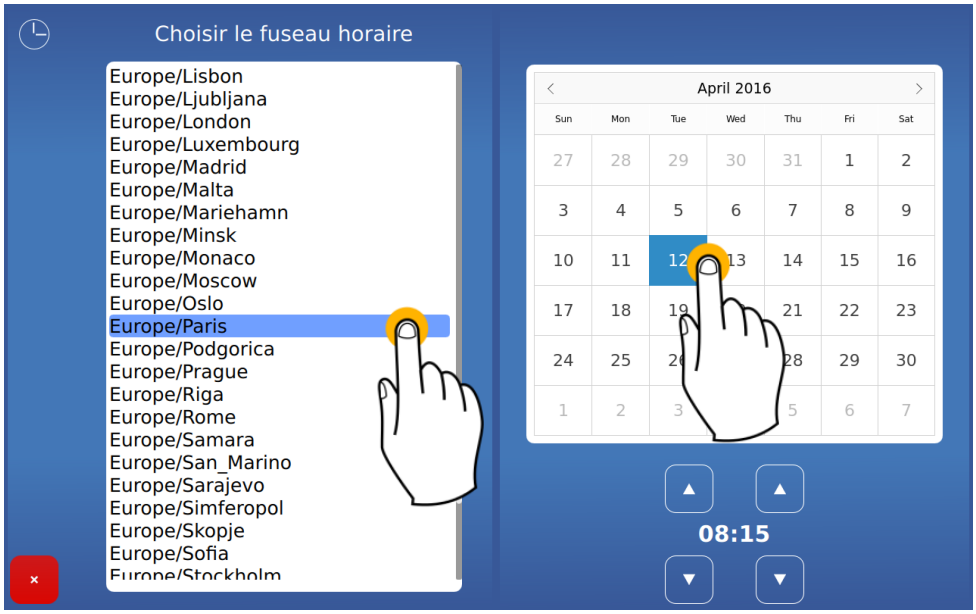
4.2.1. CUSTOMIZATION MENU

You have now selected the Customization screen  :



4.2.1.1. CONFIGURE DATE AND TIME

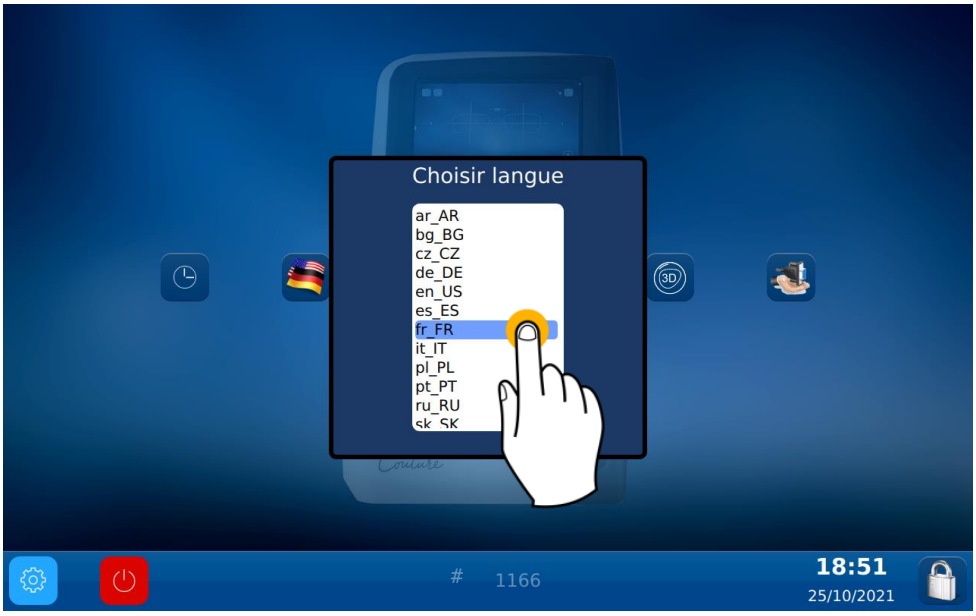
To configure the date and time of your machine, proceed as follows:



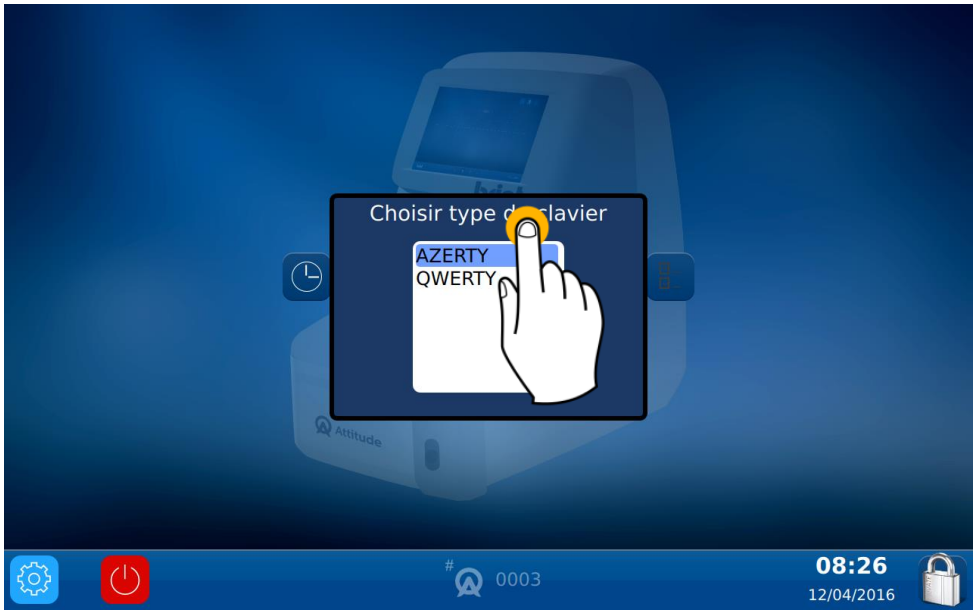
Change the time zone before changing the time.

4.2.1.2. SETTING THE OPERATOR LANGUAGE

To set the default operator language, follow the steps below:



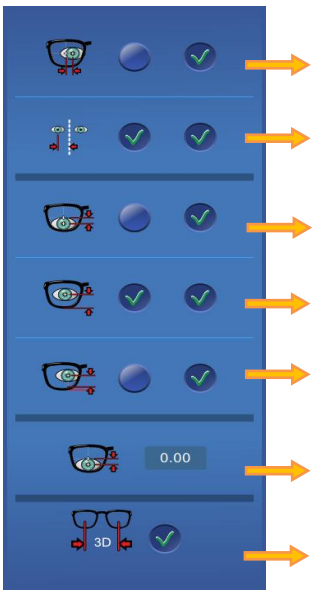
4.2.1.3. CONFIGURE THE KEYBOARD



4.2.1.4. SETTING THE DEFAULT SETTINGS

To set the default parameters, follow the steps below:

4.2.1.4.1. SETTINGS DETAILS



Delta X

Half-pupillary distance

Delta Y

Box height

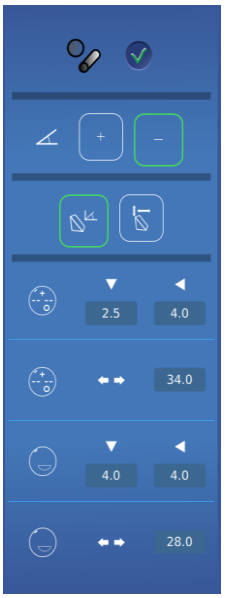
Mixed height

Default centering height

3D Pupillar Correction

Default value

Value accessed by a long press



Activate or deactivate the powers display

+ or - cylinder configuration

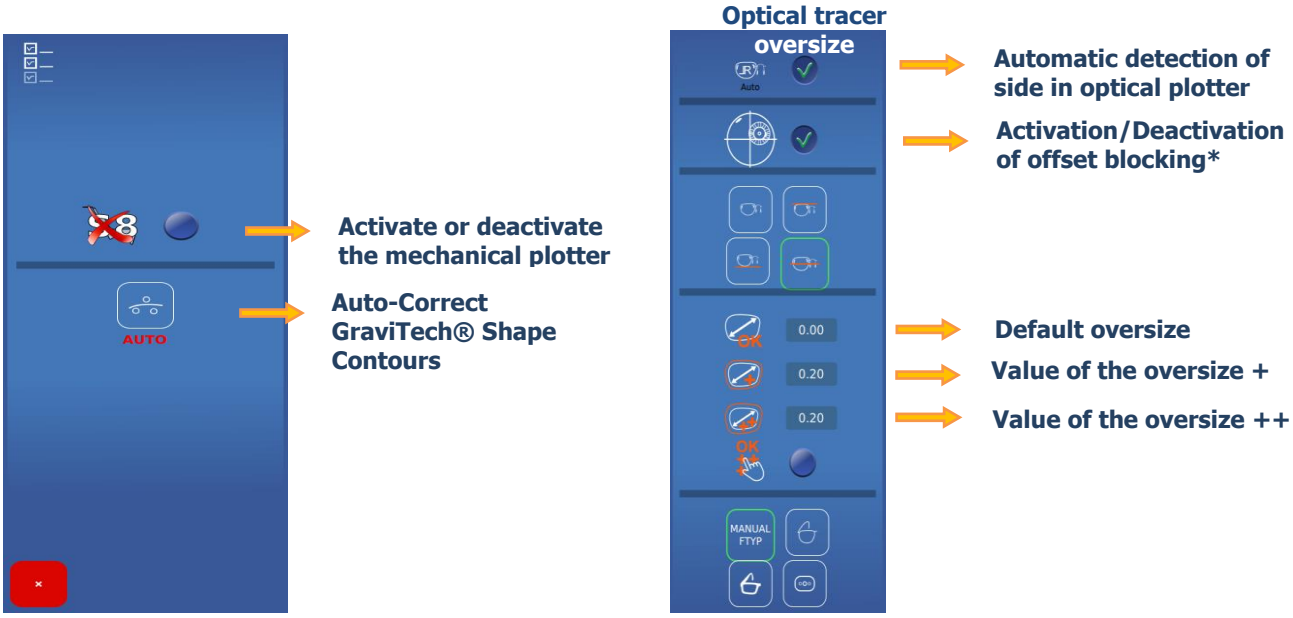
Configuration of prisms (Tabo, etc.)

Height between micro-engravings and blocking reference

Width between micro-engravings

Inset of bifocal segment

Width of bifocal segment

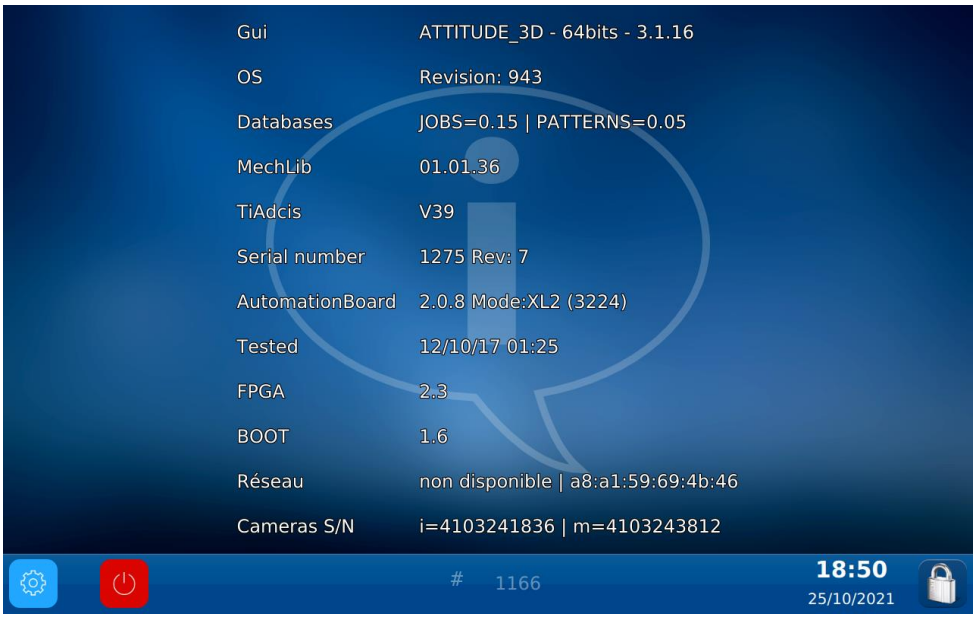


NOTE: The oversize values are accumulated.
For example: The total oversize in mode (++) corresponds to adding the default oversize ***+*** *the oversize* ***(+)*** *+ the oversize (++)*

The oversizes are applied to the shape width. The change will be made proportionally on the whole shape.
** Don't check the box if your edger does not manage offset blocking.*

4.2.2. INFORMATION MENU

You have now selected the information screen :
This screen provides you with information about the machine's characteristics if needed when calling the technical department.

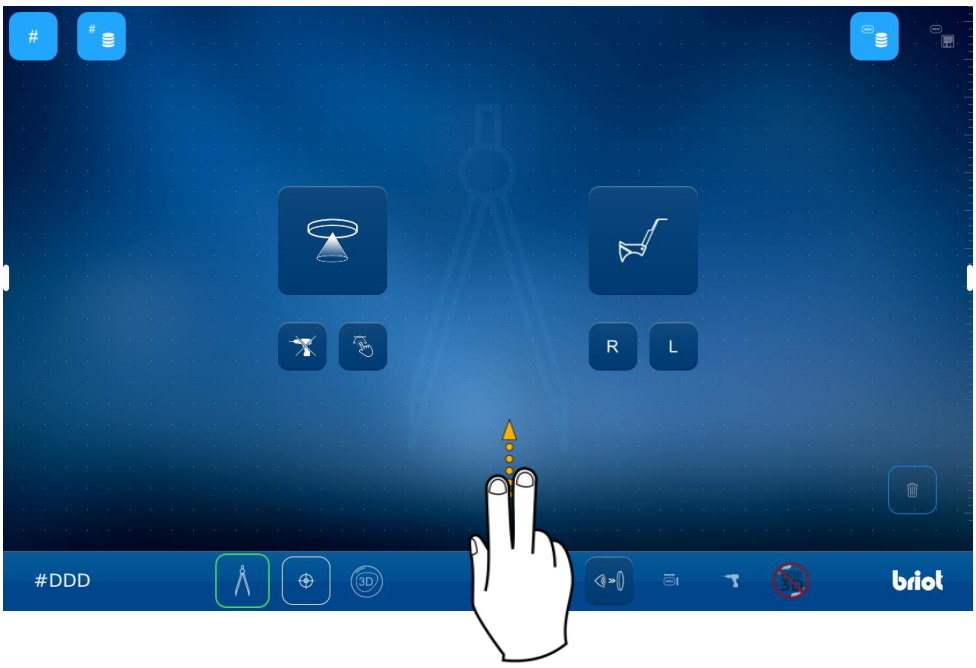


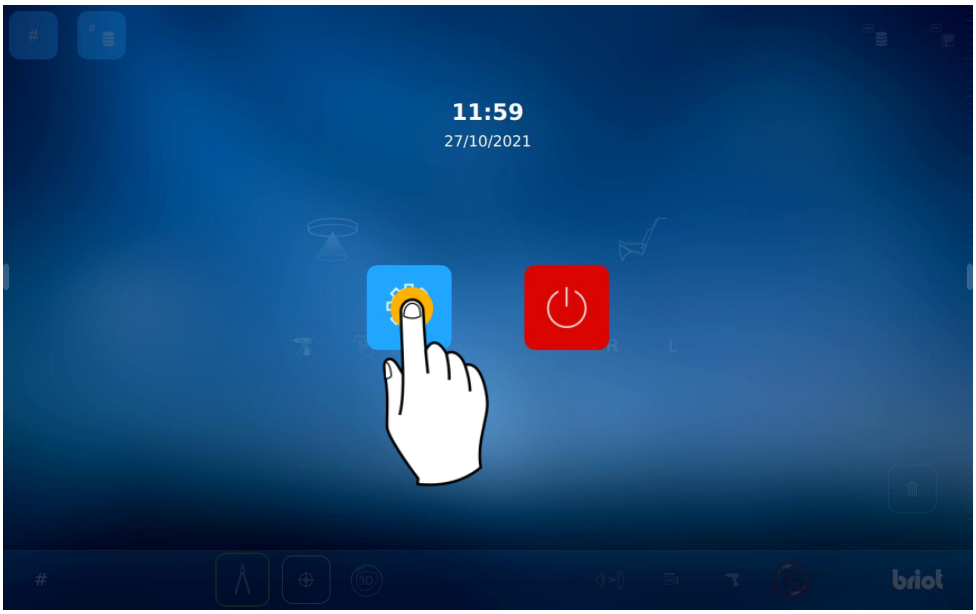
5. MACHINE ADJUSTMENT

5.1. DESCRIPTION

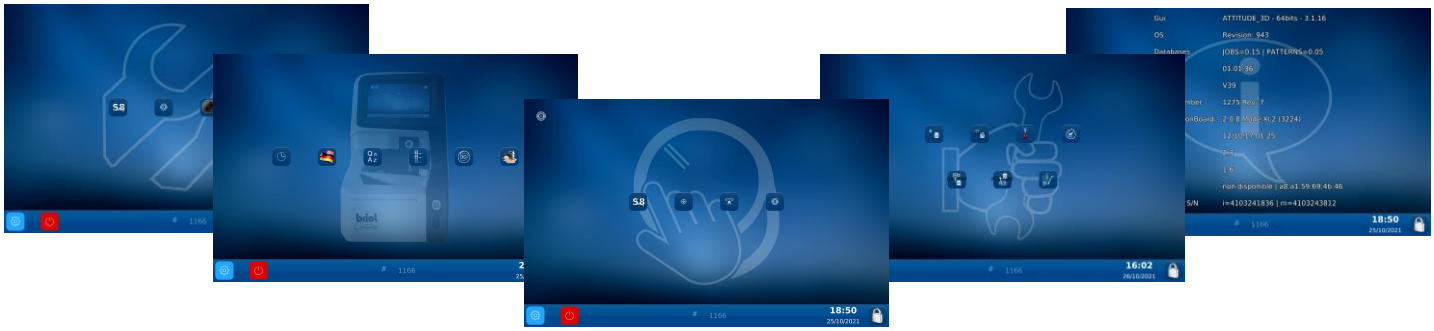
5.1.1. ACCESS TO THE ADJUSTMENT SCREENS

The main entering or centering screen provides access to the technical user menus used to adjust your machine.

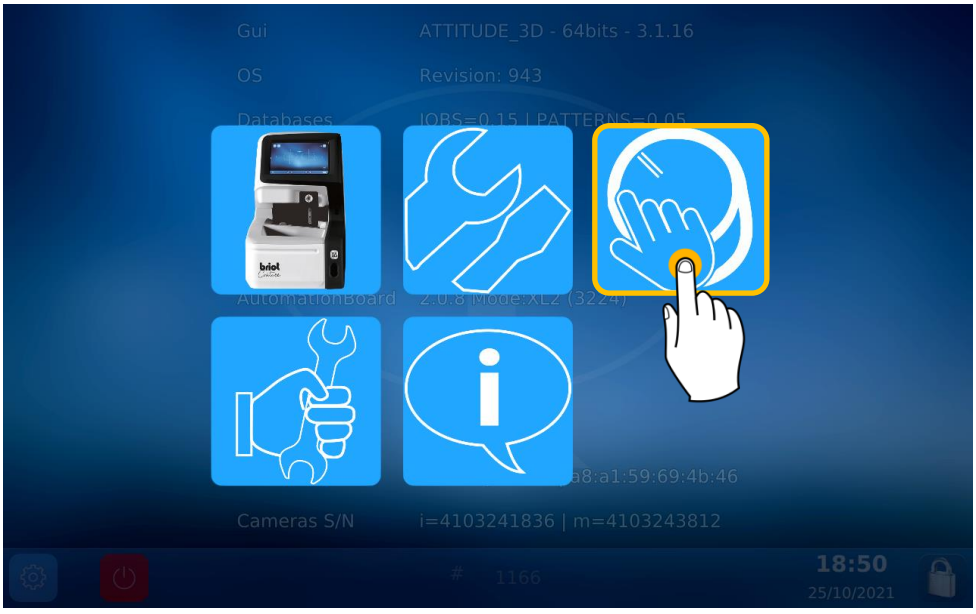


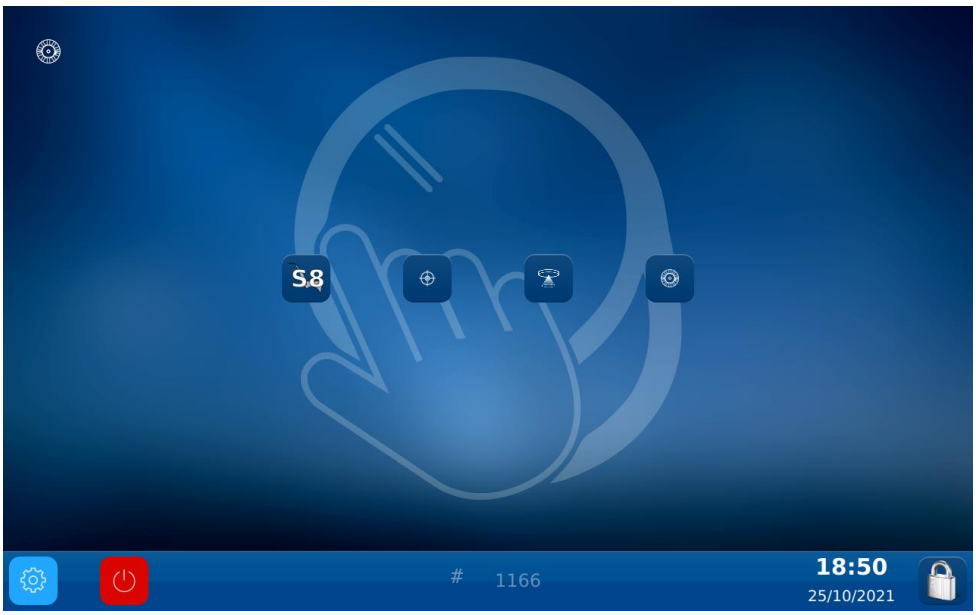


To access the available menus (as in the example in orange below), scroll the screens to the desired menu (1).



You can also access a screen containing the machine's settings by pinching the screen (2).

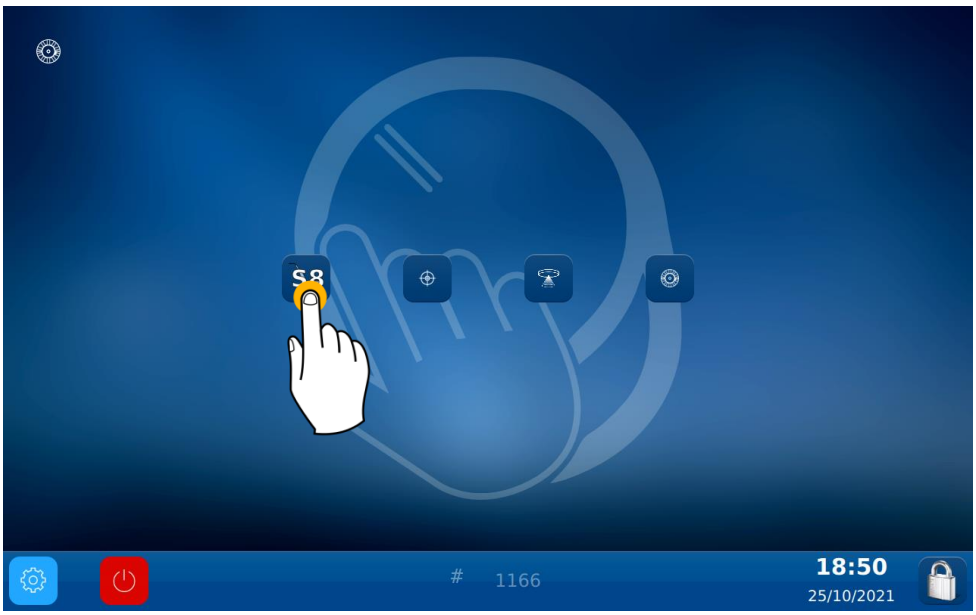




Mechanical tracer adjustment

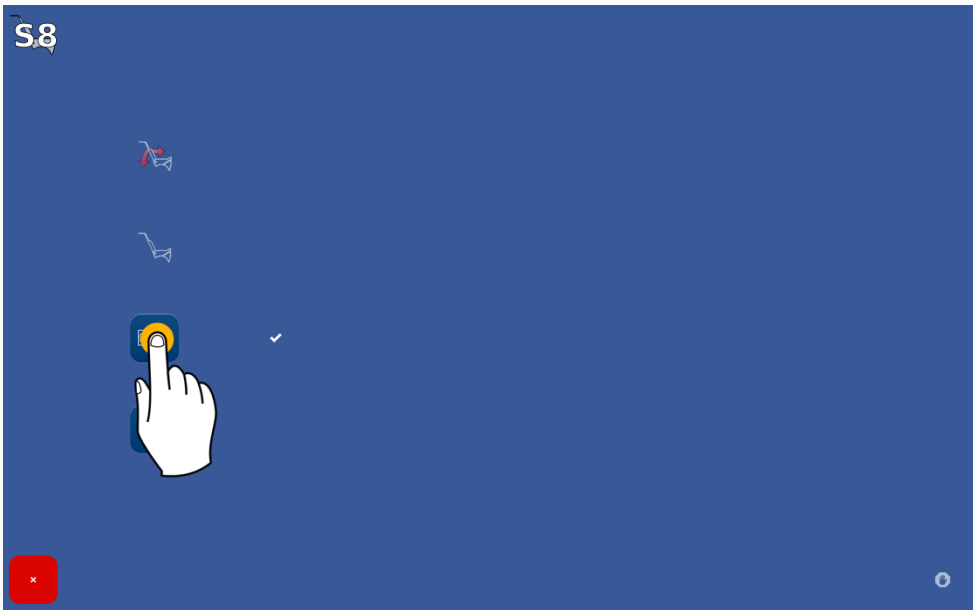
Blocker adjustment

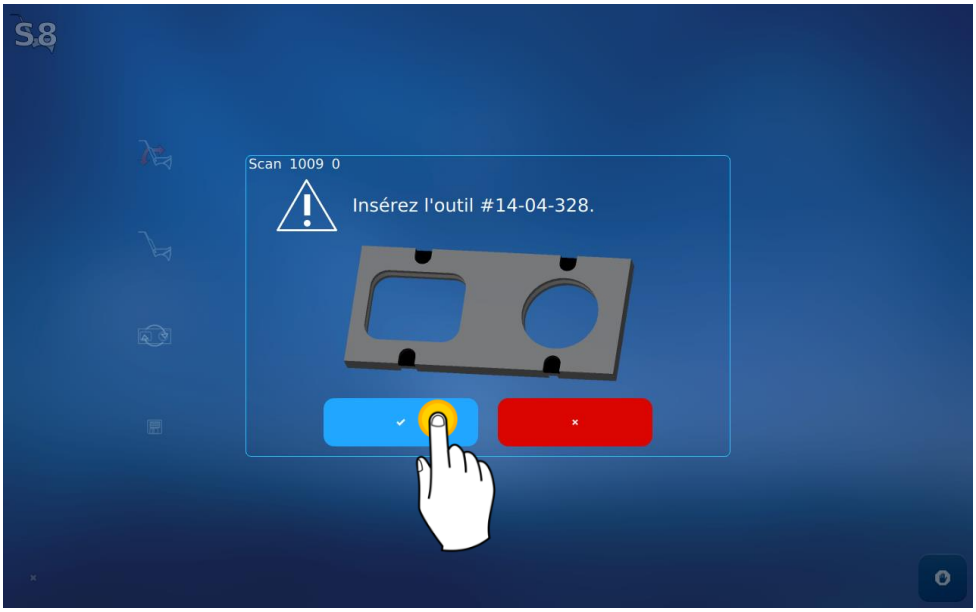
5.1.2. MECHANICAL TRACER ADJUSTMENT



You have now selected the Adjustment screen:
Carry out the mechanical plotter adjustment:

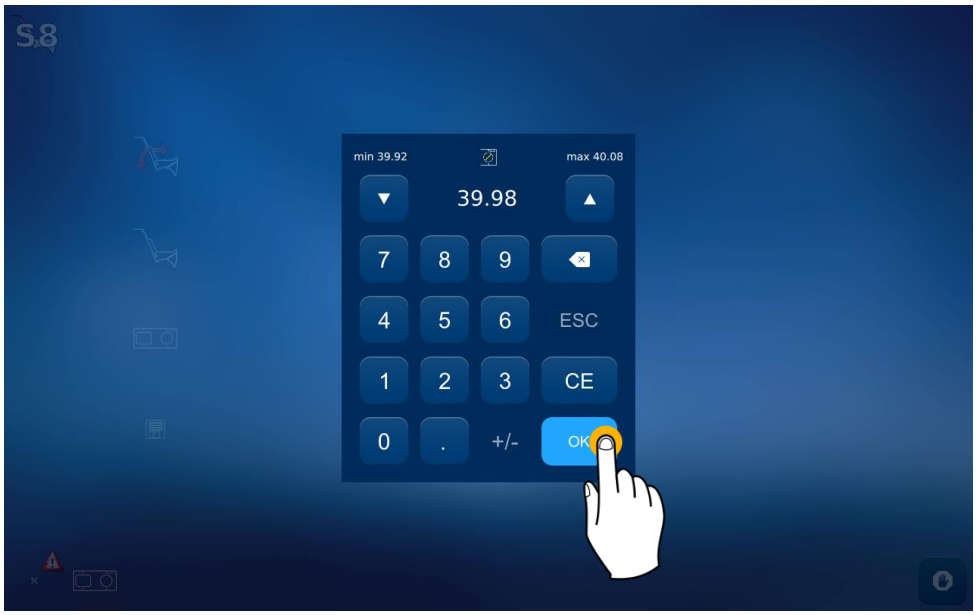
Step 1:

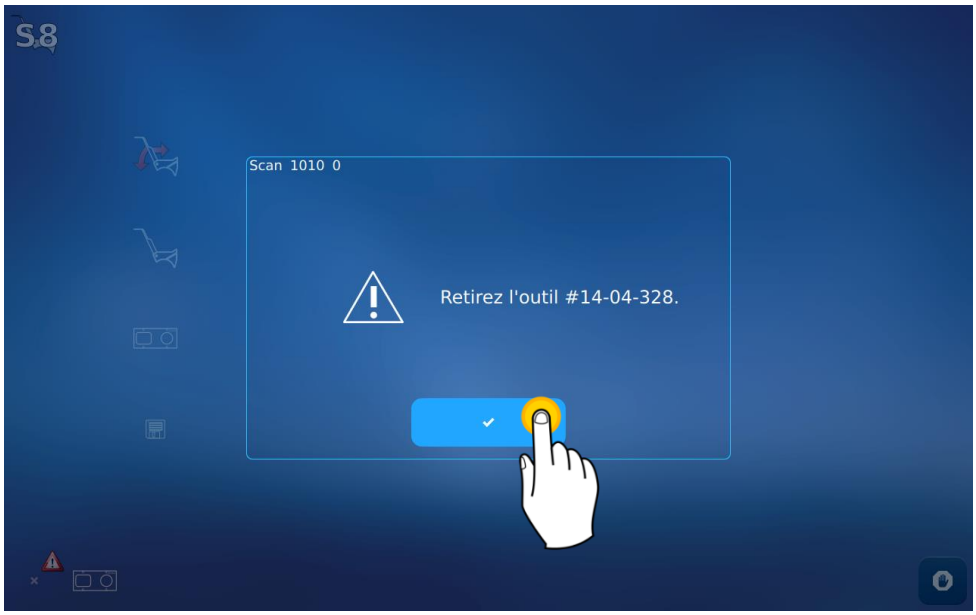




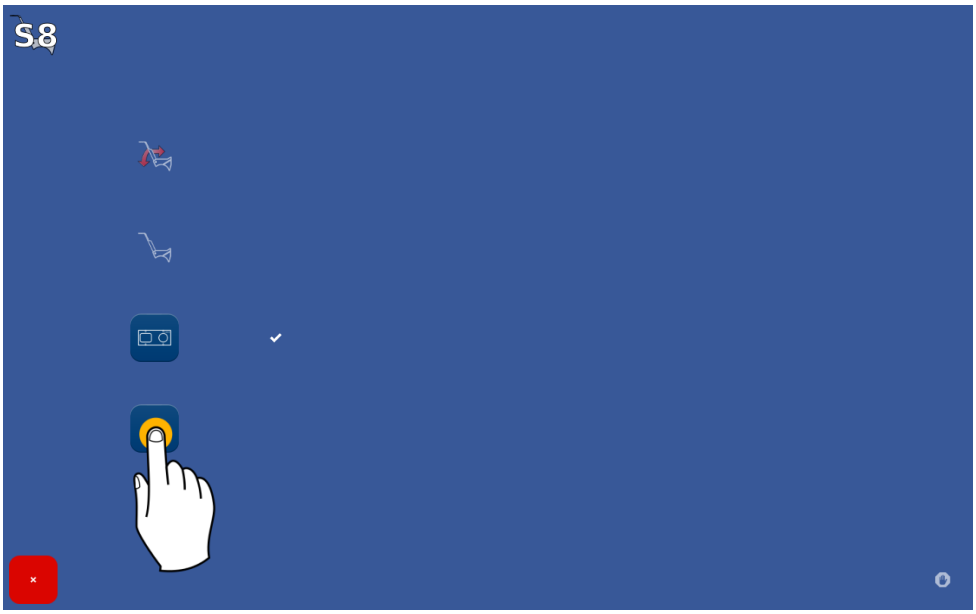
Position the tool in the mechanical plotter and then confirm to start the adjustment

CAUTION! Make sure that the white dowels are properly positioned at the holes of the tool and the circle on the right
The default value corresponds to the tool that was supplied with your machine.

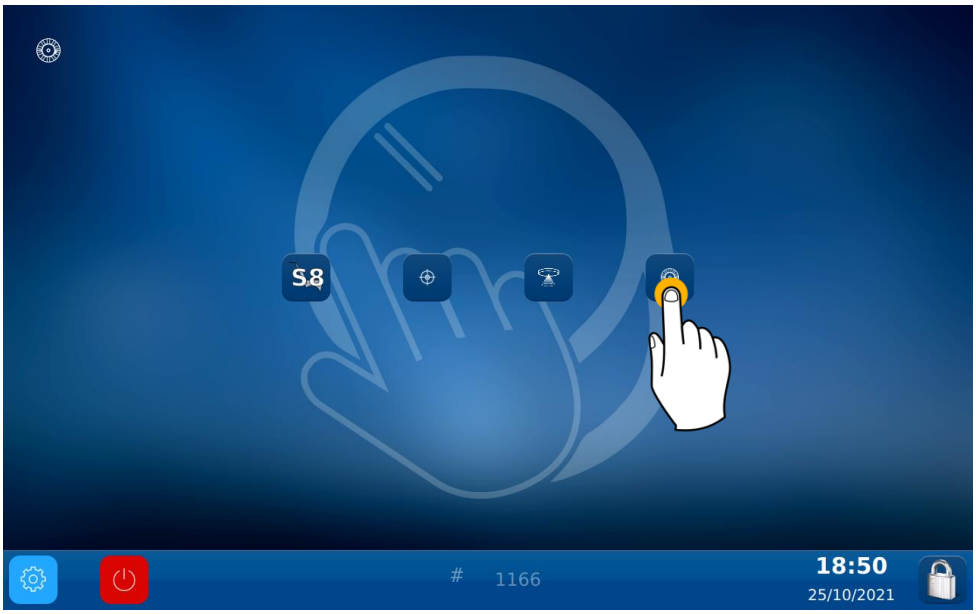




Step 2: Save the settings

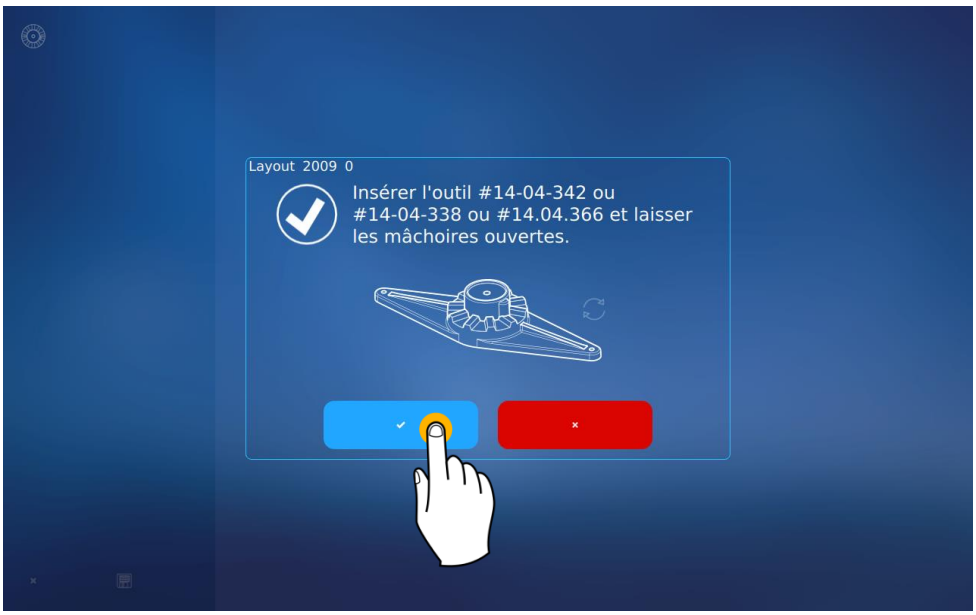


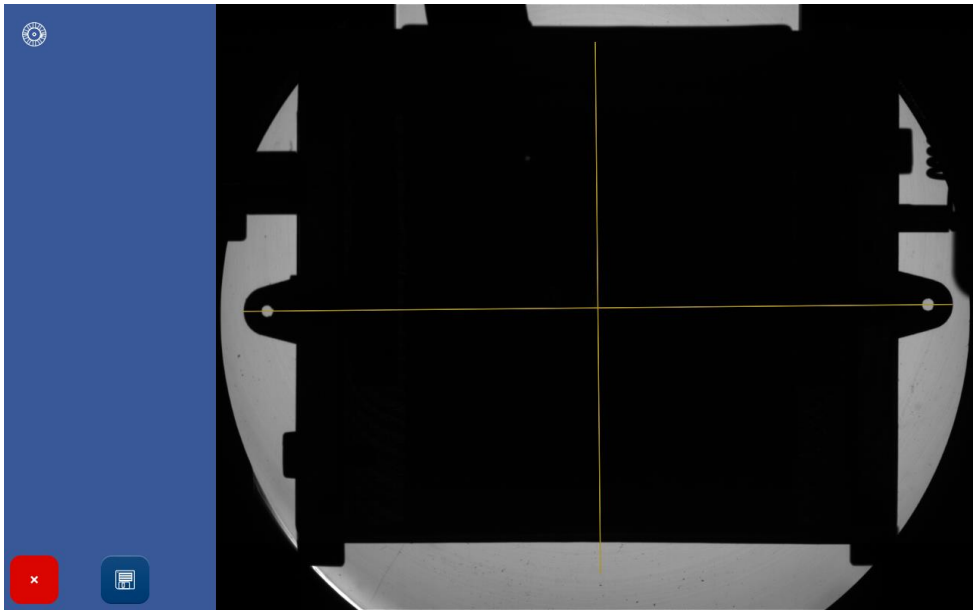
5.1.3. BLOCKER ADJUSTMENT



Place the tool in the blocker head.

CAUTION: To position the tool properly on the blocker, insert the keyway between the two red dots marked on the blocker.





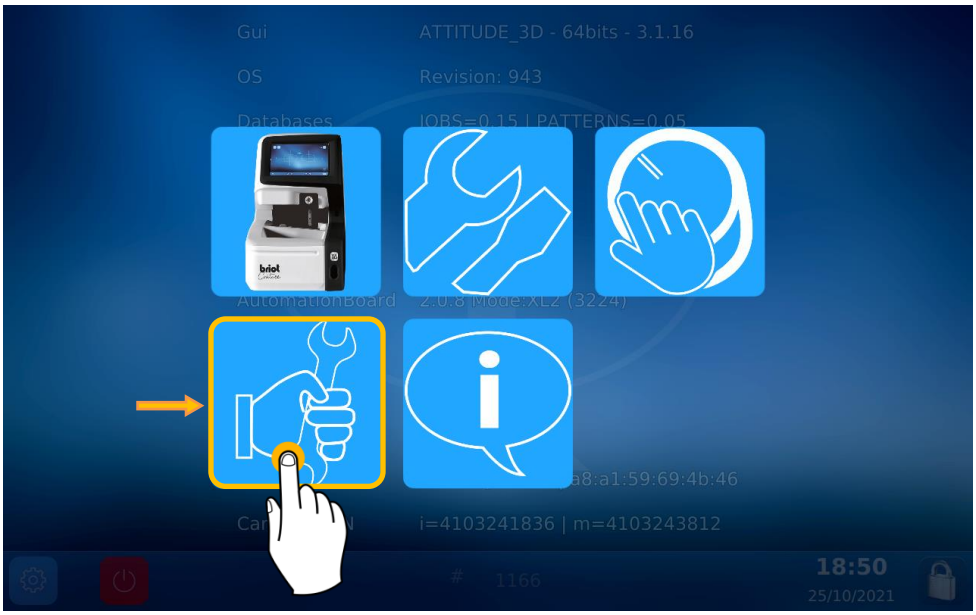
On completion of adjustment, you can to remove the adjustment tool.

6. MAINTENANCE

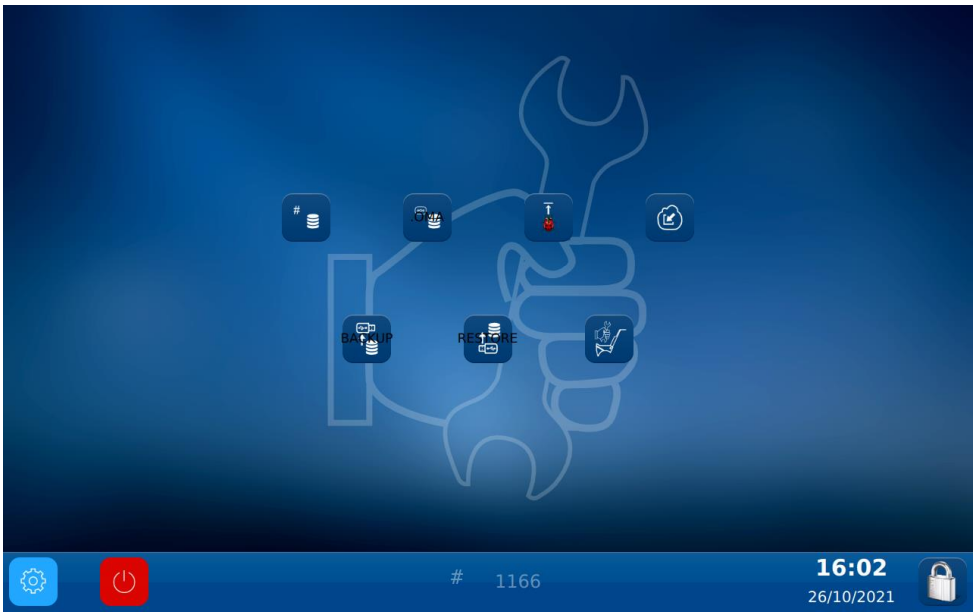
6.1. DESCRIPTION

To guarantee your machine's performance, you must perform several maintenance operations regularly and make sure you configure and adjust your machine according to the use you want to make of it.

The main user technical screen provides access to the user technical menus, including Maintenance, as shown in orange below:



You have now selected the Maintenance screen:



Manual purging of jobs databases

Uploading the pattern database

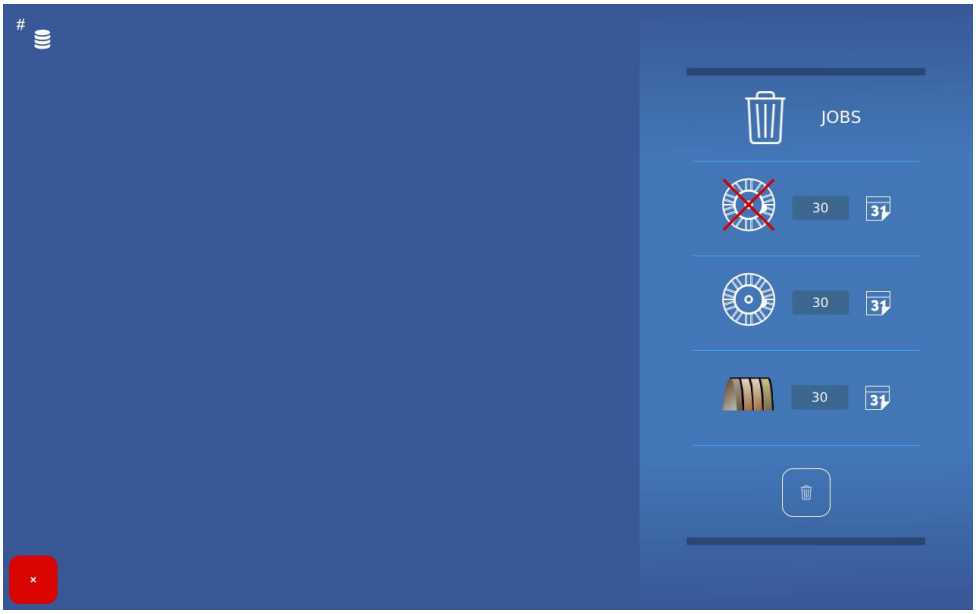
Saving the technical data required to analyse a problem on a USB flash drive

Updating the machine from a USB flash drive or an Internet connection

MANUAL PURGING OF FITTINGS DATABASES

To purge your fittings databases more than 30 days* old, follow the steps below:

6.1.1.



Non-blocked fittings

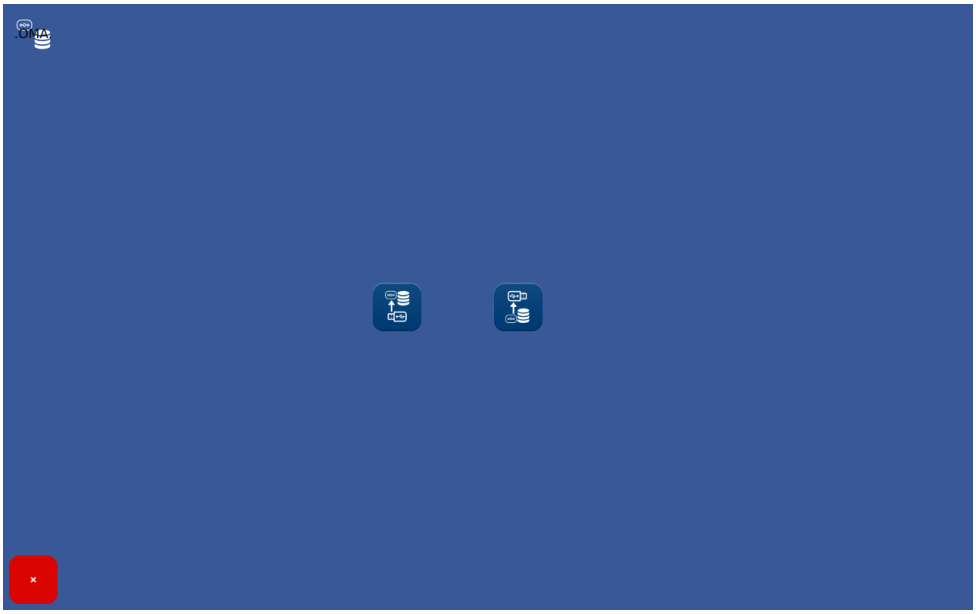
Blocked fittings

Edged fittings

Note: Purging is only carried out when the  *button is pressed.*

Tip! The times of each purge can be changed to suit your requirements.

6.1.2. **UPLOADING THE PATTERN DATABASE**



Uploading a USB key to the machine

Uploading from the machine to a USB key

6.2. MECHANICAL PLOTTER MAINTENANCE

CLEANING THE MECHANICAL PLOTTER

To clean the mechanical plotter, follow the steps below:

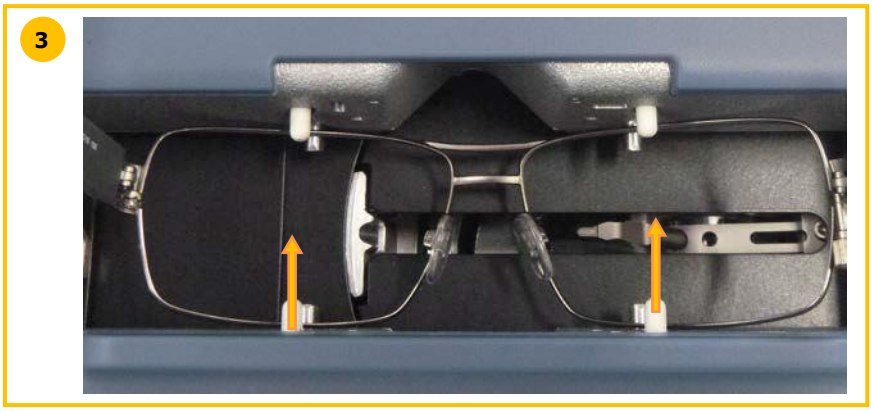
1- Switch OFF the machine if it is ON.
2- Lift the stylus head manually.
3- Using a brush, clean the stylus head making sure the dust does not fall into the mechanical tracer.
4- Using a compressed air spray, gently blow on the mechanical plotter part to remove dust.

6.2.1.

REPLACING THE FRAME CLIP TUBES

To replace the frame clip tubes, follow the steps below:

1- Switch OFF the machine if it is ON.
2- Manually open the mechanical plotter and hold it in this position without using undue force.
3- Pull the frame clip tube to be replaced horizontally to remove it
6.2.2. *(see illustration below)*. Note: Only the upper frame clip tubes can be replaced.
4- Fit the new frame clip tube, making sure that the tube is inserted fully home on its shaft.
5- Release the pressure on the mechanical plotter.



6.3. CENTERING DEVICE/BLOCKER MAINTENANCE

CLEAN THE BEARING SURFACE

To clean the bearing surface, follow the steps below:

1- Remove any component that may hinder proper performance of the operation.
2- Clean with a soft, dry, grease-free and lint-free cloth.
Note: It is recommended to clean the installation surface with a circular movement from the centre outwards.

CAUTION! AVOID CONTAMINATING THE INSTALLATION SURFACE WITH GREASY SUBSTANCES OR YOUR FINGERS.

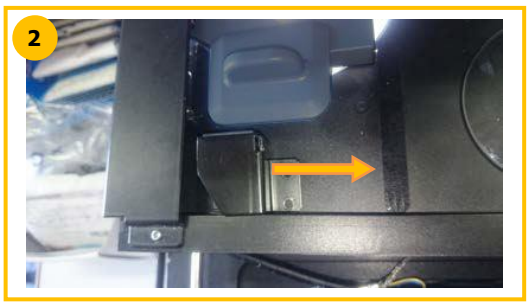
6.3.1. **THE GUARANTEE WILL NOT COVER ANY DEVICE MALFUNCTIONS CAUSED BY LOSS OF THE BEARING SURFACE'S OPACITY.**

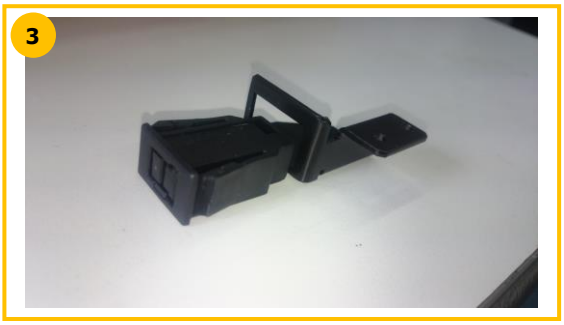
REPLACE THE TOUCH LATCH

To replace the touch latch, follow the steps below:

1- Remove the two screws using a 6 mm hex wrench.
2- Remove the touch latch by pulling it rightwards.
3- Refit the new part.

6.3.2.



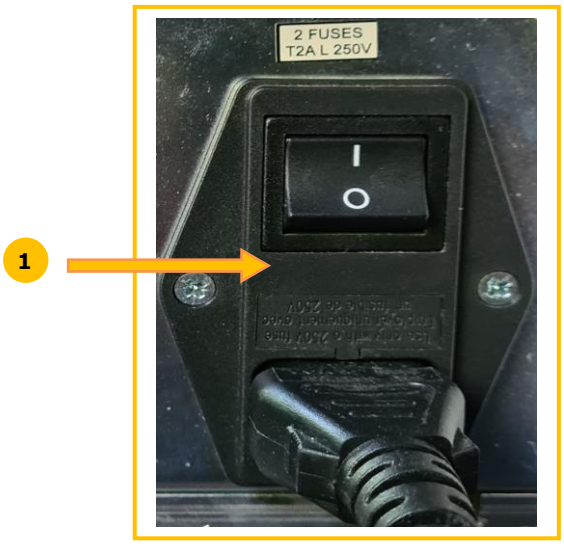


CHANGING A FUSE

To change a fuse, follow the steps below:

1- Switch the machine off using the pushbutton located at the front of the machine, and then using the switch located at the rear of the machine.
2- Disconnect the power cable from the machine's mains supply.
3- Pull on part No. 1 to access the fuses.
4- Change the fuse and replace the parts.

6.3.3.



6.4. TOUCH SCREEN MAINTENANCE

6.4.1. CLEANING THE TOUCH SCREEN

To clean the touch screen, first switch off the machine, if was turned on.
Clean the screen gently with a soft, dry lint-free cloth.

CAUTION! DO NOT USE PRODUCTS SUCH AS WATER OR CHEMICAL AGENTS.
ETHYL ALCOHOL CAN BE USED WHEN A DRY CLOTH IS NOT EFFICIENT ENOUGH TO REMOVE STUBBORN STAINS.
THE GUARANTEE WILL NOT COVER ANY DAMAGE CAUSED BY IMPROPER MAINTENANCE OF THE TOUCH SCREEN.

6.5. PREVENTIVE MAINTENANCE

RECOMMENDATIONS

By making sure to only use parts recommended by the manufacturer you will optimise your machine's working life.

REPLACEMENT TABLE FOR STANDARD PARTS

6.5.2.1. ACCESSORIES

The accessories delivered with the BRIOT COUTURE Blocker are as follows:

6.5.1.

Accessory	L.T.O part number
Case provided with foam	S3 64 016
Resize lens clamp	11 10 168
Offset adjustment tool	14 04 307
Mechanical plotter adjustment tool	14 04 328
Briot blocker adjustment tool	14 04 359
WECO M blocker adjustment tool	14 04 360
Polyethylene bag 100x130	21 40 210
Briot magnetic block GM V3 Ø25	11 53 026
Briot magnetic block PM V3 Ø19	11 53 027
Briot magnetic block 16/flat	11 53 038
Magnetic WECO block (large slit)	11 53 031
Chamfered magnetic WECO block (large slit)	11 53 036
20/flat magnetic WECO block (large slit)	11 53 037
Fuse 2A-250V-5	22 29 038
O-ring Ø15.6xØ1.78	21 62 200
Indelible black pen	24 06 211
Hydrophobic lens special felt	24 06 503
Frame setting tool	14 06 526
Tool for plotting the axis on a presentation lens	14 04 353
Ethernet cable 5M RJ45/RJ45 straight CAT6UTP	22 34 058

6.5.2.

6.5.2.2. CONSUMABLES

The consumables available for the BRIOT COUTURE Blocker are as follows:

Consumable	L.T.O part number
Blocking support*	11 90 784
Pressure lock*	37 30 009
Briot magnetic block GM V3 Ø25	11 53 026
Briot magnetic block PM V3 Ø19	11 53 027
Briot magnetic block 16/flat	11 53 038
Magnetic WECO block (large slit)	11 53 031
Chamfered magnetic WECO block (large slit)	11 53 036
20/flat magnetic WECO block (large slit)	11 53 037
Fuse 2A-250V-5	22 29 038
Indelible black pen	24 06 211
Hydrophobic lens special felt	24 06 503

**Consumables not included in the accessories set*

6.6. MESSAGES

TYPES OF MESSAGES

There are three types of messages:

- Information messages,
- Warning messages,
- Error messages.

MESSAGE LIST

6.6.1. The following tables list the most common messages that may appear whilst using the machine together with the possible solutions.

6.6.2.1. LIST OF INFORMATION MESSAGES

6.6.2.

Problem No.	Message title	Display condition(s)
1101	**Please insert the frame.**	
2009	**Insert tool #14-04-342 or #14-04-338.**	
2011	**Please insert minus 10 calibration lens (tool 14-04-345).**	
2012	**Please insert minus 5 calibration lens (tool 14-04-346).**	
2013	**Please insert plus 10 calibration lens (tool 14-04-347).**	
2014	**Please insert plus 5 calibration lens (tool 14-04-348).**	
2015	**Lens evaluated, do you want to continue?**	

6.6.2.2. LIST OF WARNING MESSAGES

Problem No.	Message title	Display condition(s)
2	A new automation board has been detected.	Automation board replaced
3	No Valid Lto File Found.	The file intended for the automation board is not valid.
4	Updating FPGA in progress... Please do not turn off the machine. The system will shut down automatically	
5	Invalid IoBoard serial number or not tested board.	The automation board information is not valid. Board not tested by the supplier.
1002	Lever is blocked or adjustment needed. Release it and press OK.	Travel insufficient on the lever joint
1002	Lever is blocked or adjustment needed. Release it and press OK.	Travel insufficient on the lever translation
1002	Lever is blocked or adjustment needed. Release it and press OK.	Manually unlock the lever.
1003	Confirm the stylus insertion position.	
1004	Remove tool #14-04-307.	
1005	Insert tool #14-04-307.	
1006	Save settings?	
1009	Insert tool #14-04-328.	
1009	Insert tool #14-04-328.	
1010	Remove tool #14-04-328.	
1013	Adjustment of the jaws needed.	The y-coordinate of the box center is > ±1mm: adjust the jaws.
1014	Insert circle pattern.	
1015	Insert rectangle pattern.	
1016	Do you want to reset scan's settings?	
1017	Wrong adjustment tool.	The adjustment tool is not the right one.
1102	Remove pattern's rod.	
1103	Pattern's rod missing.	

Problem No.	Message title	Display condition(s)
1104	Frame moved.	
2008	Please remove any glass present in the blocker.	
2010	Open the jaws and remove any glass present in the blocker.	
2016	Save settings?	
2020	Cylinder axis not detected. Continue anyway?	Lens without a cylinder.
2021	Insert tool 14-04-344 (D 90), Adjust the led position.	
2024	Please insert Round 30 calibration in the center	
2025	Please insert Round 60 calibration in the center	
3002	Do you want to save this settings?	
6001	Unable to start the storage service.	Database server login problem

6.6.2.3. LIST OF ERROR MESSAGES

When an error occurs, it is preferable to call your dealer's Technical Services and to inform them of the exact error number together with the associated text.
The list of the error messages which may be displayed when using your machine is given below.
Certain problems can sometimes be resolved without calling Technical Services.
The action to be taken is therefore indicated.

Problem No.	Message title	Display condition(s)
1	IO Board Connection Error.	The requested USB device cannot be found => Generates a connection failure report
1	IO Board Connection Error.	The IO board does not respond to the connection requests => Generates a connection failure report
1	IO Board Connection Error.	The IO board short-circuit cannot be reset => Generates a connection failure report
1	IO Board Connection Error.	Serial port opening failure => Generates a connection failure report
1	IO Board Connection Error.	Connection loss detected by polling => Generates a connection lost report
1	IO Board Connection Error.	Com port Rx lost => Generates a connection lost report
1	IO Board Connection Error.	Short-circuit detected on IO board => Generates a connection lost report
1	IO Board Connection Error.	Board updating failure
1	IO Board Connection Error.	Board updating failure
1	IO Board Connection Error.	Board updating failure
1	IO Board Connection Error.	Board updating failure
1000	Please remove frame.	Initialization not possible, as there is a frame or a tool between the claws.
1001	Scanform Software Error.	Software error in the sequencers
1001	Scanform Software Error.	Software error in the sequencers
1007	Scanform disconnected.	Connection problem with the automation board
1008	Scanform in failure mode.	Scan mechanical initiation or deactivation problem.
1011	Adjustment needed.	Offset too high between the previous setting and the current measurement in the scan turret step mode.
1100	Tracing error.	Software error in the entry sequencer
1100	Tracing error.	Scan mechanical quiescent position or initialization impossible. Or no frame.
1100	Tracing error.	Too many frame groove outputs.
1100	Tracing error.	Lever blocked on completion of entry (friction point in the lever translation?)
1100	Tracing error.	Entry discontinued as a result of a stop
1100	Tracing error.	Entry discontinued as a result of a failure
1100	Tracing error.	Too big a difference between the entry first and last point.
1990	Motor turret rotation failure.	Software error in the movement sequencers
1990	Motor turret rotation failure.	Software error: motor control outside its operating range
1990	Motor turret rotation failure.	Switch cannot be pushed in
1990	Motor turret rotation failure.	Switch cannot be released
1990	Motor turret rotation failure.	Step loss detected during movement
1990	Motor turret rotation failure.	Step loss detected during initialization
1991	Motor turret translation failure.	Software error in the movement sequencers

Problem No.	Message title	Display condition(s)
1991	Motor turret translation failure.	Software error: motor control outside its operating range
1991	Motor turret translation failure.	Switch cannot be pushed in
1991	Motor turret translation failure.	Switch cannot be released
1991	Motor turret translation failure.	Step loss detected during movement
1992	Motor lever rotation failure.	Software error: motor control outside its operating range
1992	Motor lever rotation failure.	Software error in the movement sequencers
1992	Motor lever rotation failure.	Timeout during motor initialization
1992	Motor lever rotation failure.	Motor control zero search failure
1992	Motor lever rotation failure.	Motor cannot be moved
1992	Motor lever rotation failure.	Coder zero pulse cannot be detected
1992	Motor lever rotation failure.	Timeout during motor movement
1992	Motor lever rotation failure.	The requested movement position cannot be reached
1992	Motor lever rotation failure.	The max stop cannot be reached Measured travel insufficient
1992	Motor bottom pinches failure.	Software error: motor control outside its operating range
1992	Motor bottom pinches failure.	Software error in the movement sequencers
1992	Motor bottom pinches failure.	Timeout during motor initialization
1992	Motor bottom pinches failure.	Motor cannot be moved
1992	Motor bottom pinches failure.	Timeout during motor movement
1992	Motor top pinches failure.	Software error: motor control outside its operating range
1992	Motor top pinches failure.	Software error in the movement sequencers
1992	Motor top pinches failure.	Timeout during motor initialization
1992	Motor top pinches failure.	Motor cannot be moved
1992	Motor top pinches failure.	Timeout during motor movement
1992	Motor top pinches failure.	Switch cannot be pushed in
1992	Motor top pinches failure.	Switch cannot be released
1992	Motor bottom pinches failure.	Motor control zero search failure
1992	Motor bottom pinches failure.	Coder zero pulse cannot be detected
1993	Motor lever translation failure.	Software error: motor control outside its operating range
1993	Motor lever translation failure.	Software error in the movement sequencers
1993	Motor lever translation failure.	Timeout during motor initialization
1993	Motor lever translation failure.	Motor cannot be moved
1993	Motor lever translation failure.	Timeout during motor movement
1993	Motor lever translation failure.	The requested movement position cannot be reached
1993	Motor lever translation failure.	The max stop cannot be reached Measured travel insufficient
2000	Layout Software Error.	Software error in the sequencers
2000	Layout Software Error.	Software error in the sequencers
2007	Blocker disconnected.	Connection problem with the automation board
2017	Calibration mapping error	Calibration mapping software error
2018	Wrong side of lens inserted.\nContinue anyway?	Lens cannot be reversed.
2019	Layout error, init méca impossible	Centering device mechanical initialization error
2019	Layout error, slaving not possible	Led cannot be slaved during processing.
2019	Layout error	Initialisation inspection impossible
2019	Layout error	Lens type cannot be determined.
2019	Layout error	Initialisation mapping impossible
2019	Layout error	SV lens cannot be treated
2022	Calibration Led Error, no glass detected	Lighting lower control not possible.
2022	Calibration Led Error, no glass detected	Lighting not consistent, adjust the led position
2022	Calibration Led Error, no glass detected	No adjustment image, Camera not functional.
2023	Blocking Error	Blocking requested, the pressure is not reached. No lens or tool or sensor damaged.
2026	Calibration Pros Error.	Camera images cannot be analysed. ->.
2026	Calibration Pros Error.	30mm and 60mm round pixel size different by more than 0.003mm. Adjust the camera and the lighting.
2026	Calibration Pros Error.	Intermediate difference between the 30 or 60mm pattern circumference and the theoretical value > 0.3mm
2026	Calibration Pros Error.	Difference between the 30 or 60mm pattern circumference and the theoretical value > 0.3mm
2100	Motor blocker X failure.	Software error in the movement sequencers
2100	Motor blocker X failure.	Software error: motor control outside its operating range
2100	Motor blocker X failure.	Switch cannot be pushed in
2100	Motor blocker X failure.	Switch cannot be released

Problem No.	Message title	Display condition(s)
2100	Motor blocker X failure.	Step loss detected during movement
2101	Motor blocker Y failure.	Software error in the movement sequencers
2101	Motor blocker Y failure.	Software error: motor control outside its operating range
2101	Motor blocker Y failure.	Switch cannot be pushed in
2101	Motor blocker Y failure.	Switch cannot be released
2101	Motor blocker Y failure.	Step loss detected during movement
2102	Motor blocker Z failure.	Software error in the movement sequencers
2102	Motor blocker Z failure.	Software error: motor control outside its operating range
2102	Motor blocker Z failure.	Switch cannot be pushed in
2102	Motor blocker Z failure.	Switch cannot be released
2102	Motor blocker Z failure.	Step loss detected during movement
2103	Motor blocker Theta failure.	Software error in the movement sequencers
2103	Motor blocker Theta failure.	Software error: motor control outside its operating range
2103	Motor blocker Theta failure.	Switch cannot be pushed in
2103	Motor blocker Theta failure.	Switch cannot be released
2103	Motor blocker Theta failure.	Step loss detected during movement
2104	Motor translation reflector failure.	Software error in the movement sequencers
2104	Motor translation reflector failure.	Software error: motor control outside its operating range
2104	Motor translation reflector failure.	Switch cannot be pushed in
2104	Motor translation reflector failure.	Switch cannot be released
2104	Motor translation reflector failure.	Step loss detected during movement
2105	No camera found.	At least one camera has not been detected.
2106	Just one camera found.	One of the two cameras has not been detected.
2107	Adjustment needed.	Offset too high between the previous setting and the current measurement in the centering device step mode (TX or TY or RT).
2108	Inspection camera error.	Inspection camera cannot be selected
2108	Inspection camera error.	Inspection camera live cannot be started
2109	Mapping camera error.	Mapping camera cannot be selected
2109	Mapping camera error.	Mapping camera live cannot be started
3001	Unable to save settings.	Save file cannot be written.
3201	Deformation not possible	Deformation not possible, as outside the limits for the requested shape.
4000	PROS processing error. Adjustment processing error Pixel.	PROS not able to detect an outline.
4001	PROS: Adjustment processing error LED.	Either the led max control has been exceeded or the exposure times are outside the range.
4002	PROS: Adjustment processing error Pixel.	Pixel size cannot be calculated.
4002	PROS: Adjustment processing error Pixel.	The difference in the pixel size in X and Y > +- 0.005mm

7. TECHNICAL SPECIFICATIONS

briot Couture

7.1. TECHNICAL SPECIFICATIONS

The general characteristics of the BRIOT COUTURE blocker are as follows:

- Dimensions:
  - ✓ Width: **360 mm**
  - ✓ Depth: **565 mm**
  - ✓ Height: **590 mm**

- Weight: **29.5 kg**
- Fitting memory capacity: **5,000 fittings**
- Pattern database capacity: **10,000 shapes**
- Voltage: **100 V - 240 V +/- 10%**
  50 Hz or 60 Hz
- Electrical consumption: **80 W**
- Fuses: **T2AL250V** (x2) – UL recognized – Only replace by Littlefuse No. **218002**
- EMC standards:
  - ✓ In compliance with Directives EMC 2004/108/EEC
  - ✓ EN 55022 "Class B"
  - ✓ EN 61000 – 6 – 2
  - ✓ EN 61000 – 6 – 3

- Safety standards:
  - ✓ In compliance with Directives 2006/95/EEC
  - ✓ IEC 61010-1 Issued: 2010/06/10 Ed3, Corr.1:2011, Corr.2: 2013

- UL Standards for US 120V 60Hz version:
  - ✓ UL 61010-1:2012 Ed:3 +R :19Jul2019
  - ✓ CAN/CSA-C22.2 No. 61010-1-12:2012 Ed.3 +U1;U2;A1

- Installation: **Category II**
- Pollution level: **II**
- Operating temperature range: **13°C min – 40°C max**
- Maximum humidity level: **80% for temperatures of up to 31°C, decreasingly linearly up to 50% relative humidity at 40°C**
- Maximum altitude: **2000 meters**

The device is for Indoor Use only

THE MANUFACTURER CANNOT BE HELD RESPONSIBLE FOR DAMAGE CAUSED BY ANY USE OF THE MACHINE WHICH DOES NOT COMPLY WITH THE INSTRUCTIONS IN THIS MANUAL OR DISPLAYED ON THE MACHINE ITSELF.

8. APPENDIX

briot Couture

8.1. DESCRIPTION OF BUTTONS

8.1.1. BUTTONS COMMON TO THE SCREENS


: Calling up a fitting


: Accessing the list of existing fittings


: Accessing the list of patterns in memory


: Saving a pattern


: Deleting entered information


: Accessing the entry screen


: Accessing the centering screen


: Accessing the quick view screen


: Accessing the Digiform screen


: Accessing the drilling screen


: Confirm the changes


: Cancel the changes

8.1.2. ENTRY SCREEN BUTTONS


: Activate the capturing of the lens according to its center of gravity


: Activate the capturing of the lens according to its center of gravity without detecting the drilling holes


: Activate the entering of the frame

: Activate the entering of the frame on the Left side

: Activate the entering of the frame on the Right side


: Select a plastic frame


: Select a frame without circling


: Select a metal frame

 : Reverse the job sides (L/R)

 : Conduct a symmetric copy

 : Perform a back-up on an external server (option)

 : Value of frame groove base

 : Tilt of frame (Z-tilt)

8.1.3. CENTERING SCREEN BUTTONS

 : Centering a progressive lens

 : Centering a progressive lens using the PowerMap function

 : Centering a bifocal lens

 : Centering a single vision lens

 : Centering a prismatic lens

 : Centering a lens marked by three points

 : Centering a single vision lens using the PowerMap function

 : Deactivate the display of the shape

 : Activate the display of the shape superimposed on the lens

 : Increasing or decreasing the bearing surface brightness for centering a tinted lens

 : Lens manual centering

 : Automatic blocking or semi-automatic blocking of the lens by a long press

8.1.4. OFFSET SCREEN BUTTONS


: Axis moved downwards


: Axis moved to the right


: Axis moved to the left


: Axis moved upwards


: Axis rotated to the right


: Axis rotated to the left


: Locking the centering cross


: Deleting all the holes


: Offset ok, No oversize required


: Offset +, Apply an oversize of 0.10mm


: Offset ++, Apply an oversize of 0.10mm


: Number of holes detected


: Number of notches detected


: Number of oblong holes detected


or 
: Bridge positioning side

8.1.5. DIGIFORM SCREEN BUTTONS


: Entry of values in a mode not proportional to the initial shape


: Entry of values in a mode proportional to the initial shape


: Shape circumference value


: Shape angular value


: Oversize value of the shape circumference

8.1.6. DRILLING SCREEN BUTTONS


: Selected hole moved downwards


: Selected hole moved to the right


: Selected hole moved to the left


: Selected hole moved upwards


: Selecting the drilled hole parallel to the clamping shafts


: Selecting the drilled hole normal to the front face


: Selecting the drilled hole normal to the rear face


: Selecting the drilled hole normal to the desired base


: Select several holes


: Apply the same distance between the holes


: Align the selected holes


: Select the reference point


: Deleting all the holes


: Adding an oblong hole + number of oblong holes


: Adding a notch + number of notches


: Adding a hole + number of holes


: Make an emerging hole


: Make a non-emerging hole


: Make a spotfacing


: Diameter of hole(s)


: Distance of the hole(s) from the lens edge


: Spotfacing depth


: Spotfacing width

8.1.7. LIST OF FITTINGS SCREEN BUTTONS


: Sort by barcode number


: Sort by date


: Enter information about the selected fitting

8.1.8. LIST OF PATTERNS SCREEN BUTTONS


: Sort by barcode number


: Sort by lens side (R/L)


: Sort by manufacturer name


: Sort by date


: Sort by "like"


: Delete the selected line


: Sort by drilled lens


: Display complete list in memory


: Like a frame + or -


: Delete manufacturer

8.1.9. SHAPE CREATOR SCREEN BUTTONS


: Access to the Shape Creator function


: Zoom-in on the shape on the screen


: Re-do an image by live video


: Add points on the screen + number of points


: Activate/deactivate the magnetic function


: Return to Shape Creator screen

VISIONIX

INNOVATION TO UNLOCK YOUR POTENTIAL

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