

**Mr Blue 2.0**
Sun and Sport
Edition 



User manual

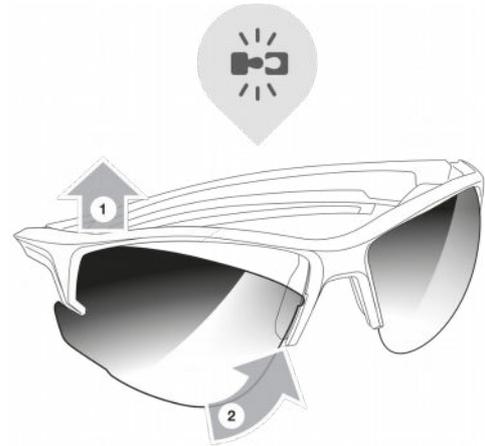
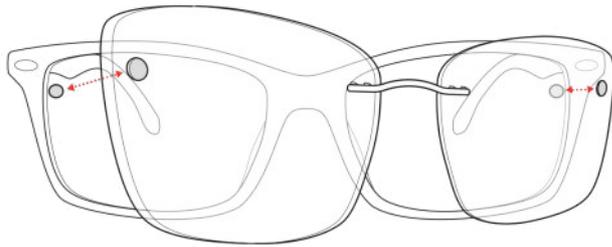
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MR BLUE SUN & SPORT EDITION

Mr Blue Sun & Sport Edition has:

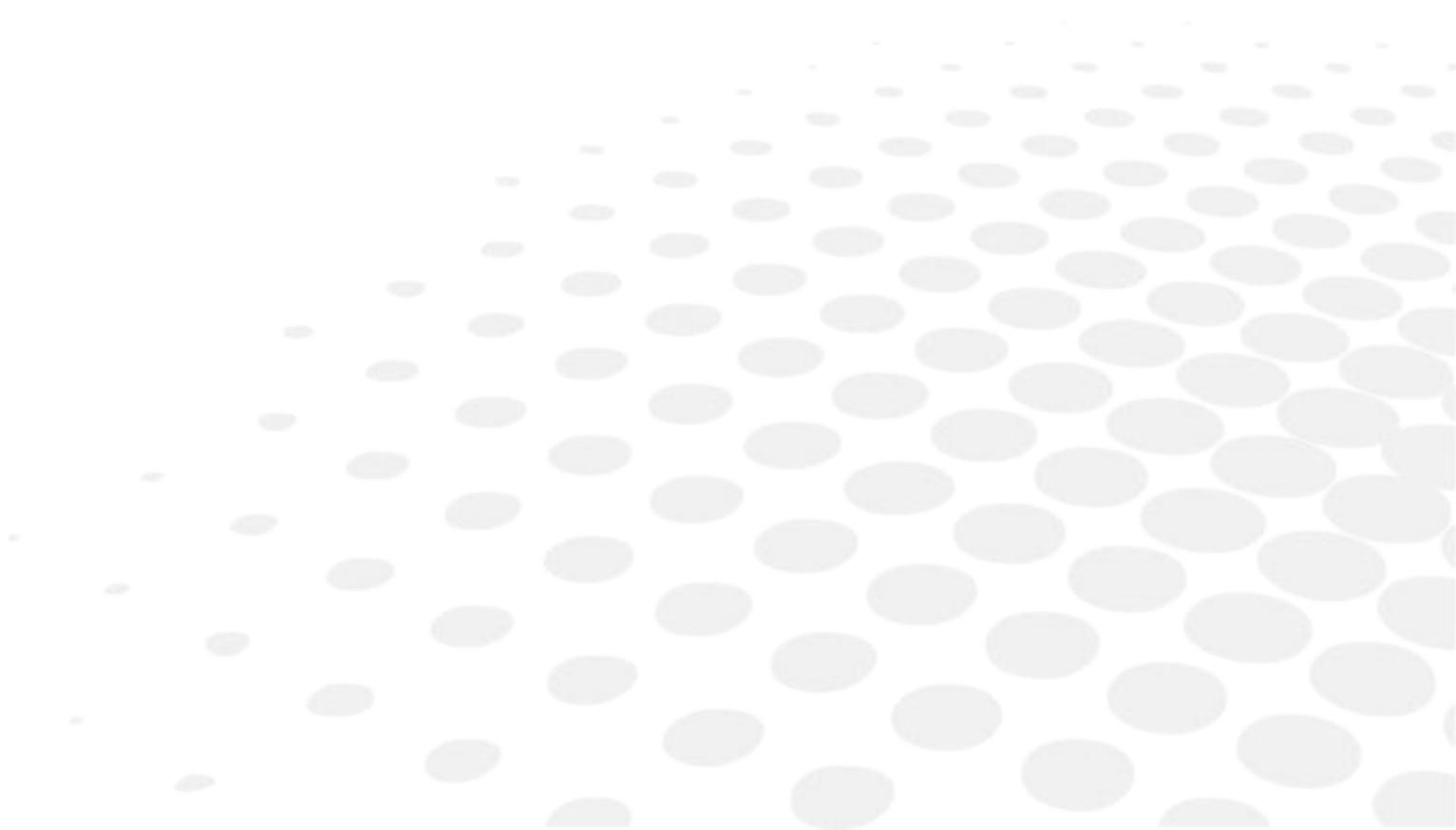
- two new features:



- an improvement to the edging time on the step bevel with the addition of a "step ++" new tool:



I. PERFORM A CHEMISTRIE TM JOB



CHEMISTRIE™ EYEWEAR THAT CLICKS is a technical solution that, through a magnet system, allows you to superimpose a pair of additional "CLIP" lenses on the "ophthalmic" lenses.



1. PREREQUISITES

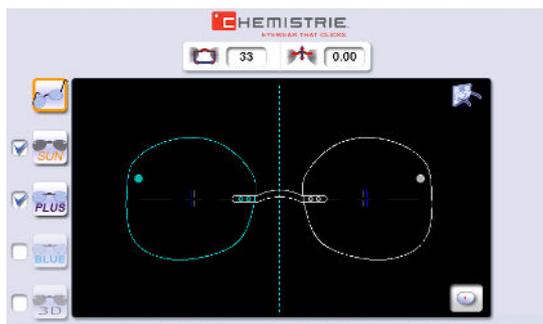
 You must center and block the lens before placing it in the edger.



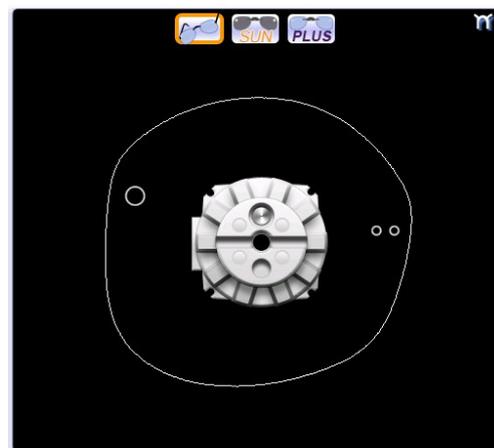
Before calling up the job on the edger, you must select and configure beforehand the clips which you wish to carry out on the tracer.

Only the selected clips will appear on the edger's work screen.

Tracer



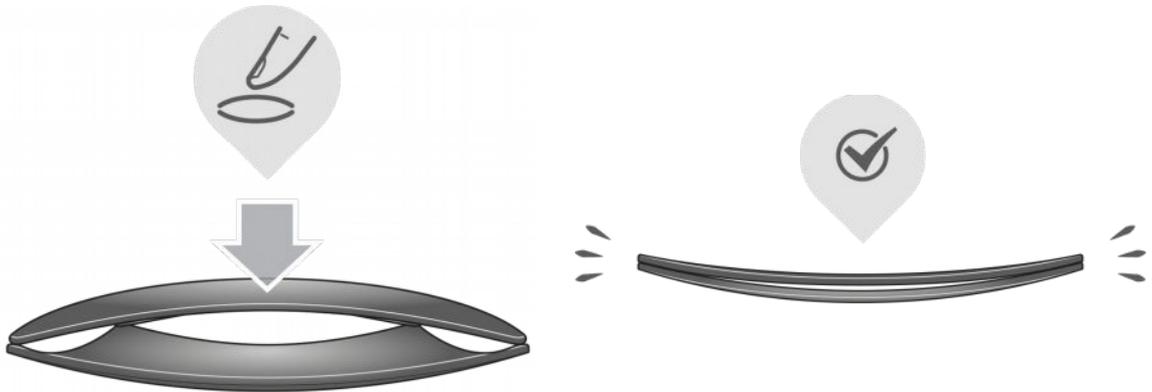
Edger



It is recommended to start systematically with the edging of the ophthalmic lenses

2. PREPARE THE CHEMISTRIE™ LENSES

- 1 To assemble the two lenses, position them as indicated and apply light pressure in the opposite direction of the curve of the lenses.



- 2 Check visually that the lens can accommodate the shape.



For more precision, you can verify it using the tracer, by using the centering function.

- 3 Position the posiblock in the center of the lens.

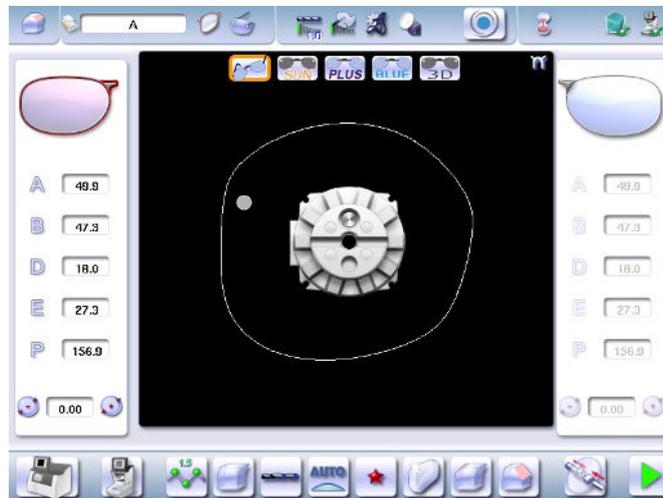


> The lenses are ready to be edged.

3. PERFORM A CHEMISTRIE™ JOB

1 Press  to call up the desired shape located on the tracer.

> The shape is displayed on the edger work screen with the selected clips:



2 Press on  to select the ophthalmic lenses: .

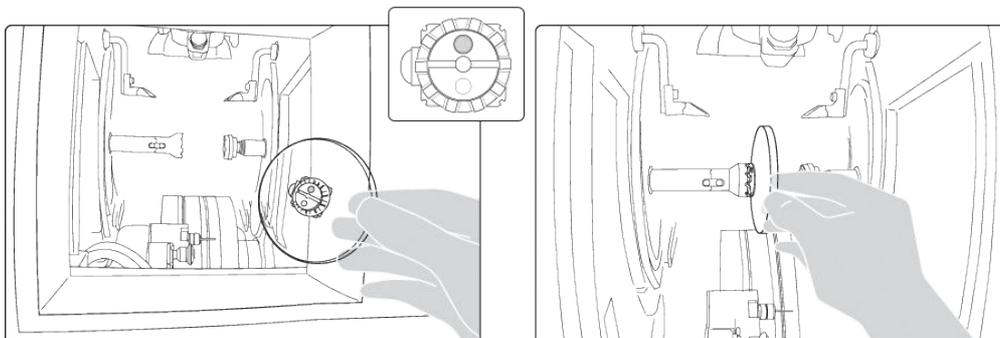
3 Configure edging:

1. Select lens material.
2. Select the type of cycle.
3. Select the finish,
4. Choose whether or not to polish and/or chamfer your lens.

4 Place the lens in the posiblock holder.



Place the metal peg of the posiblock upwards and the positioner downwards: a magnet is used to hold the lens in position on the axis.





You can clamp the lens manually by pressing .



Make sure you move your hand well away before you start the edging cycle.

5

Press  to start the cycle.

6

Proceed to a retouch if necessary, then carry out the edging of the second lens.

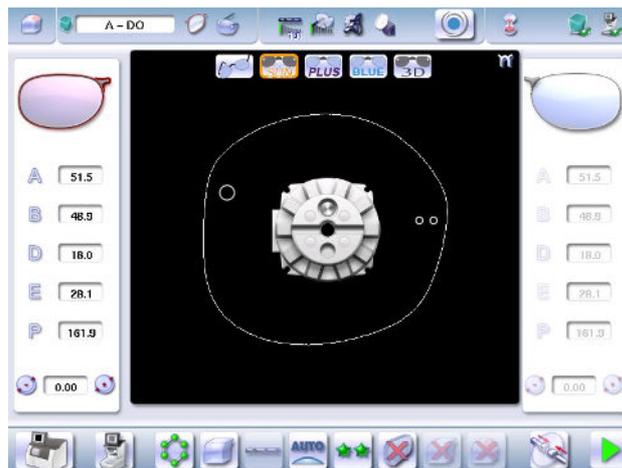
> With the ophthalmic lenses now edged, carry out the edging of the Chemistrie™ lenses.

7

Select the Chemistrie clip™ that you wish to edge.



> The following screen is displayed:

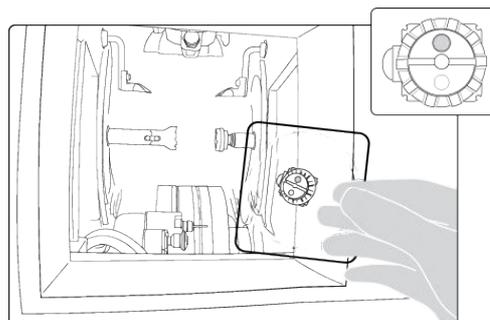


8

Place the two lenses (prepared beforehand) in the posiblock holder.



Place the metal peg of the posiblock upwards and the positioner downwards: a magnet is used to hold the lens in position on the axis.





You can clamp the lens manually by pressing .



Make sure you move your hand well away before you start the edging cycle.



Check that the Chemistrie lenses™ are still properly in place during the clamping phase. They must remain clipped together.

9 Configure edging:

For the clips  and , by default, edging is configured as follows:

Material	
Finishing wheel	
Edging mode	
Type of cycle	
Polishing	

For the clips  and , by default, edging is configured as follows:

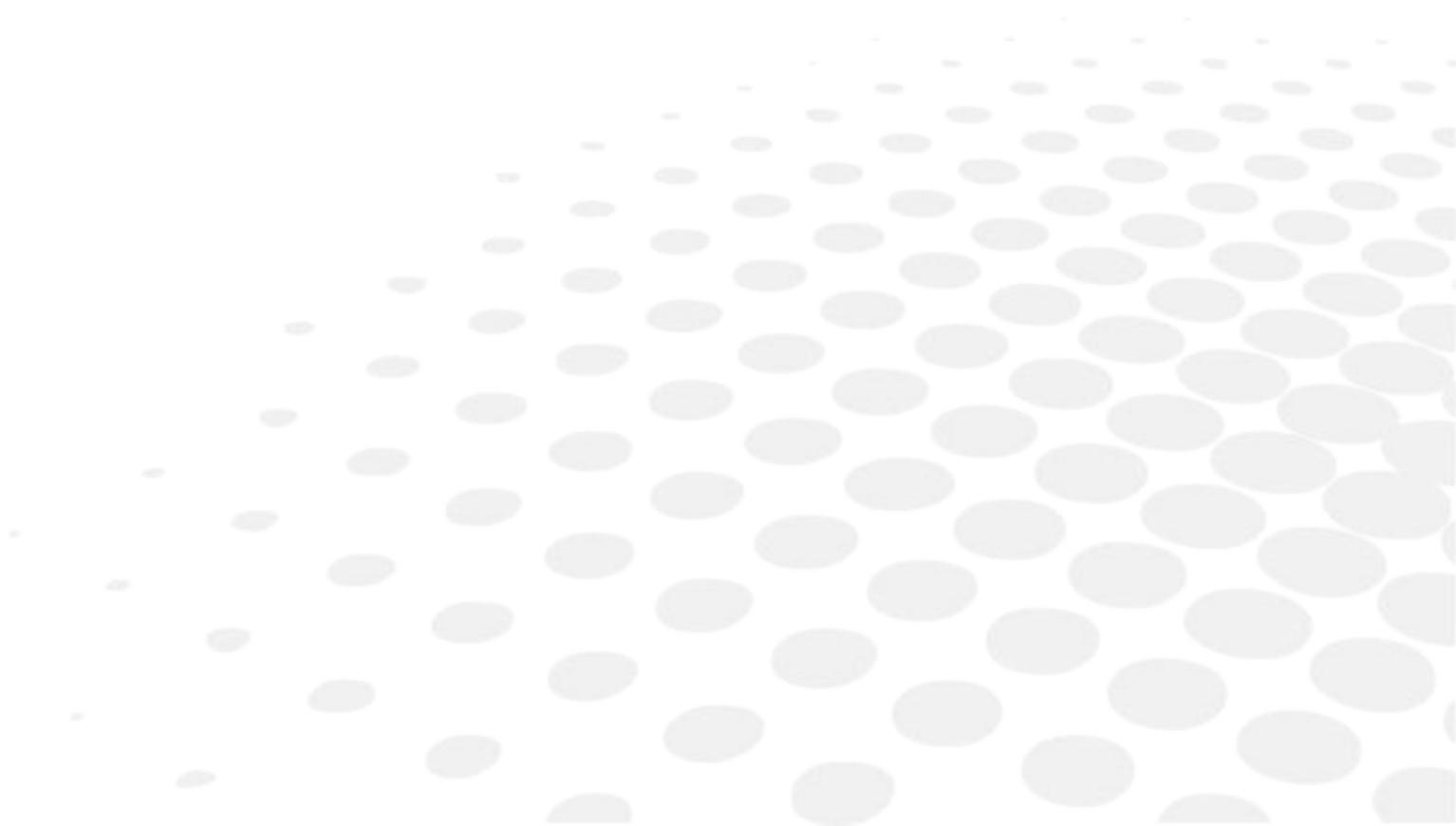
Material	
Finishing wheel	
Edging mode	
Type of cycle	
Polishing	

10 Press  to start the cycle.



Re-start the procedure for as many times as you have Chemistrie clips™ to perform.

II. CARRY OUT A HALF JACKET JOB





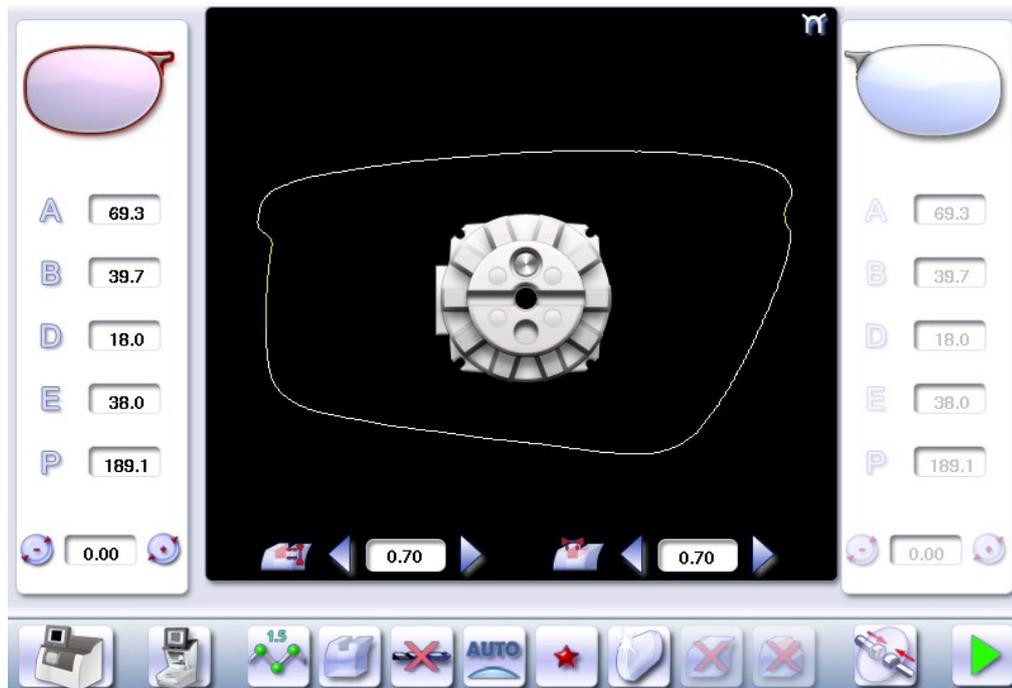
We highly recommend that you edge a test lens before carrying out the edging of the final lens.
Preferably use a test lens that has a base unit equivalent to the ophthalmic lens.

1. OUTLINE THE STEP BEVEL TRAJECTORY ON A HALF JACKET SHAPE

a. Call up the form

1 Press  to call up the desired shape located on the tracer.

> The shape is displayed on the edger work screen.



2 Press  to select the Half Jacket finish.

3 Select lens material.

The cycle is automatically configured in "Customized".

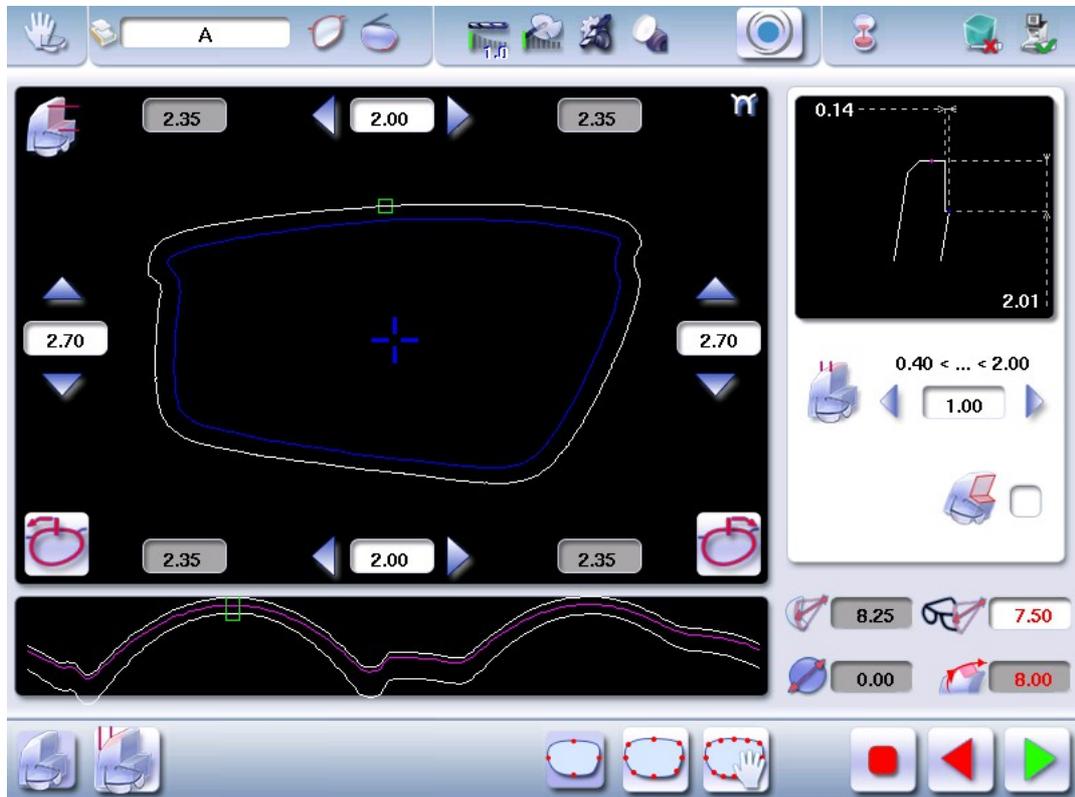
4 Choose to create or not to create a small or a large chamfer on the rear surface of the lens.



For more information, refer to the section Edging a lens > Polishing and Edging a lens > Chamfering in the complete Mr Blue 2.0 manual.

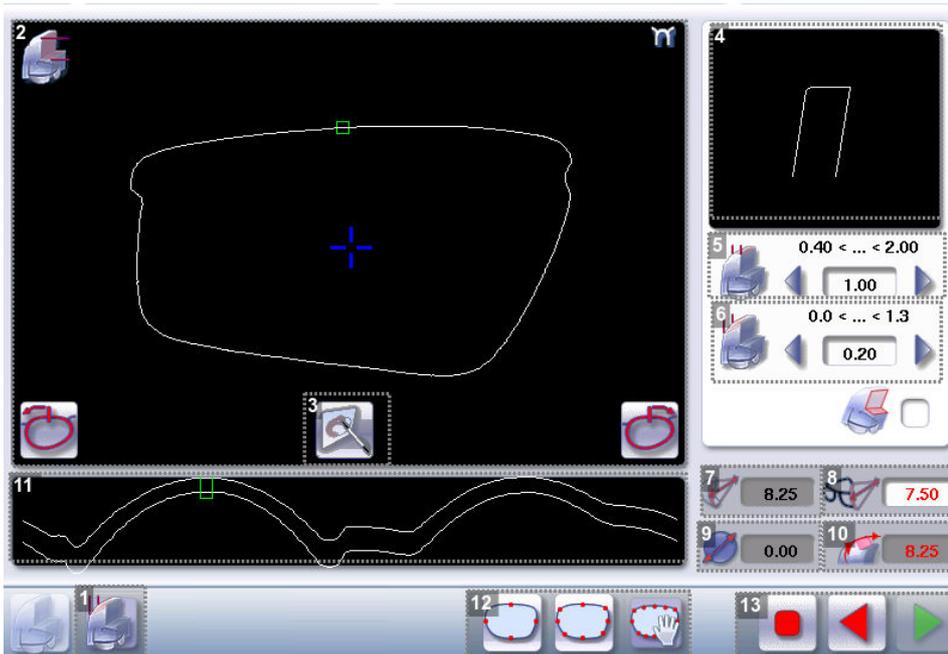
5 Press .

- > The door closes, the lens is clamped and then felt.
- > The step bevel finishing screen is displayed by default.



6 Press on  to create step bevel shelf bevel, Half Jacket specific.

> The following screen will appear:



1. Front surface tracking step bevel screen

2. Work area

Image of the shape to be edged:

Frame shape at bottom of groove

Bevel trajectory on rear surface

Bevel trajectory on rear surface if the lens used is too thin to achieve the desired finish.

3. Access to step bevel definition screen

4. Zoom window

Represents the bevel profile at the position of the cursor.

5. Width of the flat side of the bevel

The value of the flat side of the bevel must be between 0.4 mm and 2 mm.

6. Front surface tracking value

The value of front surface tracking must be between 0 mm and 1.3 mm. This value is definable only in the "front surface tracking" screen.

7. Lens base

8. Frame base

9. Reminder of size reduction/increase applied to lens diameter

10. Bevel Base_Range of values of the lens base necessary for the frame

If the lens base used is out of range: the range values are shown in red.

11. Window showing the bevel trajectory on the lens section

- Centre of the flat side of the bevel
- Front surface/rear surface of lens

12. Number of shelf bevel values



Transition from 4 to 8 shelf bevel values.



Transition from 8 to 4 shelf bevel values.



Transition into free shelf bevel creation mode. **NEW**

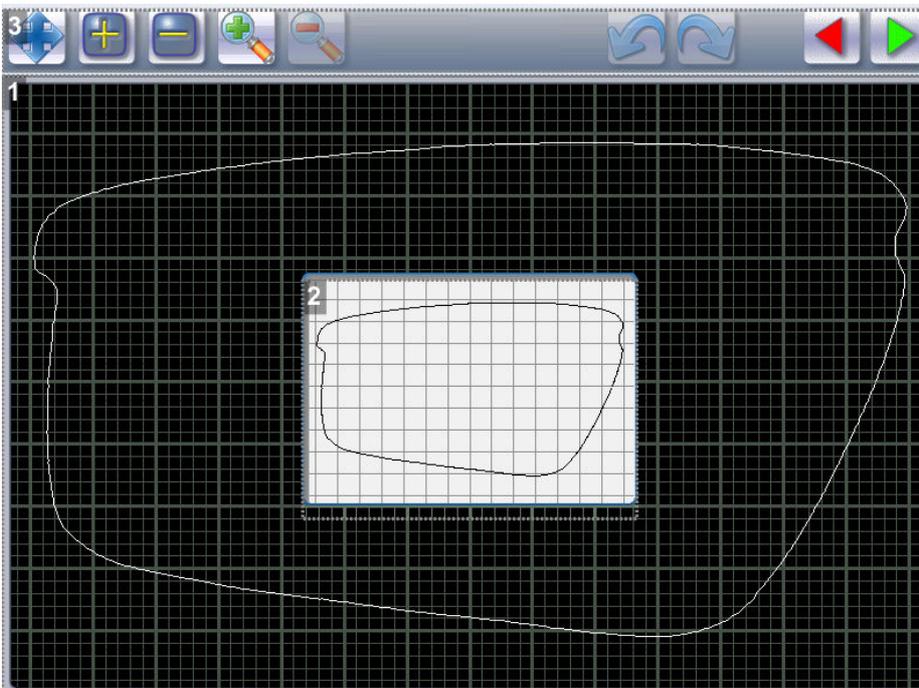
13. Navigation

-  Stop the cycle
-  Back to the main edging screen
-  Start the edging cycle

b. Set the step bevel trajectory

Captioned screen

From the customized screen for the step outline, press  , then  next to access the step bevel outline screen. The following screen appears:



1. Display and shape work zone

2. Scale 1 shape display window.

3. Tool bar

 : Selection of the shelf bevel area for modification.

When the form is selected:

- the button changes: ,
- the "non-machinable" zone appears in red () on the screen.

 : Addition of points to outline the shelf bevel trajectory.

> When the button is selected, it changes: 

 : Deletion of points to outline the shelf bevel trajectory.

> When the button is selected, it changes: 

 To add or remove points, the shape must be selected beforehand.

 Use the stylus to set the bevel trajectory with precision.

Once the points are set, they appear in blue ()

 : Front zoom

 : Back zoom

 : Cancel the preceding action

 : Repeat the preceding action.

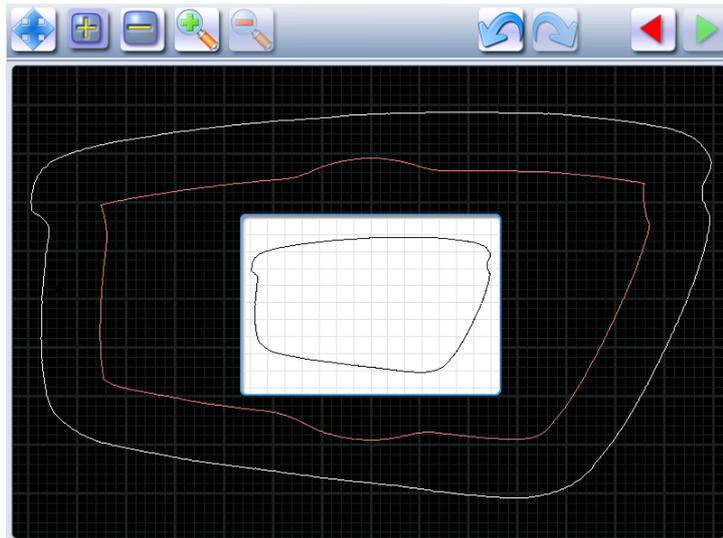
 : Confirm

 : Cancel

Create the step bevel trajectory

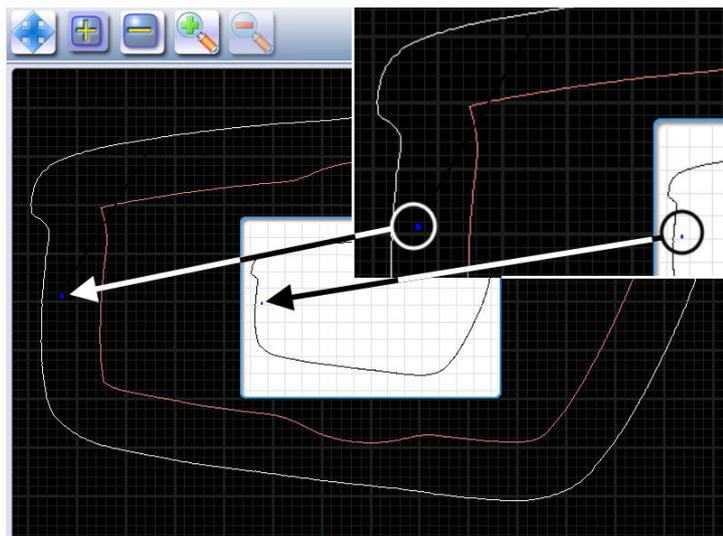
1 From the customized screen for the step outline, press  to select the shape, then  to add points.

> The following screen will appear:



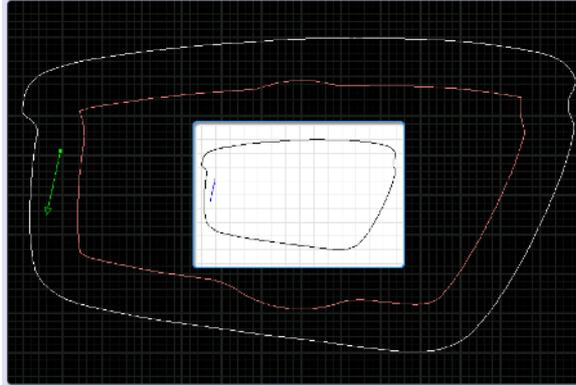
2 Press and hold the stylus to set the first point of the step bevel trajectory.

- > An audible signal informs you that the first point is registered.
- > The point is displayed in blue within the work space and in the display window on scale 1.

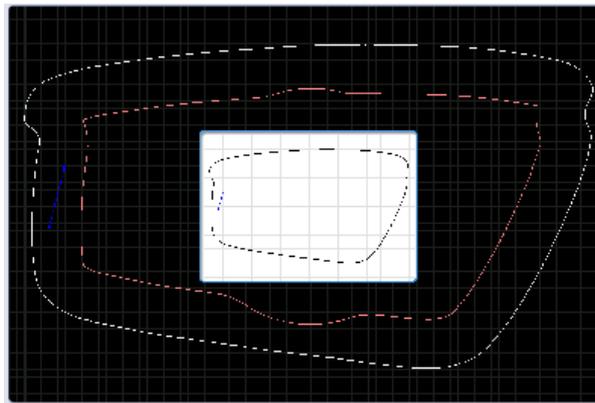


3 Press and hold the stylus to set the second point of the step bevel trajectory.

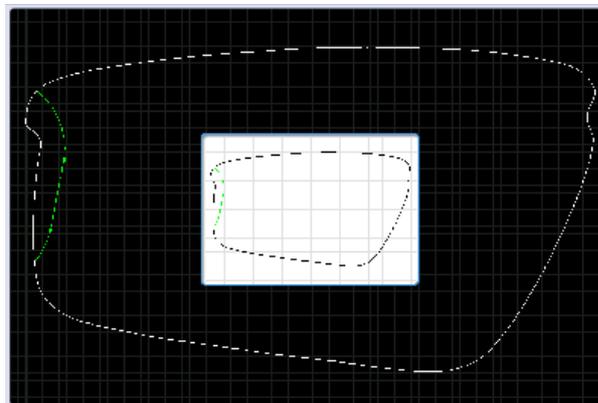
- > A green segment (■) is created between the points.



- > An audible signal informs you that the second point is registered.
- > The segment is displayed in blue within the work space and in the display window on scale 1.



If you raise the stylus, the bevel curve is displayed in green, it is calculated automatically. You can redo this trajectory by setting the third points using the stylus.



4 Press and hold the style to set the other points of the step bevel trajectory, the ones behind the others.



With each audible signal, raise the stylus a few seconds before setting a new point by pressing and holding

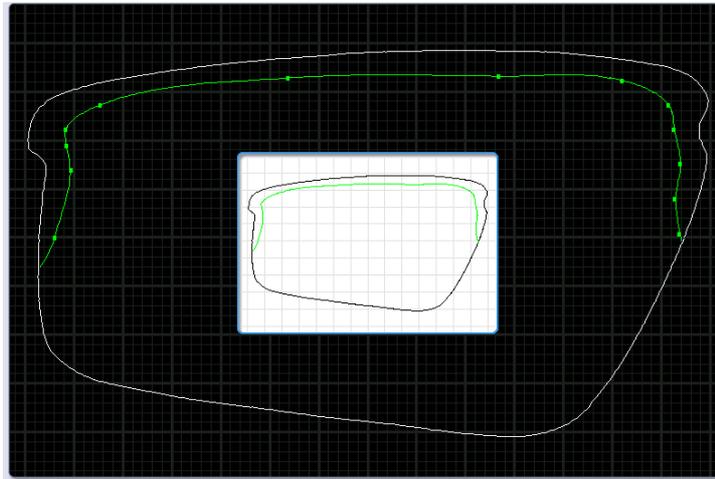


It is preferable to create a greater number of points at the angles to gain precision, if you wish to adjust more precisely the bevel trajectory using the zoom.

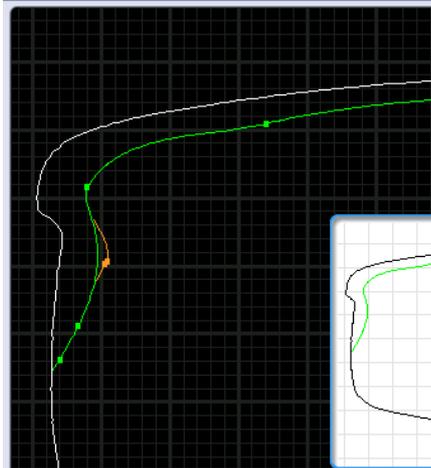


Conversely, for easier handling, it is preferable to reduce the number of points on the curves so the adjustment is more effective.

> The step bevel trajectory is set.



The orange trajectory (■) cannot be performed, because the tool cannot reach it.



The trajectory in green (■) will be performed (it is not necessary to modify the trajectory).

For more information, consult the Set step bevel section > Adjust the trajectory (☞ p.24)

Go into zoom mode

You can zoom in on a specific point or outline an area.

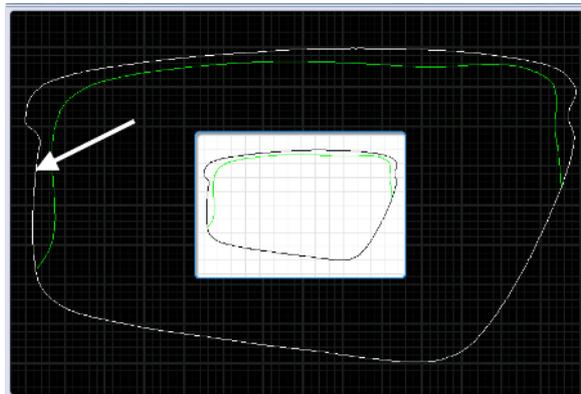
Increase a particular point

1 Press  to switch into Zoom mode.

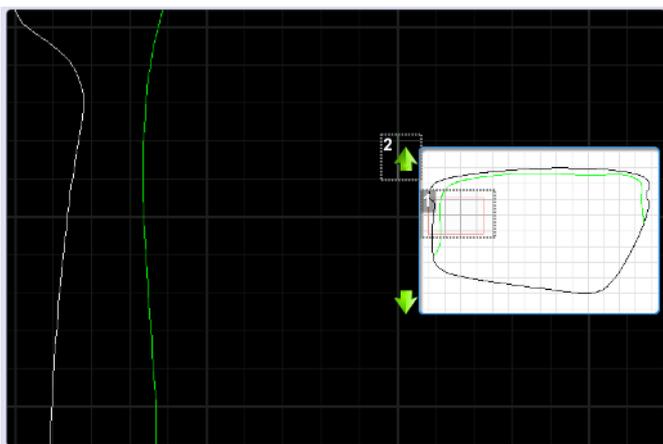
2 Press and hold the stylus on the point of the shape that you want to see more precisely.



Press on the Frame shape at bottom of groove in white (□).



- > An audible signal informs you that the information is registered.
- The image is displayed:



1. Locate the form on scale 1.

2. Movement arrow

 Movement to the top of the shape

 Movement to the bottom of the shape

3 Press  again to enlarge the area.

 When the enlargement is at a maximum, the icon is grayed .

4 Press  again to shrink the area.

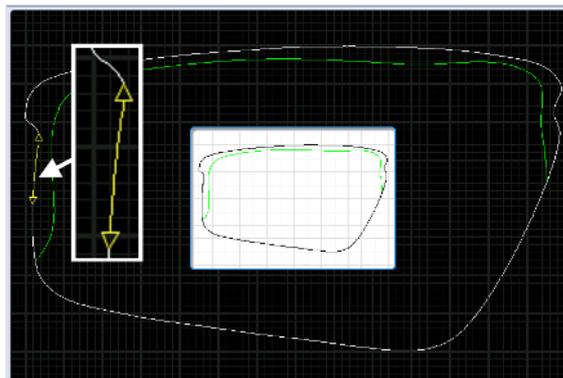
Enlarge a defined area

1 Press  to switch into Zoom mode.

2 Using the stylus press on a point of the shape.

3 Move the stylus over the shape.

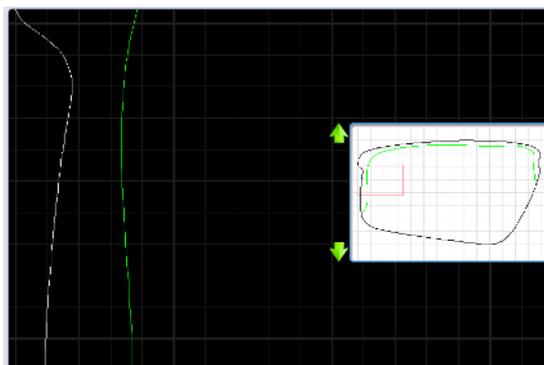
> The defined segment appears in yellow.



4 Press and hold to set the end of the segment outlining the area that you want to enlarge.

> An audible signal sounds 3 times.

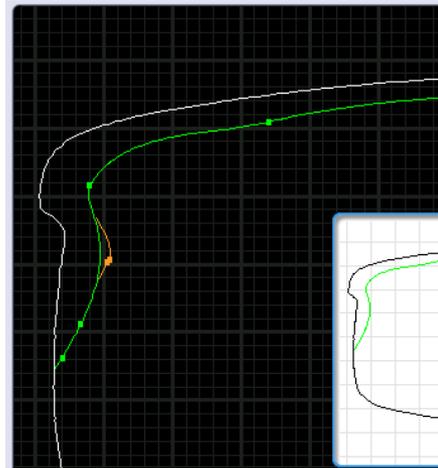
> The area is displayed:



Adjust the step bevel trajectory

1 Press  to select the shape:

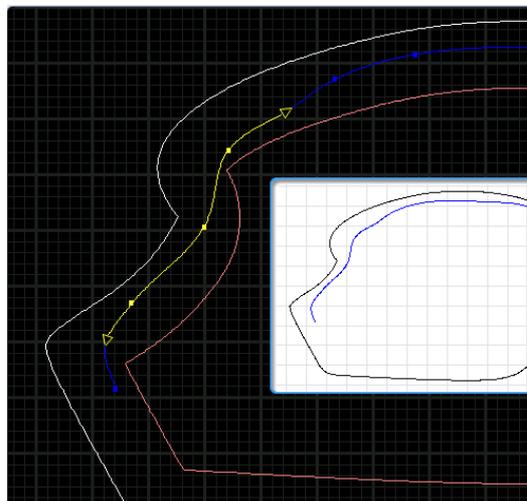
> The points of reference appear, the shape can be modified.



2 Using the stylus press on a point of the shape.

3 Move the stylus over the shape.

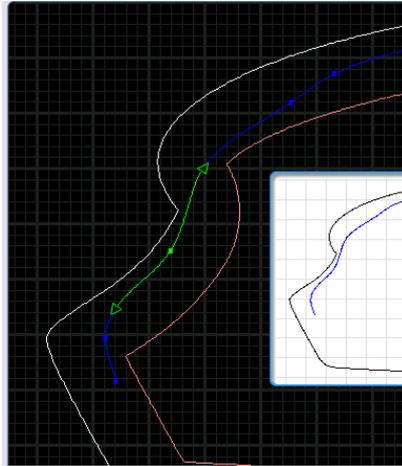
> The defined segment appears in yellow.



4 Press and hold the stylus to set the end of the segment.

> An audible signal sounds 3 times.

The segment appears in green.

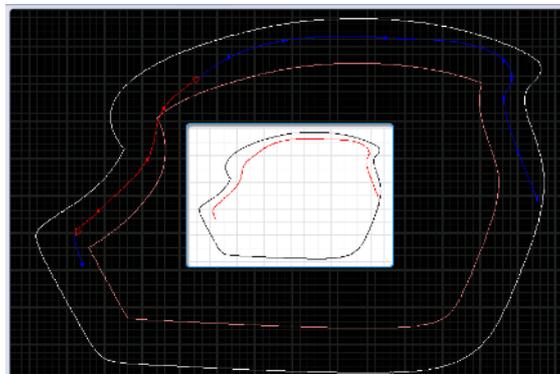


5 Move the segment using the stylus.



When the trajectory passes by the closed area:

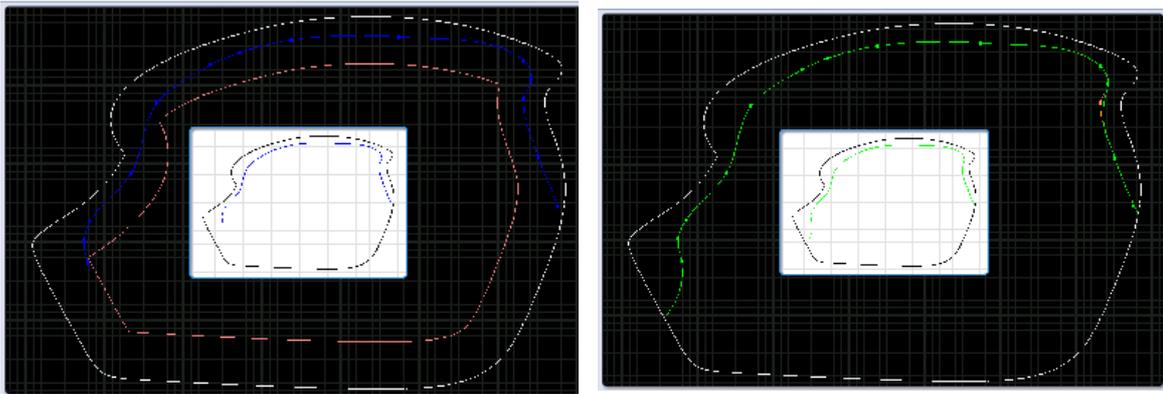
- The segment concerned becomes red.
- The whole bevel curve becomes red in the display window on scale 1.



6 Raise the stylus to validate the modification.

- > An audible signal sounds 3 times.
- > The segment becomes blue (only the points of reference set by you will appear), the machine recalculates the trajectory of the curve => the trajectory becomes green.

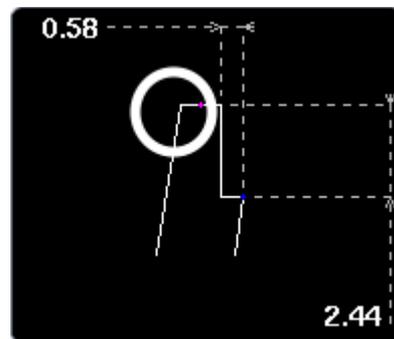
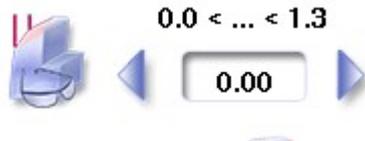
The modification is validated.



> The modification is validated.



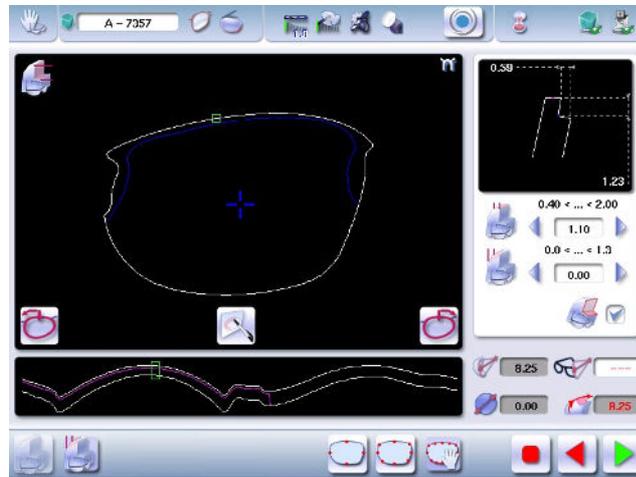
The tracking distance for the front surface of the step bevel is managed in the customized settings screen for the step bevel in "front surface tracking" mode.



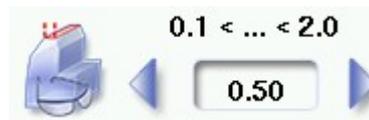
7 Press  to confirm the shelf bevel.

2. FINALIZE THE STEP BEVEL SETTINGS IN "FRONT SURFACE FOLLOW-UP" MODE

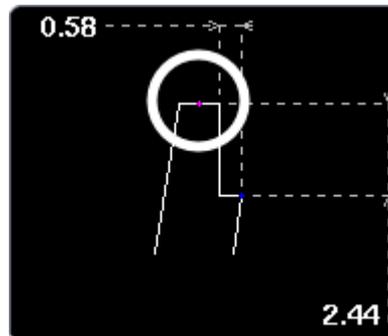
- 1 Configure the flat side of the bevel and the front shelf bevel of the bevel step.



- 2 Press the buttons  and  on the right of your screen to modify the width of the flat side of the bevel.



> The result can be viewed in the zoom window.



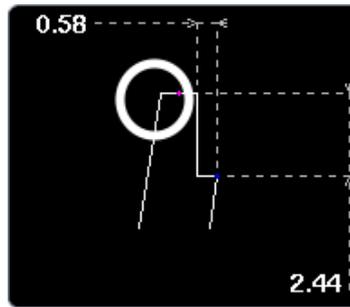
- 3 Press the buttons  and  on the right of your screen to modify the value of front surface tracking.



It is advised to set the value at 0 because front shelf bevel will be viewable on the entire contour of the shape.



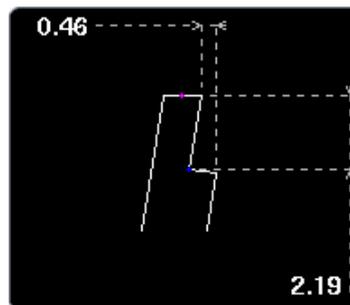
- > The result can be viewed in the zoom window and the display window of the bevel trajectory on the lens section.



- 4 Press   systematically to perform a back chamfer of the assembly aid.

- > The chamfer is selected  .

- > The result can be viewed in the zoom window.



- 5 Press the "cycle start" button (front face) or .

- > The edging cycle starts.
- > When the edging cycle is finished, the retouch screen is displayed.

- 6 Press  to release the lens.

- 7 If necessary, retouch the lens.

Otherwise, start edging the second lens. Select the lens directly on the screen, on the left or right of the work area.

- > The edging screen for the second lens is displayed. All finishes chosen and the modifications made are kept.



If the test is not mounted correctly in the frame, go to Essibox to modify the shape.

3. MODIFY THE SHAPE ON ESSIBOX

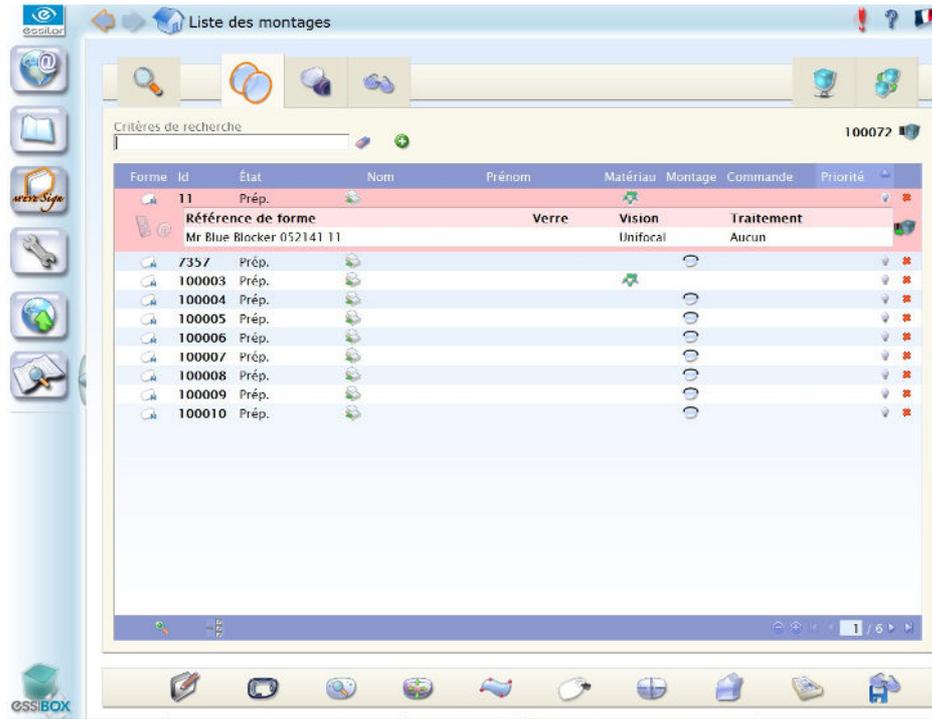
If the test lens cannot be mounted, we advise you to modify the shape on Essibox.



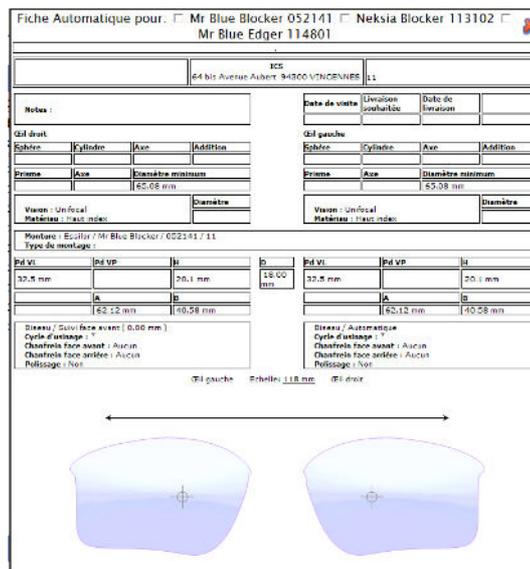
Contact your customer support if the job is not available in the job manager on Essibox.

1 In the job manager screen on Essibox, press the "ID number" to select the job.

> The following screen is displayed:

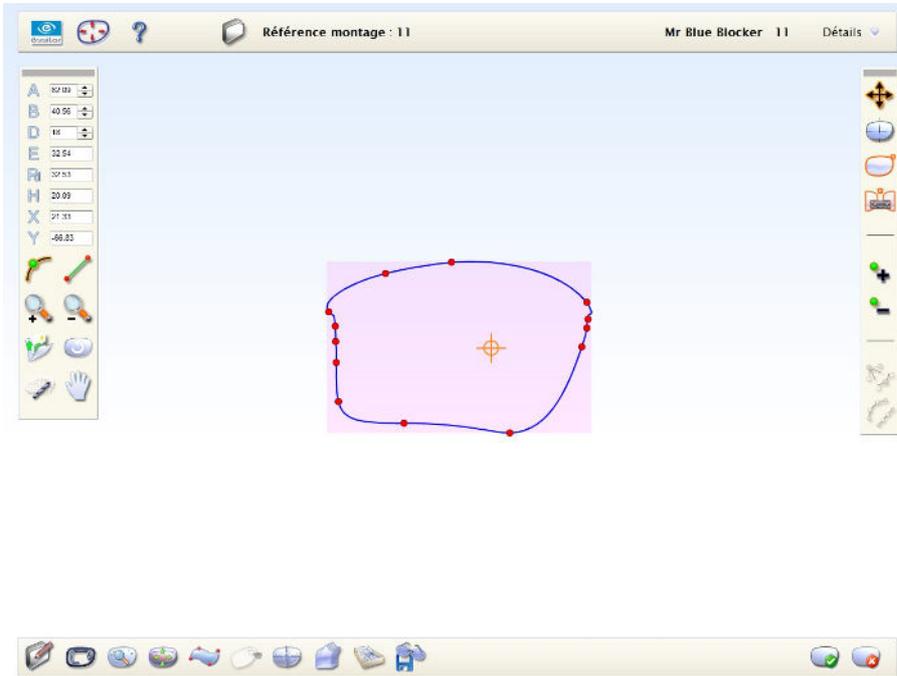


You can visualize the job by pressing .



2 Press  to return to the "M'Eye Touch" creative modification screen.

> The following screen is displayed:



3 Press  to select the point from which you wish to modify the shape

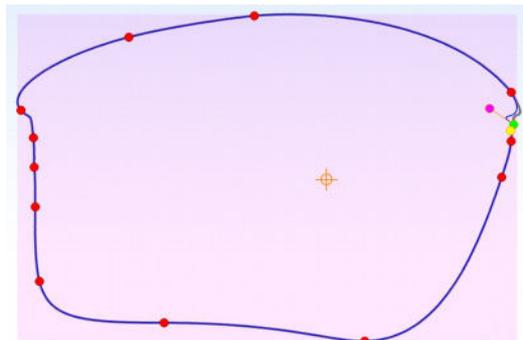
4 Press  to select the "angle" tool

: Reference point: point from which the shape modification will be started.

: Check-points: points allowing you to modify the curve.

5 Modify the shape to ensure optimal mounting in the Half Jacket frame.

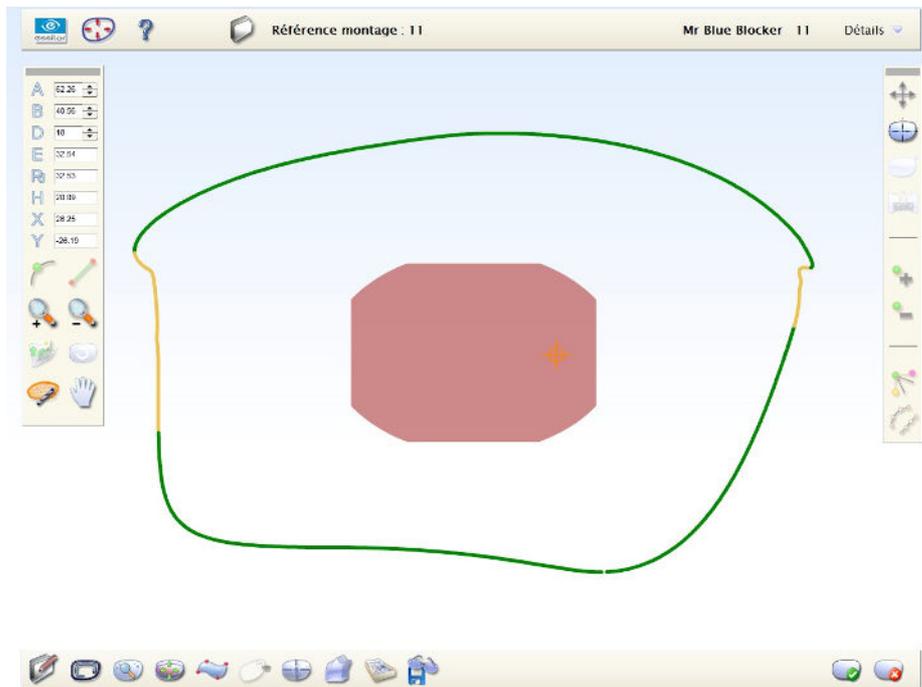
For more information consult the complete manual for Mr Blue 2.0 > Use M'EYE Sign > make a creative shape (M'Eye Touch).



6 Press  to check the shape's feasibility.

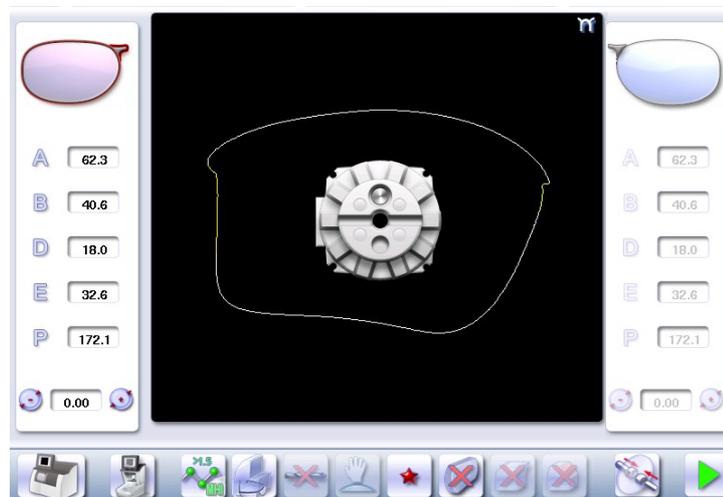
 The button becomes red .

> The following screen will appear:
The shape is valid.

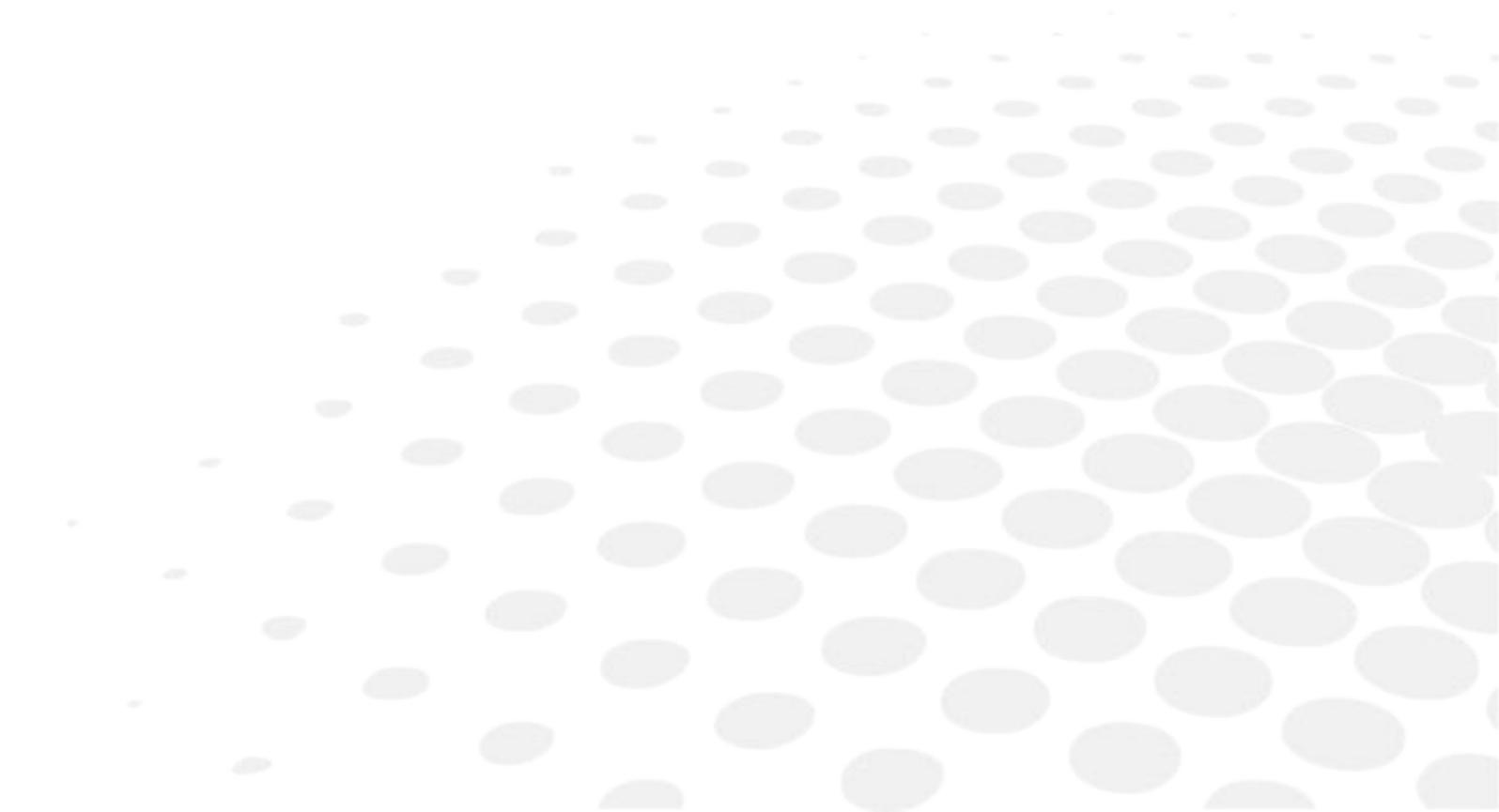


7 Press  to confirm the new shape.

8 Recall the shape on the edger to make a new test lens.



III. CARRY OUT A STEP BEVEL => " NEW STEP
++ TOOL"

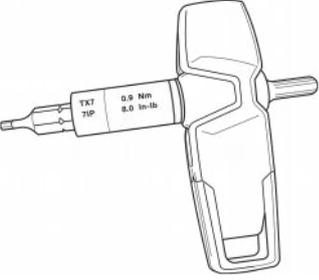
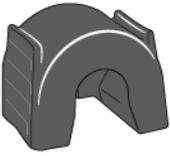
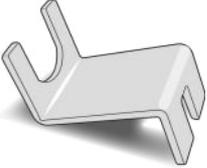




The step bevel finishing is active and available only if the tool is installed on the "small tools" module.



Prerequisite:

	<p>Torque wrench</p>
	<p>Tool for "wheel" removal</p>
	<p>Allen key</p>
	<p>Blocking key</p>
	<p>"Step ++" tool</p>

This section describes:

- The installation procedure for the **new "step++ tool"** (☞ p.35)
- Step bevel specificities with the new tool. (☞ p.39)

Reminder

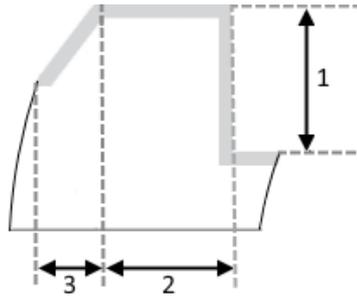
The use of the step bevel is determined by two parameters: frame and lens.

- Concerning the lens, the main constraint is the thickness of the nasal and temporal edges.
- Concerning the frame, the crucial elements are the bridge and shape of the groove. The hinge is an additional factor in the case of a metal frame, the arms for a plastic frame.



For this job, the lens base must always match the frame base perfectly. Too great a difference between the two could be detrimental to the quality of your job.

Cross-section of a step bevel

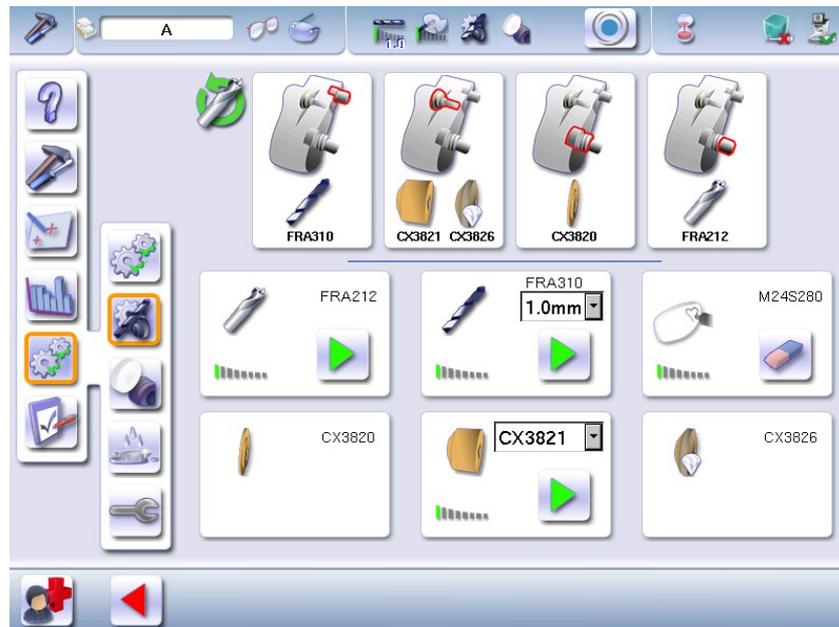


- 1: Value of shelf bevel of rear surface
- 2: Width of the flat side of the bevel
- 3: Front surface tracking value

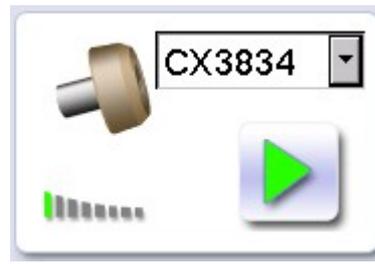
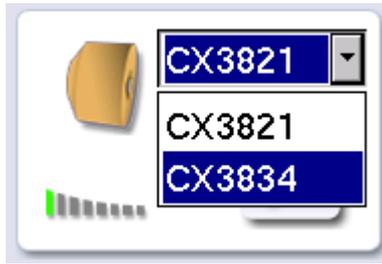
1. INSTALL THE STEP BEVEL TOOL

1 From the work screen of your edger, press  (tool wear indicator) for several seconds to access the screen for tool changes.

> The following screen will appear:



- 2 Press  to select the "step ++" wheel: CX3834.

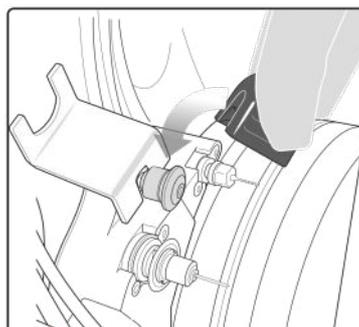


- 3 Press  to confirm the tool.

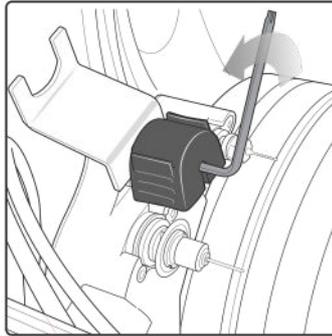
- > The GMD module moves to facilitate the operation.
- > The following message appears:



- 4 Position the blocking key on the axle behind the high-base wheel, then position the dismantling accessory on the high-curve wheel and the chamfering wheel.

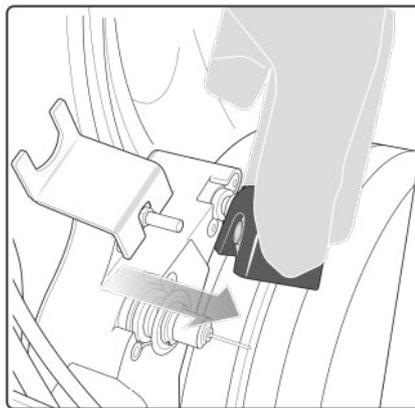


- 5 Insert the Allen wrench in the screw at the center of the chamfering wheel, and unscrew it (downwards).

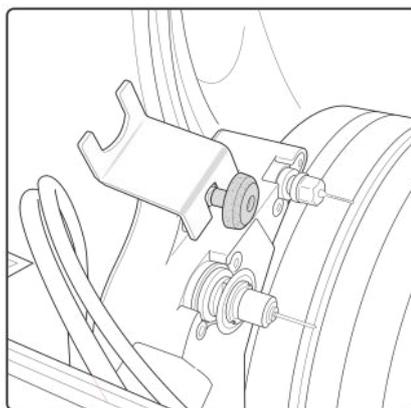


- 6 Remove the dismantling tool.

> the high-base wheel and the chamfering wheel is disassembled.



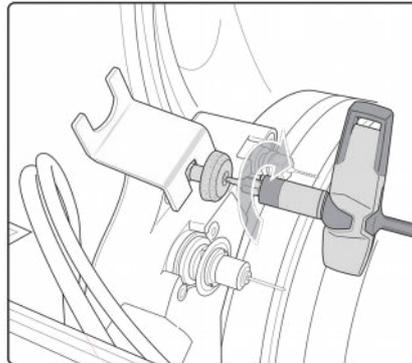
- 7 Position the "step ++" when on the axle.



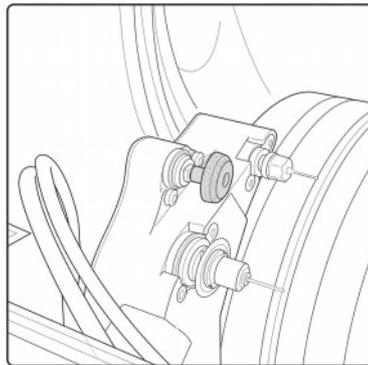
8 Tighten (towards yourself) the "step ++" wheel using the torque wrench.



Ensure that the tool is correctly fixed onto the axle using the keys.



> The wheel is installed.



9 Press  to confirm the tool change, then  to exit the menu.



In the case of the replacement of the "high base" and "chamfering" wheels, with the "step ++" wheel or in the case of cleaning, the statistics are preserved by default.

>The  icon appears by default at the bottom of the screen.

In case of replacement:

- of the chamfering wheel with a "step ++" wheel **wheel:** you must press  to reset the statistics to 0.

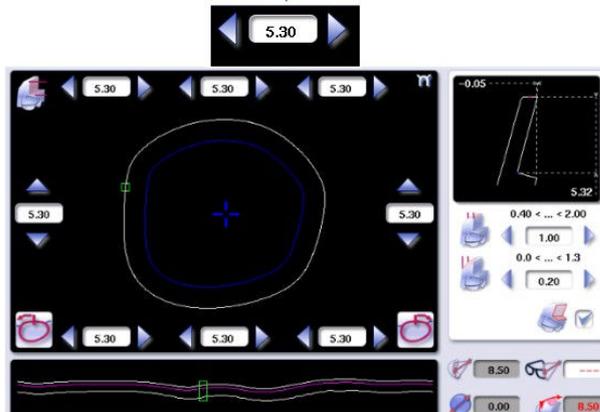
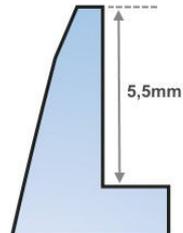
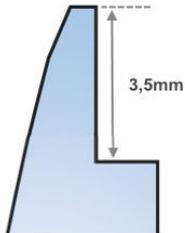
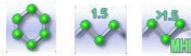
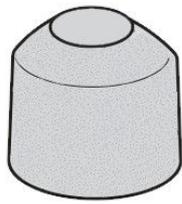
The icon  appears, the statistics are cleared.

- of the "step ++" wheel with a new chamfering wheel **wheel:** you must press  to reset the statistics to 0.

> The icon  appears, the statistics are cleared.

2. STEP BEVEL SPECIFICITIES WITH THE NEW "STEP ++" TOOL

Tools/Materials/limits



The edging cycle with the new "Step++" tool allows for a cycle **that's twice as fast.**



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