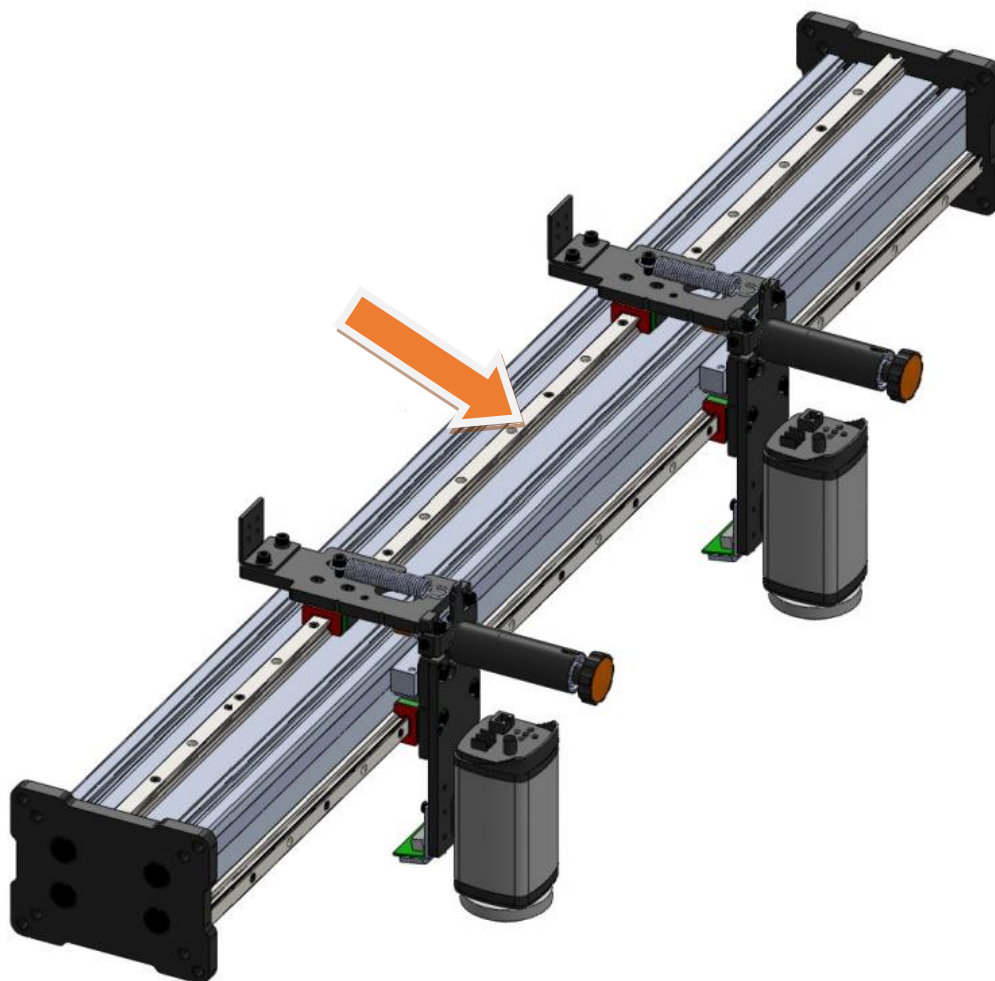


PROCEDURE FOR ALIGNMENT OF THE CAMERAS RAIL

This is the procedure for alignment of the camera rail:

The upper rail must be straight, otherwise there will be some curves in the cameras movement:



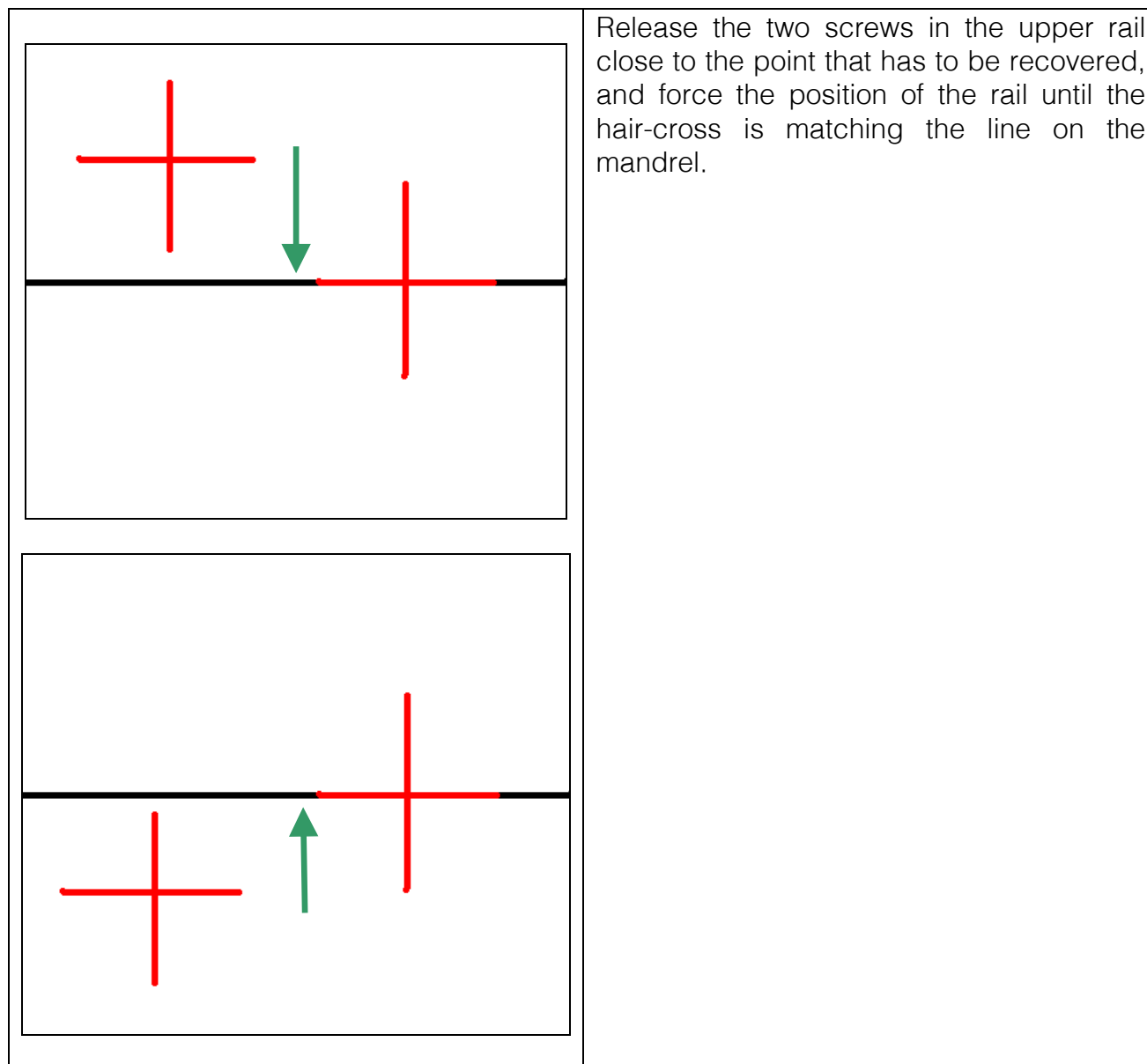
PLEASE TAKE IN CONSIDERATION ONLY ONE LINE FOR THIS PROCEDURE, AND NEVER CHANGE IT: if the reference line changes, also the alignment of the machine changes

Usually we use as reference the line engraved on the mandrel.

We don't consider reliable for the alignment the lines on the sleeves, because they can change from a sleeve to another.

- Move the camera #1 to the left margin,
- Set the camera #1 on the line of the mandrel
- slowly move the camera #1 on all the run of the mandrel
- If you see that the position of the cross moves upper or lower the center of the image, it's necessary to adjust the position of the upper linear rail

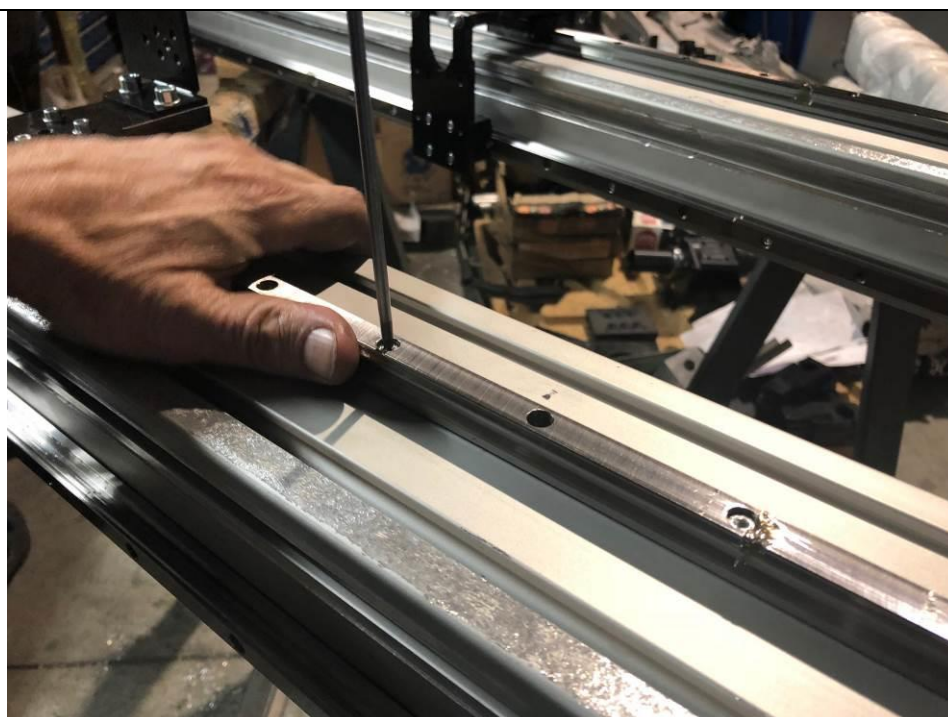
FORCING THE POSITION OF THE RAIL, THE POSITION OF THE CROSS CHANGES



HOW TO ADJUST THE UPPER RAIL



Release the screws in the area of the rail that you have to adjust

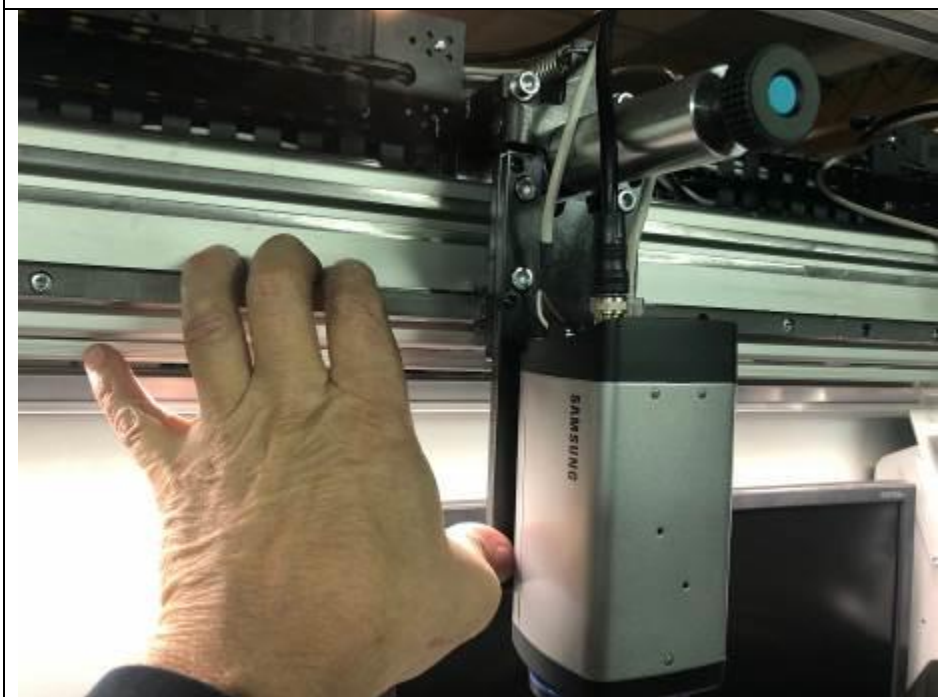


(there is a screw every two holes: so position the carriage of the camera, and release the screw before and after the carriage)



Force the position of the rail, pushing or pulling it, and then close/tight the screw again.

The position of the hair-cross on the screen must match the position of the line on the mandrel.



You may also push/pull the black back frame of the camera, that will work like a lever pushing/pulling the position of the upper rail

(NOTE: be careful not touching the camera)