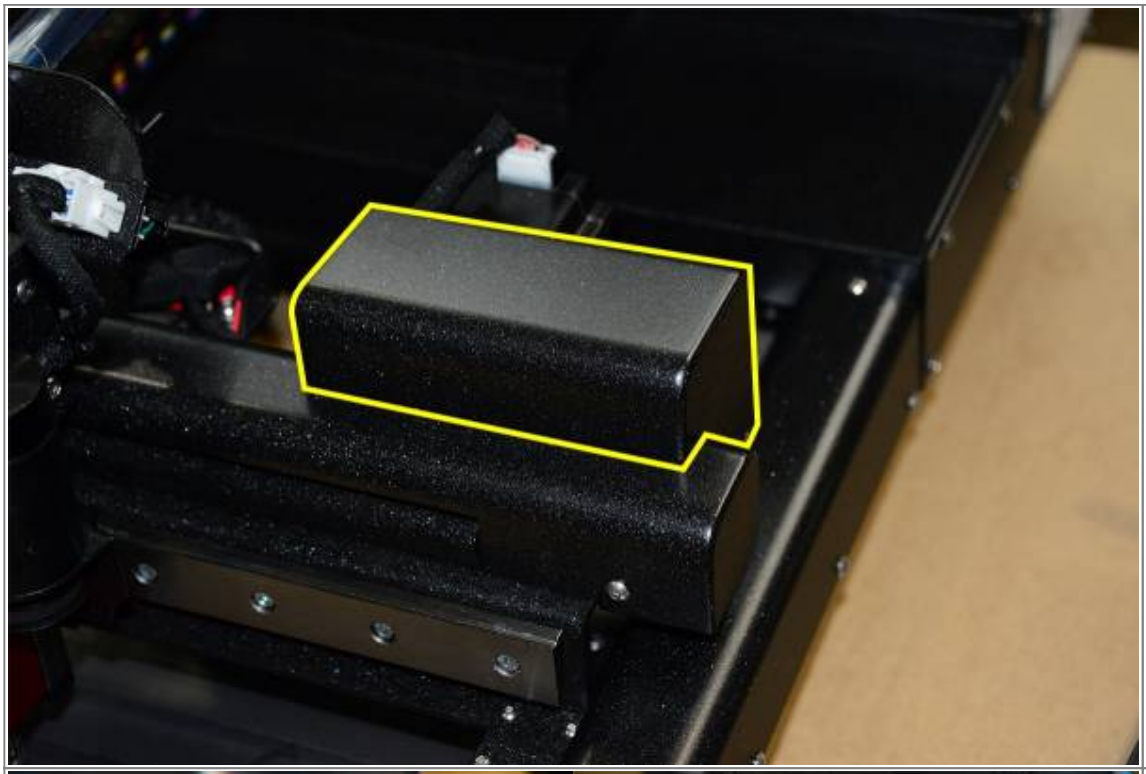
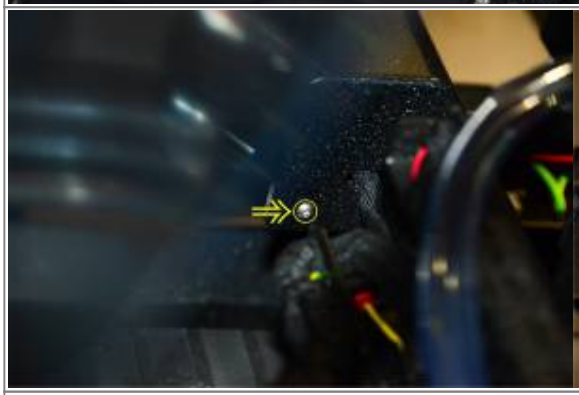
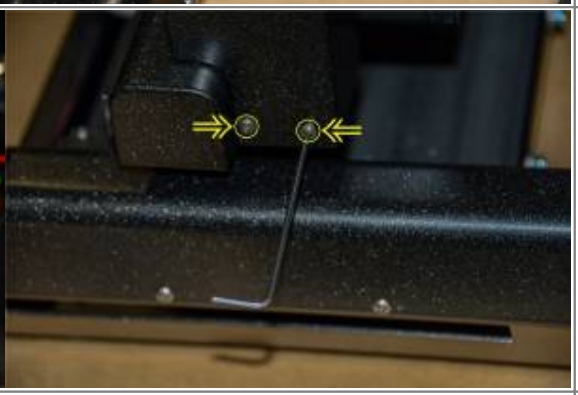
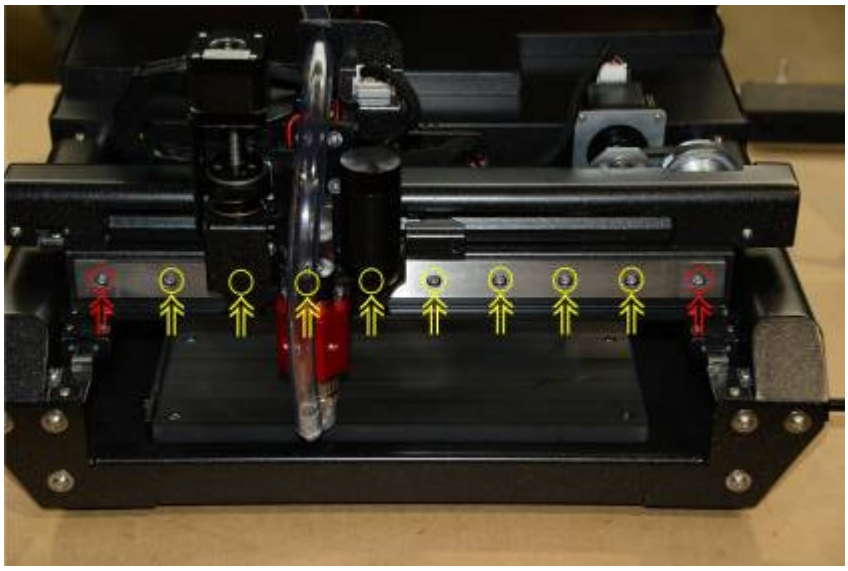
# De afdekkap van het portaal verwijderen

## Stap 1 - De X-as motor afdekkap verwijderen

| | |
|---|---|
|  | Vezrwijder de X-as motor afdekkap aan de rechter kant van het portaal. |
|   | Om dat te doen moeten 3 bolkopschroeven losgemaakt worden. |
| | Na het verwijderen van die 3 bolkopschroeven kan de motor afdekkap eenvoudig afgenomen worden. |

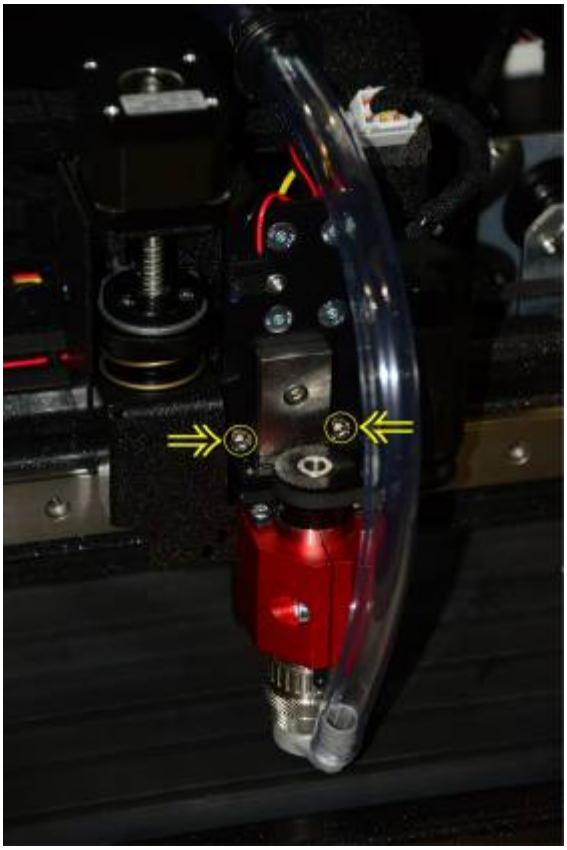
## Stap 2 - Verwijder 8 schroeven uit de lineaire geleiding van het portaal



- Move the gantry to the front of the engraving table and the spindle carriage more or less to the middle of the X axis.
- Push the Z-down key on the virtual pendent to lower the spindle until the nose cone touches the engraving table.
- Remove 8 of the 10 M4x6 allen screws (indicated in yellow) and keep them apart. **Do not** remove the outer two screws, indicated with red arrows.
- To remove these eight screws, first unscrew the ones you have access to, then move the spindle carriage to the side, in order access the screws which are hidden behind the carriage.
- Before loosening the two outer screws (indicated in red), the spindle carriage has to be separated from the X axis movement bracket.

## Step 3 - Unmounting the spindle carriage

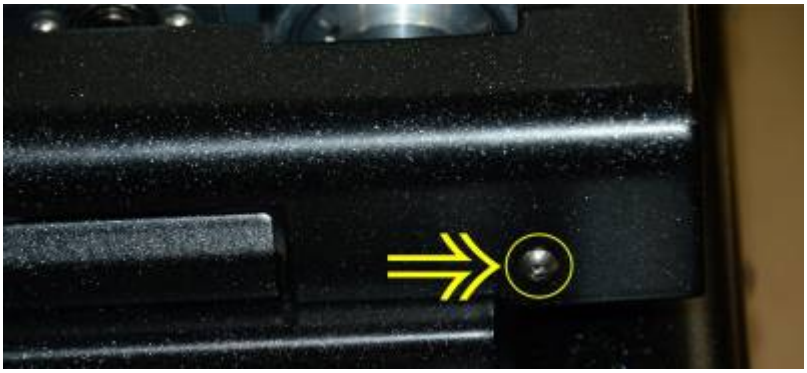
- Remove the timing belt from between the motor pulley and the spindle pulley.



- Lower the spindle carriage using the **Z down** key on the virtual pendent. The two screws (indicated with yellow arrows) become visible and accessible.
- Remove them with a hex wrench and store them in a safe place.
- After removing the two screws, you can move the spindle carriage away to the left from the X movement bracket.

## Step 4 - Removing the gantry cover

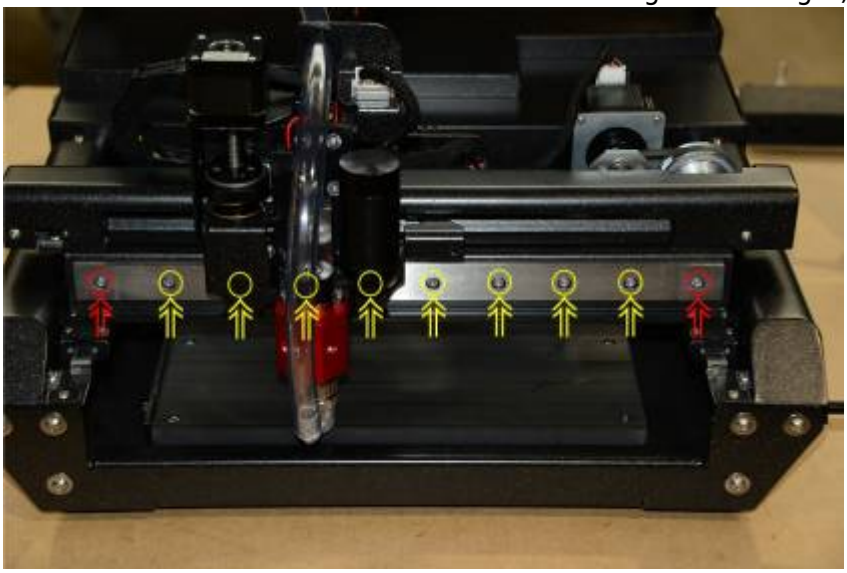
- Remove the four button head screws which hold the gantry cover on the gantry (indicated with yellow arrows in the 4 images below).





## Step 5 - Removing the X axis linear bearing

- Remove the two remaining screws which still hold the X axis linear bearing to the gantry. (these screws are indicated with a red arrow in the image on the right).



- You can then take the linear bearing with the spindle carriage in your hand and move them away from the gantry (see the image below). It is extremely important to hold the spindle carriage and the X axis linear bearing firmly in your hand and to make absolutely sure that the linear bearing cannot slide out of the bearing car, as it is almost impossible to slide it in again without sacrificing one or more bearing balls.

## Step 6

- Holding the spindle carriage and the X axis linear bearing in your hand, lift them up gently.
- The X axis cover can now be removed vertically.
- After having done so, immediately fix the linear bearing to the gantry using the 2 outer screws (see image below)
- You can fix the spindle carriage back to the X axis bracket, using the 2 allen screws M5x6. The machine is now ready to be serviced on the X axis.

**Continue to trouble shooting, the machine not initializing.**
**Continue to the table of contents.**

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