

## **How to use the machine**

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## **Assembly:**

### **Unit legs:**

The machine is divided into three parts. The storage unit, the measuring unit and the cut unit. Before putting all parts together, the table legs of the measuring and storage unit need to be unfolded and screwed in place by the angle parts preassembled on the units.

(Picture of screwed in leg here)

### **General assembly:**

Having the cut unit in the middle, the storage is mounted on the left hand side and the measuring unit is mounted on the right hand side. To hold all parts in their places, the units are screwed together by the preassembled knot sheets.

(Picture of whole machine here)

### **Cables:**

After that, the cables, hanging from the measuring unit, need to be screwed in the M12 socket, coming out of the control cabinet. Each cable and socket is named and need to be put in the right place (e.g. SeLimLi to SeLimLi). If not, errors might occur.

(Picture of screwed in cables)

### **Tablet:**

Finally, the tablet needs to be put in the intended place and the USB type C cable needs to be plugged in. The microcontroller, which is controlling the whole machine, depends on the plugged in USB-cable. If not, the microcontroller has no voltage to operate and therefore the machine is not working. After all these parts are correctly assembled the app on the tablet (ReadIn-Program) can be started and then it should be ready to work with.

(Picture of plugged in tablet)

## **While working:**

### Digital tape measure:

To read in the lengths that need to be cut, a digital tape measure is included in the machine. The lengths are measured like with a normal tape measure. The only difference is that there is a button, which is located next to the display where the length is shown. When this button is pressed, the measured length is transmitted to the ReadIn-Program. If lengths are not transmitted, check if there is a little Bluetooth-symbol displayed on the tape measure. If not the tape measure might be out of range, then the machine needs to be closer to you. If the machine is close, check if the Bluetooth receiver is connected to the tablet. If so, the small status led on the receiver should be on.

(Picture of digital tape measure)

### Setting lengths:

To set a length on the limiter, the limiter must know where he is. To do that the blue button (LimiterRef) needs to be pressed. The limiter then drives itself to the left reference sensor. If not, voltage might not be applied to the machine or the USB type C cable is missing. After that, a length can be chosen from the list on the ReadIn-Program. This is achieved by clicking on the length which is to cut and pressing the green set button on the tablet. After pressing the button, the limiter will move itself to the chosen position.

### Cutting:

To cut the pieces, the two green buttons need to be pressed simultaneously. After pressing the buttons, the motor will turn 360° and the cut is done. This can be stopped by pressing the red stop button or letting go of one of the two green buttons. If the motor is not turning, check the error messages on the ReadIn-Program.