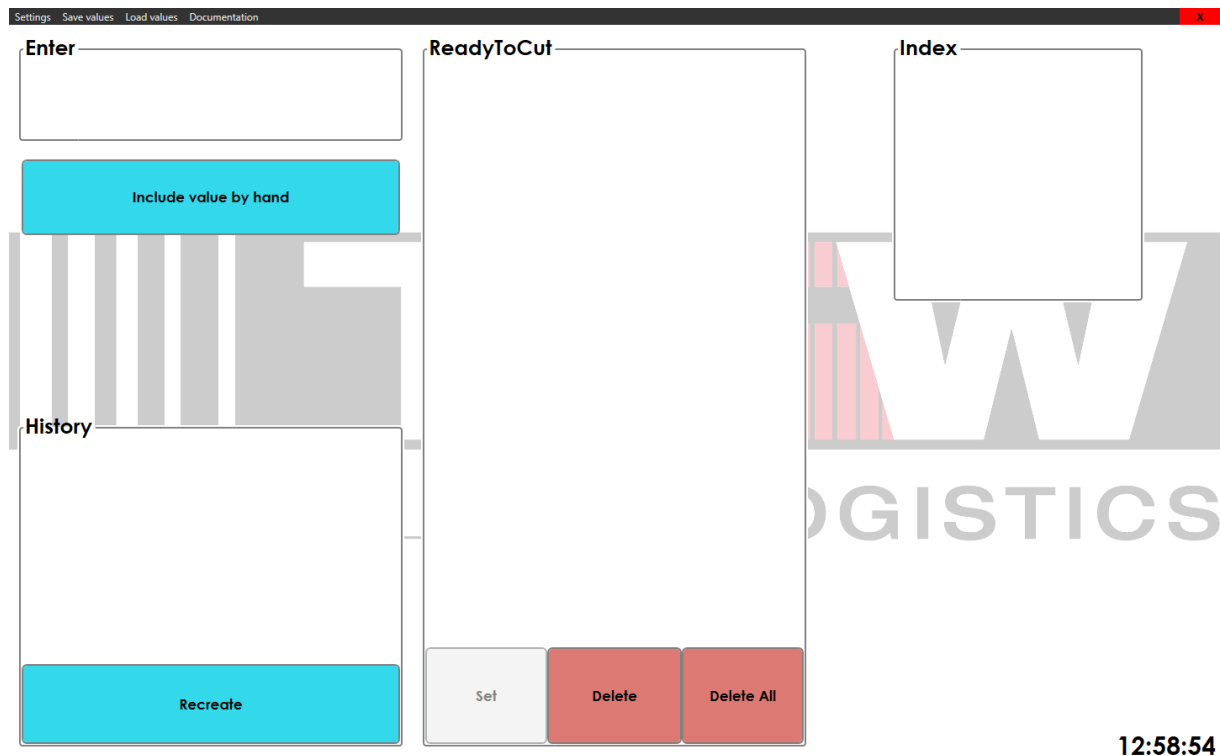


# Documentation of the ReadIn-Program

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## 1 GUI:



### 1.1 Enter:

In this textbox, values can be entered by hand, if there is some error with the digital tape measure. The button underneath (*Include value by hand*) or a click on the enter button of the keyboard adds the value to the *ReadyToCut* – list.

### 1.2 History:

Values, which have already been cut, can be found here. If there was an error when cutting the material, the wrong cut can be chosen and, with the button underneath (*Recreate*), added back to the *ReadyToCut* – list. The recreated value has the same index as it had before.

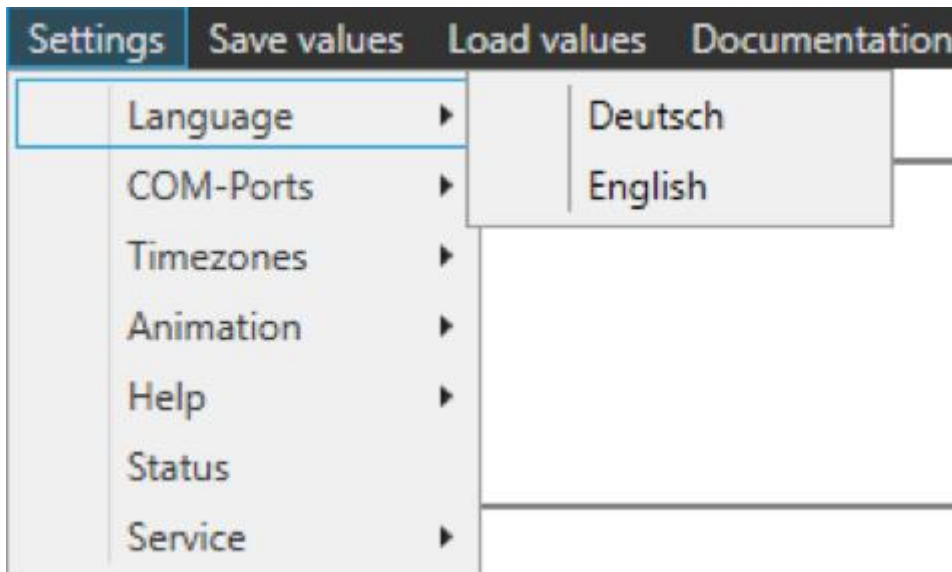
### 1.3 ReadyToCut:

In this list, all values, whether included by hand or by the digital tape measure, are displayed. If a value is chosen from the list, it can be set on the limiter with the *Set* – Button or deleted with the *Delete* – Button. The *Delete All* – Button deletes all values which are saved in this list.

### 1.4 Index:

In this box, the index of the chosen value from the *ReadyToCut* – List can be seen. It remains until a new value is selected.

## 2 Menu:



### 2.1 Settings:

- Language: Language of the program. Options: German, English (Normal German)
- COM-Ports: Open the COM-Ports if not already opened.
- Time zones: Adjust the clock to the current time.
- (New) Parameter: Adjust the distance between limiter and knife
- Animation: Turn of cutting animation if it is annoying.
- Help: Explains the function of the buttons.
- Status: Refresh the status of the machine.
- Service: Drives the knife in service-position. Cover is removable in service-position.

### 2.2 Save values:

This button saves the values which are currently saved in the *ReadyToCut* – list. If not saved the data will be lost when restarting the application.

### 2.3 Load values:

This button loads in the previously saved values.

### 2.4 Documentation:

Opens up a Github-Page with all relevant documents for this machine.

### 3 Status notifications:

#### 3.1 Error C0002:

- Possible reasons:
  - No reference-point was found
  - 24 or 48 Volts not connected or missing
- Possible fixes:
  - Pressing the blue reference button
  - Turning the power switches for the general power and the 48 volts
  - Check if sensor is connected and if it detects the screw on the crank-disc (small LED on the sensor is on when it detects metal)
  - Check if 24 and 48 Volts are connected
  - Check if battery is loaded

#### 3.2 Error C0003:

- Possible reasons:
  - Application could not reach Arduino over the serial bus
- Possible fixes:
  - Check the USB-connection from the tablet to the Arduino
  - Reopen the Arduino and digital tape measure port

#### 3.3 Error C0004:

- Possible reasons:
  - Service-mode is not ready
  - Missing voltage on the 24-5volts module
- Possible fixes:
  - Motor needs to be turned once before being able to enter service-mode
  - Check if the 24-5 volts module is powered by the Arduino (Power-LED on the board should be on)

#### 3.4 Error C4001

- Possible reasons:
  - Could not find reference sensor (second from left)
- Possible fixes:
  - Check if the sensor's status led is on while not activated
  - If not, check connection to the sensor (circuit diagrams are in another folder in this repository)