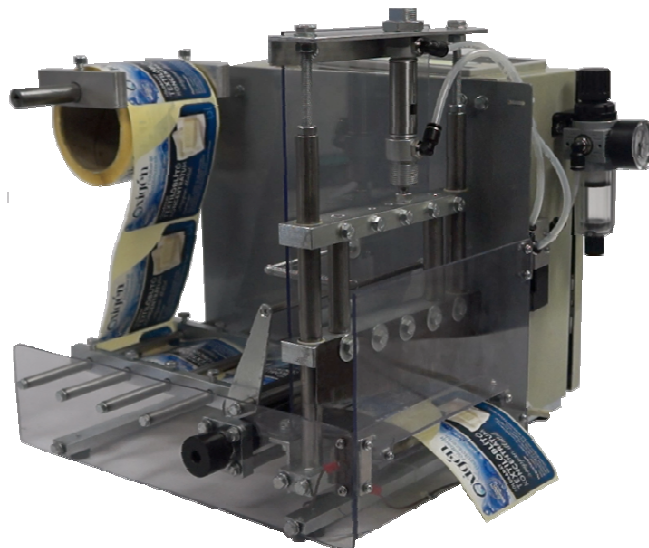
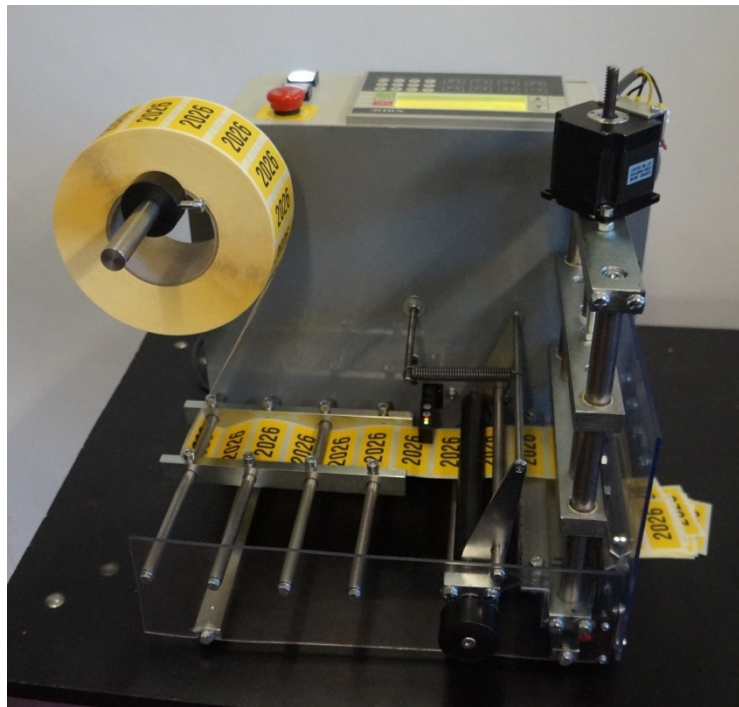

Paperfox LS-1 label cutter

Instructions manual

Version: 17.Feb.2024

Last modification: 17.Feb.2024



Brief description	3
Parameters	3
Safety instructions.....	4
Parts of the Paperfox LS-1 label cutter.....	5
Programming the LS-1 label cutter.....	9
Main screen.....	9
Parameters of the forwarding motor.....	10
Parameters of the cutting motor.....	11
Additional parameters.....	12
Scale factor calculation screen	12
Sensor setting screen.....	13
Information and test screens.....	14
Language screen.....	15
CE - Declaration of conformity	16

Brief description

The Paperfox LS-1 label cutter is a device that can cut label rolls or other roll materials into sheets. It can detect the gap between labels and cut along it, or you can set the cutting length manually. The device has a digital interface that lets you adjust the cutting parameters easily. The Paperfox LS-1 label cutter is available with either a pneumatic or a stepper motor driven cutting unit.

Parameters

Dimensions:	L=40cm W=40cm H=40cm
Weight:	16 kg
Voltage:	230V 50Hz
Power consumption:	50W
Pneumatic pressure:	8 Bar (only with the pneumatic version)
Maximum roll width:	150mm
Maximum roll diameter:	40cm
Cutting speed:	About 3000 cutting/hour depending on the cutting length and other variables.

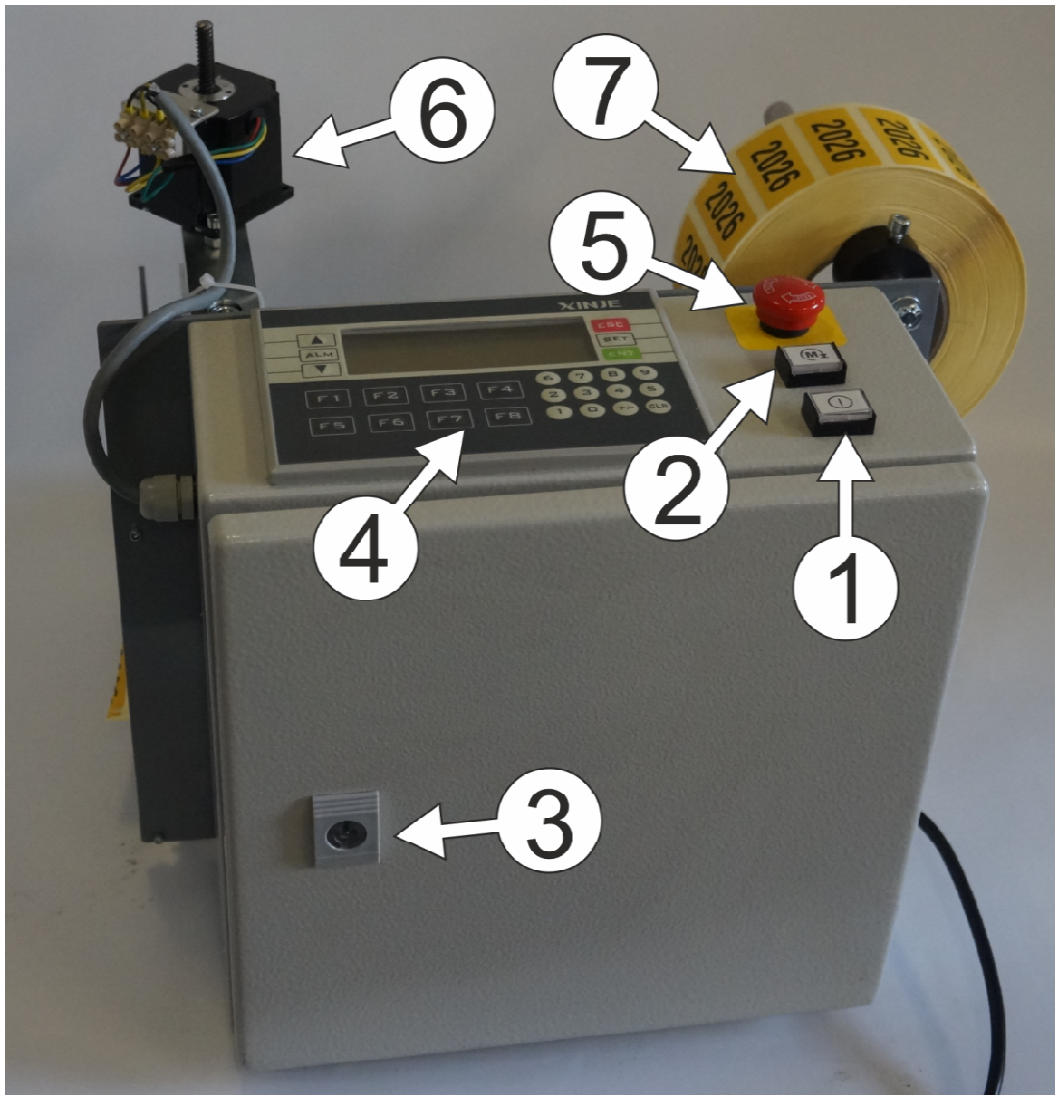
Safety instructions

Please read the operating instructions before you use the Paperfox LS-1 label cutter to prevent accidents and ensure the trouble-free operation.

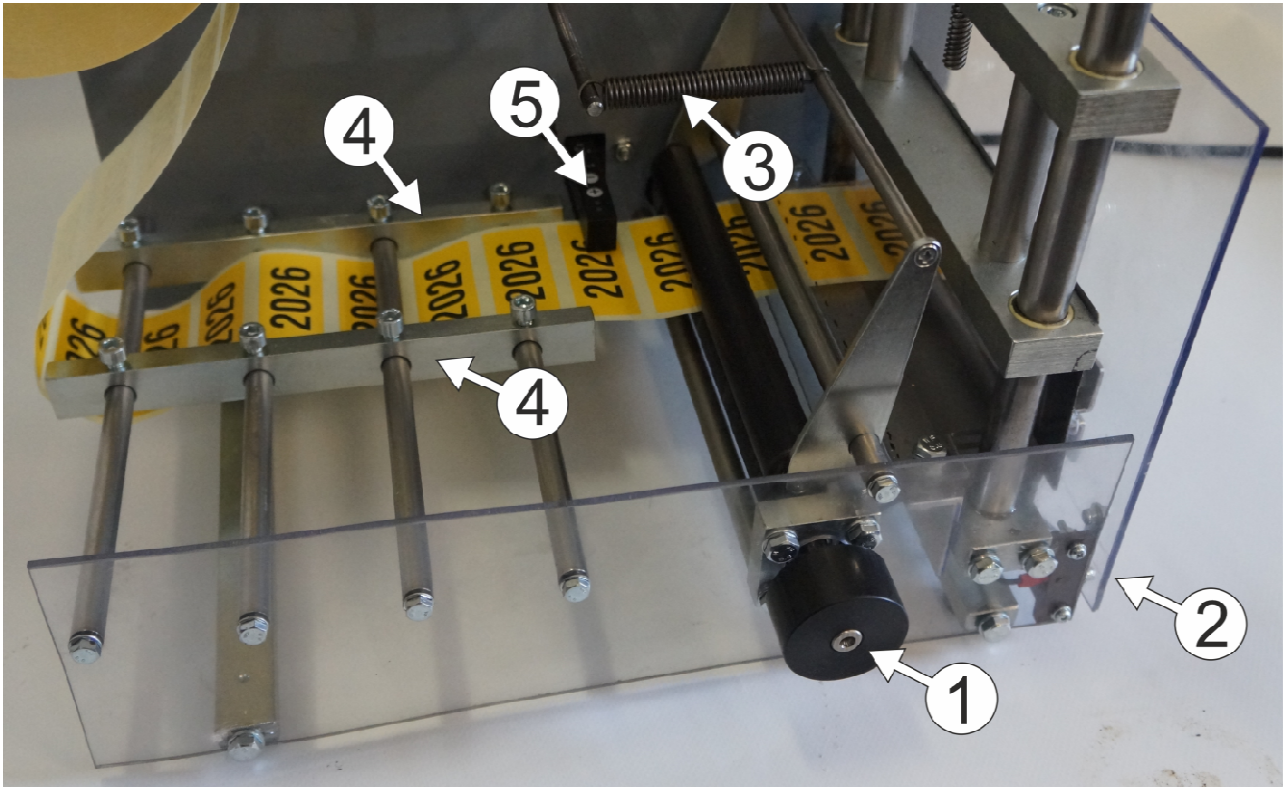
- The Paperfox LS-1 label cutter may not be operated by anyone who does not read or does not fully understand the operating manual.
- The device may not be used in wet or explosive environment.
- Always use a proper lighting.
- To ensure the easy unplugging use a socket in a height 0.6 and 1.9m.
- Use a proper socket with a safety ground
- Never change the fuse to any other type as the designated value.
- Repairs should be carried out by qualified persons using original parts.
- The machine has a sharp knife, be careful when changing or cleaning.

Parts of the Paperfox LS-1 label cutter

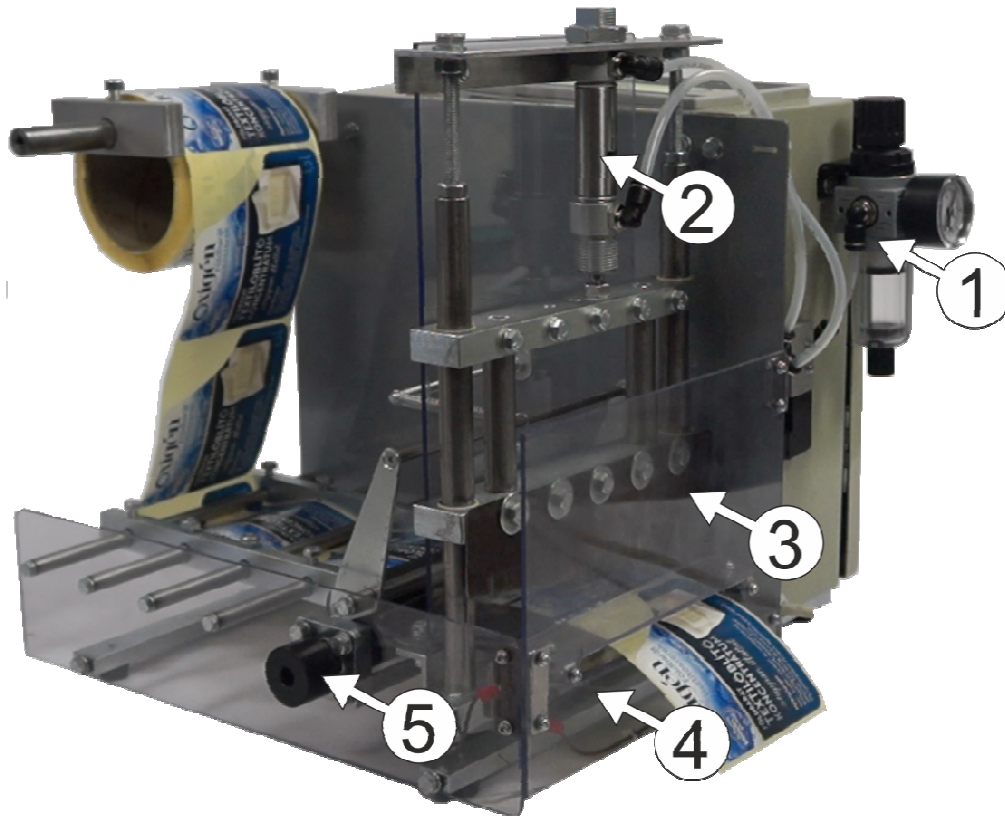
The configuration is subject to change. These parts are supplied in standard configuration.



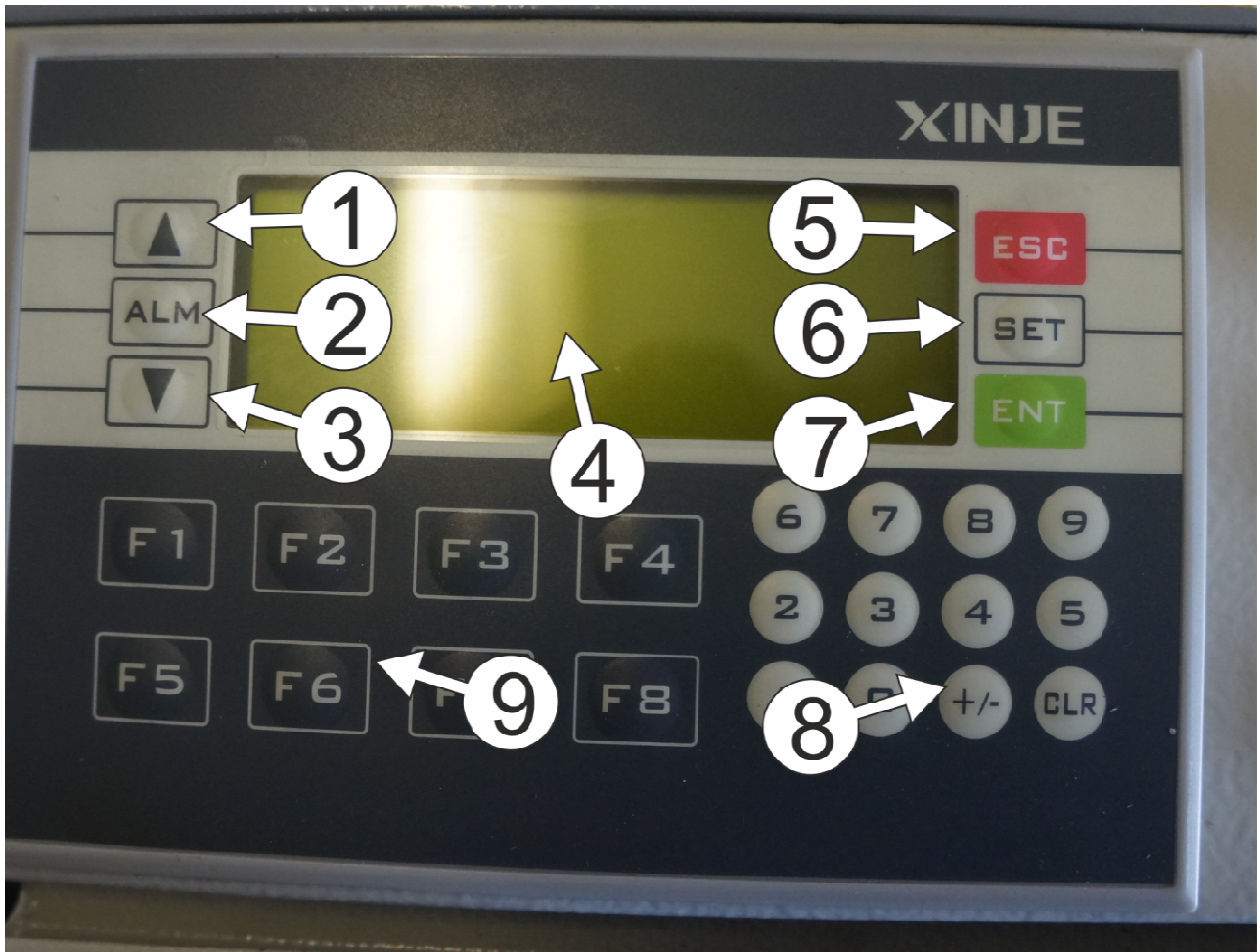
1. Main switch. You can switch on/off the machine.
2. Start/stop button. After switching on the LS-1 is in single cut mode. If you press this button, the device cuts once. If you select the continuous mode, (F2 on the start screen) the device cuts continuously. If you press this button again, the device stops.
3. The cover of the electrical unit can be opened with a key. Only a qualified person should open it after the power has been disconnected.
4. Control unit. You can set the operating parameters here.
5. Emergency stop button. If you push it down, the device stops. You can reset this switch by turning its head clockwise.
6. Stepper motor. (Only with LS-1 with electric cutting unit.)
7. Label roll. You can place and fix the label roll on a shaft.



1. Label forwarding knob. You can forward the labels by turning this knob. After inserting the label roll, adjust with this knob the cutting position under the knife.
2. Safety cover. If you open this cover the cutting unit inactive. You can start the machine, but no cutting happens.
3. Spring of the hold down roller. You can unhook this spring to make the tape inserting easier.
4. Paper guides. You can adjust the tape with these adjustable guides to the proper position.
5. Label sensor. Special sensor to detect the label position. The red light indicates that the sensor is on. The green light indicates the there is a label under the sensor.



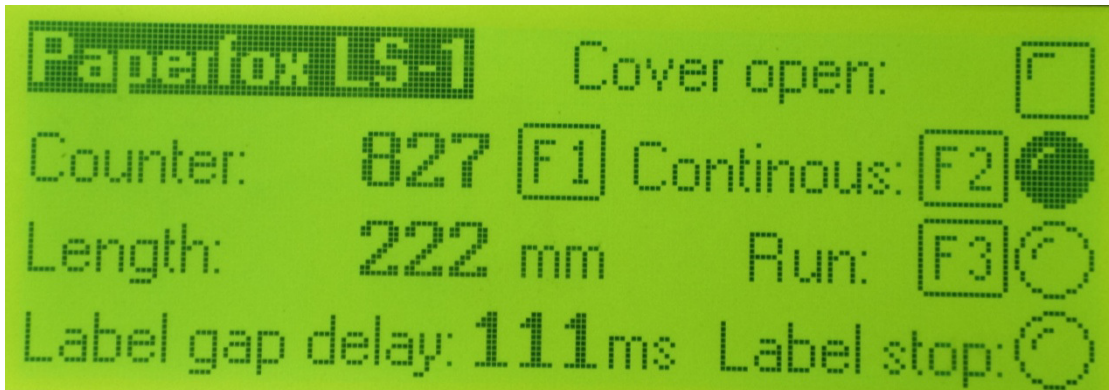
1. Pneumatic filter (only with pneumatic cutting unit). This is not only a filter; you can check and adjust the pressure here.
2. Pneumatic cylinder (only with pneumatic cutting unit). If you want to cut hard materials the bigger or more cylinders are needed.
3. Upper knife.
4. Lower knife
5. Label forwarding manual knob



1. UP button - you can select the previous screen by pressing this button
2. Alarm button – not used
3. DOWN button - you can select the next screen by pressing this button
4. Screen
5. ESC button - You can quit from settings
6. SET button – You can enter into the setting mode.
7. ENTER button – You can store the entered values
8. Numeric buttons – You can enter data
9. Function buttons – You can select the functions described later.

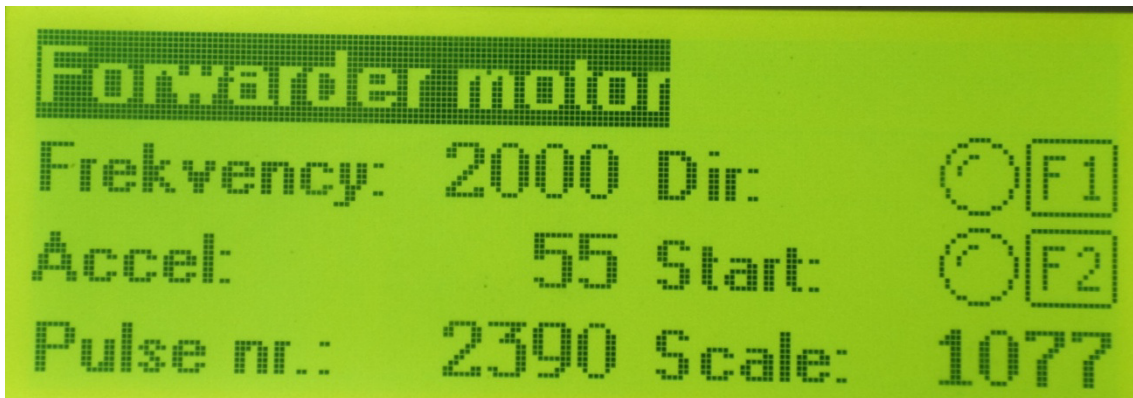
Programming the LS-1 label cutter

Main screen



1. Counter – Counts the cutting cycles. You can reset it by pressing [F1]
2. Length – The sheet length to cut. If you cut labels, set this length longer than the length you'll cut. If you cut other roll materials to the desired length set this value to the desired cut length.
3. Label gap delay – Delay time between sensing the label edge and the cutting. You can set the cutting position by changing this value.
4. Cover open – If the safety cover is open, this light is active, the device can forward the material, but it doesn't cut.
5. Continuous – If you press [F2] then the continuous cutting mode activates. If you press the start button, then the cutting process starts, and it ends if you press it again.
6. Run – The cutting process is active.
7. Label stop – The forwarding was stopped by sensing a label edge. If you cut labels it should sign. If it not active it means that the device didn't find label edge within the length set.

Parameters of the forwarding motor



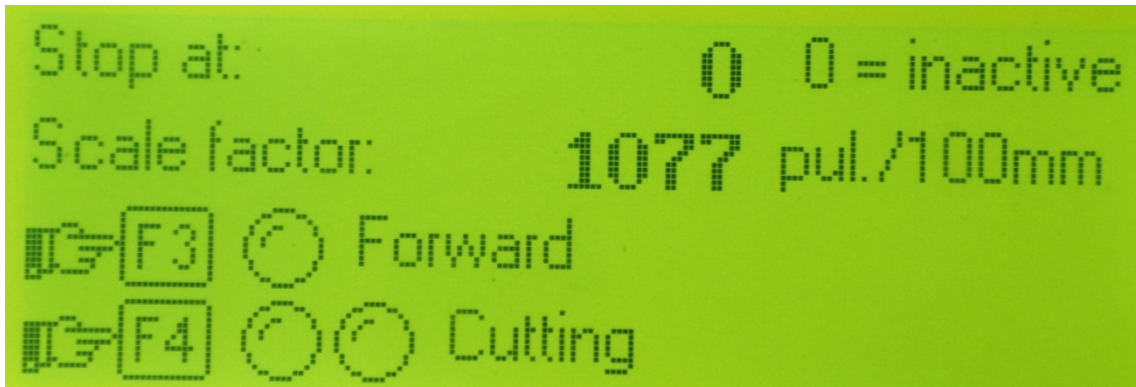
- Frequency – Maximum pulse frequency of the forwarding motor. If you increase it the device works faster, but the device can be instable.
- Accel – Acceleration/deceleration time in millisecond. If you decrease it then the device works faster, but it can be instable.
- Pulse Nr. – Number of pulses between cuttings. This value is calculated from „Length” and scale factor.
- Dir – Forwarder motor direction. You can change it.
- Start – Manual start for test purposes.
- Scale – Scale factor. Proportion factor between length and pulse nr.

Parameters of the cutting motor



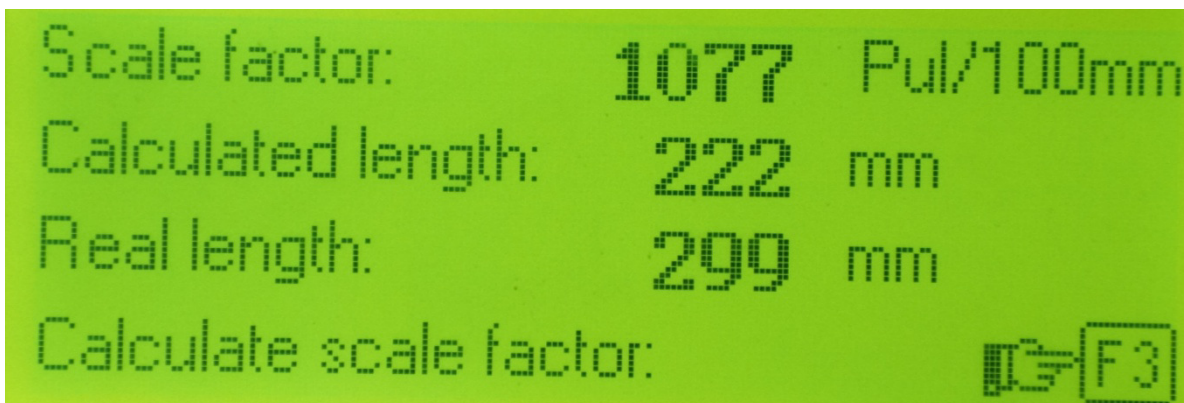
- Frequency – Maximum pulse frequency of the cutting motor. If you increase it the device works faster, but the device can be instable. If you've got a pneumatic cutting unit its value is inversely proportional to the cut delay time.
- Accel – Acceleration/deceleration time in millisecond. If you decrease it then the device faster, but it can be instable.
- Pulse Nr. – Number of pulses during cutting. This value is enough to cut the material but not more.
- Dir – Cutter motor direction. You can change it.
- Start – Manual start for test purposes.

Additional parameters



- Stop at – If the counter has this value the device stops automatically. If you write zero to this field, then no automatic stop happens.
- Scale – Scale factor. Proportion factor between length and pulse nr.
- Forward/Cutting – Signs and buttons for test purpose.

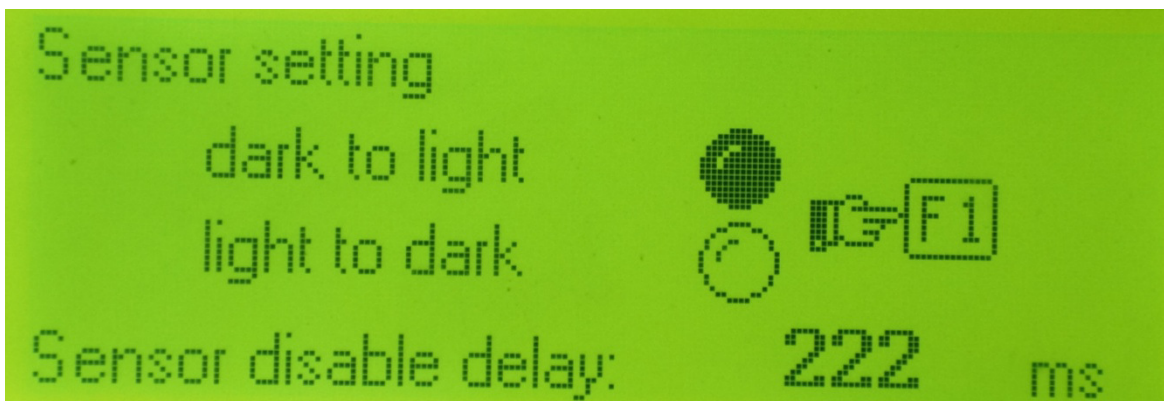
Scale factor calculation screen



You can set the value of the scale factor directly, but it is easier to let it calculate by the machine.

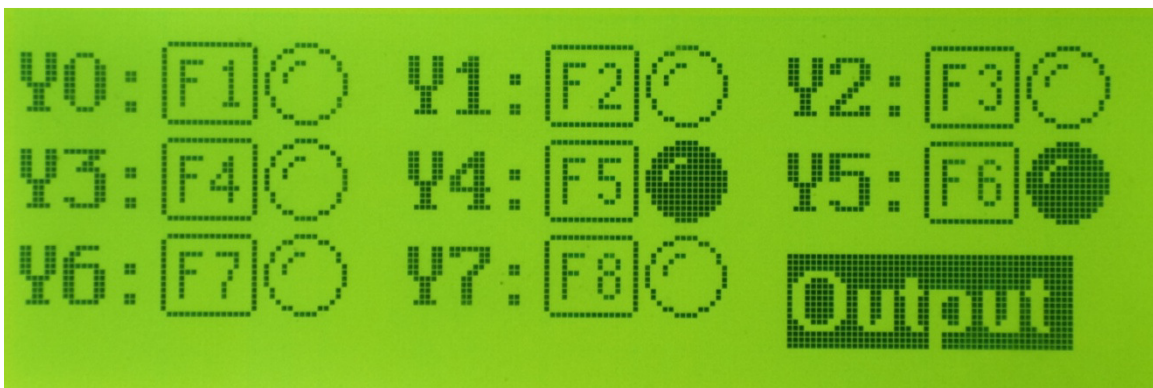
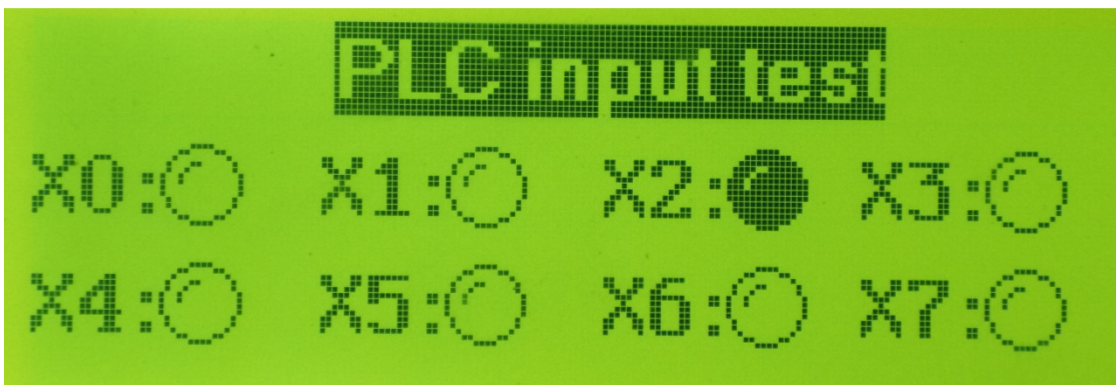
- Scale – Scale factor. Proportion factor between length and pulse nr.
- Calculated length – The calculated length of the last sheet cutted.
- Real length – If you write the real length of the last sheet, the atref pressing [F3] the device calculates the proper scale factor.

Sensor setting screen



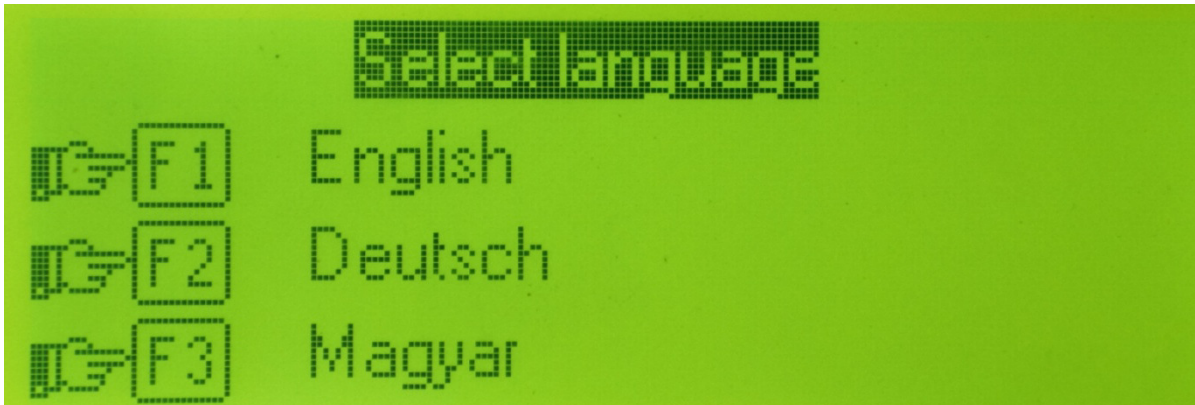
- Sensor disable delay - In label cutting mode the device cuts the label roll if the adjusted time elapsed after sensing the edge of the label. If the label has complicated shape, maybe that the sensor detects several label edges in a single label. You can set a time during the sensor is disabled. You can use this function to handle sutch labels or for cutting more labels in a sheet.
- Dark to light / Light to dark – You can set which edge should sense the device.

Information and test screens



Some screens for test purposes...

Language screen



You can select the language on this screen.

CE - Declaration of conformity

This product is in accordance to directive:

- EC-Machinery directive 98/37 EG
- EC-directive regarding electromagnetic compability 89/336/EWG
- EC-directive regarding lov/voltage equipments 73/23 EWG

Data of the machine

Produced by: Name: Fürcht Zoltán ev.
Address: 2142 Nagytarcsa, Ganz Á. u. 3/7.
Telefon: +36 1 4452327
Type: Paperfox LS-1 Label cutter Machine

The following standerds are applied :

- EN 292-2/A1:1995, Safety of machinery.
- EN 60204-1:1997, Electronics of machinery.
- EN 1088 Safety of machinery. Electical control of machinery.
- EN 50081-2:1993 Electromagnetic compability.
- EN 50082-2:1993 Electromagnetic defence.

Budapest, 17.FEB.2024



Fürcht Zoltán e.v.

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