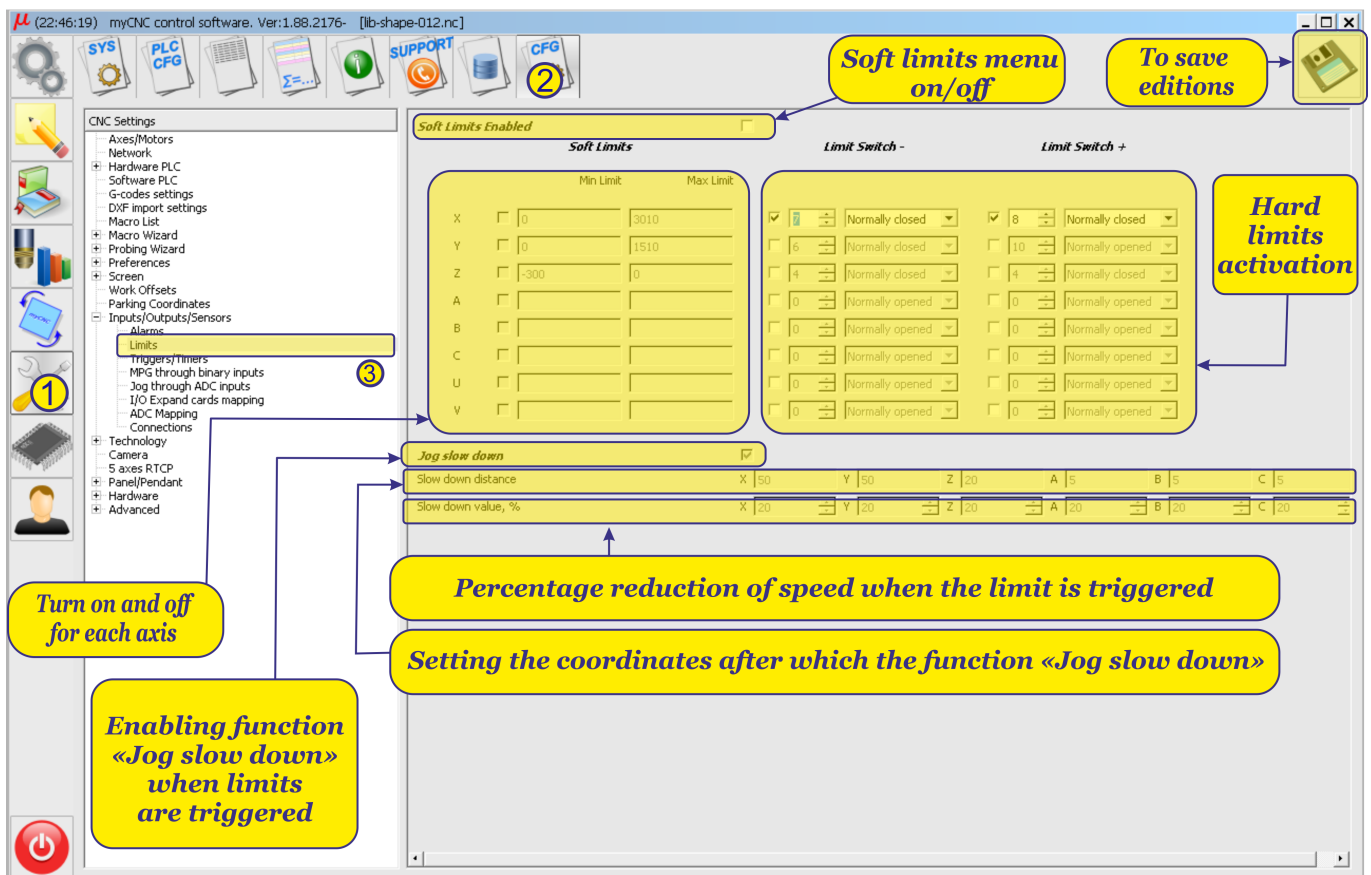
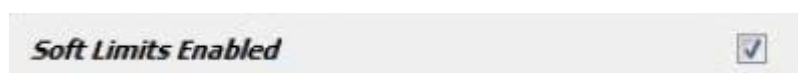


# Limits



## Soft Limits Enabled

- “Soft Limits Enabled” - this function allows you to set a software limit on the movement of the machine, as well as install and configure hard limit switches for each of the axes.
- To activate the function “Soft Limits Enabled” , it is necessary to check the box next to its name:



- To set the limits for each of the axes, you must check the selected axis. The photo shows an example of the choice of this function for the “X”. With the parameters MinLimit = 0 and MaxLimit = 3010, the machine will move along the X axis only within the specified coordinates, i.e. from 0 to 3010.

**Soft Limits Enabled** ☒

**Soft Limits**

Min Limit      Max Limit

X ☒ 0      3010

- If there are mechanical limits on the machine, the type of the limit switch and the input number for this switch on the controller is set as shown in the example below.

**Soft Limits Enabled** ☒

**Soft Limits**      **Limit Switch -**      **Limit Switch +**

Min Limit      Max Limit

X ☒ 0      3010      ☒ 5      Normally closed      ☒ 8      Normally closed

For example, the minus limit sensor is applied to the controller input 5, and the positive limit sensor is applied to the 8 input of the controller. Both shoots are normally closed.

- The sensor type is selected as shown below.

**Soft Limits Enabled** ☒

**Soft Limits**      **Limit Switch -**      **Limit Switch +**

Min Limit      Max Limit

X ☒ 0      3010      ☒ 5      Normally closed      ☒ 8      Normally closed

Y ☐ 0      1510      ☐ 6      Normally opened      ☐ 10      Normally opened

Z ☐ -300      0      ☐ 4      Normally closed      ☐ 4      Normally closed

- The setting of several axes (X, Y, Z) is given below

**Soft Limits Enabled** ☒

**Soft Limits**      **Limit Switch -**      **Limit Switch +**

Min Limit      Max Limit

X ☒ 0      3010      ☒ 5      Normally closed      ☒ 8      Normally closed

Y ☒ 0      1510      ☒ 6      Normally closed      ☒ 10      Normally opened

Z ☒ -300      0      ☒ 4      Normally closed      ☒ 4      Normally closed

## Jog slow down

- Function “Jog slow down” - when this function is activated, the machine during the movement will reduce the speed at the entrance to the above specified software limits. The distance at which the speed decreases and the percentage reduction in speed is set in the corresponding table.
- To activate the function “Jog slow down” , it is necessary to check the box next to its name:

**Jog slow down** ☒

- The example below shows the setting of the function for several axes (X, Y, Z, A, B)

**Jog slow down** ☒

Slow down distance      X 50      Y 50      Z 20      A 5      B 5      C 5

Slow down value, %      X 20      Y 20      Z 20      A 20      B 20      C 20

- Taking into account the settings of software limits and settings of the function, the machine

<b>Soft Limits Enabled</b> <input checked="" type="checkbox"/>						
	<b>Soft Limits</b>		<b>Limit Switch -</b>		<b>Limit Switch +</b>	
	Min Limit	Max Limit				
X	<input checked="" type="checkbox"/> 0	3010	<input checked="" type="checkbox"/> 5	Normally closed	<input checked="" type="checkbox"/> 8	Normally closed
Y	<input checked="" type="checkbox"/> 0	1510	<input checked="" type="checkbox"/> 6	Normally closed	<input checked="" type="checkbox"/> 10	Normally opened
Z	<input checked="" type="checkbox"/> -300	0	<input checked="" type="checkbox"/> 4	Normally closed	<input checked="" type="checkbox"/> 4	Normally closed

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