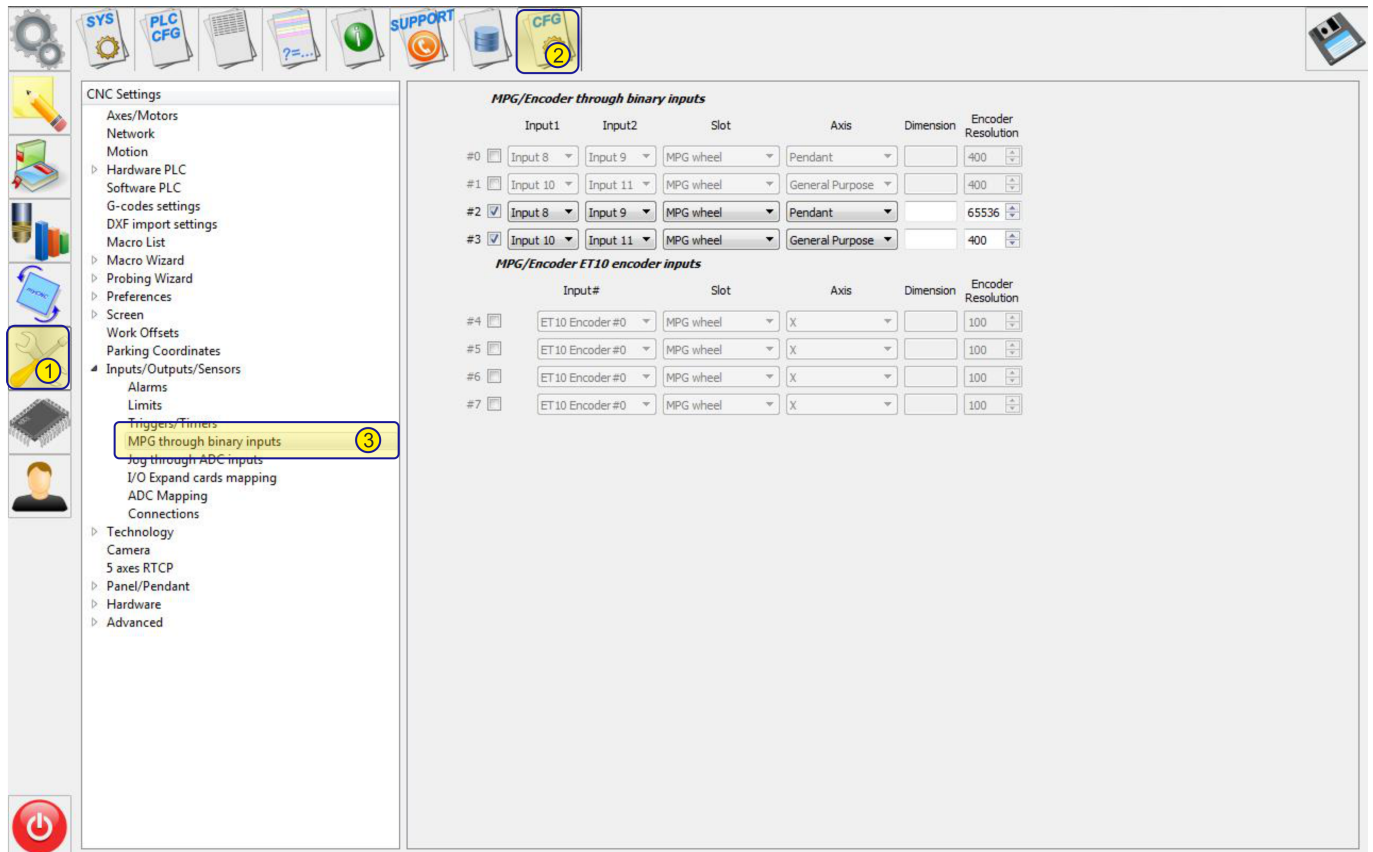
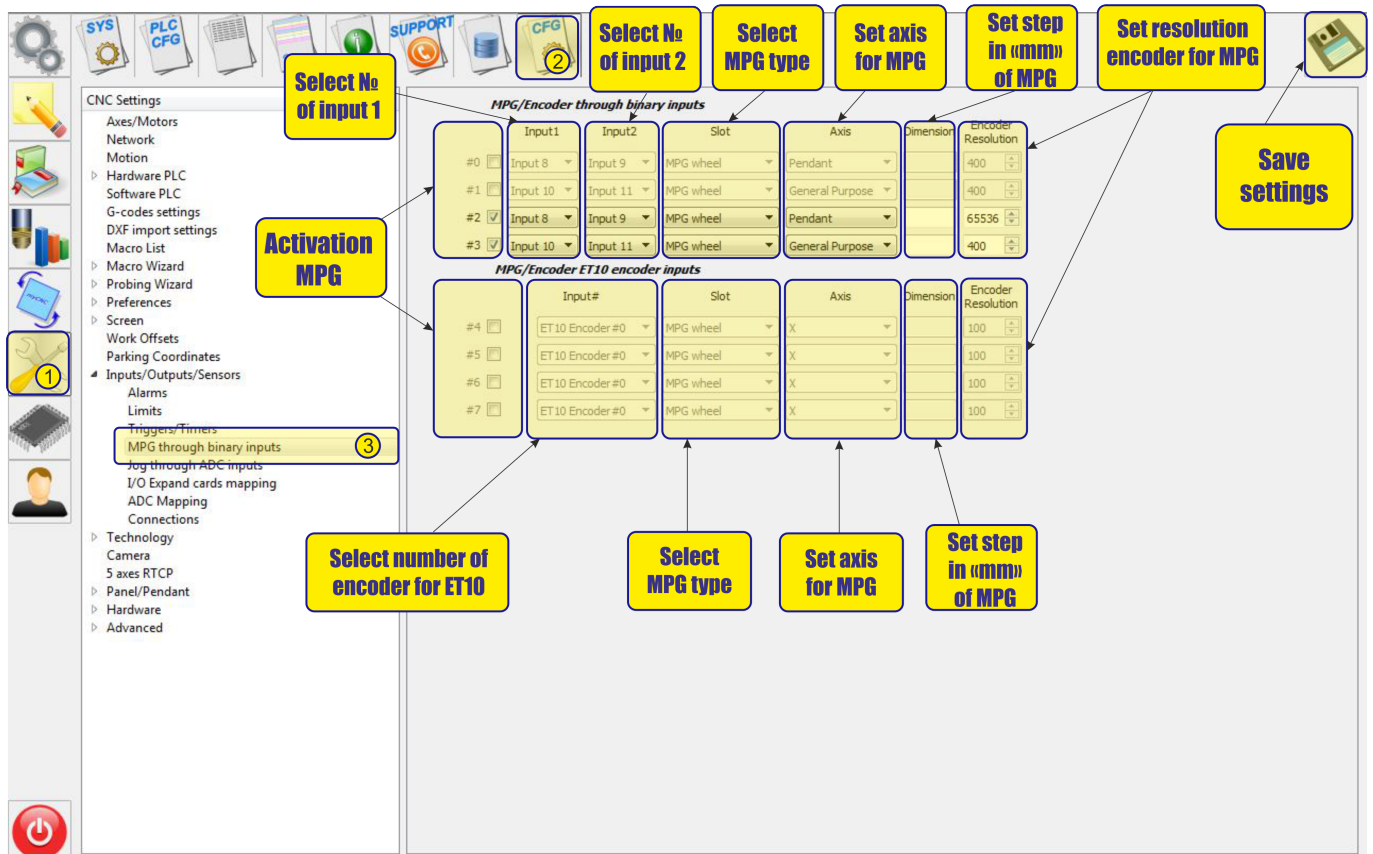


Mpg through binary inputs

Main window:



Basic functions:



Mpg/Encoder through binary inputs

- To activate the MPG, it is necessary to check the box next to number of MPG:

	Input1	Input2	Slot	Axis	Dimension	Encoder Resolution
#0 <input checked="" type="checkbox"/>	Input 8	Input 9	MPG wheel	Pendant		400
#1 <input type="checkbox"/>	Input 10	Input 11	MPG wheel	General Purpose		400
#2 <input type="checkbox"/>	Input 8	Input 9	MPG wheel	Pendant		65536
#3 <input type="checkbox"/>	Input 10	Input 11	MPG wheel	General Purpose		400

- MPG - designed for manual control of the CNC without resorting to control from the operator panel. With the help of the control panel, the operator of the CNC machine can change the position of the axes, change the feedrate, adjust the spindle operation, set "0" and perform other operations while in close proximity to the workpiece.
- examples of MPG are presented below:



- After activation, you can select the operating input numbers for the MPG on the controller - input1 and input2

input1:

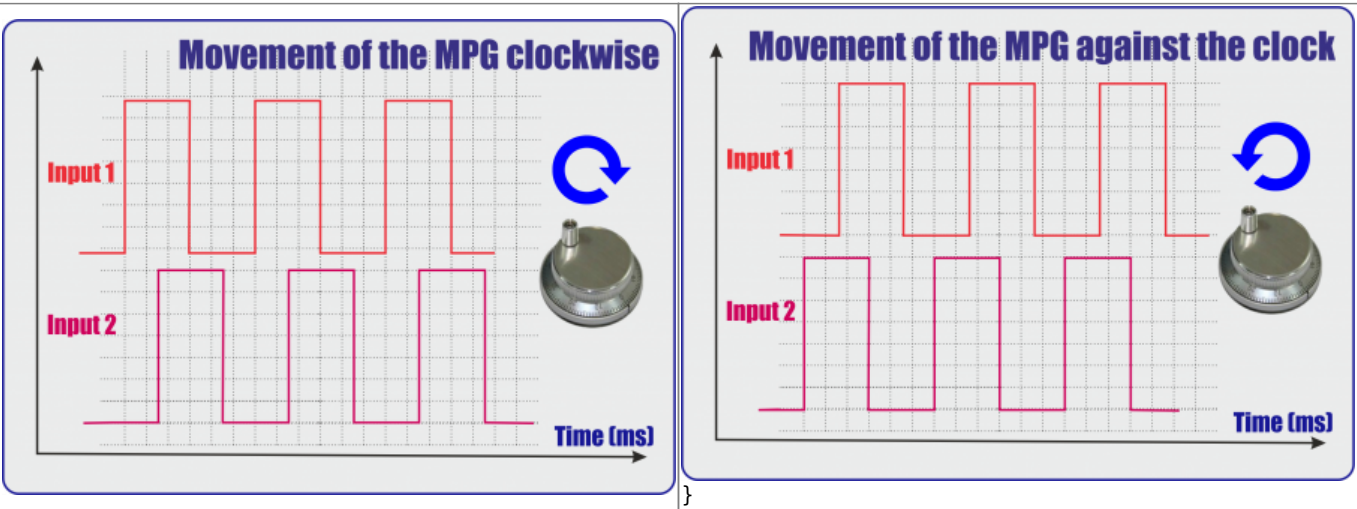
	Input1	Input2	Slot	Axis	Dimension	Encoder Resolution
#0 <input checked="" type="checkbox"/>	Input 8	Input 9	MPG wheel	Pendant		400
#1 <input type="checkbox"/>	Input 0	Input 11	MPG wheel	General Purpose		400
#2 <input type="checkbox"/>	Input 1	Input 9	MPG wheel	Pendant		65536
#3 <input type="checkbox"/>	Input 2	Input 11	MPG wheel	General Purpose		400
	Input 3					
	Input 4					
	Input 5					
	Input 6					
	Input 7					
	Input 8					
	Input 9					
#4 <input type="checkbox"/>	ET 10 Encoder #0		MPG wheel	X		100

input2:

MPG/Encoder through binary inputs

	Input1	Input2	Slot	Axis	Dimension	Encoder Resolution
#0	<input checked="" type="checkbox"/> Input 8	Input 9	MPG wheel	Pendant		400
#1	<input type="checkbox"/> Input 10	Input 0	MPG wheel	General Purpose		400
#2	<input type="checkbox"/> Input 8	Input 1	MPG wheel	Pendant		65536
#3	<input type="checkbox"/> Input 10	Input 2	MPG wheel	General Purpose		400
		Input 3				
		Input 4				
		Input 5				
		Input 6				
		Input 7				
		Input 8				
		Input 9				
#4	<input type="checkbox"/> ET 10 Encoder #0		MPG wheel	X		100

- Timing diagram of signals of MPG:



- It is also necessary to select the MPG function:

MPG/Encoder through binary inputs

	Input1	Input2	Slot	Axis	Dimension	Encoder Resolution
#0	<input checked="" type="checkbox"/> Input 8	Input 9	MPG wheel	Pendant		400
#1	<input type="checkbox"/> Input 10	Input 11	MPG wheel	General Purpose		400
#2	<input type="checkbox"/> Input 8	Input 9	THC/Z axis offset	Pendant		65536
#3	<input type="checkbox"/> Input 10	Input 11	MPG wheel	General Purpose		400

Functions	Discriptions
MPG wheel	Direct control of MPG
THC/Z axis offset	Controlling the tracking on cutting with the help of MPG
Spindle Sync	Spindle control, via the analog output to control the spindle speed.

- If necessary, select the coordinate axis, which will be controlled by MPG

MPG/Encoder through binary inputs

	Input1	Input2	Slot	Axis	Dimension	Encoder Resolution
#0	<input checked="" type="checkbox"/> Input 8	Input 9	MPG wheel	Pendant		400
#1	<input type="checkbox"/> Input 10	Input 11	MPG wheel	X		400
#2	<input type="checkbox"/> Input 8	Input 9	MPG wheel	Y		65536
#3	<input type="checkbox"/> Input 10	Input 11	MPG wheel	Z		400

MPG/Encoder ET10 encoder inputs

Input#	Slot	Axis	Dimension	Encoder Resolution

- Next we select the length of displacements with the help of MPG. Number of movements in mm per pulse MPG:

MPG/Encoder through binary inputs

	Input1	Input2	Slot	Axis	Dimension	Encoder Resolution
#0	<input checked="" type="checkbox"/> Input 8	Input 9	MPG wheel	Pendant	0.1	400
#1	<input type="checkbox"/> Input 10	Input 11	MPG wheel	General Purpose		400

- We set the resolving power of the PGM - the number of pulses per one revolution of PGM

MPG/Encoder through binary inputs

	Input1	Input2	Slot	Axis	Dimension	Encoder Resolution
#0	<input checked="" type="checkbox"/> Input 8	Input 9	MPG wheel	Pendant	0.1	401

Mpg/Encoder ET10 throught binary inputs

If you use the ET10 controller <https://shop.pv-automation.com/et10/9-mycnc-et10.html>, you can used not only MPG function, but also the encoders, to monitor the position of any of the axes.

- To activate the MPG or Encoder, it is necessary to check the box next to needed number:

MPG/Encoder ET10 encoder inputs

	Input#	Slot	Axis	Dimension	Encoder Resolution
#4	<input checked="" type="checkbox"/> ET 10 Encoder #0	MPG wheel	X		100
#5	<input type="checkbox"/> ET 10 Encoder #0	MPG wheel	X		100
#6	<input type="checkbox"/> ET 10 Encoder #0	MPG wheel	X		100
#7	<input type="checkbox"/> ET 10 Encoder #0	MPG wheel	X		100

- After activation, you can select the encoder number on the controller for operating

MPG/Encoder ET10 encoder inputs

	Input#	Slot	Axis	Dimension	Encoder Resolution
#4 <input checked="" type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100
#5 <input type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100
#6 <input type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100
#7 <input type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100

- It is also necessary to select the MPG function:

MPG/Encoder ET10 encoder inputs

	Input#	Slot	Axis	Dimension	Encoder Resolution
#4 <input checked="" type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100
#5 <input type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100
#6 <input type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100
#7 <input type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100

Functions	Discriptions
MPG wheel	Direct control of MPG
THC/Z axis offset	Controlling the tracking on cutting with the help of MPG
Spindle Sync	Spindle control, via the analog output to control the spindle speed.

- If necessary, select the coordinate axis, which will be controlled by MPG

MPG/Encoder ET10 encoder inputs

	Input#	Slot	Axis	Dimension	Encoder Resolution
#4 <input checked="" type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100
#5 <input type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100
#6 <input type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100
#7 <input type="checkbox"/>	ET 10 Encoder #0	MPG wheel	X		100

- Next we select the length of displacements with the help of MPG. Number of movements in mm per pulse MPG:

MPG/Encoder ET10 encoder inputs

	Input#	Slot	Axis	Dimension	Encoder Resolution
#4 <input checked="" type="checkbox"/>	ET10 Encoder #0	MPG wheel	X	0.1	100
#5 <input type="checkbox"/>	ET10 Encoder #0	MPG wheel	X		100
#6 <input type="checkbox"/>	ET10 Encoder #0	MPG wheel	X		100
#7 <input type="checkbox"/>	ET10 Encoder #0	MPG wheel	X		100

- We set the resolving power of the PGM - the number of pulses per one revolution of PGM

MPG/Encoder ET10 encoder inputs

	Input#	Slot	Axis	Dimension	Encoder Resolution
#4 <input checked="" type="checkbox"/>	ET10 Encoder #0	MPG wheel	X	0.1	100
#5 <input type="checkbox"/>	ET10 Encoder #0	MPG wheel	X		100
#6 <input type="checkbox"/>	ET10 Encoder #0	MPG wheel	X		100
#7 <input type="checkbox"/>	ET10 Encoder #0	MPG wheel	X		100

- Simple

MPG/Encoder through binary inputs

	Input1	Input2	Slot	Axis	Dimension	Encoder Resolution
#0 <input type="checkbox"/>	Input 8	Input 9	MPG wheel	Pendant		400
#1 <input type="checkbox"/>	Input 10	Input 11	MPG wheel	General Purpose		400
#2 <input checked="" type="checkbox"/>	Input 8	Input 9	MPG wheel	Pendant		65536
#3 <input checked="" type="checkbox"/>	Input 10	Input 11	MPG wheel	General Purpose		400

MPG/Encoder ET10 encoder inputs

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