Short PhCNC Demo Manual v5.3.5

1. Installation

 PhCNC Demo - InstallShield Wizard

 Welcome to the InstallShield Wizard for PhCNC Demo

 The InstallShield Wizard will install PhCNE Demo on your computer. To continue, click Next.

 InstallShield @ @ack @ext_@ext_@cancel

Start PhCNC_Demo_Setup.exe (32bit) or PhCNC64_Demo_Setup.exe (64bit)

After the installation, start PhCNC Demo using the short cut 💦 PhCNC Demo

2. Using PhCNC Demo

To start, you must first load gerber & drill files or PhCNC project file. We recommend you to start with the example files provided with this demo. You can import them with with (easier way).

2.1 Load PhCNC project file or import gerber & drill data

2.1.1 Load PhCNC project file

It is more convenient to load with some project file (from C:\Program Files\PhCNC Demo):

💦 Open PhCNC	Project						×
Look <u>i</u> n:	DhCNC64 Der	mo 💌					
Recert Places Desktop Libraries Computer Octop Network	Name SAMPLES ALL.PHJ DEMOC3.PHJ nano.PHJ PID.PHJ PID.PHJ Dedex.PHJ TERMOSENS	л U SE.PHJ		Date modified 22-Jul-14 10:01 15-Jul-14 11:25 15-Jul-14 11:16 15-Jul-14 11:19 15-Jul-14 11:22 15-Jul-14 11:22 15-Jul-14 11:23	Type File folder PHJ File PHJ File PHJ File PHJ File PHJ File PHJ File	Size 111 K 48 K 14 K 12 K 13 K	B B B B B B
	File <u>n</u> ame:					~	<u>O</u> pen
Files of type: PhCNC Project files (*.PHJ)		PhCNC Project files (*.PHJ)				*	Cancel

Shown below are sample projects provided with this demo version of PhCNC.



DEMOC3.PHJ



PID.PHJ



podex.PHJ



TERMOSENSE.PHJ





nano.PHJ



ALL.PHJ

Gerber and drill files used to generate each of the project files (.PHJ) are located in SAMPLES folder. Each project has its own sub-folder. Typically you will have an output from a CAD system that include gerber and

drill files. After you import them in PhCNC and complete all CAM manipulations and all CNC settings you may save them as a project file (.PHJ). Usually you will do this after a successful run. The advantages – first, project files contain all information including all your settings, second they are more compact and save disk space.

Now let start with, what you will usually do with each new project.

2.1.2 Loading Gerber & drill files (provided with this demo)

Sample gerber & drill files are located in this folder:

"C:\Program Files\PhCNC64 Demo\Samples".

- To import them:
- Click on 🖻 🗱
- select one of the samples folder (like "SAMPLES\DEMOC3")
- select gerber & drill files as shown below:



Next, you will need a machine to run your board. PhCNC Demo has an embedded software simulator that resembles Accurate 350 Desktop CNC machine. It will allow you to continue to the next step.



2.2 To start machining your board clicks on early icon.

You are in CNC mode. PhCNC Demo simulates Accurate 350 machine (with manual tool change!):



To start, press **Emergency Stop Button**. This action will release the Emergency Stop Status.



Click **Yes** to start the process of machine homing:



Click on **Start Button** in the Spindle Warm Up window where you may **Cancel** the process. Actually there is no spindle to warm up (this is a simulation).

👹 Spindle Warm Up		×
To prolonge the life of the spindle of yo reccomend to you to warm it up before	ur machine, we strongly usage!	Start
Remind me to warm up the spindle if it	20 min 🗸	ancel
The spindle had been shut down before:	never started	
Duration of the warm up (sec.):	120 💌	
spindle speed for warm up [rpm]:	10000 💌	
Remaining time till the end of the procedure:	120 s	

Select any of the machining programs generated by PhCNC:



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Click on RUN (GO)
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During the execution you may change Zoom (In/Out) and watch the process using active Scroll In View

If you would like to know more about PhCNC:

Please, read the full PhCNC manual then load your own CAM files into the PhCNC Demo and try any function described in the manual.



Select PhCNC Demo from Control Panel-> "Add/Remove Programs" (2000/XP/2003) or Control Panel-> "Programs and Features" (Vista/Win7/8/8.1).

You may also start PhCNC Demo installation program (PhCNC_Demo_Setup.exe or PhCNC64_Demo_Setup.exe) and select "Remove"!

Your PC must cover the minimum system requirements (listed below) to run this program successfully.

Minimum (recommended) system requirements:

 OS:
 32-bit(x86): Win2000/XP/2003/Vista/Win7/8/8.1 or 64-bit(x64): XP/Vista/Win7/8/8.1

 RAM:
 512 MB (1GB+)

 CPU:
 600 MHz (2GHz+)

 Display:
 1024x768



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Saturday:	9AM-2PM EST