TN016

AKKON CNC SYSTEM

Setup Akkon Simulator Installation manual



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Table of versions

Version	Date	Remarks
1.0	12.01.2009	first version
1.1	13.01.2009	Added some information for installing the Akkon simulator

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1 Introduction

This document describes how to setup the Akkon Simulator running with AkkonDesk.



Figure 1: Concept of Akkon Simulator running with AkkonDesk

2 Installation

2.1 Install Virtual com port

Virtual com port creates additional serial ports on a MS-Windows PC that can be connected to each other without any hardware (serial cable).

The driver can be found in the directory of AkkonDesk on: C:\Program Files\AkkonDesk\Drivers\com2com

The original version of com0com can be downloaded on http://com0com.sourceforge.net

🚊 🛅 AkkonDesk	~	Name 🛆
🕀 🧰 Controller		🗐 ReadMe
🕀 🛅 Documentation		👼 setup
🖻 🧰 Drivers		.
Com 2 com 2 com		
🛅 Examples		
🛅 Firmware		
Fonts		
🕀 🧰 Samples		
🛅 Sounds		
Turret		

2.2 Configure virtual com port

Click on Windows menu Start->Programs->com0com->Setup and create a virtual com port connection.

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Setup for com0com	
 Witual Port Pair 0 	COM2 COM3 emulate baud rate emulate baud rate enable buffer overrun enable buffer overrun enable plug-in mode enable plug-in mode enable hidden mode enable exclusive mode enable hidden mode enable hidden mode RX TX DTR DTR DSR DSR DCD RTS CTS CTS RI OUT1 OUT1 OUT1 OUT2 OPEN
Add Pair Remove	Reset Apply

In the example above the com ports COM2 and COM3 are created and connected to each other "virtually"

2.3 Install Akkon Simulator

If Akkon Simulator is not installed yet please move to installation directory or AkkonDesk C:\Program Files\AkkonDesk\Controller\Simulator and run SetupSimulator.



🛱 Akkon Simulator	
Welcome to the Akkon Simulator Setup Wizard	
The installer will guide you through the steps required to install Akkon Simulator on you	ır computer.
WARNING: This computer program is protected by copyright law and international trea Unauthorized duplication or distribution of this program, or any portion of it, may result in or criminal penalties, and will be prosecuted to the maximum extent possible under the	aties. n severe civil law.
Cancel	Next >

Follow the installer of the Akkon simulator and press Next.

Akkon Simulator	
Select Installation Folder	
The installer will install Akkon Simulator to the following folder.	
To install in this folder, click "Next". To install to a different folder, en	ter it below or click "Browse".
<u>F</u> older:	
C:\Program Files\AkkonDesk\Controller\Simulator\	Browse
	Disk Cost
Install Akkon Simulator for yourself, or for anyone who uses this co Everyone Just me	Disk Cost
Install Akkon Simulator for yourself, or for anyone who uses this co	Disk Cost

Check program file location of the simulator and press next.

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👹 Akkon Simulator	
Installation Complete	
Akkon Simulator has been successfully installed.	
Click "Close" to exit.	
Please use Windows Update to check for any critical updates to the .NET Framewo	rk. Close

The installer will now install all necessary files for running the Akkon simulator. The Akkon simulator requires the Microsoft .net framework. It will automatically be downloaded by the installer. The installation needs around 5 - 10 minutes, depending on the download speed and PC system. The installation of the .net framework will require a reboot of the PC.

2.4 Setup Akkon Simulator

After successful installation setup of Akkon simulator can be proceed. Start AkkonDesk and run program properties on Menu->Settings->Program properties or by clicking the toolbar icon. Then select the simulator item in the tree.



AkkonDesk Settings	
AkkonDesk Settings Colors	(Virtual)Com port 1 COM2 Refresh Start Akkon CNC controller simulator AKKON Cnc controller simulator IMAGENTIAL COMPANY OF CONTROL OF CONTR
	Virtual Com port 1 Virtual Com port 2 PC Virtual com port driver http://comOcom.sourceforge.net Close

Select the com port that Akkon simulator should use. In the example above COM2 is used for the Akkon simulator. After s

Start Akkon Simulator on Tool bar item "Sim"





On success Akkon Simulator is ready for control.

2.5 Setup com port for Akkon controller connection

In the next step the com port that AkkonDesk should use must be selected. Because the virtual connection is established between COM2 and COM3 and Akkon Simulator uses COM2, COM 3 must be selected as suitable com port for AkkonDesk.

RS232 settings 🛛 🔀
Com Port COM3
OK Refresh Cancel

2.6 Connect AkkonDesk with Akkon simulator

If all installation steps has been executed start AkkonDesk by clicking the connection button



Now AkkonDesk is ready for running programs



3 Running a small example program

Open a cnc file by clicking Menu->Open file

Open CNC File	ŧ.				? 🛛
Open CNC File Look in: My Recent Documents Desktop My Documents	Examples Ex01_Hallo_ EX02_Hallo_ Ex03_G81_L Ex04_G86_(Ex05_Intern Ex06_Macro Ex07_Windo Ex08_CorelL Ex09_CAM_ Ex09_CAM_ Ex10_dxf_co Ex11_Impor	G40 G41 DrillCycle 589_SubD talFont s_FrontBoard twsFontConversion Draw_spline1 import_Cavity ponversion_Marie t_CircuitBoard	•	← È ➡ m.	
My Computer					
My Network Places	File name:	Ex01_Hallo_G40			Open
1 10055	Files of type:	CNC-Code		<u> </u>	Cancel

Akkon is now ready for startup

Image:
200 3
* Creweder With AXXDU USE (IXCCancele International) * Immediate * Immediate * Creweder With AXXDU USE (IXCCancele International)
nn resource Marwal lead configuration successfully withen to controller Open CNC file CV4kkomPetersenExxmplerEx/0_Halo_E40.txt
Mr: 0 Mr: 0 Program loading progress: E Execution time: 0.0s connected to AKKON CNC controller

Press button Start, Stop or Pause to run the program



Increase feed



And press Start button

ENJOY

4 Disclaimer

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