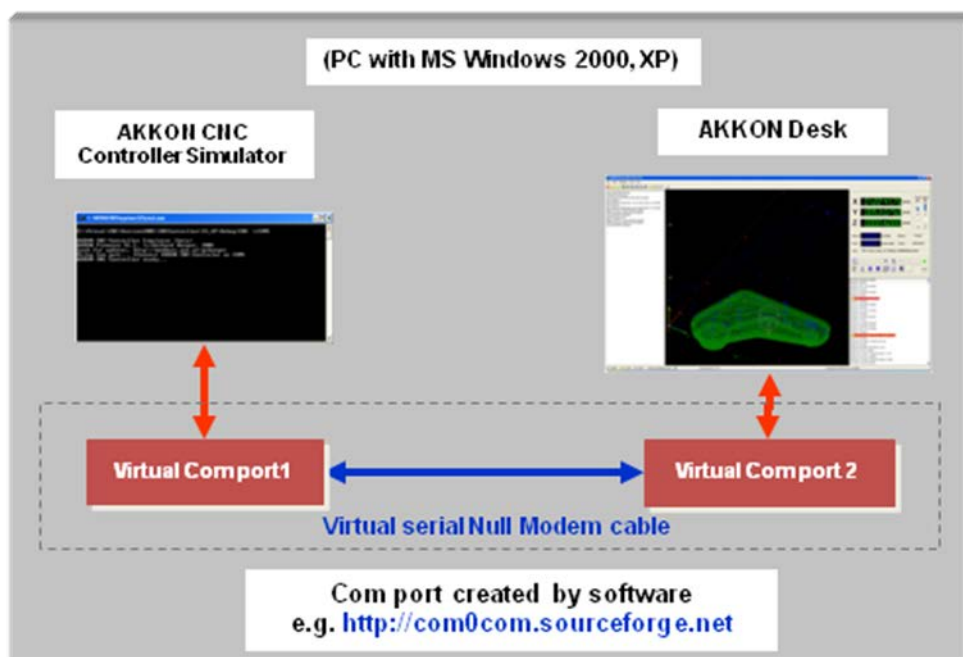


**TN017**

**AKKON CNC SYSTEM**

**Setup Akkon Simulator  
Installation manual**



Authors: Gerhard Burger  
 Version: 1.2  
 Last update: 07.11.2016  
 File: TN017\_Setup\_Akkon\_Simulator  
 Attachments: no attachments

**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
1.2	6.11.2016	Some updates and hints

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### 1 Introduction

This document describes how to setup the Akkon Simulator running with AkkonDesk. Generally AKKON simulator simulates a controller hardware for demo, test and debugging purposes. Communication is done over RS232 interface. Depending on the operating systems different virtual com port drivers are available. If no virtual com port driver is available, two USB to RS232 adapters with NULL-Modem Connector also works.

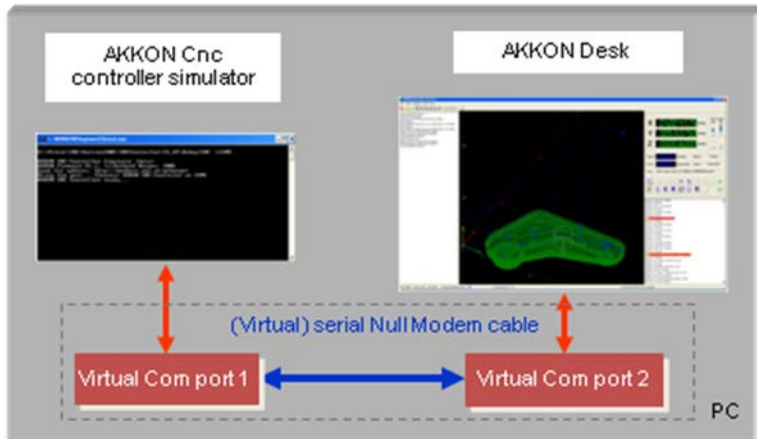


Figure 1: Concept of Akkon Simulator running with AkkonDesk

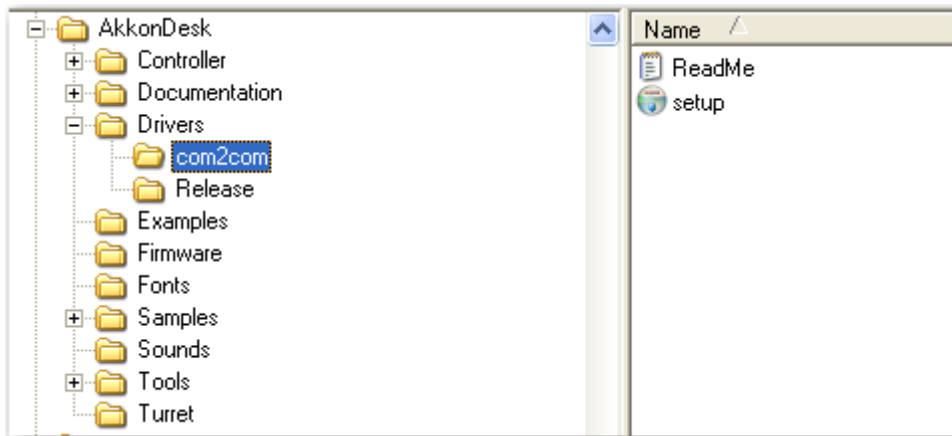
### 2 Installation

If two USB to RS232 converter are used, please move to section 2.4.

#### 2.1 Install Virtual com port

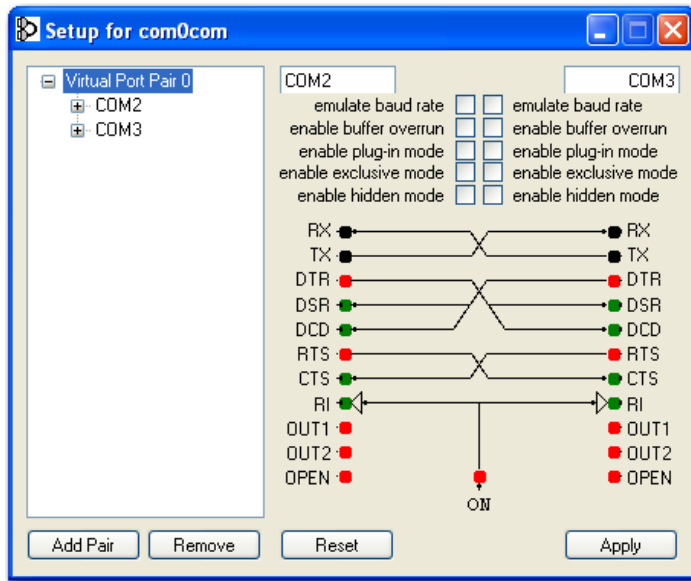
The driver can be found in the directory of AkkonDesk on: C:\Program Files\AkkonDesk\Drivers\com2com

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



#### 2.2 Configure virtual com port

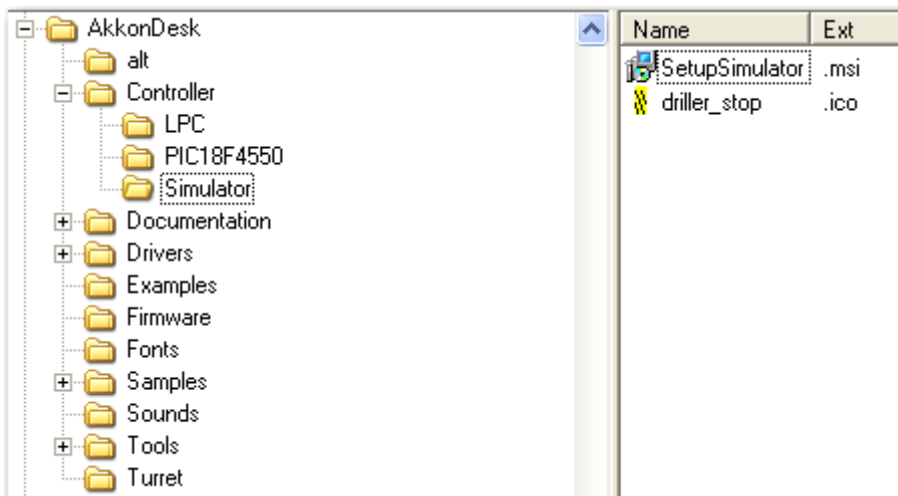
Click on Windows menu Start->Programs->com0com->Setup and create a virtual com port connection.

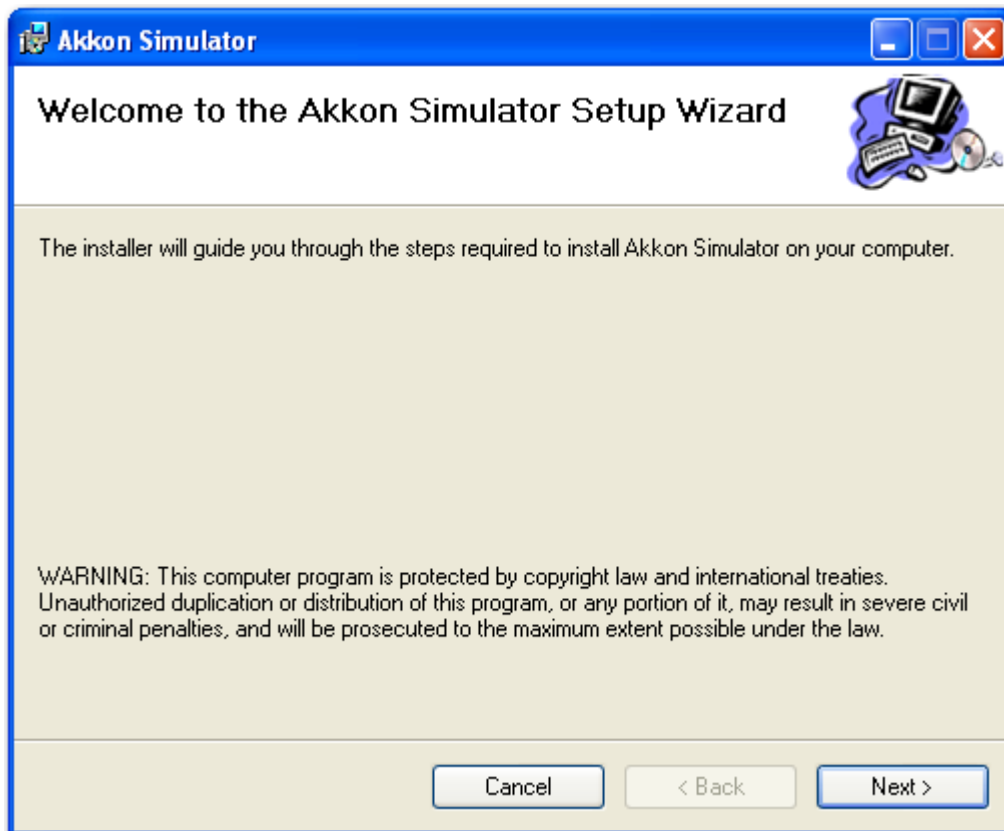


In the example above the com ports COM2 and COM3 are created and connected to each other „virtually“

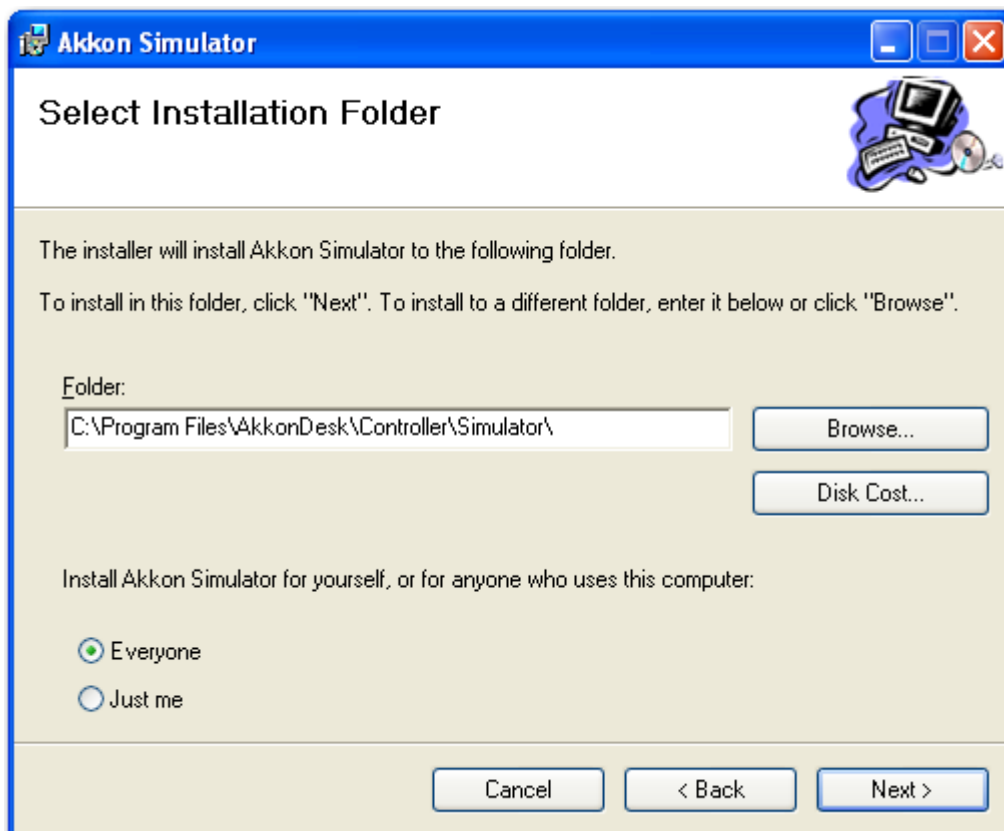
### 2.3 Install Akkon Simulator

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

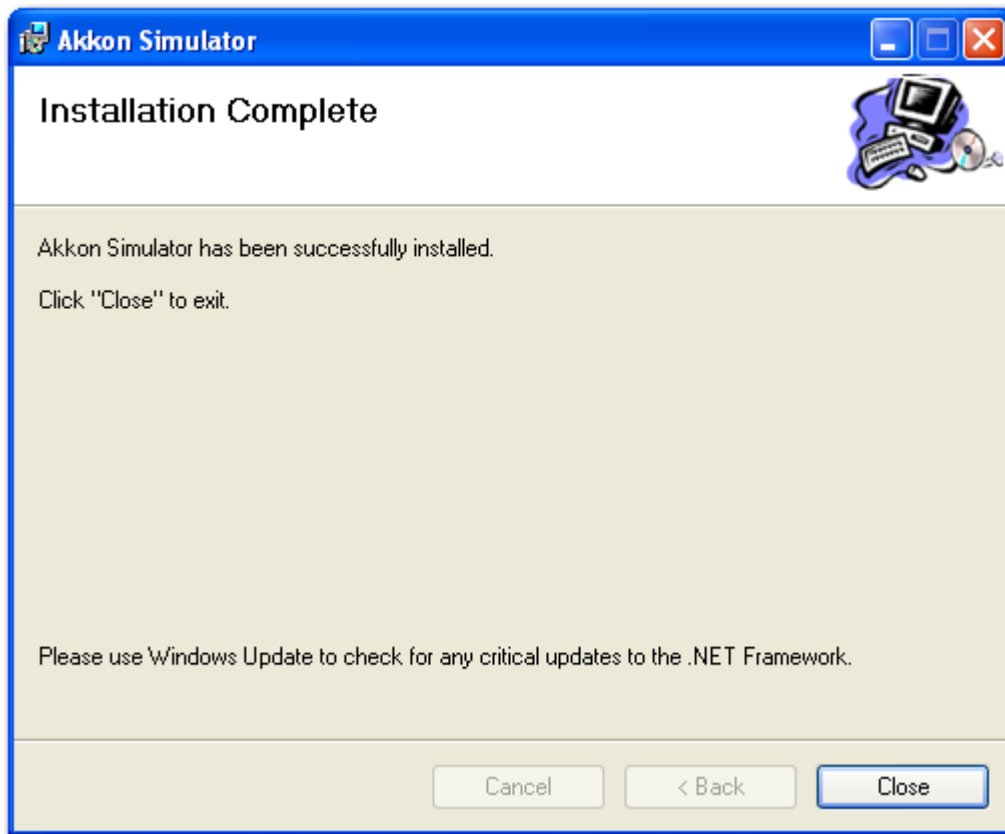




Follow the installer of the Akkon simulator and press Next.



Check program file location of the simulator and press next.

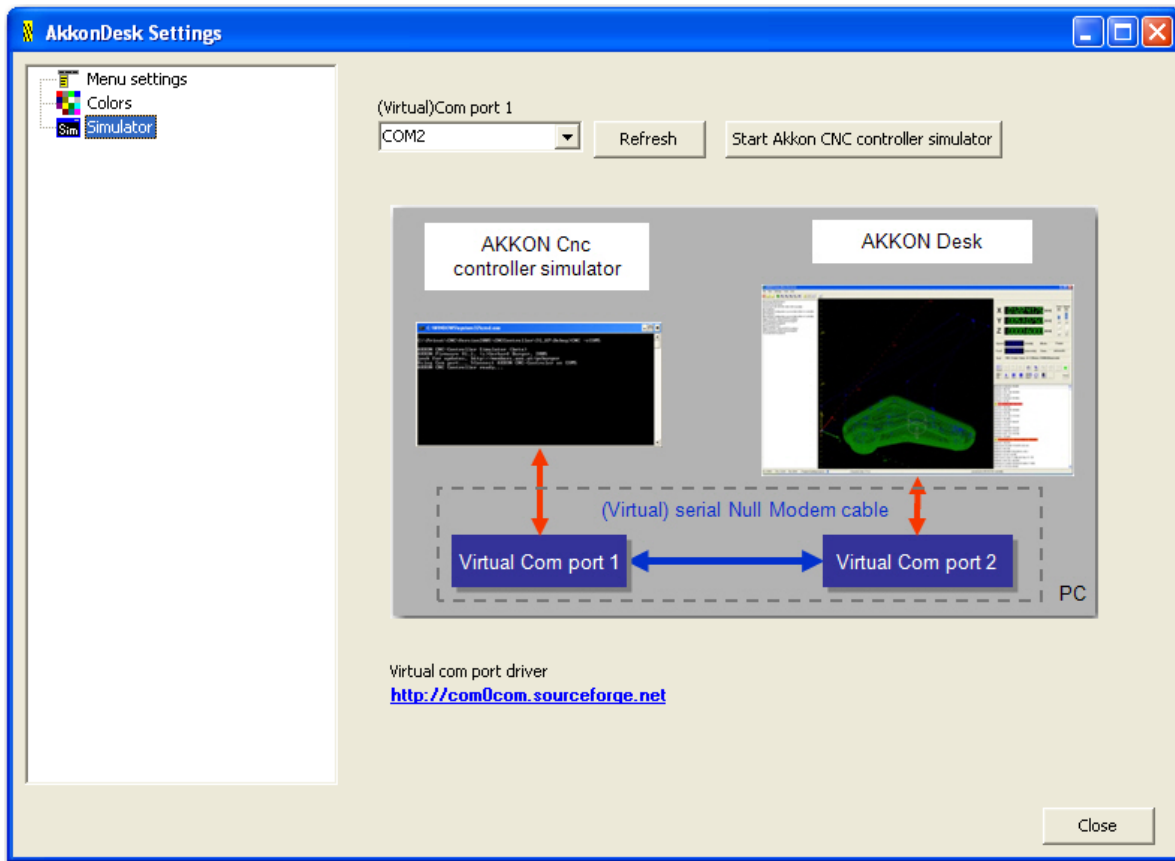


The installer will now install all necessary files for running the Akkon simulator. The Akkon simulator requires the Microsoft .net framework. It will automatically be downloaded by the installer. The installation needs around 5 - 10 minutes, depending on the download speed and PC system. The installation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



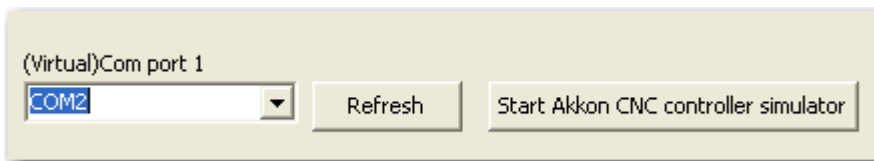


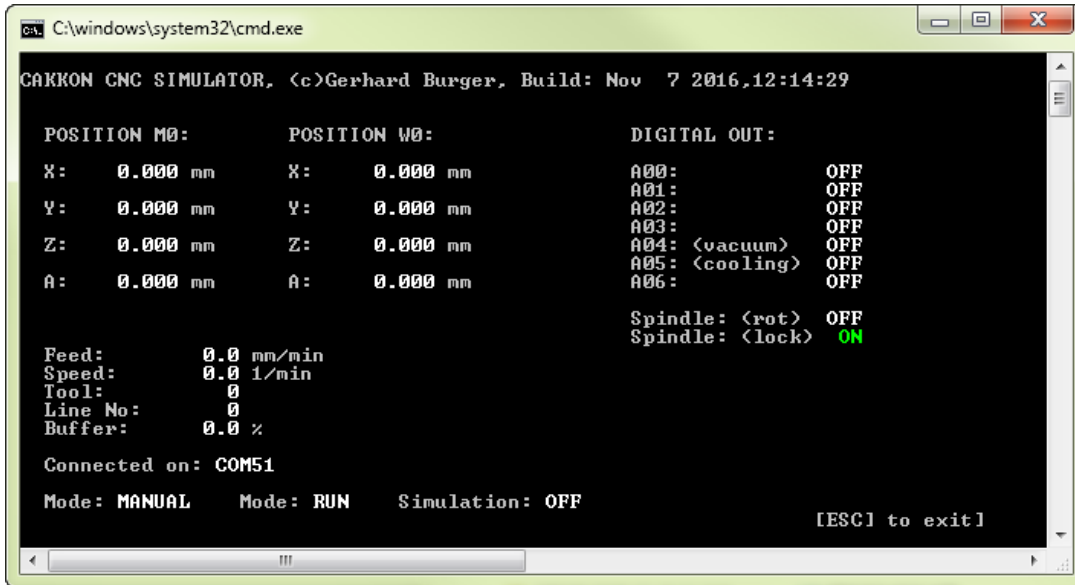
Select the com port that Akkon simulator should use. In the example above COM2 is used for the Akkon simulator. After s

Start Akkon Simulator on Tool bar item „Sim“



or using the button “Start Akkon CNC controller simulator in the simulator property dialog.

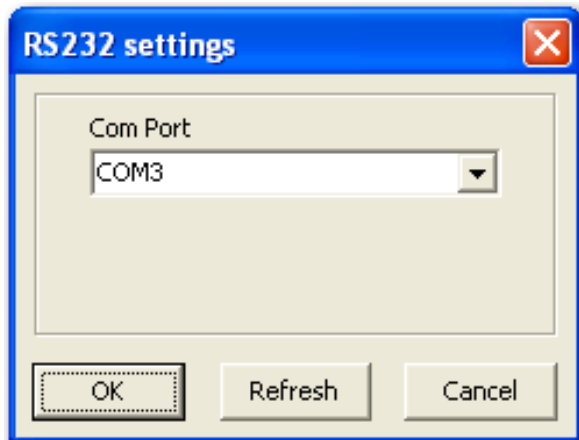




On success Akkon Simulator is ready for control.

### 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.



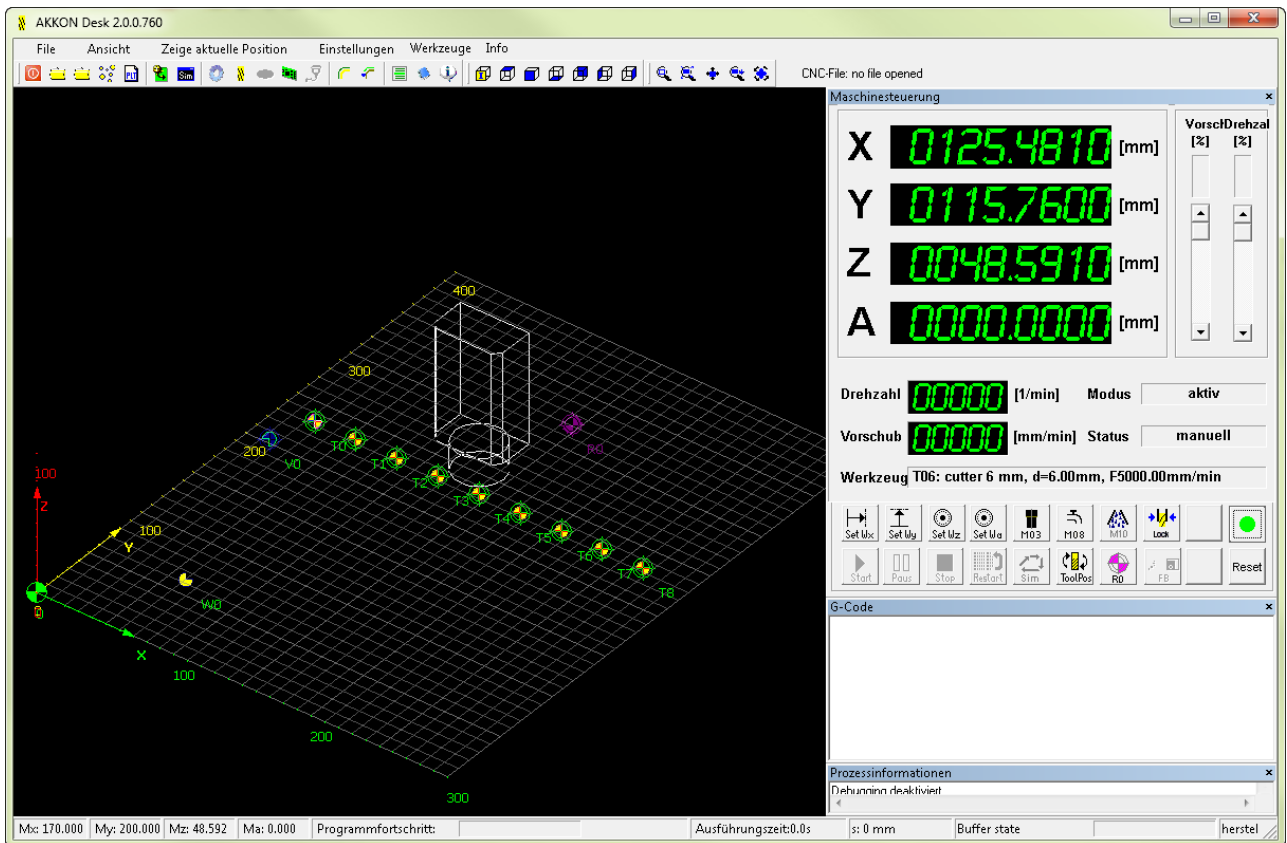
### 2.6 Connect AkkonDesk with Akkon simulator

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



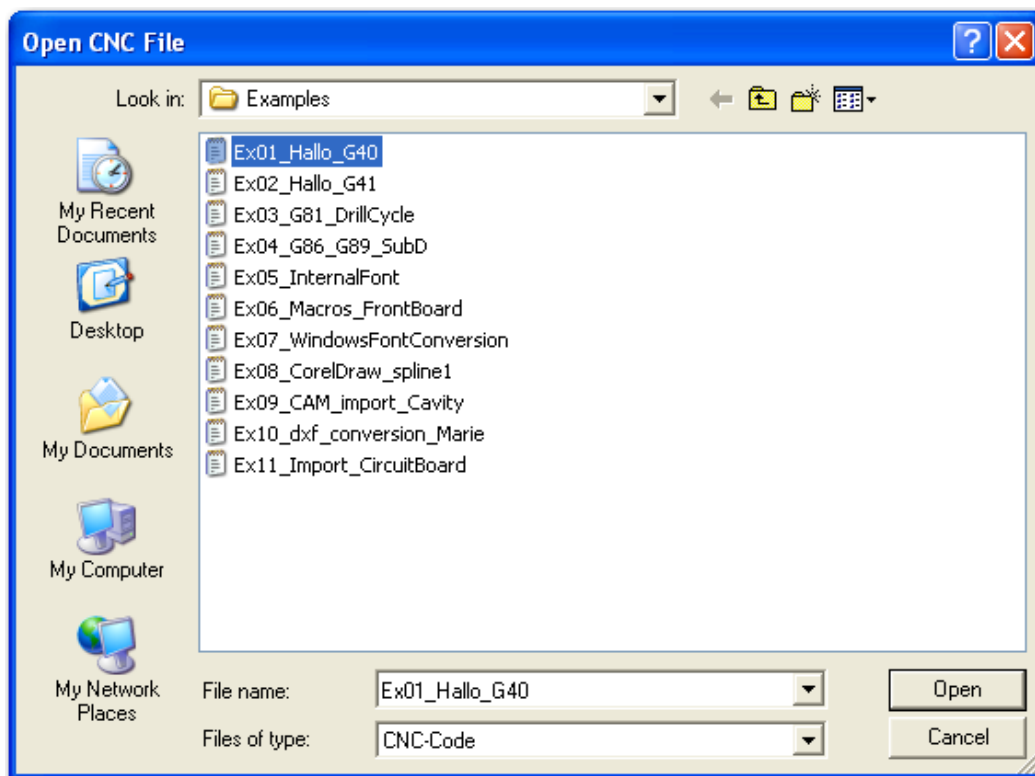
Now AkkonDesk is ready for running programs



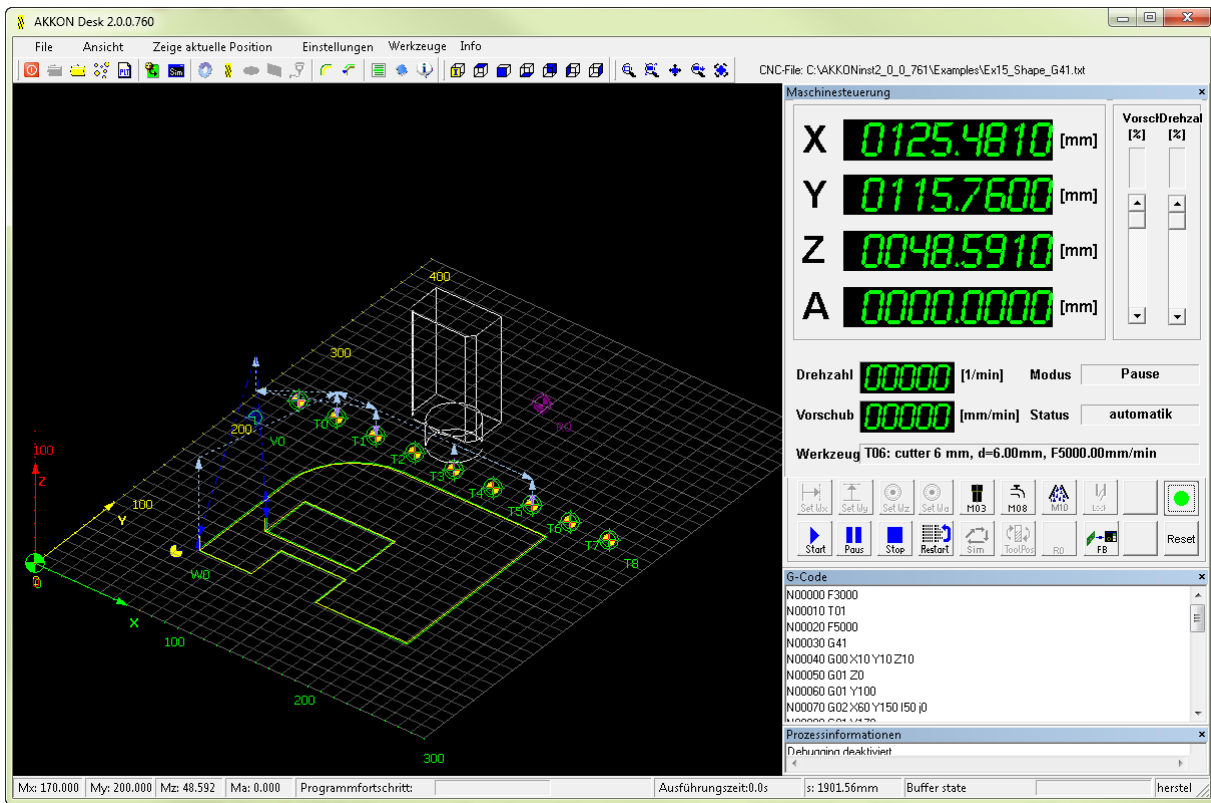


### 3 Running a small example program

Open a cnc file by clicking Menu->Open file



Akkon is now ready for startup



Press button Start, Stop or Pause to run the program



Increase feed



And press Start button

ENJOY

## 4 Disclaimer

### 4.1 *Limited Warranty and Disclaimer of Warranty*

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