TN010

AKKON

Installation guide

(AKKON application documentation and operating system)



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Table of versions

Version	Date	Remarks
1.0	16.01.2006	First version

Summary for English speaking users

This installation guide is currently only available in English language.

This document outlines the installation steps how to install the AKKON CNC application the related help files and actualize the AKKON operating system

The description starts with a short introduction about the concept of AKKON CNC. After that the installation of the software and hardware will be discussed. In a further step the configuration of the software according to the used hardware will be shown. The document will end with a description of the essential functions of the CNC software AKKON Desk.

AKKO	N 1
Table o	f versions
SUMM	ARY FOR ENGLISH SPEAKING USERS
1	INTRODUCTION
2	INSTALL AKKON DESK
2.1	Execute installation file
2.2	Select language
2.3	Confirm welcom dialog7
2.4	Read and agree or disagree the license principles7
2.5	Read the agreements
2.6	Select installation directory
2.7	Choos program menu name
2.8	Select icon arrangement
2.9	Confirm selection and start installation10
2.10	Read installation notes and press next10
2.11	Finish installation11
2.12	Now you have successfully installed AKKON Desk11
3	INSTALL HELP FILES FOR AKKON 12
3.1	Execute installation file of AKKON Manual12
3.2	
3.3	
3.4	
3.5	

Installation guide

AKKON CNC

3.6	Select language13
3.7	Confirm welcom dialog13
3.8	Read and agree or disagree the license principles14
3.9	Read the agreements14
3.10	Select installation directory15
3.11	Choos program menu name15
3.12	Select icon arrangement16
3.13	Confirm selection and start installation16
3.14	Read installation notes and press next17
3.15	Finish installation17
3.16	Now you have successfully installed AKKON user manual18
4	INSTALL DOCUMENTATION OF SUPPORTED G- AND M-CODES
4.1	Execute installation file of AKKON Manual19
4.2	Documentation of G- and M-Codes is now installed19
5	INSTALL AKKON CNC CONTROLLER BOARD
5.1	Put power on AKKO USB CNC Controller Board20
5.2	Plug in USB cable to PC20
5.3	Driver installation dialog will appear, please select location20
5.4	Select location of USB driver
5.5	The device will be searched21
5.6	Select next to agree the found driver22
5.7	Select a driver22
5.8	Complete installation
6	PUT POWER ON AKKON USB CNC CONTROLLER BOARD

Installation guide

AKKON CNC

6.1	Set AKKON USB CNC Controller Board by pressing firmware update button and reset button24	4
6.2	Start AKKON USB firmware update tool24	4
6.3	Start PDFSUSB	4
6.4	Select AKKON firmware2	5
6.5	Press Load HEX File2	5
6.6	Run AKKON	6
6.7	Press execute	7
6.8	Now you have successfully installed the AKKON operating system	7
7	START AKKON	3
7.1	Press the red connection button28	B
7.2	AKKON	Э
8	DISCLAIMER:)
8.1	Limited Warranty and Disclaimer of Warranty30	0
8.2	ACKNOWLEDGMENT	D

1 Introduction

Pleae see summary.

2 Install AKKON Desk

2.1 Execute installation file

🖟 setup_Akkon_V1_1.exe

2.2 Select language

Select S	Setup Language	×
12	Select the language to use during the installation	on:
	English	~
	OK Cancel	

2.3 Confirm welcom dialog



2.4 Read and agree or disagree the license principles

🕼 Setup - AKKON	
License Agreement Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
GNU GENERAL PUBLIC LICENSE Version 2, June 1991	
Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.	
Preamble	
The licenses for most software are designed to take away your	~
 I accept the agreement I do not accept the agreement 	
< Back Next >	Cancel

2.5 Read the agreements

🔂 Setup - AKKON	
Information Please read the following important information before continuing.	
When you are ready to continue with Setup, click Next.	
DAMAGES. 1.2 ACKNOWLEDGMENT BY USING THIS PRODUCT YOU ACKNOWLEDGE THAT YOU HAVE READ THIS LIMITED WARRANTY, UNDERSTAND IT, AND AGREE TO BE BOUND BY ITS' TERMS AND CONDITIONS. YOU ALSO AGREE THAT THE LIMITED WARRANTY IS THE COMPLETE AND EXCLUSIVE STATEMENT OF AGREEMENT BETWEEN THE PARTIES AND SUPERSEDE ALL PROPOSALS OR PRIOR AGREEMENTS, ORAL OR WRITTEN, AND ANY OTHER COMMUNICATIONS BETWEEN THE PARTIES RELATING TO THE SUBJECT MATTER OF THE LIMITED WARRANTY.	
< Back Next > C	ancel

2.6 Select installation directory

🔂 Setup - AKKON
Select Destination Location Where should AKKON be installed?
Setup will install AKKON into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\AKKON Browse
At least 11.0 MB of free disk space is required.
< Back Next > Cancel

2.7 Choos program menu name

🔂 Setup - AKKON
Select Start Menu Folder Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
AKKON Browse
Don't create a Start Menu folder
< Back Next > Cancel

2.8 Select icon arrangement

🔂 Setup - AKKON	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while installing AKKON, then click Next. In Create a desktop icon In Create a Quick Launch icon	
< Back Next > Cance	el

2.9 Confirm selection and start installation

🕼 Setup - AKKON 📃 🗖 🔀	
Ready to Install Setup is now ready to begin installing AKKON on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\AKKON Start Menu folder: AKKON Additional tasks: Additional icons: Create a desktop icon Create a Quick Launch icon	
< Back Install Cancel	

2.10 Read installation notes and press next

🔂 Setup - AKKON	\mathbf{X}	
Information Please read the following important information before continuing.	Z	
When you are ready to continue with Setup, click Next.		
Installation notes		
AKKON V1.1 is now installed on your PC system. Please update also the current firmware for the AKKON USB CNC controller. Have a look at the folder documentation. Here you will find a description how to configure and set set up the AKKON CNC system. Further Information can be found on: <u>www.burger-web.com</u>		
Please read the realeas notes in AKKON_ReleaseNotes.txt or in under menu item info of Akkon Desk		
Next >		

2.11 Finish installation



🐰 AKKON I	Desk (Beta	Version)													
File Tool def	finiton Opti	ons Tools	Info	1.1.1.1.1.1											
		L C	<u>*</u> 😌	<u>U</u>											
 : 400													Grid:	25 mm	Feed Speed
350															
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- 250	то														Speed [1/min] Mode
: · 200															Tool T00: Gravierstichel. d=4.00mm, F200.00mm/min
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- 100															
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1943: AAAAA	PHY: AAAAA	m2: AAXXX	Progra	am IudulNi	y progres:	o.	U%								USCONNECCED FROM AKKON CIVE CONTROLER

2.12 Now you have successfully installed AKKON Desk

3 Install help files for AKKON

3.1 Execute installation file of AKKON Manual

😽 Setup_AKKON_Manual.exe

3.2



3.3



3.4

3.5

3.6 Select language



3.7 Confirm welcom dialog

🕼 Setup - AKKON user manual				
	Welcome to the AKKON user manual Setup Wizard This will install AKKON user manual V1.0 on your computer. It is recommended that you close all other applications before continuing. Click Next to continue, or Cancel to exit Setup.			
	<u>N</u> ext > Cancel			

3.8 Read and agree or disagree the license principles

🔂 Setup - AKKON user manual	
License Agreement Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
GNU GENERAL PUBLIC LICENSE Version 2, June 1991	
Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.	
Preamble	
The licenses for most software are designed to take away your	~
 I accept the agreement I do not accept the agreement 	
< Back Next > C	ancel

3.9 Read the agreements

🕼 Setup - AKKON user manual
Information Please read the following important information before continuing.
When you are ready to continue with Setup, click Next.
DAMAGES. 1.2 ACKNOWLEDGMENT BY USING THIS PRODUCT YOU ACKNOWLEDGE THAT YOU HAVE READ THIS LIMITED WARRANTY, UNDERSTAND IT, AND AGREE TO BE BOUND BY ITS' TERMS AND CONDITIONS. YOU ALSO AGREE THAT THE LIMITED WARRANTY IS THE COMPLETE AND EXCLUSIVE STATEMENT OF AGREEMENT BETWEEN THE PARTIES AND SUPERSEDE ALL PROPOSALS OR PRIOR AGREEMENTS, ORAL OR WRITTEN, AND ANY OTHER COMMUNICATIONS BETWEEN THE PARTIES RELATING TO THE SUBJECT MATTER OF THE LIMITED WARRANTY.
< Back Next > Cancel

3.10 Select installation directory

🔂 Setup - AKKON user manual
Select Destination Location Where should AKKON user manual be installed?
Setup will install AKKON user manual into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\AKKON Browse
At least 5.5 MB of free disk space is required.
< Back Next > Cancel

3.11 Choos program menu name

🔂 Setup - AKKON user manual
Select Start Menu Folder Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
AKKON Browse
< Back Next > Cancel

3.12 Select icon arrangement

🔂 Setup - AKKON user manual	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while installing AKKON use manual, then click Next.	r
Additional icons:	
Create a desktop icon	
🗹 Create a Quick Launch icon	
< Back Next > Ca	ncel

3.13 Confirm selection and start installation

🔂 Setup - AKKON user manual
Ready to Install Setup is now ready to begin installing AKKON user manual on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location: C:\Program Files\AKKON
Start Menu folder: AKKON
Additional tasks: Additional icons: Create a desktop icon Create a Quick Launch icon
< Back Install Cancel

3.14 Read installation notes and press next



3.15 Finish installation





3.16 Now you have successfully installed AKKON user manual

The manual can now be accessed also in AKKON Desk

4 Install Documentation of supported G- and M-Codes

4.1 Execute installation file of AKKON Manual

🕞 Setup_Docu_G_Codes.exe

Follow installation steps similar to installation of AKKON Desk.

4.2 Documentation of G- and M-Codes is now installed



The manual can now be accessed also in AKKON Desk

5 Install AKKON CNC Controller Board

5.1 Put power on AKKO USB CNC Controller Board

Use power supply with around 9V DC or 5V AC. The board can not be powered over USB

5.2 Plug in USB cable to PC

5.3 Driver installation dialog will appear, please select location

Found New Hardware Wiz	ard
	Welcome to the Found New Hardware Wizard
	This wizard helps you install software for:
	PIC18F4550 Family Device
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do?
	 Install the software automatically (Recommended)
	Install from a list or specific location (Advanced)
	Click Next to continue.
	< <u>B</u> ack <u>N</u> ext > Cancel

5.4 Select location of USB driver

Found New Hardware Wizard
Please choose your search and installation options.
 Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
Include this location in the search:
C:\Program Files\AKKON\Drivers\Release Variable Browse
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back Next > Cancel

5.5 The device will be searched

Found New Hardware Wizard		
Please wait while the wizard searche	s	
PIC18F4550 Family Device	Ś	
	< Back Next >	Cancel

5.6 Select next to agree the found driver

Found New Hardware Wizard
Please choose your search and installation options.
 Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
Include this location in the search:
C:\Program Files\AKKON\Drivers\Release V Browse
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back Next > Cancel

5.7 Select a driver

und New Hardware Wizard			
Please select the best match	for your h	ardware from the list belo	
PIC18F4550 Family D)evice		
Description	Version	Manufacturer	Location
PIC18F4550 Family Device	Unknown	Microchip Technology, Inc.	c:\windows\
AKKON CNC cnntrol	Unknown	Microchip Technology, Inc.	c:\windows\
<			>
This driver is not digit <u>Tell me why driver signing</u>	tally signe	d!	
		< Back Next >	Cancel

5.8 Complete installation

Found New Hardware Wizard										
	Completing the Found New Hardware Wizard									
	The wizard has finished installing the software for:									
	AKKON CNC cnntrol									
	Click Finish to close the wizard.									
	< Back Finish Cancel									

6 Put power on AKKON USB CNC Controller Board

- 6.1 Set AKKON USB CNC Controller Board by pressing firmware update button and reset button
- 6.2 Start AKKON USB firmware update tool



6.3 Start PDFSUSB



6.4 Select AKKON firmware

Open				? 🔀
Look in: 障	Firmware	•	Þ 🗈	📸 🎫
AKKON_PI	I.hex			
File name:	20070929_AKKON.hex		-	Open
Files of type:	Hex Files (*.HEX)		•	Cancel

6.5 Press Load HEX File



6.6 Run AKKON

Section 1.00 PICDEM(TM) FS USB Demo Tool - Version 1.00	
Bootload Mode Demo Mode	
Select PICDEM FS USB Board	
PICDEM FS USB 0 (Boot)	
🖆 Load HEX File	Міскоснір
Program Device	
Arrange Bead Device	PICDEM FS USB Bootload Mode Entry
(_) <u>A</u> bort Operation	Hold down push button S2 then reset the board by pressing push button S1.
Cl <u>e</u> ar Screen	
MESSAGE – Programming FLASH Completed MESSAGE – Erasing and Programming FLA	SH
Addr. 00 01 02 03 04 05 06 07 08 09	OA OB OC OD OE OF
PROGRAM MEMORY:	
000000 A7 EF 31 F0 12 00 XX XX XX XX 000010 XX	xx
USB Bootloader Firmware Version 1.0	Copyright (C) Microchip Technology Inc., 2004 🥢

6.7 Press execute

S PICDEM(TM) FS USB D	emo Tool - Version 1.00								
Bootload Mode Demo Mode									
Select PICDEM FS USB Board	d	1							
	•								
😅 Load HEX File	📕 <u>S</u> ave To HEX File	Міскоснір							
👾 <u>P</u> rogram Device	∠ Execute								
🚔 <u>R</u> ead Device	🛱 <u>E</u> rase Device	PICDEM FS USB Bootload Mode Entry							
	Operation	Hold down push button S2 then reset the board by pressing push button S1.							
Cl <u>e</u> ar Screen									
WARNING - Failed to MESSAGE - Programmi MESSAGE - Erasing a	RESET board ng FLASH Completed nd Programming FLAS	SH							
Addr. 00 01 02 03	04 05 06 07 08 09 1	0A 0B 0C 0D 0E 0F							
PROGRAM MEMORY:									
000000 A7 EF 31 F0	12 00 XX XX XX XX X	× × × × × × × × ×							
Ready		Copyright (C) Microchip Technology Inc., 2004 🏑							

6.8 Now you have successfully installed the AKKON operating system

The AKKON USB CNC Controller board is ready to run

7 Start AKKON

7.1 Press the red connection button

🕷 AKKON D	esk (Beta	Version)												
File Tool defi	initon Opti	ons Tools	Info												
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· 300 ·	÷ 													37	Z
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· 200 ·	• •													8	Tool T00: Gravierstichel, d=4.00mm, F200.00mm/min
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1														·	<u><</u>
Mx: XXXXX	My: XXXXX	Mz: XXX	XX Prog	gram loadi	ng progre	ess:		0%							disconnected from AKKON CNC controller

7.2 AKKON

∦ akko	N Desk	(Beta '	Version	ı)															
File Tool	definiton	Optio	ns Tool	ls Inl	fo														
0 = :	🗄 🙎	8		٠	X	4													
- 4	00 				1	2			8	2	5	1	2	2		22	Grid:	25 mm	Feed Speed
- 3	50 +																		
. 3	00 1																		
- 2	50 T	2																	. Speed
	то																		Feed [mm/min] State manual
+ 2	00 † 1																		Tool T00: Gravierstichel, d=4.00mm, F200.00mm/min
	50 +																		Image: Set Way Set Way Set Way Month Set Way </td
*																			Auto Start Paus Stop MID Sim M03 Reset
- 1	00 ¹																		
er f	1 50 +																		
- 63																			Connected with AKKON USB CNC-Controller
	n		- + 50		! 100		µ 150		+- 200		- + - 250		 300		 350		- + 400	4	manuariedu comiguration successivity Wilkerh ID Controller. 50
•																			▶ < >
Mx: 0	My:	D	Mz: 0		Progra	m loadir	ng progr	ess:		0%									connected to AKKON CNC controller

Now you are ready to use the AKKON USB CNC Controller Board.

Please proceed with the If you have not already installed your CNC hardware, pleas read the **"Bedienungs- und Installationsanleitung ", TN005.**

8 Disclaimer:

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