

# /WinNC Starting Information



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# **W: Accessory Functions**

#### Activating accessory functions

According to the machine (turn/mill) the following accessories can be taken into operation:

- automatic tailstock
- automatic vice/clamping device
- Air purge system
- Dividing attachment
- Robot interface
- Automatic doors
- Win3D view simulation software
- DNC interface

The accessories are activated with EMConfig.

## **Robotic Interface**

The robotic interface is used to connect the concept machines to an FMS/CIM system.

The most important functions of a concept machine can be automated via the inputs and outputs of an optional hardware module.

The following functions can be controlled via the robotic interface:

- Program START / STOP
- Door open / closed
- Quill clamp / back
- Clamping device open / closed
- Feed STOP

Note:

# -

The functionality of the Win3D-View is depending on the control software that is used.

#### **Automatic doors**

Preconditions for activation:

- The auxiliary drives must be switched on.
- The main spindle must be still (M05 or M00) this also means that the run-out phase of the main spindle must be ended (program dwell time if required).
- The feed axes must be still.
- The tool changer must be still.

Behavior when automatic doors active:

#### Opening door

The door can be opened manually, via the robot interface or DNC interface.

In addition, the door opens when the following commands are executed in the CNC program:

- M00
- M01
- M02
- M30

Closing door:

The door can be closed by manually pressing the button via the robot interface. It is not possible to close the door via the DNC interface.

#### Win3D View

Win3D View is a 3D simulation for turning and milling, which is offered as an additional option for the WinNC product. Graphical simulations of CNC controls are primarily designed for industrial practice. The Win3D View screen representation goes beyond the industrial standard. Tools, raw parts, clamping devices and the processing steps are represented extremely realistically. The programmed movement paths of the tool are checked by the system for a collision with clamping device and raw part. A warning message is issued when there is danger. This makes possible to have understanding and control of the manufacturing process already on the screen.

Win3D View is used to visualize and prevent costly collisions.

Win3D View offers the following advantages:

- Extremely realistic representation of workpiece
- Tool and clamping device collision control
- Cut representation
- Zoom functions and turning of views
- Representation as solid or wireframe model





# Tool modelling with the 3D-Tool Generator

With the 3D-ToolGenerator you can modify existing tools and create new tools.

📊 3DView Tool Generator	
Twist drill 2mm         Geometry       General       Machines       1         Drill type selection         Drill       2       Image: Colour       3       8,000         Holder diameter (HD)       3       8,000       1       1         Holder colour       192,192,192       Shank diameter (SD)       2,000       2,000       2,000       1       2       1       <	4
Twist drill 2mm	7     8     9     10       <
EMCO GmbH - V3.05	36/93* 14:55:54

- 1 Register cards for "Geometry", "General" and "Machines" for drilling and milling tools and "Tip", "Holder", "General" and "Machines" for turning tools.
- 2 Selection of tool types
- 3 This window enables the input of tool dimensions.
- 4 Graphical support for the tool dimensioning
- 5 Choice of tools for the selected tool type
- 6 Choice of tool types (here: only drill)
- "Turning tool", "Milling tool" and "Drilling tool" reduce the tool choice to the respective type (here: only drilling tools are listed).
  - "All" does not reduce the tool choice.

- 7 Buttons for quickly browsing through the tools |<< | go to first tool in the group
  - >>| go to last tool in the group
  - < go forward in the list by one tool
  - > go back in the list by one tool
- 8 Button to delete tools
- 9 Button to create new tools
- 10 Button to copy tools
- 11 Button to save changes
- 12 Button for 3D visualization
- 13 Button to sort tools
- 14 Button to terminate the 3DView tool generator





#### Generating a new tool

- Set the selection for tool types to "Selection all".
- Press the button to generate new tools.
- Select the tool name (1), the tool type (2) and the measurement system (3).

OK

• Confirm the entries with "OK".

٠	Define	all	tool	dimensions.
---	--------	-----	------	-------------

• Define all tool colours (see "select tool colour").

Drill type selection	1		
Drill Holder colour Shank diameter (D) Tool diameter (D) Tool diameter (D) Angle (TA) Edge length (FL) Tool length (FL) Total length (OL) Cutter colour	8,000 192,192,192 2,000 2,000 120,000 50,000 55,000 60,000 0,2884	S	L

- Store
- Confirm the entries with "Store".



#### Copying a tool

- Call the tool you wish to copy.
- Press the button to copy tools.
- Enter the new tool name.
- Confirm the inputs with "Save".

#### Changing an existing tool

- Call the tool you wish to change.
- · Change the values.
- · Confirm the entries with "Store".
- Choose tool colour ? × Basic colors: our" will appear. Custom colors: Red: 100 Hue: 160 Green: 100 Sat: 240 Color|Solid Define Custom Colors >> Lum: 167 Blue: 255 ΟK Add to Custom Colors Cancel · Confirm the entries with "OK". OK

Сору

Store

#### Selecting a tool colour

- Make a double click with the mouse pointer in the coloured box of the tool colour. The window "Select tool col-
- Select the required colour.



#### Visualizing a tool

• Press the button for 3D visualization.

#### **Rotating image**

At any time you can rotate the simulation image in one plane as required by pressing and holding the left mouse button. For movements around the Z axis press "Shift" + left mouse button + mouse movement to the right or to the left.

#### Zooming

You can zoom the tool simulation image in or out by means of "Ctrl" + left mouse button + mouse movement upwards or downwards

#### Shifting

Press the right mouse button + mouse movement in the required direction to shift the simulation image.

#### Sorting function

The sorting sequence makes it possible to display the tools being sorted according to tool types. Every time the sorting sequence is changed, the selection for tools will be updated.

• Press the button for sorting.

	Sort
Sort order	×
Turning Milling	
Drilling	
ОК	Cancel
	OK

• Define new sorting sequence.

• Confirm the entries with "OK".



# **DNC** interface

The DNC interface (Distributed Numerical Control) enables the control system (WinNC) to be controlled remotely via a software protocol.

The DNC interface is activated with EMConfig, by indicating TCP/IP or a serial interface for the DNC.

During the installation of the control software, the DNC interface is enabled and configured, and can be reconfigured with EMConfig later on.

The DNC interface creates a connection between a higher-level computer (production control computer, FMS computer, DNS host computer, etc.) and the control computer of an NC machine. After activation of the DNC drive the DNC computer (Master) takes over control of the NC machine (Client). The DNC computer takes over complete control of the manufacturing. The automation fittings such as door, chuck (collet), quill, coolant, etc. can be controlled from the DNC computer. The current status of the NC machine is visible on the DNC computer.

The following data can be transferred or loaded via the DNC interface:

- NC Start
- NC Stop
- NC programs \*)
- Zero point shifts \*)
- Tool data \*)
- RESET
- Approach reference point
- Periphery control
- Override data

The DNC interface can be operated with the following CNC control types:

- SINUMERIK Operate T and M
- FANUC 31i T and M

Further details of the functions and the DNC protocol can be found in the accompanying product documentation.

If the DNC interface is operated with TCP/IP, it will wait for incoming connections on port 5557.

\*) not for SINUMERIK Operate and FANUC 31i



# **X: EMConfig**

#### Note:

The settings which are available in EMConfig are depending on the machine and the control that is used.

#### General

EMConfig is a configuration software for WinNC. EMConfig helps you to alter the settings of WinNC.

The most important settings are:

- Control language
- System of measurement mm inch
- Activate accessories
- Selection of interface for control keyboard

Using EMConfig you can also activate diagnostic functions in case of troubles - that way you get help immediately.

**B**.

Safety-related parameters are protected by a password. They can only be activated by set-up technicans or by technical support representatives.



🍗 EMConfig (Heidenhain TNC 640 M	lill)		_ 🗆 ×
File ?			
New Save Password Info			
Configuratio     Inputde     The Chaotic tool change system	То	olButtons	
<ul> <li>Easy2control</li> <li>Keyboard</li> <li>Interpreter</li> <li>error analysis</li> <li>EmConfig</li> </ul>	EMConfig	The tool button for EmConfig may be activated	
E-EMLaunch - EMLaunch - ToolButtons B- 3D-View - Simulation (2D/3D)	3DView Tool Generator	<b>v</b>	
	EMCO License Manager	<b>v</b>	
	Emco_Remote_Monitoring	<b>v</b>	
	The tool buttons shown in EMLaunch may be activated.		Å
	J		

The following ToolButtons for EMLauch can be activated or deactivated, e.g.:

- EMConfig
- 3DView Tool Generator
- EMCO License Manager
- Emco\_Remote\_Monitoring

EMLaunch configuration





control-choice		×
Please choose a control. CAMConcept Mill CAMConcept Turn Fagor 8055 Mill Fagor 8055 Turn Fanuc_i Mill Fanuc_i Turn HMIoperate Mill HMIoperate Turn		A
	ОК С	Cancel

Selection box for control type

# How to start EMConfig

Open EMConfig.

In case several control types are installed, a selection box will appear on the screen.

Select the required control type and click OK.

The following settings are only valid for the selected control type.

The window for EMConfig appears on the screen.

🐂 EmConfig (Fanuc_i Turn)		
File ?		
New Save Password Info		
Configuration     Inputdevices     Brasy Control     Keyboard     Interpreter     error analysis     EmConfig     Brittaunch     B: 30-View	EmConfig-language System of measurement	EmConfig English Chinese German French Dutch Italian Russian Swedish Spanish Czech Hungarian metric
	General settings for EmConfig	 
	J	li.

Here you can change the language of EMConfig. In order to activate the settings, restart the program.

Change the language of EMConfig





## How to activate accessories

When you install accessories on your machine, you need to activate them here.

🎠 EmConfig (Fanuc_i Turn)			
File ?			
New Save Password MSD-di	k Info		
<ul> <li>configuration</li> <li>Inputdevices</li> <li>To the path little</li> </ul>		Accessories	
<ul> <li>resuposibilities</li> <li>error analysis</li> <li>Machine-Data</li> </ul>	Automatic machine door		
⊕- Axis data ∋- PLC-machinedata	Automatic vise		
Accessories	Air blast unit		
····· EmConfig	Pneumatic clamping device		
	Robotics interface		
	Activate automatic machine door		
	Activate automatic filatiline duor.		
			.;;

Activate accessories

# **High Speed Cutting**

On activating this checkbox, High Speed Cutting is turned on.

FmConfig (Sinumerik 840D Turn)	
File ?	
New Save Password MSD-dis	<b>?</b> k Info
<ul> <li>□- configuration</li> <li>□ Inputdevices</li> <li>□ DNC-Interface</li> <li>□ Data transfer</li> <li>□ Incremental JOG</li> <li>□ converter</li> </ul>	High Speed Cutting
<ul> <li>⊖ error analysis</li> <li>⊖ Machine-Data</li> <li>↓ → High Speed Cutting</li> <li>⊖ Axis data</li> <li>→ Feed data</li> <li>→ PLC-machinedata</li> <li>⊕ 30-View</li> <li>→ EmConfig</li> <li>⊕ EmLaunch</li> </ul>	High Speed Cutting
	Automatic model pole adjusting
	On activating this checkbox, High Speed Cutting is turned on

By using high speed cutting, the setting of the axis controller is adjusted. This gain is only effective until the programmed feed rate of 2500 mm/min and allows contour faithful retraction of the tool path and generating of sharp edges.

If the feed is set up to higher than 2500 mm/min, it is automatically reset to the normal operating mode and sanded and rounded edges are created.

Activate High Speed Cutting



## Easy2control on screen operation

#### Note:

If Easy2control is used after demo version without the hardwaredongle or a valid license key, the controls are diactivated and an appropriate alarm is output by the controller. However, the virtual keyboard is displayed completely.

HMIoperate singlelicense (external programming station)
Default-language Please choose the default language for HMIoperate.
The chosen language will be selected when the control is started. Only one language can be choosen.
GE Easy2control - Onscreen Keyboard
Activate Easy2control?
□ RL □ CZ Ja Nein □ □ C <sup>1</sup> ····
InstallShield

Activating Easy2control

When installing the software WinNC you will be prompted to activate Easy2control. In order to use the Software for a programming station without restriction, the supplied dongle or a valid license key must be connected to a free USB port.

For lathes and milling machines of the Concept series 55/60/105 with connected Easy2operate keyboard no license dongle is necessary.

Using Easy2operate on a programming station requires either

- a license dongle, or
- a license key, or
- a connected Easy2Operate keyboard.

## Easy2control settings

This mask allows you to enable or disable Easy-2control and make settings.

#### http://www.comfig (HMIoperate Turn) 8 - configuration Easy2control Inputdevices Easy2control ~ Keyboardarea Keyboard Contour programming routir Easy2control active 5 Save Position error analysis EmConfig EmLaunch Simulation (2D/3D) Maximize main window V Sound file Browse. 100 Key overlay Feed-override active activ dial allways controllable v ... dial not controllable via inactive standard eed-overrid . dial controllable via Settings for virtual keyboard -

# Dial feed-override and dial speed-override:

- Aktive: dial always controllable via mouse/touchscreen (even with available hardware- version).
- Inaktive: dial not controllable via mouse/touchscreen.
- Standard: dial controllable via mouse/touchscreen when no hardware-version is available.

Easy2control settings

Danger:



Make sure the machine room camera is placed properly in the work area that collisions with the tool turret and the axes are avoided.

#### Machine room camera

The accessory machine room camera is available for all controls which support Easy2control.

EmConfig (HMIoperate Turn)*			
File ?			
New Save Password Info			
configuration Inputdevices  Easy2control Keyboard		Easy2control	
- Interpreter - Contour programming routine - error analysis - EmConfig - EmLaunch	Easy2control active	V	
Bir 3D-View └─ Simulation (2D/3D)	Save Position	<b>v</b>	
	Maximize main window	<b>v</b>	
	Activate camera	F [If activated the camera specific functionalities are available	
	If activated the camera specific functio	nalities are available through the sidebar	
		li li	

Please refer to chapter Y "external input devices" for more information about the installation guide for the the camera.

Attention: The camera may not be operated without the supplied waterproof case. If the camera is operat-

ed without the waterproof case it may be damaged by coolant and chips.

Activate camera



# Machinekeys on PC keyboard

[ EmConfig (HMIoperate Turn)*			<u>- 🗆 ×</u>
File ?			
New Save Password MSD-disk Info			
Configuration     Insutievices     Easy 2control     Ac setting data     Keyboard     Interpreter     Contour programming routine     error analysis     Machine-Data     Axis data     Preed data     Preconfig     EmConfig     EmConfig     EmLaunch     B: 30-View     Simulation (2D/3D)	Inp Select inputdevice type	Utdevices	
	machinekeys on PC-keyboard	activate 🗸	
	activate or deactivate machinekeys on PC-keyboard		*
	,		

You can activate or deactivate the machinekeys on the PC keyboard.

The setting is available for the following controls:

- Sinumerik Operate
- Fanuc 31i
- Emco WinNC for Heidenhain TNC 640

Setting for the machinekeys



#### How to save changes

After the settings, the changes must be saved.

Select "Save" or click on the icon.

and a	
Ŋ,	

Note: Input fields highlighted in red indicate inadmissible values. Inadmissible values are not saved in EMConfig.

After saving the changes, create a machine data floppy disk (MSD) or a machine data USB flash drive.

## How to create machine data floppy disk or machine data USB flash drive



After having changed the machine data, the machine data floppy disk or the machine data USB flash drive must be in the appropriate drive. Otherwise your changes cannot be saved and get lost.

# **Y: External Input Devices**

# Easy2control On Screen operation

Easy2control adds a range of attractive applications to the successful interchangeable control system used in EMCO training machines. Suitable for use in machines and simulation workplaces alike, it displays additional control elements directly on the screen and, when used together with a touchscreen monitor, provides the ideal input interface.

# Scope of supply

The software for Easy2control is part of the control software.

Single license:	Best. Nr.: X9C 120
Multiple license	Best. Nr.: X9C 130

Technical data for the screen:

16:9 Full-HD Monitor (1920x1080) at the minimum

Currently available controls (T and M):

- Sinumerik Operate
- Fanuc 31i
- Emco WinNC for Heidenhain TNC 640 (M only)
- Emco WinNC for Heidenhain TNC 426 (M only)
- Fagor 8055

A connected Easy2operate keyboard unlocks Easy2control even without a separate license.

Note:

If a Full HD monitor is used without touchscreen function, the control is operated just with mouse and keyboard.



A.A.

# **Operating areas**

## Sinumerik Operate







Machine control panel

# Fanuc 31i



Machine control panel



Controller-specific operation

Control operation complete



Control operation complete

# **Emco WinNC for Heidenhain TNC 640**



Machine control panel

#### Controller-specific operation

# Control operation complete

# Heidenhain TNC 426



Machine control panel

Controller-specific operation

Control operation complete



# **Fagor 8055**



8 9 X 7 Z 4 5 6 F 1 2 3 S 0 Т 1 ALT 1 222 

Refer to the chapter "Key Description" of the respective control description for operation and key function.

- MAN Note: The screen display, based on customer-specific configurations, may look different.

#### Machine control panel

Control operation complete



# Machine room camera

This accessory is no longer available!



Activating WLAN



## Installing the camera

#### Requirement

USB WLAN adapter for the machine.

#### Setup WLAN

- press NEXT (1) or PREV (2) until an operating mode appears which supports WLAN, e.g. MOVIE. The symbol for WLAN (3) appears in the corner on top left.
- Open EMConfig and activate the camera.
- Connect the WLAN adapter to the USB port to the machine.
- Open windows network and sharing centre (4).
- Select the wireless network, enter the password and finish the connect setup. The name of the network (5) and the password are supplied together with the camera.
- Open the control software with activated Easy-2control.



## Operating the camera

• Click the Easy2control logo to open the sidebar.

#### Functions of the sidebar

- Click the camera symbol to open the preview window (2).
- Open the operating manual of the control.
- Option for the second screen:
   duplicate screen
   screen extention to two monitors
- Creates a screenshot of the control in \*.png format.



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O.

Operating the machine room camera



#### Attention:

The camera may not be operated without the supplied waterproof case.

If the camera is operated without the waterproof case it may be damaged by coolant and chips.

# **Z: Software Installation Windows**

## System prerequisites

#### Machine with integrated control PC

- All Concept machines
- Machines that were converted to ACC
- MOC with Windows 7 or higher (32 / 64 Bit)

#### Machines with included control PC and programming stations

- Windows 7 or higher (32 / 64 Bit)
- free hard drive space 400 MB
- Programming station: 1\*USB, machine version: 2\*USB
- TCP/IP-capable network card for machine version)

#### Recommended system prerequisites

- PC Dual Core 2 GHz
- Working memory 4 GB RAM
- free hard drive space 2 GB
- Interface:

easy2operate: 1x USB for machine keyboard Machine connection:

1x LAN (cable connection), only for machine licence

optional: LAN or WLAN for network connection

# Software installation

- Start Windows
- Start the installation application on the USB stick or your download file.
- Follow the instructions from the installation guide.

For more informations regarding software installation and / or software update please refer to the documentation "short description for WinNC update installation".

Note:

PC TURN and PC MILL have to be equipped with the conversion kit for ACC in order to operate EMCO WinNC.

## Variants of WinNC

You can install EMCO WinNC for the following CNC control types:

- WinNC for SINUMERIK Operate T and M
- WinNC for FANUC 31i T and M
- HEIDENHAIN TNC 426
- Emco WinNC for HEIDENHAIN TNC 640
- FAGOR 8055 TC and MC
- CAMConcept T and M

In case there are several control types installed, a menu appears when starting EM Launch from which you can select the desired type.

The following versions can be installed from the WinNC variants:

• Demo licence:

The demo licence is valid for 30 days after the first use. 5 days before the demo licence expires, you can enter another valid licence key (see licence manager)

• Programming station:

Programming and operation of the appropriate CNC control type is simulated by WinNC on your PC.

• Single user licence:

Authorizes to external programming of CNCcontrolled machine tools on one PC workstation.

• Multi-user licence:

Authorizes to external programming of CNCcontrolled machine tools. The multi-user licence can be installed on an unlimited number of PC workstations or in a network within the institute registered by the licensor.

- Educational licence version: Is a time-limited multi-licence especially for schools and educational institutes.
- Machine licence:

This licence allows to directly operate a PCcontrolled machine (PC TURN, Concept TURN, PC MILL, Concept MILL) of WinNC as if it was operated by an ordinary CNC control.



Removal and installation of the network card must only be carried by skilled personnel. The computer must be disconnected from the power supply (pull the power plug).

#### Note:

Danger:



During a machine installation one networkcard is reserved exclusively for the control of the machine.



Connection of the machine to the PC

# Network card (ACC)

#### for: Conce

Concept Turn 55 Concept Mill 55 Concept Turn 105 Concept Mill 105 Concept Turn 60

Only for machines with ACC kit: PC Turn 50 PC Mill 50 PC Turn 100 PC Mill 120

Network card type: TCP/IP compatible network card

Setting the network card for the local connection to the machine:

IP address: 192.168.10.10 Subnetmask 255.255.255.0



In case of problems observe the instructions of your operating system (Windows help).

#### Instructions:

If the network connection to the machine could not be established at the start, the above adjustments are to be made.

# emco



Selection menu EMLaunch







# Starting WinNC

If you choose AUTO START YES during the installation of your machine version, WinNC starts automatically after switching on the PC.

Otherwise proceed as follows:

- 1 Switch the machine on.
- 2 Wait for 20 seconds to ensure that the machine operating system is running before the network connection to the PC is established. Otherwise it is possible that no connection can be established.
- 3 Switch the PC on and start Windows.
- 4 Click on the start symbol at the bottom.
- 5 Select program, the installed folder, and start WinNC Launch.
- 6 The start image will be shown on the screen. The licence holder is registered in the start screen.
- 7 If you have only installed one CNC control type, it starts immediately.
- 8 If you have installed several CNC control types, the selection menu appears.
- **9** Select the desired CNC control type (use cursor buttons or mouse) and press ENTER to start it.
- 10 If you use the control keyboard, you can select the desired CNC control type with the cursor buttons or mouse and start with the "NC-Start" button.
- **11** Tool Buttons (1) can be configured in EMConfig.

## **Terminating WinNC**

- 1 Switch off auxiliary drive with AUX OFF. Only for machine places, not for programming stations.
- **2** By simultaneously pressing these buttons WinNC for Sinumerik Operate will be terminated specifically.

This corresponds to Alt+F4 on the PC keyboard.



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DHCP disabled



IP-address configuration



Setup the connection to the machine

# Checks by EmLaunch

In the ACC / ACpn-machine version EmLaunch is checking if a machine is available:

During the network configuration, the IP address is not configured correctly and DHCP for automatic configuration of the IP address is disabled. Connection to the machine is not possible.

It is attempt to configure the IP address automatically via DHCP.

The IP configuration is correct and the connection to the machine is checked. Once the machine is available, the selection of the available controls is displayed.





Conncection to the machine is OK

The connection to the machine is completed and the corresponding control can be started.



Name	1	
Arldross	-	
Address		
Icensekey		
	Remaining days: 30	

Input window licence key enquiry

User Accour	t Control	
Do you want to allow the following program to make changes to this computer?		
j.	Program name: lichmioperateq5.exe Verified publisher: <b>EMCO GmbH</b> File origin: Hard drive on this computer	
Show	details Yes No	
	Change when these notifications appear	

Run EMCO licence manager upon licence key input

K EMCO License Manager	×
Select a Product	
HMIoperate	•
Enable License Key Reentering	

EMCO Licence Manager

# Licence input

After the installation of an EMCO software product, an input window appears during initial operation and asks for name, address and licence key. If an Emco USB-Stick is connected, this data is taken from the USB-Stick.

UAC dialogue appears upon saving licence input. In order to complete the licence input sucessfully, the dialogue must be confirmed.

This input window appears for every software product that is installed. In case a demo licence is desired (see page Z1), please select "DEMO". Then the input window reappears only 5 days before the expiry date of the demo licence. A subsequent input of a licence key is also possible via the licence manager (see licence manager below).

### Licence manager

For the release of additional function groups of existing EMCO software products it is necessary to enter a new licence key (exception: demo licence).

The EMCO Licence Manager enables the input of further new licence keys. For this purpose select the new product in the selection window and confirm the input.

The next time you start your control software an input window appears and asks you to enter name, address and licence key.

Please note that the licence key is asked for each software product individually. The picture on the left shows e.g. the input prompt for the licence key for the software product "HMIoperate".

# emco