SINUMERIK 840D/840Di/810D

Short Guide

Operation 02.01 Edition

User Documentation

SINUMERIK 840D/840Di/810D

Short Guide
Operation

Valid for

Control	*Software version*
SINUMERIK 840D	6
SINUMERIK 840DE (Export version)	6
SINUMERIK 840Di	1
SINUMERIK 810D	4
SINUMERIK 810DE (Export version)	4

02.01 Edition

SINUMERIK® Documentation

Printing history

Brief details of this edition and previous editions are listed below.

The status of each edition is shown by the code in the "Remarks" column.

Status code in the "*Remarks*" column:

A .... New documentation
B .... Unrevised reprint with new Order No.
C .... Revised edition with new status.
If factual changes have been made on the page since the last edition, this is indicated by a new edition coding in the header on that page.

Edition	**Order No.**	**Remarks**
11.94	6FC5298-0AA10-0BP0	A
04.95	6FC5298-2AA10-0BP0	C
03.96	6FC5298-3AA10-0BP0	C
08.97	6FC5298-4AA10-0BP0	C
12.98	6FC5298-5AA10-0BP0	C
02.01	6FC5298-6AA10-0BP0	C

This manual is included in the documentation on CD-ROM (**DOCONCD**)

Edition	**Order No.**	**Remarks**
08.01	6FC5298-6CA00-0BG1	C

Further information is available on the Internet under:
http://www.ad.siemens.de/sinumerik

This publication was produced with WinWord V8.0 and Designer V7.0.

Introduction


HMI Embedded


HMI Advanced

Validity

Unless stated otherwise, this operator's guide applies to the SINUMERIK 840D/840Di/810D controls

How to use this booklet

This booklet is an operator's guide describing all the main programming steps.

The aim is to provide the operator with some quick help and a memory aid especially for commands that are used infrequently or to offer a quick reference on various parameters.

This guide therefore has little text!

First familiarize yourself with the symbols below so that you understand them better whenever they occur on the following pages.

The symbols


Gives you a tip or background information


Screen displays


Operation via softkeys


Input through the operator keyboard

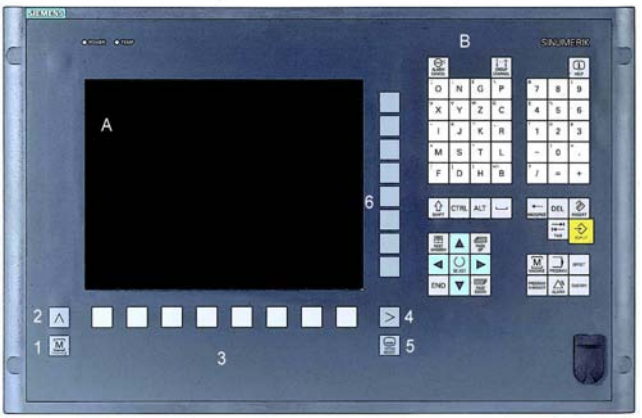

Input through the machine control panel

List of Sections

1. Operator Control

1.1 Key assignments slimline operator panel OP 010

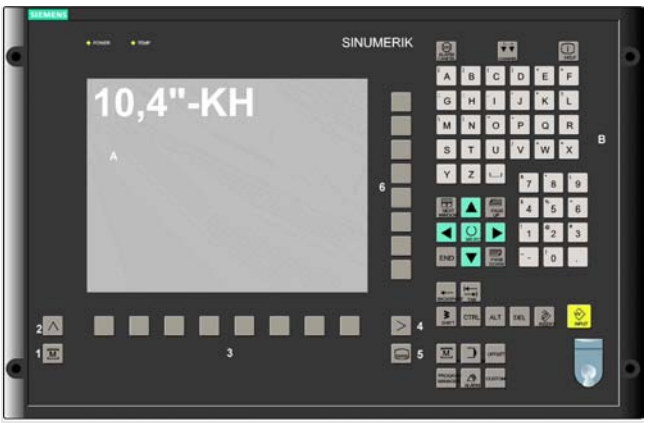
HMI Embedded HMI Advanced



A	Display
B	Alphanumeric keypads Correction/cursor keys
1	Machine area key
2	Recall
3	Soft bar (horizontal)
4	ETC key (menu extension)
5	Area changeover key
6	Soft bar (vertical)

1.2 Key assignments slimline operator panel OP 010C

HMI Embedded HMI Advanced



A	Display
B	Alphanumeric keypads Correction/cursor keys
2	Machine area key
2	Recall
3	Soft bar (horizontal)
4	ETC key (menu extension)
5	Area changeover key
6	Soft bar (vertical)

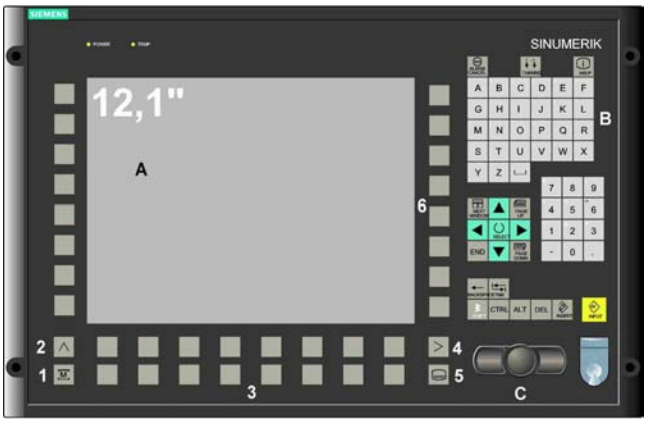
1.3 Key assignments slimline operator panel OP 010S

HMI Embedded HMI Advanced

A	Display
1	Machine area key
2	Recall
3	Soft bar (horizontal)
4	ETC key (menu extension)
5	Area changeover key
6	Soft bar (vertical)

1.4 Key assignments slimline operator panel OP 012

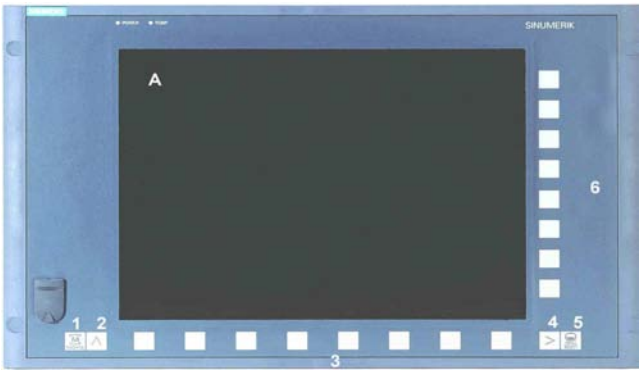
HMI Embedded HMI Advanced



A	Display
B	Alpahnumeric keypads Correction/cursor keys
C	Mouse and mouse keys
1	Machine area key
2	Recall
3	Soft bar (horizontal)
4	ETC key (menu extension)
5	Area changeover key
6	Soft bar (vertical)

1.5 Key assignments slimline operator panel OP 015

HMI Embedded HMI Advanced



A	Display
1	Machine area key
2	Recall
3	Soft bar (horizontal)
4	ETC key (menu extension)
5	Area changeover key
6	Soft bar (vertical)

1.6 Key assignments operator panel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Meaning of the key symbols:

Operating area "Machine"


Return jump


Softkey expansion

Area changeover

Acknowldgement alarm

Switch over channel

Information

Select window


Move cursor

Page up

Delete character


Blank

Selection key

Edit/Undo

Shift

End of line

1.6 Key assignments operator panel


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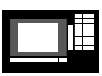
PAGE DOWN	Page up
INPUT	Input (accept)
ALARM	Overview alarms
CUSTOM	Customers
PROGRAM	Program
available soon	
OFFSET	Tool offset
available soon	
PROGRAM MANAGER	Program management
available soon	

For keys with double assignment:

SHIFT *	Switchover with "Shift" key
CTRL	Ctrl key

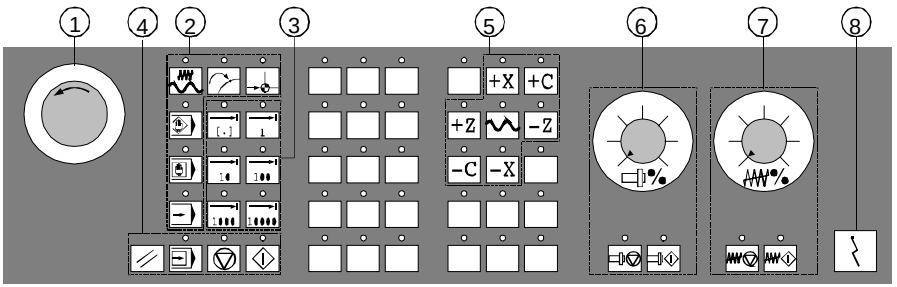


Key combinations:

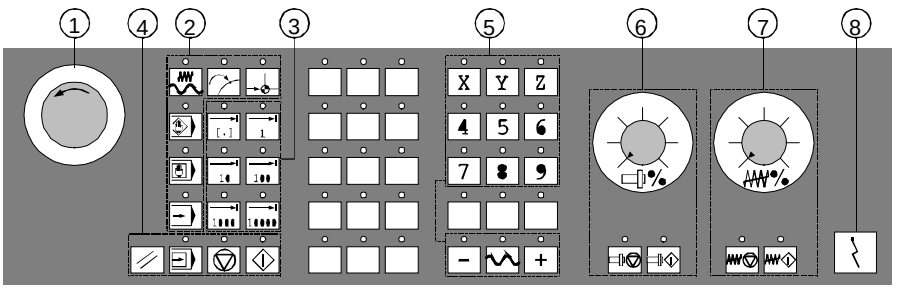
CTRL + NEXT WINDOW	Jump to program start
CTRL + END	Jump to program end
CTRL + Q + INPUT	Start PCU reset

1.7 Key assignments external machine control panel

HMI Embedded HMI Advanced



Machine control panel for turning machines



Machine control panel for milling machines

1	Emergency stop pushbutton
2	Mode and machine functions
	Jog — Jog
	MDA — MDA
	Auto — Automatic
	Teach In — Teach In

1.7 Key assignments external machine control panel


HMI Embedded


HMI Advanced

Repos

Ref

3 Incremental travel

4 Program control

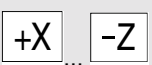
Reset

Single block

NC Stop

NC Start

5 Axis keys for turning machines



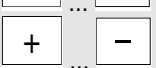
Axis keys (with direction)

Rapid traverse override

MCS/WCS

Axis keys for milling machines

Axis keys



Direction keys

Rapid traverse override

MCS/WCS

1.7 Key assignments external machine control panel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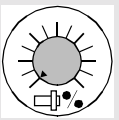
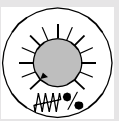
6 Spindle control


Spindle override

Spindle stop

Spindle start

7 Feed control


Feed/rapid traverse override

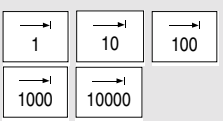
Feed stop

Feed start

8 Keyswitch

9 Incremental keys

Variable incremental dimensions



Preset incremental dimensions

1.8 Graphical user interface

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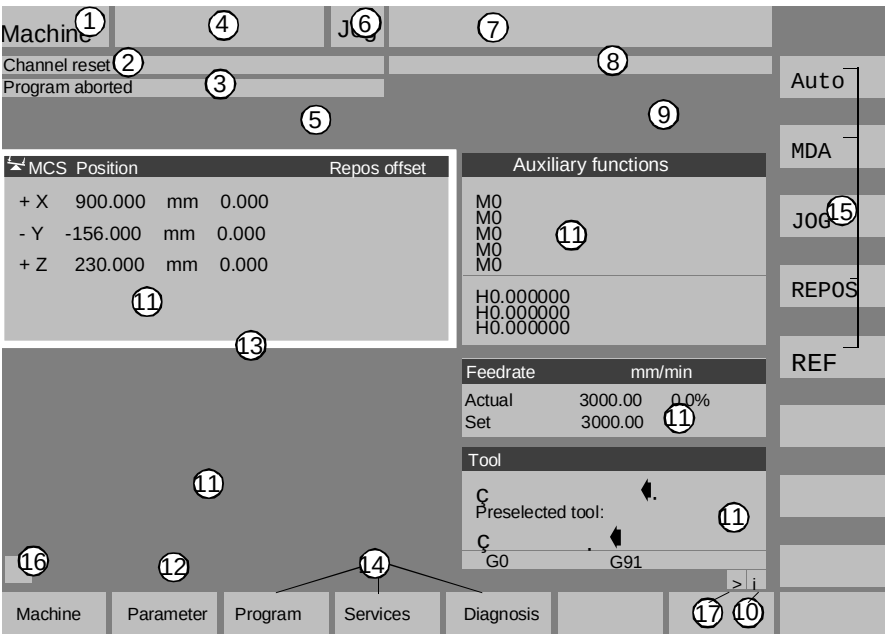

1	Operating area
2	Channel status
3	Program status
4	Channel and mode group
5	Alarm and message line

1.8 Graphical user interface


HMI Embedded


HMI Advanced

6	Mode
7	Program name
8	Channel operational messages
9	Channel status display
10	Information relating to the menu bar
11	Work windows and NC displays
12	Dialog line with notes for operator
13	Focus
14	Horizontal softkey bar
15	Vertical softkey bar
16	Recall
17	etc.

1.9 Operating areas

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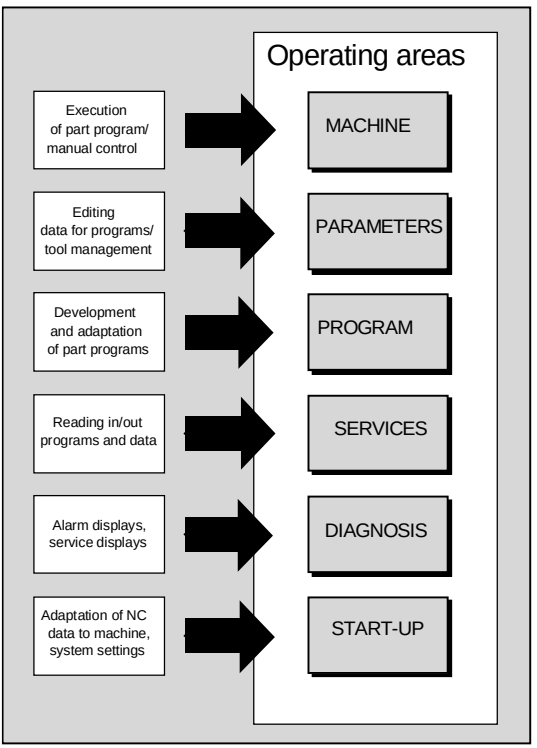
The standard functions in the control are organized into the following operating areas:



MENU SELECT

When you press the "Area changeover" key, the operating areas in the main menu appear in the horizontal softkey bar. You can use this key to switch from any menu to the main menu.

1.10 Operating principle

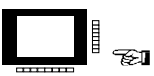

HMI Embedded


HMI Advanced

With HMI Embedded and HMI Advanced a range of key and softkey assignments is available with identical functions in all operating areas and menus (operating principle).

Area changeover:

Switch back from any menu to the main menu of your control.



Softkeys:

Horizontal softkeys:
These keys subdivide each operating area into further menu levels. Each horizontal menu item has a vertical menu bar/softkey assignment.

Vertical softkeys:
Assigned with functions for the currently selected horizontal softkeys.

1.10 Operating principle

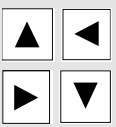

HMI
Embedded


HMI
Advanced

Navigation in the menu window:

Change menu windows:
Change the focus to the selected menu window.

Scroll in the menu window:
Scroll one screen page down or up.



Position cursor in the menu window:
Position the cursor at the desired point in the menu window.

1.10 Operating principle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Navigation in the directory tree:

Select directory/file:
Position the cursor on the desired directory/file.

Open/close directory:
Open or close the selected directory.

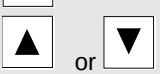
Close directory:
Close selected diectory.

Open file:
Open the desired file, e.g. if you want to edit the file in the ASCII editor (in this case the editor is opened automatically).

Select file (HMI Advanced):
Select the desired file.

Select several files (HMI Advanced):
Hold down the "Cursor Down" keys.

Select start of block.


or

Neighboring files are selected when you hold down the "Cursor Up" or "Cursor Down" keys.

1.10 Operating principle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HMI Advanced

Deselect selected files.

Cancel all selections.

Edit inputs/values:

If you want to edit inputs/values, the corresponding key is always displayed automatically on the right of the input field. The following input fields are available:

1. **Option fields** (radio buttons or check boxes): Activate or deactivate the option field.

2. **Input fields:**
Switch to input mode.

Enter the value or word (e.g. file name, type, etc.) on the numeric keypad.

You automatically switch to input mode if you first position the cursor on the input field.

Always confirm your input with the "Input" key. The value is accepted.

1.10 Operating principle


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HMI Advanced

You can use the "Toggle" key to select one of several default values.

3. **Selection list (HMI Advanced):**
Display the preselection of possible values.

Open selection list

Position the cursor on the desired values.

Always confirm your input with the "Input" key. The value is accepted.

Switch to the next value in the selection list without displaying the entire list.

1.10 Operating principle


HMI
Embedded


HMI
Advanced

Confirm/cancel input:

OK	**Confirm input:** Save the inputs and exit the current menu (you automatically return to the calling menu).
Cancel	**Cancel input:** Reject the inputs and quit the current menu (you automatically return to the calling menu).
	Reject the inputs and quit the current menu (you automatically move up one level).
	Clear the current input but remain in the current menu.

1.10 Operating principle


HMI Embedded


HMI Advanced

Operation with the mouse:

If you have installed a mouse, operation is facilitated as follows:

1 "click"

1 click means:
- Activate the menu window.
- Position the cursor on the desired input field.
- Select directory.
- Activate softkey.
- Activate/deactivate radio button/check box.
- Activate input field.
- Open selection list.

2 "clicks"

2 clicks mean:
- Accept value/input.
- Open directory.

2. Set-up

2.1 Approach reference point


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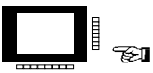
Caution:
Position the axes if they are not already located at a safe position.
Always follow the axis movements directly on the machine.
Ignore the actual value display as long as the axes are not referenced (the software limit switches are not effective).



Machine

Select "Machine" operating area.

Jog or MDA

Choose "Jog" or "MDA".

Select "Ref" machine function.

+X ... −Z

X ... 9 9th Axis

\+ ... −

Turning machine:
Traverse axes.

Milling machine:
Select axes and

traverse axes.

Stop axis before reference point is reached.

2.2 Enter tool offsets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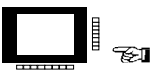
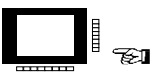
HMI Advanced



Parameter	Select "Parameter" operating area.
Tool offset	Select "Tool offset" menu.



Choose the desired function:

T no. +	Select tool (T no.).
T no. -	
D no. +	Select tool edge (D no.).
D no. -	
Delete	Delete tool/tool edge
Go to	Find tool
Overview...	List existing tools.
New...	Create new tool/tool edge.

Enter the new values.

2.3 Calculate tool offsets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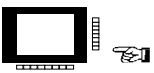
HMI Advanced



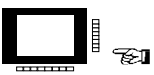
Parameter

Select "Parameter" operating area.

Tool offset

Select "Tool offset" menu.

Position cursor on desired tool parameter.



Determine compensa.

Select axis and enter reference value.

Calculate

The current position and the reference value of the selected tool parameter are calculated automatically.

2.4 Enter/alter zero offset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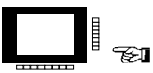
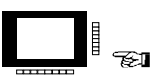


Parameter		Select "Parameter" operating area.
Zero offset		Select "Overview of settable zero offsets" menu.

		Select zero offset: Changes to the defined zero offsets of the next or previous axis.
Axes +		
Axes –		
Offsets	Rotation, scal., mirr.	Change display mode of the currently displayed zero offset. The display shows either the absolute offsets or the proportional values of rotation, scaling or mirroring.



	Enter/change zero offset:
Basic ZOs	Display all the defined basic zero offsets.
Sett. ZOs	Display all the defined settable zero offsets.

2.5 Enter/alter zero offset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Position the cursor on the desired field and enter/alter the value.

Please note:
Changes in the zero offset are updated at entry.

2.5 Scratching method/determine zero offset


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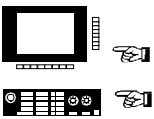

Machine	Select "Machine" operating area.
	Select "Jog" mode.
Scratching	Active level, active zero offset and active tool are selected.
	Select axis which shall be traversed, with the cursor.
X + 	Traverse axis to the workpiece, enter desired set position and confirm with "Input". The offset is calculated.
OK	With "OK" all the values are entered into the selected zero offset.

Please note:
The calculation of the offset always refers to the current workpiece coordinate system (WCS).

In order to take account of the tool geometry, position the cursor in the column "Geometry + wear" on the axis which shall be traversed and select with "Toggle" key, how the tool offset shall be calculated.

2.6 Program the setting data


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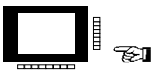
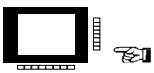


Parameter

Select "Parameter" operating area.

Setting data

Select the "Setting data" menu.



Define operating states using setting data:

Work area limit.
- Change working area limitation.

Jog data
- Change jog data.

Spindle data
- Change spindle data.

Feedrate DRY
- Change dry run feedrate for DRY test mode.

Starting angle
- Change starting angle for thread cutting.

Misc.
- Display miscellaneous setting data.

Protection zones
- Choose level for protection zone.

2.6 Program the setting data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Position the cursor on the desired field and change the value, or

select a new value using the "Toggle" key.

3. Manually Controlled Operation

3.1 Jog/Jog Inc mode


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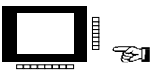


Machine — Select "Machine" operating area.

Jog — Select "Jog" mode.

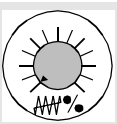
"Reference point approach" is deactivated.

+X ... -Z — **Turning machine:** Traverse axes.

X ... 9 (9th Axis) — **Milling machine:** Select axis and

\+ ... − traverse.

The traversing velocity is stored in the "setting data".


If necessary, use the override to set the velocity.

Rapid — If necessary, move axes with rapid traverse.

3.1 Jog/Jog Inc mode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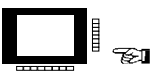
Select/enter increment value for traversing position ("Inc"):

1 ... 10000

Traverse axes in defined increments, or

[VAR]

Traverse axis in selected increment value.



Inc

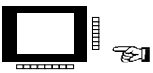
\+ .bzw.. −

Enter desired increment.

3.2 MDA mode


HMI Embedded


HMI Advanced



Machine

Select "Machine" operating area.

MDA

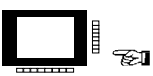
Select "MDA" mode.

In "Teach In" mode, it is only possible to insert blocks at points in the program which have not yet been executed.

Enter NC block (one or several consecutive program blocks).

Confirm input.

Execute NC block.



MDA-Prog. sichern

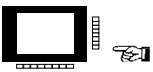
Save program in MDA buffer.

If no program name is entered, the program is automatically stored in the MDA buffer with the name OSTORE.MPF (HMI Embedded) or MDAX.MPF (HMI Advanced).

3.3 Teach In mode


HMI Embedded


HMI Advanced



Machine — Select "Machine" operating area.

MDA — Select "MDA" mode.

Select "Teach In" submode.

In "Teach In" mode, it is only possible to insert blocks at points in the program which have not yet been executed.

1. Manual positioning:

Turning machine:
Traverse axes.

Milling machine:
Select axis and

traverse.

Save position values

The axis name and the traversed path are displayed in the "Teach In program" window.

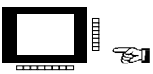
3.3 Teach In mode


HMI Embedded


HMI Advanced

2. Manual input of coordinates:

- Enter coordinates of traversing positions and
- enter additional functions (preparatory conditions, miscellaneous functions, etc.) in the "MDA program" window.



HMI Embedded

Delete block — Delete the current block.

Insert block — Insert an empty line before the current block.

Save block — Save new axis positions and additional functions.

Executed the entered program blocks and display them in the current block window.

HMI Advanced

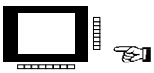
Enter and delete blocks via keyboard.
Positions are automatically saved at entry.

4. Parts Programming

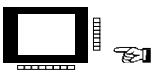
4.1 Select/enable workpiece/parts program


HMI Embedded


HMI Advanced

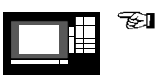


Program	Select "Program" operating area.



Select workpiece/parts program:

	Select the level:
Work-pieces	• Workpieces
Parts programs	• Parts programs
Sub-routines	• Subroutines
Standard cycles	• Standard cycles (HMI Advanced)
User cycles	• User cycles
Clip-board	• Clipboard

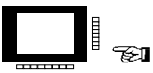


Position the cursor on the desired file in the directory tree.

4.2 Open/edit parts program


HMI Embedded


HMI Advanced



Program

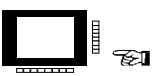
Select "Program" operating area.

Open parts program:

Position the cursor on the desired file in the directory tree.

Open program in ASCII editor:

Press the "Input" key.



Call up free contour programming:

Support

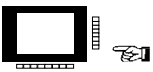
New contour

Press softkeys "Support" and "New contour".

4.2 Open/edit parts program


HMI Embedded


HMI Advanced



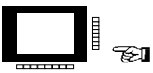
Edit parts program:

Overwrite	Toggle between insert and overwrite mode.
Mark block	Mark the beginning of block.
Copy block	Save the block in the clipboard.
Delete block	Delete block.
Insert block	Paste the block from the clipboard.
Search/ go to ...	Position on block no., beginning of file, end of file or search string.
Search	Enter search string.
Substitute	Enter substitute.
Continue search	Next occurrence of search string.
Go to ...	Enter block no.
Save file	Save parts program.
Close editor	Close text editor.

4.3 Create new workpiece/parts program

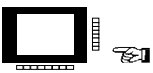

HMI Embedded


HMI Advanced



Program

Select "Program" operating area.



Work-pieces

Parts programs

Sub-routines

Select "Workpieces", "Parts programs" or "Subroutines".

Open directory.

New ...

Enter name of workpiece, main program or subroutine and

select "File type".

HMI Advanced:

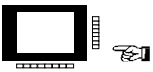
Select key

- text editor
- activate interactive programming.

4.4 Execute workpiece/parts program

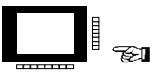

HMI Embedded


HMI Advanced



Program

Select "Program" operating area.



Work-pieces

Select workpiece:

Mark the desired workpiece with the cursor in the workpiece overview.

Selection

Select the workpiece.

Parts programs

Select parts program:

Mark the desired workpiece with the cursor in the parts program overview.

Selection

Select the parts program.

Start the workpiece/parts program.

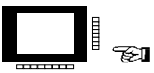
Clip-board

You can also run parts programs directly from the clipboard.

4.5 Copy/paste, rename, delete, enable


HMI Embedded


HMI Advanced



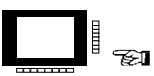
Program

Select "Program" operating area.

Select the level and position the cursor on the desired file in the directory tree.

Manage programs

HMI Advanced:
Select "Manage programs".



Copy/paste program:

Copy

Select the source file.

Paste

Save the source file in the target directory.

If necessary, use the "Toggle" key to select the file type.

Rename the program:

Rename

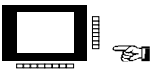
Press the "Rename" softkey and enter new name.

Use the "Toggle" key to select the file type.

4.5 Copy/paste, rename, delete, enable


HMI Embedded


HMI Advanced



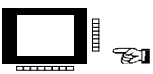
Delete program:

Delete

Delete the program from the directory.

SELECT

Select several files via the "Select" key.



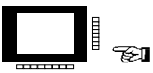
Change enable:

Change enable

Set (x) or cancel ( ) enable.

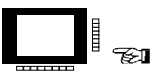
4.6 Load/unload program (HMI Advanced)

HMI
Advanced



Program	Select "Program" operating area.

Position the cursor on the desired file in the directory tree.



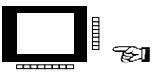
Load	Load the program into the NC memory.
Unload	Save the program to hard disk.

Please note:
When you activate "Load", the program is automatically deleted from the hard disk. When you activate "Unload", the program is automatically cleared from the NC memory.

5. Manage Data

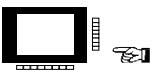
5.1 Transfer data (HMI Embedded)

HMI
Embedded



Services

Select "Services" operating area.



Data out

Read out data:

Select "Data out" menu.

Select interface:

RS-232-user

- RS-232 user

RS-232-printer

- RS-232 printer

RS-232-PG/PC

- RS-232-PG/PC

NC-Card

- NC- Card

Position the cursor on the desired file in the directory tree.

Start

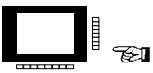
Start "Data out".

Stop

Interrupt "Data out".

5.1 Transfer data (HMI Embedded)

HMI
Embedded



Data in

Read in data:

Select " Data in" menu.

Select interface:

RS-232 user

- RS-232 user

RS-232-PG/PC

- RS-232-PG/PC

NC-Card

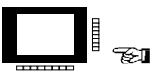
- NC- Card

Position the cursor on the desired file in the directory tree.

Reading in/out data in the case of the NC card:
After "Start", the window "Create archive" is displayed. Enter new name and confirm with "OK". A new directory is created.

5.1 Transfer data (HMI Embedded)

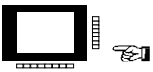
HMI
Embedded



Start	Organize data according to the existing path:
☒	Path/workpiece from archive file
	Store all files in the directory, irrespective of archived path:
☐	Path/workpiece from archive file
	Store all files in the clipboard, irrespective of archived path:
☒	Read into the clipboard
OK	Start "Data in".
Stop	Interrupt "Data in".

5.2 Transfer data (HMI Advanced)

HMI
Advanced



Services

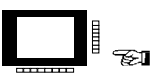
Select "Services" operating area.

Data out

Read out data:

Select "Programs/data" menu.

Select data in the directory tree.



Select target area:

RS-232

- RS-232 interface

PG

- Programming device

Diskette...

- Diskette drive

Archive...

- "Archive" on hard disk

NC Card

- NC Card

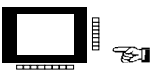
Start transfer:

Start

Initiate data transfer on disk/archive (softkey label changes to "Stop").

5.2 Transfer data (HMI Advanced)

HMI
Advanced

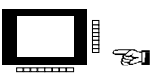


Data in

Read in data:

Select "Programs/data" menu.

Select data in the directory tree.



Select source area:

RS-232

- RS-232 interface

PG

- Programming device

Diskette...

- Diskette drive

Archive...

- "Archive" on hard disk

NC Card

- NC Card

Start

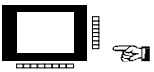
Start transfer:

Initiate data transfer on disk/archive (softkey label changes to "Stop").

The data transfer is initiated automatically. You can interrupt data transfer at any time by pressing the softkey again.

5.3 Create new file/directory (HMI Advanced)

HMI
Advanced

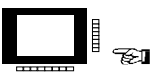


Services

Select "Services" operating area.

Manage data

Select "Manage data" menu.



New...

Enter program name and select type of program.

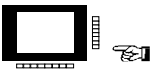
By selecting the "End" softkey, you can switch between the areas "Name" and "Type of file".

OK

New file/directory will be created.

5.4 Load/unload program (HMI Advanced)

HMI
Advanced



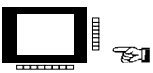
Services

Select "Services" operating area.

Manage data

Select "Manage data" menu.

Position the cursor on the desired file in the directory tree.



Load

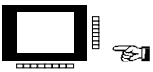
Load the file from the hard disk into the NC memory.

Unload

Unload the file from the NC memory to the hard disk.

5.5 Copy/paste, delete (HMI Advanced)

HMI
Advanced



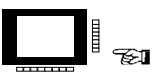
Services

Select "Services" operating area.

Manage data

Select "Manage data" menu.

Position the cursor on the source file in the directory tree.



Copy/paste program:

Copy

Select target directory.

Programs data

Close target window.

Paste

Copy source file to target directory.

Clipboard

Copy to or from clipboard.

Diskette

Copy to or from diskette.

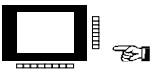
Delete program:

Delete

Delete selected file.

5.6 Directory/file/archive properties (HMI Advanced)

HMI
Advanced



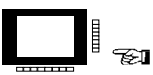
Services

Select "Services" operating area.

Manage data

Select "Manage data" menu.

Position the cursor on the desired file in the directory tree.



Properties

Select "Properties" menu.

- Rename file
- Convert file type
- Change access rights for file/directory
- Display contents of all files

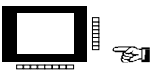
The access level can only be changed with the appropriate access rights.

6. Automatic Mode

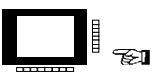
6.1 Select workpiece/program

HMI Embedded

HMI Advanced



Machine	Select "Machine" operating area.
AUTO	Select "Automatic" mode.



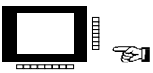
Program overview	Select "Program overview" menu.
Work-pieces Parts programs Sub-routines Standard cycles User cycles	Select desired workpiece/parts program/subroutine or desired cycles with the cursor in the workpiece/ parts program/subroutine overview and the standard and user cycles.
Selection	Select workpiece/part program.

Change enable	Set (x) or cancel ( ) enable.

6.2 Start/stop/cancel program


HMI Embedded


HMI Advanced



Machine — Select "Machine" operating area.

AUTO — Select "Automatic" mode.

Please check that:
No alarms are active.
The program is selected.
The feed enable is active.
The spindle enable is active.

Start parts program.

Stop parts program.

Cancel parts program.

A parts program interrupted via "Cycle Stop" can be continued with "Cycle Start".

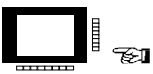
A parts program interrupted via "Reset" can be processed from the beginning if you press "Cycle Start".

6.3 Repos – Reposition after interruption


HMI Embedded


HMI Advanced

After a program interrupt ("Cycle-Stop") you can move the tool away from the contour in the manual mode. The control saves the coordinates of the interruption point. The traversed path differences of the axes are displayed.



Machine	Select "Machine" operating area.
Jog	Select "Jog" mode.

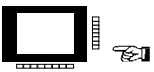
Repos	Reposition after program interruption.
+X ... -Z	**Turning machine:** Traverse axes up to the point of interruption.
X ... 9 (9th Axis)	**Milling machine:** Select axis and
+ ... −	traverse axes up to the interruption point.

Caution:
Travel beyond the interruption point is inhibited. The feed override switches are active.

6.3 Repos – Reposition after interruption


HMI Embedded


HMI Advanced



Machine

Select "Machine" operating area.

AUTO

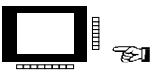
Select "Automatic" mode.

Continue machining.

6.4 Overstore


HMI Embedded


HMI Advanced



Machine

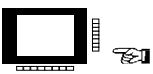
Select "Machine" operating area.

AUTO

Select "Automatic" mode.

Overstore with single block:
The program automatically stops at the next block boundary.

Overstore without single block:
Stop parts program.



Overstore

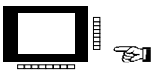
Enter the values and functions to be executed.

Run the entered block.

6.5 Display program level


HMI Embedded


HMI Advanced

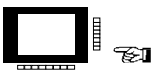


Machine

Select "Machine" operating area.

AUTO

Select "Automatic" mode.



Program level

Display block numbers for main programs and subroutines with the respective pass counts (P).

Current block

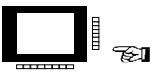
Display the blocks of the current program.

Pressing the "Program level" softkey automatically changes the level to and from "current block".

6.6 Program correction


HMI Embedded


HMI Advanced



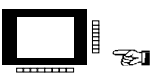
Machine

Select "Machine" operating area.

AUTO

Select "Automatic" mode.

The control has detected a system error in the part program. Execution of the part program is automatically interrupted.



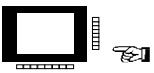
Correct program

Correct the program block with the error.

Continue machining.

6.7 Execution via RS-232 (HMI Embedded)

HMI
Embedded



Machine	Select "Machine" operating area.
Program overview	Select "Program overview" menu.
Execution from extern.	Select "Execution from external source" menu.

Position the cursor on the desired file in the directory tree.

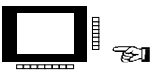
Start execution via RS-232.

Executed blocks appear in the current block window.

Alternatively, it is possible to start execution in the "Services" operating area.
You can change the transfer parameters in the "Services" operating area. The transfer is recorded in the error log.

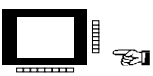
6.8 Load/unload program from hard disk (HMI Advanced)

HMI
Advanced



Machine	Select "Machine" operating area.
Program overview	Select "Program overview " menu.

Position the cursor on the desired file in the directory tree.

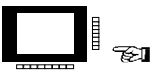


Load	Load the program into the NC memory.
Unload	Save the program on the hard disk.

Please note:
When you activate "Load", the program is automatically deleted from the hard disk. When you activate "Unload", the program is automatically cleared from the NC memory.

6.9 Execution from hard disk (HMI Advanced)

HMI
Advanced



Machine

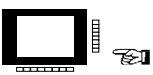
Select "Machine" operating area.

Program overview

Select "Program overview" menu.

Position the cursor on the desired file in the directory tree.

Press the "Cycle Start" key.



Execution fr. hard disk

Start/cancel read-in and execution.

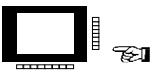
The program remains stored with "Execution from hard disk".

7. Alarms and Messages

7.1 Alarms/messages

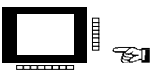

HMI Embedded


HMI Advanced



Diagnosis

Select "Diagnosis" operating area.



Alarms

Display alarms:

Display alarms with "alarm number", "date", "explanation" and "cancel criterion".

Delete alarm:

Switch the control off and on again.

Press "Reset".

Press "Acknowledge alarm".

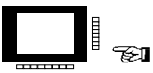
Alarm is canceled with "Cycle-start".

Alarm is canceled with "Recall".

7.1 Alarms/messages


HMI Embedded


HMI Advanced

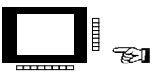


Messages

Display messages:

Display PLC error messages and PLC operational messages.

Caution:
PLC error messages must always be acknowledged.



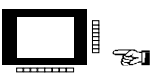
Alarm log

Display alarm log:

Display complete log of alarms and messages which have occurred.

Display new

Update alarm log.



Acknowledge HMI alarm

HMI Advanced

Select and delete HMI alarm.

An
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Suggestions

Corrections

for Publication/Manual:

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Short Guide
Operation

Order No.: 6FC5298-6AA10-0BP0
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Suggestions and/or corrections