

E[M]CONOMY means:



More flexibility and functionality with the new WinNC for Sinumerik Operate

With ShopMill/ShopTurn and programGUIDE combined in an innovative and intuitive user interface

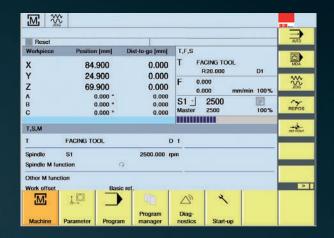
WinNC for Sinumerik Operate

WinNC is a controller-specific software that can be installed on a standard PC. It corresponds to the operation and function of the respective original control. With the addition of the new WinNC for Sinumerik Operate incl. ShopTurn and ShopMill the range of industry-standard controls is complemented by another important release. A detailed replication of the functionalities and user interfaces covers all training-related areas of the original control. As with all WinNC controls there is a 30 day demo version which can be downloaded from www.emco-world.com

Operating areas:

By pressing the "Menu Select" key, the softkey bar for rapid access to the operating areas and modes will appear. This significantly facilitates navigating the control interface.

The typical Siemens operating structure of the previous industry-proven control systems has been maintained and expanded to include useful features.



Parameters:

- Clear tool management (tools are represented by icons, rotational direction and cooling are predefined here, values dependent on type of tool "drill – tip angle, screw tap – pitch, milling tool – number of teeth")
- 99 preset zero offsets available (G54-G599)
- User variables R0-R299 for parameterization of programs

Program manager:

- All available drives (local and network) are managed here
- Well known program structure consisting of subroutines, main programs and workpiece folders

1 C	_			-			-	-	-	-	-	Teel
ool I	ist							_		_		Tool
Loc.	Туре	Tool name	D	т	Length	ø			4	-	\$ *	measure
-	alle.	CUTTER16	1	10	78.340	16.000		2	0			New
1												tool
2												1
3		CUTTER10	1	1	95.440	10.000		2	0			
4	U	BALL_END_CYL	1	9	43.340	6.000		2	0			
5	K	CENTERDRILL	1	3	55.450	10.000	0.0		0			Ĩ.
6	K	CENTERDRILL2	1	4	65.400	6.000	0.0		Q			
7												
8	4	3D_PROBE	1	5	77.123	4.000			図			
9	14	DRL_THRD_MILL	1	6	67.345	6.000		1	0		- 1	1000
10	ø	DRILL5	1	7	72.240	5.000	118.0		0			·
11	1	TAP6	1	8	59.334	6.000	1.000		9			
12												
13												Magazir
14												selectio
15												1
16												Sort

Name	Туре	Length	Date	Time	Execute
Part programs	DIR		20.02.201	2 08:46:56	Execute
POCKET	MPF	6988879	20.02.201	2 08:49:25	
Subprograms	DIR		21.12.201	1 12:00:49	New
CONTOUR	SPF	83	21.02.201	2 09:43:53	THUM
Morkpieces	DIR		17.02.201	2 09:30:58	
⇒ ■ DEMO2	WPD		15.02.201	2 14:32:49	Open
DEMO2	MPF	1323	15.02.201	2 14:28:00	
INSIDE	MPF	225	08.02.201	2 12:17:17	
UTSIDE	MPF	550	08.02.201	2 13:05:41	Mark
e = EXAMPLE5	WPD		17.02.201	2 10:17:58	
CORNER_MACHINING	MPF	2223	17.02.201	2 09:22:52	
CORNERMACHINING	MPF	2253	17.02.201	2 10:21:18	Сору
FLANGE	MPF	1705	17.02.201	2 10:17:46	
- # FLANGE_2	MPF	1149	17.02.201	2 10:21:12	
FLANGE1	MPF	1317	17.02.201	2 10:17:43	Paste
= FLANGE	WPD		08.02.201	2 14:33:21	
E TOOTHPROFILE	WPD		21.12.201	1 12:01:34	
CIRCLE	SPF	120	07.12.201		315
- CONTOUR	SPF	158	07.12.201		Cut
HEXAGON	SPF	135	07.12.201		_
E MAIN	MPF	1342	28.12.201	1 09:18:58	
C/Workpieces/TOOTHPROFILE.WPD				Free: 3050 MB	••

Download free demo version: www.emco-world.com

Programming:

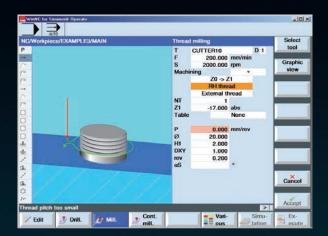
- ShopTurn and ShopMill work-step programming
- programGUIDE: G code programming, combined with cycle support
- ISO code programming

Highlights ShopTurn, ShopMill work-step programming

- All program-related parameters are defined in the program header: measuring unit, workpiece origin, blank, safety clearance and retraction behaviour, down-cut / up-cut
- Call of tools is directly carried out in the cycle: any technology definition (mm/tooth – mm/min, m/min – r/min)
- Transformation cycles: zero offset, translation, rotation, scaling and mirroring can easily be defined via cycles
- Extensive editor functions: search, search/ replace, highlight, copy, paste and renumber

	VC for Sinumerik Operate			ولد
NC/W	Auto /orkpiece/DEMO/DEA	AOSM	1	
P	Program header		Work offset G54	
т	T-CUTTER16 V15	Orm		
-	RAPID X-47 Y-0	2-2		Graphic
	RAPID Z=0			VIEW
	F200/min X-47			
-	RAPID Z=5			Search
1-1	Contour		Contour1	
1 47	Path milling	v	T=CUTTER10 F0.03/tooth V150m Z0=0 Z1=10inc	
0	Circular spigot	v	T=CUTTER10 F0.03/tooth V160m X0=0 Y0=0 Z0=0	Mark
1~1	Contour		Contour2	
pe 1	Path milling	v	T=CUTTER10 F0.03/tooth V150m Z0=0 Z1=5inc	10000
Q	Circular pocket	*	T=CUTTER10 F0.03/tooth V150m X0=0 Y0=0 Z0=0	Copy
C 1	Contour		Contour3	
1-1	Path milling	***	T=CUTTER16 F0.08/tooth V180m Z0=0 Z1=10inc	Paste
0	Circular spigot		T=CUTTER16 F0.08/tooth V180m X0=0 Y0=0 Z0=0	Faste
1-1	Contour		Contour2	5
1-1	Path milling	***	T=CUTTER8 F0.08/tooth V180m Z0=0 Z1=5inc	Cut
Ø	Circular pocket	***	T=CUTTER8 F0.08/tooth V150m X0=0 Y0=0 Z0=0 Z	our
1-1	Contour		Contour2	
pr 1	Path milling	***	T=Genterdrill12 F200/min S3500rev Z0=0 Z1=1.5inc 🗸	
		200		1.000
	dit 🥂 Drill.	Mill.	Cont. Vari- mill. Vari-	Ex-

Incorrect values entered during the data input are highlighted in red. During the definition of cycles an explanatory graphic is shown for each input field, along with an additional tool tip containing further information



Context-sensitive help via the "Help" button. Depending on the topic currently displayed on the screen (cycles, tool management, ...) a matching help text is displayed

[System Requirements]



Machines with integrated control PC:

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

Machines with provided control PC and programming stations:

- PC 1000 MHz
- Windows XP or higher (32 / 64 Bit)
- Main memory min. 256 MB RAM
- Free hard disk space 400 MB
- Programming station: 1*USB, machine version: 2*USB
- TCP/IP-enabled NIC for machine version

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www.emco-world.com