From version 2 on WinPC-NC is available in three different variants

Light Low cost solution for CNC beginners with direct LPT printer port controlling. Able to run typical applications like engraving, milling of modelling parts, PCB drilling and more.

Control program with direct LPT printer port output and enhanced functions like tangentional **Economy** 

cutting, fully 3D abilities, mass production support, more import filters for common NC

formats, free definable macros, synchronisation with external signals and more

Professional Full functional CNC control program with external axes controller cpu for all realtime tasks.

Absolute reliable and stable for industrial applications and enhancable with optional peripheral modules like teachin keypad, 24V input/output signals, signal conditioner and converters. Special technological functions for laser cutting, automatic tool changer,

digitizing sensor and much more.

LPT		Light	Economy	Professional
(LPT1) (LPT1+LPT2)   controller	Input/output signals and machine controlling			
Additional outputs for drilling spindle, cooling, dispensing and more  Additional outputs for drilling spindle, cooling, dispensing and more  Additional outputs for drilling spindle, cooling, dispensing and more  Motor currency, running signal, boost signal  V V V  Inputs/outputs freely definable and assingable  V V V  Analoge output 0-10V signals  Converters and adapters for clock/direction signals	Controlling the CNC machine			
Motor currency, running signal, boost signal Inputs/outputs freely definable and assingable Inputs/outputs freely definable and assingable Industrial conform 24V signals Converters and adapters for clock/direction signals	Input signals for limit and homing switches	5	10	up to 256
Inputs/outputs freely definable and assingable Inputs/outputs freely definable and assingable Industrial conform 24V signals Converters and adapters for clock/direction signals V Converters and adapters for clock/direction signals 8Bit/LPT2 - PWM 0-10V Ready signal for safety control, toggle output >200Hz Ready signal for safety control, toggle output >200Hz V Realtime ability with Windows good good best Dependant from background programs and processes under Windows Dependant from background programs and background processes under Windows Dependant from background programs and p	Additional outputs for drilling spindle, cooling, dispensing and more	4	8	up to 256
Industrial conform 24V signals	Motor currency, running signal, boost signal	✓	<b>√</b>	✓
Converters and adapters for clock/direction signals  Analoge output 0-10V for spindle speed  Bett Dependant from Speed  Bett Dependant from Speed  Analoge output 0-10V for spindle speed  Analoge output 0-10V for spindle speed  Bett Dependant from Speed  Analoge output 0-10V for spindle speed  Bett Dependant from Speed  Bett Dependant from Speed  Analoge output 0-10V for spindle speed  Bett Dependant from Speed  Analoge output 0-10V for Speed  Analoge output	Inputs/outputs freely definable and assingable	✓	<b>√</b>	<b>√</b>
Analoge output 0-10V for spindle speed Ready signal for safety control, toggle output >200Hz Ready signal for safety control, toggle output >200Hz Readtine ability with Windows Dependant from background programs and processes under Windows Dependant from background programs and processes under Windows Pes yes no Maximum step rate (kHz) 112 24 40 Controlled axes 3 (XYZ) 4 (XYZ TABC) 4 (XYZ TABCU)  Hardware and operating system requirements Runs with Windows versions Processor and clock frequency Peripheral ports (onboard or ISAPCI board) Parameter settings, adjustments to mechanical components Individual axes resolutions, steps and distance/revolution Speeds, acceleration and deceleration ramps for each axis V V V Several predefined ramp profiles Synchronisation to different input signals Loadable individual created ramp profiles Data formats and import filters HPGL, PLT Goodes with subroutines and abs/rel. movements - V Multicam 2D and 3D, extended HPGL - V SISEL NCP  A (XYZ TABC)  4 (XYZ TABC) 4 (XYZ TABCU)  Pentium/Athlon Celeron/Sempron Sentium/Athlon Celeron/S	Industrial conform 24V signals	-	-	<b>√</b>
Ready signal for safety control, toggle output >200Hz  Realtime ability with Windows  Dependant from background programs and processes under Windows  Dependant from background programs and processes under Windows  Dependant from background programs and processes under Windows  Maximum step rate (kHz)  12 24 40  Controlled axes  3 (XYZ) 4 (XYZ TABC) 4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  5 (XYZ)  4 (XYZ TABC)  4 (XYZ TABC)  4 (XYZ TABC)  5 (XYZ)  6 (XYZ)	Converters and adapters for clock/direction signals	-	-	<b>√</b>
Realtime ability with Windows Dependant from background programs and processes under Windows Dependant from background programs and processes under Windows Maximum step rate (kHz)  12 24 40  Controlled axes 3 (XYZ) 4 (XYZ TABC) 4 (XYZ TABCU)  Hardware and operating system requirements Runs with Windows versions Processor and clock frequency Pentium/Athlon Celeron/Sempron >1GHz Pentium/Athlon Celeron/Sempron >1GHz Departments LPT LPT and USB COM or USB-to-COM adapter  Parameter settings, adjustments to mechanical components Individual axes resolutions, steps and distance/revolution Package, acceleration and deceleration ramps for each axis V V V Several predefined ramp profiles Parameter individual created ramp profiles Desveral predefined ramp profiles Desveral predefined ramp profiles Data formats and import filters Package in the formats, Excellon, Sieb&Meyer V V V Common drilling formats, Excellon, Sieb&Meyer V V V Multicam 2D and 3D, extended HPGL V V V ISEL NCP V V Issel NCP	Analoge output 0-10V for spindle speed	-	8Bit/LPT2 - PWM	0-10V
Dependant from background programs and processes under Windows  Maximum step rate (kHz)  12 24 40  Controlled axes  3 (XYZ)  4 (XYZ TABC)  4 (XYZ TABCU)  Hardware and operating system requirements  Runs with Windows versions  Processor and clock frequency  Pentium/Athlon Celeron/Sempron >1GHz  Peripheral ports (onboard or ISA/PCI board)  LPT  LPT and USB  COM or USB-to-COM adapter  Parameter settings, adjustments to mechanical components  Individual axes resolutions, steps and distance/revolution  Speeds, acceleration and deceleration ramps for each axis  7  Testing functions for mechanics and switches, motor tuning  Pentium/Athlon Celeron/Sempron >1GHz  COM or USB-to-COM adapter  COM or USB-to-COM adapter  Testing functions for mechanics and switches, motor tuning  7  Several predefined ramp profiles  -  Synchronisation to different input signals  Loadable individual created ramp profiles  -  Data formats and import filters  HPGL, PLT  Common drilling formats, Excellon, Sieb&Meyer  G codes with subroutines and abs/rel. movements  Multicam 2D and 3D, extended HPGL  IsEL NCP	Ready signal for safety control, toggle output >200Hz	<b>√</b>	<b>√</b>	<b>√</b>
Maximum step rate (kHz)         12         24         40           Controlled axes         3 (XYZ)         4 (XYZ TABC)         4 (XYZ TABCU)           Hardware and operating system requirements         2000/XP         2000/XP         2000/XP         all from Win95           Processor and clock frequency         Pentium/Athlon Celeron/Sempron >1GHz         Pentium/Athlon Celeron/Sempron >1GHz         from Pentium 2 with 266 MHz           Peripheral ports (onboard or ISA/PCI board)         LPT         LPT and USB         COM or USB-to-COM adapter           Parameter settings, adjustments to mechanical components         LPT         LPT and USB         COM or USB-to-COM adapter           Parameter settings, adjustments to mechanical components         Individual axes resolutions, steps and distance/revolution         ✓	Realtime ability with Windows	good	good	best
Controlled axes 3 (XYZ) 4 (XYZ TABC) 4 (XYZ TABCU)  Hardware and operating system requirements  Runs with Windows versions 2000/XP 2000/XP all from Win95  Processor and clock frequency Pentium/Athlon Celeron/Sempron Celeron/Sempron >1 GHz  Peripheral ports (onboard or ISA/PCI board) LPT LPT and USB COM or USB-to-COM adapter  Parameter settings, adjustments to mechanical components  Individual axes resolutions, steps and distance/revolution	Dependant from background programs and processes under Windows	yes	yes	no
Hardware and operating system requirements  Runs with Windows versions  Pentium/Athlon Celeron/Sempron Celeron/Sempron SIGHz  Peripheral ports (onboard or ISA/PCI board)  Parameter settings, adjustments to mechanical components  Individual axes resolutions, steps and distance/revolution  Speeds, acceleration and deceleration ramps for each axis  V V V Several predefined ramp profiles  Synchronisation to different input signals  Loadable individual created ramp profiles  Pata formats and import filters  HPGL, PLT  Common drilling formats, Excellon, Sieb&Meyer  G codes with subroutines and abs./rel. movements  Multicam 2D and 3D, extended HPGL  I Pentium/Athlon Celeron/Sempron Ce	Maximum step rate (kHz)	12	24	40
Runs with Windows versions  2000/XP 2000/XP all from Win95 Processor and clock frequency Pentium/Athlon Celeron/Sempron s1GHz Peripheral ports (onboard or ISA/PCI board)  LPT LPT and USB COM or USB-to-COM adapter  Parameter settings, adjustments to mechanical components Individual axes resolutions, steps and distance/revolution Speeds, acceleration and deceleration ramps for each axis V V V Seeds, acceleration sfor mechanics and switches, motor tuning V Several predefined ramp profiles Synchronisation to different input signals Loadable individual created ramp profiles  Data formats and import filters HPGL, PLT V Common drilling formats, Excellon, Sieb&Meyer G codes with subroutines and abs./rel. movements Multicam 2D and 3D, extended HPGL SEL NCP  I Data formats and import filter Multicam 2D and 3D, extended HPGL SEL NCP  I Data formats and import filter  V Pentium/Athlon Celeron/Sempron shift from Pentium 2 with 266 MHz Fentium MINING From Pentium 2 with 260 MHz Fentium MINING From Pentium 2 with 266 MHz Fentium MINING From Pentium 2 with 266 MHz Fentium MINING From Pentium 2 with 266 MHz Form Pentium 2 pentium 2 with 266 MHz Form Pentium 2 pentium 2 with 266 MHz Form Pentium 2 pentium 2 suit 266 MHz Form Pentium 2 pentium 2 suit 266 MHz  From Pentium 2 pentium 2 suit 266 MHz  V V V V V V V V V V V V V V V V V V	Controlled axes	3 (XYZ)	4 (XYZ TABC)	4 (XYZ TABCU)
Runs with Windows versions  2000/XP 2000/XP all from Win95 Processor and clock frequency Pentium/Athlon Celeron/Sempron s1GHz Peripheral ports (onboard or ISA/PCI board)  LPT LPT and USB COM or USB-to-COM adapter  Parameter settings, adjustments to mechanical components Individual axes resolutions, steps and distance/revolution Speeds, acceleration and deceleration ramps for each axis V V V Seeds, acceleration sfor mechanics and switches, motor tuning V Several predefined ramp profiles Synchronisation to different input signals Loadable individual created ramp profiles  Data formats and import filters HPGL, PLT V Common drilling formats, Excellon, Sieb&Meyer G codes with subroutines and abs./rel. movements Multicam 2D and 3D, extended HPGL SEL NCP  I Data formats and import filter Multicam 2D and 3D, extended HPGL SEL NCP  I Data formats and import filter  V Pentium/Athlon Celeron/Sempron shift from Pentium 2 with 266 MHz Fentium MINING From Pentium 2 with 260 MHz Fentium MINING From Pentium 2 with 266 MHz Fentium MINING From Pentium 2 with 266 MHz Fentium MINING From Pentium 2 with 266 MHz Form Pentium 2 pentium 2 with 266 MHz Form Pentium 2 pentium 2 with 266 MHz Form Pentium 2 pentium 2 suit 266 MHz Form Pentium 2 pentium 2 suit 266 MHz  From Pentium 2 pentium 2 suit 266 MHz  V V V V V V V V V V V V V V V V V V	Hardware and operating system requirements			
Processor and clock frequency  Peripheral ports (onboard or ISA/PCI board)  Parameter settings, adjustments to mechanical components  Individual axes resolutions, steps and distance/revolution  Speeds, acceleration and deceleration ramps for each axis  V V V  Testing functions for mechanics and switches, motor tuning V Several predefined ramp profiles  Synchronisation to different input signals  - V V V  Data formats and import filters  HPGL, PLT  Common drilling formats, Excellon, Sieb&Meyer  G codes with subroutines and abs./rel. movements  Multicam 2D and 3D, extended HPGL  ISEL NCP  IPP and USB  COM or USB-to-COM adapter  Town Pentium 2 with 266 MHz  with 266 MHz  from Pentium 2 with 266 MHz  with 266 MHz  from Pentium 2 with 266 MHz  for Dericum/Athlon Celeron/Sempron >1GHz  FURIT LET USB  COM or USB-to-COM adapter   ### COM or USB-to-COM adapter  ### Common distance/revolution  ### Common drilling formats, Excellon, Sieb&Meyer  ### A		2000/XP	2000/XP	all from Win95
Parameter settings, adjustments to mechanical components  Individual axes resolutions, steps and distance/revolution  Speeds, acceleration and deceleration ramps for each axis  Testing functions for mechanics and switches, motor tuning  Backlash compensation  Several predefined ramp profiles  Synchronisation to different input signals  Loadable individual created ramp profiles	Processor and clock frequency	Pentium/Athlon Celeron/Sempron	Pentium/Athlon Celeron/Sempron	from Pentium 2
Individual axes resolutions, steps and distance/revolution  Speeds, acceleration and deceleration ramps for each axis  Testing functions for mechanics and switches, motor tuning  Backlash compensation  -	Peripheral ports (onboard or ISA/PCI board)	LPT	LPT and USB	COM or USB- to-COM adapter
Individual axes resolutions, steps and distance/revolution  Speeds, acceleration and deceleration ramps for each axis  Testing functions for mechanics and switches, motor tuning  Backlash compensation  -	Parameter settings, adjustments to mechanical components			
Speeds, acceleration and deceleration ramps for each axis  Testing functions for mechanics and switches, motor tuning  Backlash compensation  Several predefined ramp profiles  Synchronisation to different input signals  Loadable individual created ramp profiles  -			<b>/</b>	<b>/</b>
Testing functions for mechanics and switches, motor tuning  Backlash compensation  Several predefined ramp profiles  Synchronisation to different input signals  Loadable individual created ramp profiles  -		<b>√</b>	<b>/</b>	<b>/</b>
Backlash compensation		<b>√</b>	<b>/</b>	<b>√</b>
Several predefined ramp profiles         -         √         ✓           Synchronisation to different input signals         -         √         ✓           Loadable individual created ramp profiles         -         -         ✓           Data formats and import filters         -         ✓         ✓           HPGL, PLT         ✓         ✓         ✓           Common drilling formats, Excellon, Sieb&Meyer         ✓         ✓         ✓           G codes with subroutines and abs./rel. movements         -         ✓         ✓           Multicam 2D and 3D, extended HPGL         -         ✓         ✓           ISEL NCP         -         ✓         ✓         ✓		-	<b>/</b>	
Synchronisation to different input signals         -         √         ✓           Loadable individual created ramp profiles         -         -         ✓           Data formats and import filters	Several predefined ramp profiles	-	<b>/</b>	<b>/</b>
Loadable individual created ramp profiles         -         -         √           Data formats and import filters         -         √         √         √           HPGL, PLT         √         √         √         √           Common drilling formats, Excellon, Sieb&Meyer         √         √         √         √           G codes with subroutines and abs./rel. movements         -         √         √         √           Multicam 2D and 3D, extended HPGL         -         √         √         √           ISEL NCP         -         √         √         √		-	<b>/</b>	<b>✓</b>
HPGL, PLT         √         √         √           Common drilling formats, Excellon, Sieb&Meyer         √         √         √           G codes with subroutines and abs./rel. movements         -         √         √           Multicam 2D and 3D, extended HPGL         -         √         √           ISEL NCP         -         √         √	Loadable individual created ramp profiles	-	-	<b>√</b>
HPGL, PLT         √         √         √           Common drilling formats, Excellon, Sieb&Meyer         √         √         √           G codes with subroutines and abs./rel. movements         -         √         √           Multicam 2D and 3D, extended HPGL         -         √         √           ISEL NCP         -         √         √				
Common drilling formats, Excellon, Sieb&Meyer         √         √         √           G codes with subroutines and abs./rel. movements         -         √         √           Multicam 2D and 3D, extended HPGL         -         √         ✓           ISEL NCP         -         √         ✓	Data formats and import filters			
G codes with subroutines and abs./rel. movements         -         √         ✓           Multicam 2D and 3D, extended HPGL         -         ✓         ✓           ISEL NCP         -         ✓         ✓	HPGL, PLT	<b>√</b>	<b>√</b>	✓
Multicam 2D and 3D, extended HPGL         -         √         ✓           ISEL NCP         -         ✓         ✓	Common drilling formats, Excellon, Sieb&Meyer	<b>√</b>		· ·
ISEL NCP - ✓ ✓	G codes with subroutines and abs./rel. movements	-	<b>√</b>	<b>√</b>
	Multicam 2D and 3D, extended HPGL	-	<b>√</b>	✓
Postscript, vector informations, EPS/AI -	ISEL NCP	-	<b>√</b>	<b>√</b>
	Postscript, vector informations, EPS/AI	-	✓	✓

	Light	Economy	Professional
Program functions	<u></u>		, rereceiena.
Intelligent look ahead for smooth movements without interruption	<b>√</b>	/	/
Integrated editor for creating and modifying NC files		<i>J</i>	
Multi lingual, (ger, eng, fra, ita, esp, por, turk, pol available)		· /	
Graphical display, zooming, turning and mirroring of data		<del>,</del>	,
Works with NC files in unlimited size		<del>,</del>	,
Machine positioning simply to a mouse click		, , , , , , , , , , , , , , , , , , ,	,
Manual movements step by step or per defined distance		, , , , , , , , , , , , , , , , , , ,	,
File origin and parking positions definable by teachin		,	/
Different tool parameters to each color or tool	<u> </u>	/	/
Tool change switchable or simulation		<b>V</b>	/
Definable dwell times at tool movements		<b>V</b>	/
Comfortable signal wizzard for assigning all signals to input/output lines		7	/
	✓	· · · · · · · · · · · · · · · · · · ·	
Z clipping at defined maximum tool depth  Automatic reload for NC file at modifications	✓	· ,	<b>✓</b>
	✓	<i>y</i>	<b>V</b>
Save last positions when working without homing switches		· .	ļ
Special display of drilling jobs	<b>√</b>	<b>√</b>	/
Orientation of moving buttons swichable to adjust to machine	<b>√</b>	<b>∀</b>	/
Contour smoothing function for perfect edges		V	<b>√</b>
Tool lift for Z axis, savety clearance for rapid movements		<b>/</b>	<b>/</b>
Independent scaling factors for each axis		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/
Sppeds and positions in millimeters and inches per second or per minute	<u>√</u>	<b>√</b>	<b>√</b>
Mirroring and turning NC data	<u>√</u>	<b>√</b>	<b>√</b>
Realtime job display at jobs	<u>√</u>	<b>√</b>	<b>√</b>
Automatic identification of NC data	<u>√</u>	<b>√</b>	<b>√</b>
Tool colors and names free definable	<b>√</b>	<b>√</b>	<b>V</b>
Tool repetitions and Z axis feed	-	<b>√</b>	<b>V</b>
Surface block and sensor for automatic zero point definition	-	<b>√</b>	<b>V</b>
Free programmable 4th axis as U ABC T	-	<b>√</b>	✓
Tool length measurement and compensation of differences	-	<b>√</b>	<b>√</b>
Tangential axis for foil and paper cutting	-	<b>√</b>	<b>√</b>
Mass production with definable rows and coloums of NC data	-	<b>√</b>	<b>√</b>
Resume interrupted job exactly to the step	-	<b>√</b>	<b>√</b>
Cylindric engraving with diameter definition and 4th axis	-	<b>√</b>	<b>√</b>
Feedrate and spindle override	-	<b>√</b>	<b>√</b>
Software limit switches and machine dimension monitoring	-	✓	✓
Comfortable and flexible macro programming	=	✓	<b>√</b>
Free definable reference positions at switches	=	✓	<b>√</b>
Comfortable teachin function	=	✓	<b>√</b>
Start of job from line no. or percent or prev.cancel position	-	✓	<b>√</b>
Digitizing and reproduction of 3D parts	<u>-</u>	-	<b>√</b>
Macro for automatic finding Z zero level by sensor or surface probe	-	-	<b>√</b>
Z height correction on the fly by inputs or keys, best for cutting applications	-	-	<b>/</b>
Dual X axis and special adjusting function at reference move	<u>-</u>	-	<b>/</b>
External keypads for mouse free teachin	-	-	<b>√</b>
Special technological functions for dispensing applications	-	-	<b>√</b>
Automatic tool change support and magazine monitoring	-	-	<b>√</b>
Pneumatic and electric molette with sensor	-	-	<b>√</b>
Free definable messages and bitmap display from input signals	-	-	<b>√</b>
Support of dual and multiple heads	-	-	<b>/</b>
Different counters and timers, machine and spindle running time	-	-	<b>/</b>
Additional PLC functions and runtime system	-	-	<b>/</b>
Different housings for standard and industrial applications, opt. stepper cards	-	-	<b>√</b>
		<del> </del>	OD ODLL salds
Includes	CD	CD	CD, CPU, cable
	CD PDF	CD printed manual	CD, CPU, cable printed manual