

PUI

Programmable User Interface

The PUI project was created to provide an easy-to-use tool for developing a simple interface between the user and Tecnos Numerical Controls

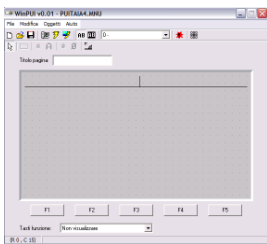
Compared to analogue tools already on the market, this product can be used for different types of Tecnos hardware which use the TN18 terminal or the built-in CN50 unit as interface units.

Its other defining feature is its intelligence, spread throughout the Tecnos NC CPU unit, minimising the terminal to a simple input and output unit.

The aim is to give the programmer full flexibility, configurability and power of the SYNCRO system, which is the beating heart of the Tecnos NC.

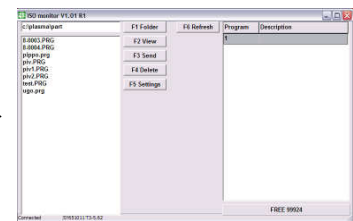
The close integration between PLC and NC (a SYNCRO feature) allows the use of completely different types of applications, from multitask positioning systems to work centres for the cutting and machining of pieces.

The PUI project is enriched with different software tools, as shown in the layout below:



Winpui

For creating templates
programs and simulations



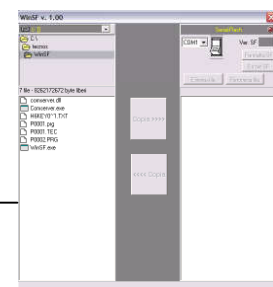
SBLmon.exe

For the serial port management of user
ISO for Numerical Control



SyncroView.exe

For the PLC and built-in oscilloscope management













WinSF.exe

For ISO programs management
with Memory Pen



The following table highlights the possible hardware compatibilities with the PUI program

CHARACTERISTICS USER INTERFACE	NUMERICAL CONTROL	DESCRIPTIVE NOTES
CN50 	UR50 	UR50 numerical control built into the CN50 framework, set up with 3 axes, 16 Inputs + 16 Outputs built-in, CanOpen, Local bus for I/O expansion, two available serial ports
CN55 	UR55 	UR55 numerical control built into the CN50 framework, set up with 5 axes, CanOpen, Local bus for I/O expansion, two available serial ports 4 analog inputs and 2 analog outputs with 16-bit resolution
TN18 	UR50 	UR50 numerical control connected via RS232 to the TN18 terminal, with 3 axes, 16 Inputs + 16 Outputs built-in, CanOpen, Local bus for I/O expansion, two available serial ports
TN18 	UR55 	UR50 numerical control connected via RS232 to the TN18 terminal, with 5 axes, CanOpen, Local bus for I/O expansion, two available serial ports 4 analog inputs and 2 analog outputs with 16-bit resolution
TN18 	SYNCR0 	SYNCR0 numerical control connected via RS232 to the TN18 terminal, with 10 axes, 92 local Inputs + 92 Outputs, CanOpen, Ethernet Digital bus for brushless motor one available serial port

At the same time, it may also be useful to briefly describe the more interesting applications produced.

CHARACTERISTICS APPLICATIONS	HARDWARE USED	DESCRIPTIVE NOTES
Plasma cutting machine	Tn18 + Ur50	Two-axle fitting machine, 16 inp. + 16 out. Cutting program produced with office CAD and transferred via serial port or Memory-Pen to the NC memory
Glass cutting system	Tn18 + Ur50	2-axle linear cutting system, 16 inp + 16O Cutting program produced with office CAD and transferred via serial port or Memory-Pen to the NC memory
Steel rolling machine	Tn18 + Syncro rack	Machines up to 9 axles, 8 inp + 24O Self-learning function for implementing work programs.
Sheet steel pressure Loading and Unloading System	Tn18 + Syncro rack	System with up to 10 axles for operation with the same two-cell unit (Loading and Unloading) interfaced via NC to the bending machine.