



power control PC85

Performance for stationary machines

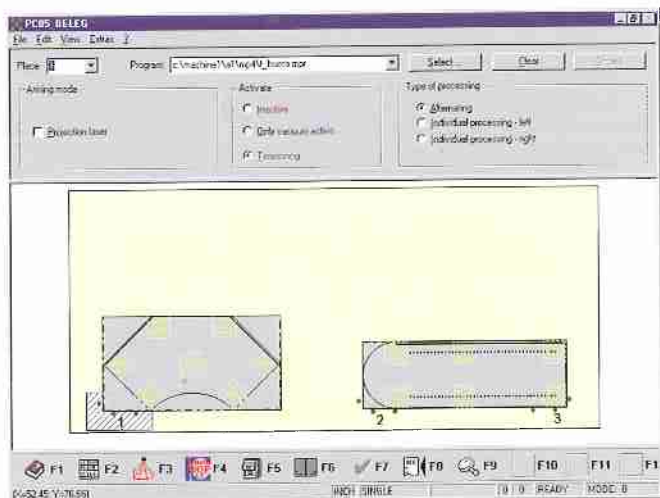
The flexibility and universal application scope of stationary machines make them a popular option. The power control system PC85 ensures that the machine is capable of mastering the necessary wide range of functions.

The PC85 control system with its sophisticated control engineering highlights compliance with the most stringent requirements with regard to processing speed and processing quality.

- Maximum workpiece contour fidelity coupled with high feed rates and acceleration due to digital drive technology, look-ahead function and torque dampening
- Parallelization of sequences due to multiple channel technology
- Elimination of disturbing influences from electromagnetic sources

- (e.g. motors) on signal transmission due to the use of fibre optic cables
- Absolute path measurement systems for reliable operation and minimal referencing times
- Regulated spindles with speed monitoring for optimum routing quality
- Flexibility through field bus CAN: Interfaces to gluing unit, vector units, automated clamping systems and much more
- Servicing convenience due to configuration of machine programmable logic controller (PLC) in the international standard IEC61131.

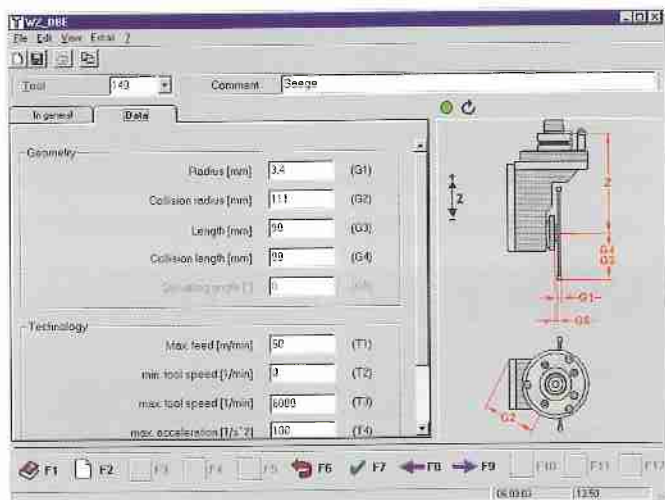
Information at a glance



Graphic space allocation

The space allocation function allows the user to determine which workpiece is produced in which clamping location. By providing a graphic display of the affected workpiece selection, the PC85 control system offers maximum reliability and convenience.

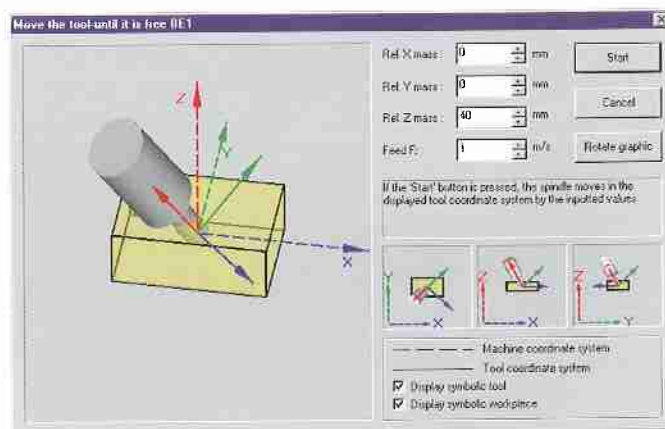
- Graphic support in all areas e.g. for preview during the selection of files
- Integrated job list control
- Barcode control possible (Option)
- Actuation of projection lasers possible
- Long file names for clearly organized program management
- Optimized tool change during multiple loading of different workpieces
- Integration capability in production line control system WoodLine for application in a production cell (e.g. with feeding device) or machine line



Graphic tool database

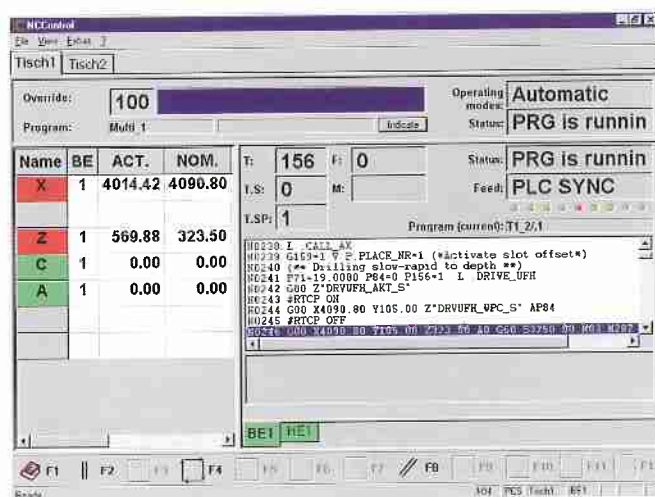
The graphic tool database editor permits tool data to be reliably and conveniently entered and edited.

- Graphic depiction of the tool
- Facility for users to store their own pictures, e.g. photos
- Sketches to illustrate the tool characteristic data for each tool type



With ECS (Effector Coordinate System):

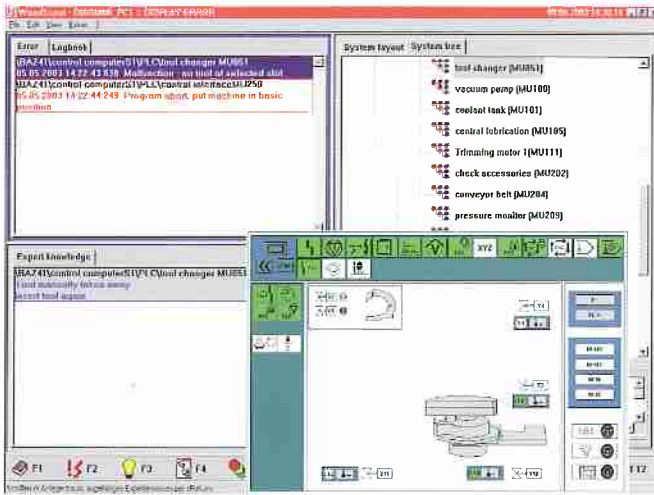
Switchover to a coordinate system at the tool tip permits a tool to be conveniently moved clear following program interruption, e.g. in oblique boreholes or for three-dimensional processing.



Graphic CNC processing

In the CNC operation mode, the status of the machines relative to the machine axes, and the situation during program processing is displayed.

Productivity through woodScout

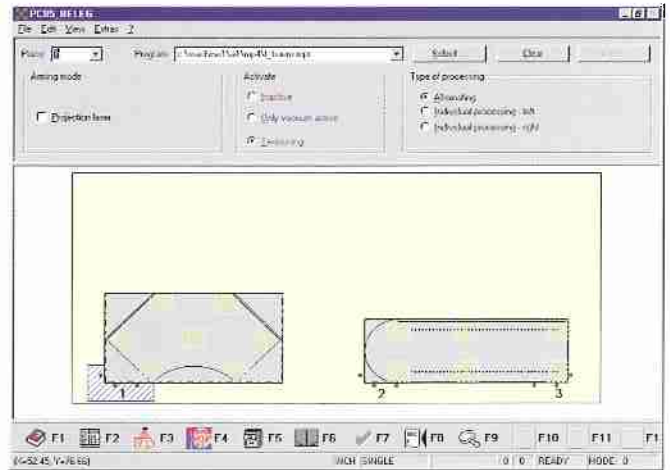


Diagnostic system woodScout (Option)

This system provides a user-friendly display of error messages and a graphic visualization of machine statuses. The woodScout system permits systematic troubleshooting and results in substantially increased system availability.

- Easily understandable error messages in plain text
- Prevention of follow-up error messages
- Clear localization of faults
- Learning capability due to assignment of causes and actions taken in response to faults (user and expert knowledge)
- Increased productivity due to systematic troubleshooting
- Visualization of machine status, as well as sensor and actuator activity on different levels

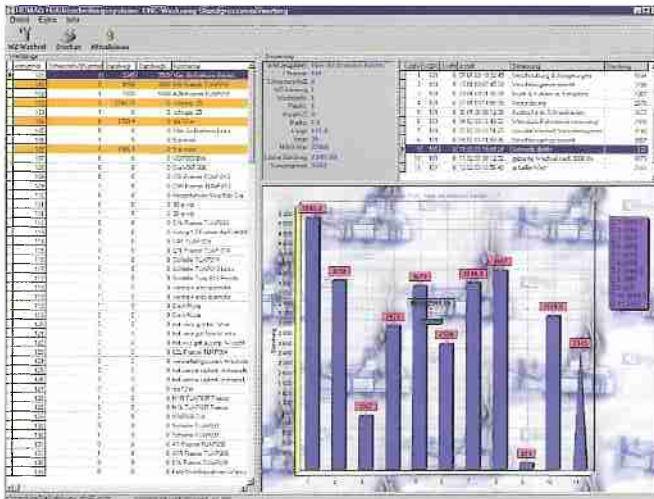
- Reduction of tooling costs
- Increased availability of the system as a result of prompt tool exchange
- Increased workpiece quality due to prompt tool exchange
- Reduced quality costs



woodWOP 5.0:

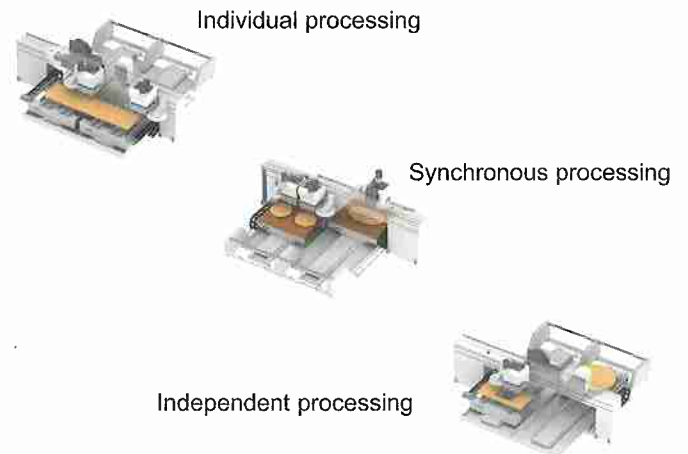
The workshop-oriented programming system

The PC85 control system naturally also encompasses the workshop oriented programming system woodWOP. With over 10000 installations, woodWOP represents today's woodworking standard. Rapid familiarization and a comprehensive range of functional features ensure that operators have a reliable command of the machine and its functions. Extensive informative material is available on woodWOP and its many supplementary products.



Tool service life determination to reduce tooling costs and increase quality (Option)

Tooling costs represent a major factor in determining the economy of machine and plant operation. With its tool service life determination feature, the PC85 control system offers a module designed to monitor and document tool deployment. The working paths (central paths) are totalled for each tool and this information used to optimize tool deployment and as a basis for selecting the optimum tool for the job. This also allows an informed decision regarding the best time to send tools for resharpening.



IPO (Intelligent Process Optimization)

Intelligent Process Optimization (IPO) is a comprehensive software package based on the PC85 control system for the intelligent separation (granulation) and nesting of processing programs. This ensures that in gantry machines, as many spindles as possible are in operation simultaneously. The sequence used when processing two workpieces is parallelized to ensure maximum time savings with the individual, synchronous or fast change operating modes. Patent pending.

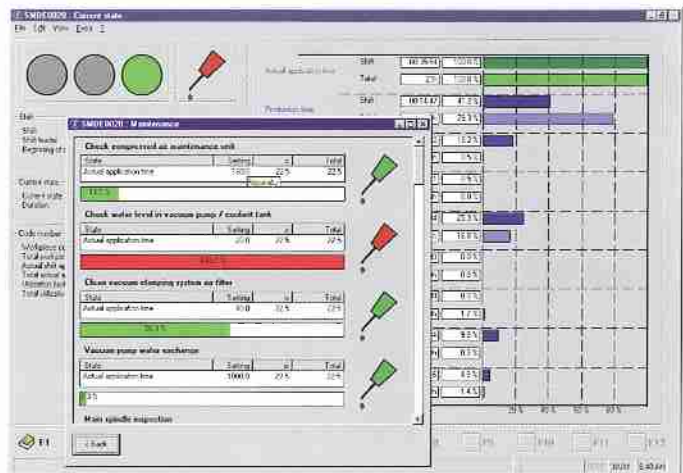
We speak your language

Online language changeover

The PC85 control system is now available in 17 different national languages. Alongside the European languages, Chinese and Japanese are also supported. Changeover from one language to another is possible in running operation by pressing a button. This is an enormously useful function for our service technicians.

PC85 hardware: intelligent PCs

Alongside the real-time components of the modular power control functions, a high-performance industrial PC is available as a hardware platform for PC85. As well as performance, particular importance is attached here to efficient data backup. The control system PC85 comes with two hard discs of which at least one is integrated in a changeover frame. The machine works with one hard disk, while the other is used for data backup and kept in the safe. As data backup is performed using an identical medium, 1:1 backup is possible. This method, known as "cloning", ensures that in the event of damage to the first hard disk, the machine can simply continue to operate using the second back-up disk. This back-up strategy is unique in the woodworking machinery sector. The PC85 control system also features an uninterruptible power system (UPS) as standard. The industrial PC's software also provides optimum preparation for assistance by means of remote servicing, with the whole range of remote diagnostic functions available from remote control through to data transmission.



schuler MDA basic

This standardized software package is used for the acquisition of important machine data. Another substantial benefit of the system is that it provides timely indication when machine maintenance is due to be performed.

- Entry of piece numbers and ACTUAL deployment times
- Integrated indication of due maintenance work

schuler MDA professional (Option)

With the schuler MDA professional function, the PC85 control system helps create greater transparency for the production process. This upgraded machine data acquisition option offers the following functions in addition to the benefits of the basic version:

- Breakdown of ACTUAL deployment time according to production time, set-up time, downtime due to faults and interruption time
- Breakdown of interruption time according to root causes
- Shift management
- Graphic evaluations in the form of statistics or track records
- Extensive records
- Feedback to the MOS system of the company sbs is possible for central evaluation across several machines



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