

## woodWOP 5.0 The Homag Group CNC programming system

woodWOP is a workshop-oriented programming system (WOP) developed specifically for Windows which makes consistent use of the Windows performance benefits.

woodWOP offers the same user convenience as Windows applications. This applies to cut and paste functions, for example, as well as to the insertion of processing operations and zooming. This means a minimum amount of time spent learning the program, and maximum user convenience using the familiar Windows tools.

### From workpiece description to the CNC program

The workpiece geometry can be quickly and conveniently generated using a variety of draw functions. Macros are available for insertion of various processing sequences. These are assigned to the previously programmed contours. Depending on the tool and unit equipment of the machine, the machine post processor generates an optimized NC program for the programmed tool. Any required set-up programs are also automatically generated to indicate the position of the suction cups.



# The Homag Group CNC programming system

## A macro for each processing sequence

There is no need for you to program the machine, only to describe the workpiece. This requires no previous CNC experience. There is a macro available for each processing sequence:

- Drilling
- Trimming
- Recessing pockets
- Grooving
- Corner notching
- Saw cutting
- etc. ...

## Free-form pocket

Pockets of any shape can be recessed parallel to the contour. This permits recesses to accommodate inserted elements to be quickly and easily programmed.

## Matrix macro

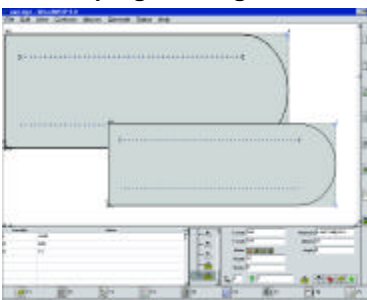
The matrix macro permits a "loop" to be programmed, for example for acoustic ceilings. The holes series is automatically repeated corresponding to the workpiece width.

## Graphic tool selection



By coupling woodWOP to the tool database, graphic tool selection is possible. All data important for programming, such as radius and sense of rotation etc. are displayed. There are cut-in and cut-out routines available for the tools, eliminating the need to manually program the cut-in and cut-out paths.

## Variant programming



woodWOP is configured for variable part programming. This allows coordinates and technological parameters to be entered not only using values but also variables and formulas, so permitting the generation of variant programs. The side of a cabinet, for instance, is generated only once.

When a change of measurement occurs, all processing sequences such as the drilling of series holes or trimming recesses for fittings adjust automatically. In addition, each macro and each value can be linked to a condition, e.g. IF..THEN..ELSE.

## Component technology



Repeated part programs such as processing operations for fittings or standard processing sequences can be programmed as components and then conveniently reused at a later date. Each fitting type is only programmed once and is then available for all future workpieces.

## Suction cup selection

A suction cup suggestion indicates the placement of clamping elements corresponding to the programmed contours and pro-

cessing sequences. These positions can be corrected using the mouse.

## Collation of programs

Many workpieces such as work tops, doors and windows are composed on a modular basis from part programs, (e.g. work top = shape+connectors+recesses + ...). The use of woodWOP permits programs to be ideally collated. The system does not simply string the programs together but also optimizes the processing sequence, ensuring minimal tool changes. If the characteristics of a workpiece have already been recorded in an ERP system or a trade-specific package, the woodWOP PRJ interface allows the finished program to be automatically generated.

## File preview and MPR browser



In order to allow effective use of the growing number of programs in the long term, the graphic preview offers an invaluable aid to operation by simplifying the selection of files. The

MPR browser can be used for the graphic management of woodWOP files and whole directories. Making use of drag & drop technology, programs can also be simply loaded or added.

## Graphic unit display

Units and tools are graphically displayed. Gluing and flush trimming units are displayed true to scale. Details such as impact buttons and tracing pads are also displayed.

## Context-sensitive online help

The documentation supplied in the local language can be opened if required to the right page by pressing a button.

## Interfaces

For link-up to additional software components (CAD, CAD/CAM or ERP), a variety of interfaces are available:

- CAD interface (DXF) for adoption of geometry data from all popular CAD systems (Option)
- CAD/CAM interface (MPR) for adoption of geometry and processing data, also for complex 3D processing sequences
- Interface to ERP systems (PRJ) and trade-specific packages (furniture, interior fittings, windows, doors) available as an option.

## System requirements

- PC with Windows 98, ME, NT4, 2000 or XP
- At least 128 MB RAM
- 50 MB free hard disk space
- Screen resolution at least 800 x 600 pixel

## Machine system requirements

- PC control



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