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HOMAG Group woodWOP 6.0 - 3D now standard in all Venture processing centres

There is no other CNC programming system that looks back on such a successful development history as woodWOP from the company HOMAG. With 25,000 satisfied customers worldwide, woodWOP stands as the most frequently installed programming system, and has become established as the accepted standard for CNC training in vocational colleges and universities.

Since the middle of the year, woodWOP 6.0 has become a standard feature of all Venture and Vantage series from HOMAG and WEEKE sold worldwide. The latest woodWOP Version 6.0 sets whole new standards in CNC programming. Customers are particularly enthusiastic about the speed at which a flawless production program can be produced at the office PC, and about the high safety standard provided by the new 3D visualization.

HOMAG launched its own programming system wood**WOP** 1.0 back in 1992, marking a whole new era. It was the company's entry into the construction of processing centres with edge banding that necessitated this development. Since those early days, wood**WOP** has been continuously further developed.

wood**WOP** 6.0 takes the machines into the third dimension. With realistic 3D depiction of the workpiece and all the associated processing operations, programmers are immediately able to recognize whether incorrect values have been entered. Several workpiece views can be opened simultaneously, leaving no possibility of undiscovered errors. As soon as the suction cups are programmed in wood**WOP**, the suction cups and consoles are displayed as 3D models by the program graphics. The

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completed program can be simulated using the wood**Motion** processing simulation system. This simulation graphically depicts the programmed processing operations, creating a virtual finished workpiece as if it had been actually produced on the machine – with an indication of the processing time.

Maximum safety is ensured at the machine by the work area monitoring system **collision**Control (only available for HOMAG machines). As soon as an impending collision situation is predicted, **collision**Control brings the machine to a stop before the actual collision can occur, and sends out a warning message to the machine's monitor. With this innovative software combination made up of wood**WOP** 6.0, wood**Motion** and **collision**Control, the HOMAG Group is offering a safety package unique in the marketplace, which allows even new users with no experience to quickly learn how to program and work with CNC machines.

Another success factor is the open file format used for storing the woodWOP programs (*.mpr). This permits external software providers to achieve simple, compatible link-up with the utmost stability over years of use. This allows output of all known trade-specific programs in the woodWOP format and simple integration into an existing customer software landscape.

wood**WOP** 6.0 is reverse compatible to wood**WOP** 4.0, meaning that it is able to simply adopt older programs. But HOMAG goes one decisive step further: wood**WOP** 6.0 is also forward compatible, allowing programs generated in the office using a new version to also be used on machines on which an older version is installed.

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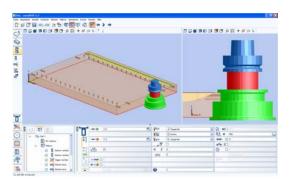


Fig. 1:

wood**WOP** 6.0 offers an overview from several perspectives. The virtual workpiece allows most errors to be detected straight away

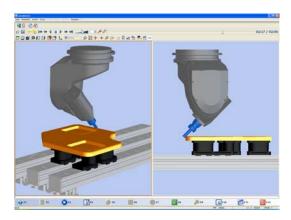


Fig. 2:

The software module wood**Motion** displays a precise image of what the machine is programmed to execute

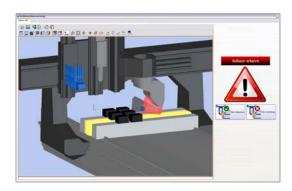


Fig. 3:

Improved safety: The collision monitoring system **collision**Control detects an impending collision and automatically stops the machine

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For more information, contact

HOMAG Holzbearbeitungssysteme AG

Homagstraße 3 – 5 72296 SCHOPFLOCH GERMANY http://www.homag.de

Alexander Prokisch

Head of Marketing & PR PRACTIVE Tel. +49 7443 13-3122 Fax +49 7443 13-8-3122 alexander.prokisch@homag.de

Author Kai Friebe

Product Manager Application Software Tel. +49 7443 13-3110 Fax +49 7443 13-8-3110 kai.friebe@homag.de