

CNC-Processing Center Venture 109



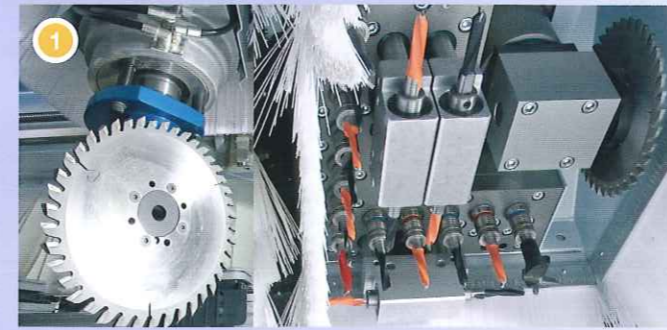
2014/2015



Venture 109

Highlights:

- Routing dimension in Y direction: 1550 mm
- Vector speed X/Y 80 m/min
- Simple positioning of the vacuum cups through the pin laser
- 24 vacuum cups in standard version
- K-table – tubeless vacuum clamping system
- Second row of stops in standard version
- Electronic surveillance of all stops
- High-Speed 7500 – 18 drilling spindles (12 vertical / 6 horizontal)
- Patented quick change system for the vertical spindles
- Patented automatic spindle clamping system
- High-Speed grooving saw (0° / 90°)
- 16 HP (12 kW) HSK routing spindle
- C-axis 360° interpolated
- FLEX5 interface (optional)
- 16 places for tool changing (2 x 8)
- Tool pick-up station
- Program-controlled extraction connection for an optimum extraction behavior
- 2 CNC-controlled Z-axes
- Software bundle for machine and PC



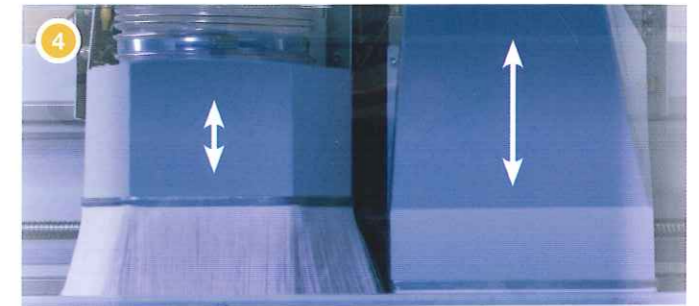
Configuration

- Powerful 16 HP (12 kW) HSK routing spindle
- 1 C-axis 360° interpolated
- 18 drilling spindles (12 vertical/6 horizontal) (as an option 31 drilling spindles (21 vertical/10 horizontal))
- 1 grooving saw Ø 125 mm (0° / 90°)



2 tool changing systems in standard version

- 8-fold tool changer moving in X-direction
- 8-fold tool changer (pick-up)



2 CNC-controlled Z-axes

- Optimal dust extraction and bigger operative range for processing aggregates
- Weight distribution of the mass (processing aggregates) to the two Z-axes → more stability, higher processing quality



Electronic cylinder surveillance

Enhanced security with the electronic surveillance of lower cylinder positions at all integrated stops



Program-controlled extraction connection

Ensures an optimum extraction behavior

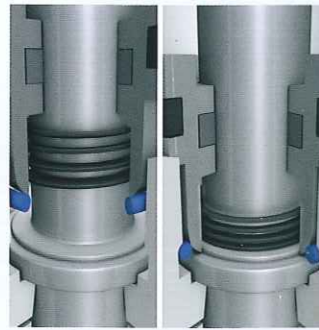


All inclusive | Hardware



High-Speed 7500

Spindles with 1500 - 7500 RPM incl. the patented quick change system



Automatic spindle clamping system

Patented system for exact drilling depth at any time with different materials



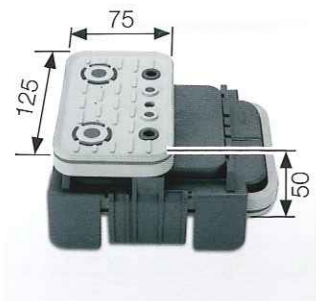
Workpiece feeding rail

4 solid feeding rails to ease »sheeting« of heavy workpieces



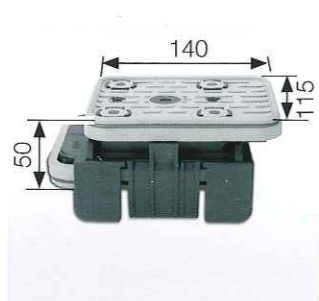
K-table

Tubeless vacuum clamping system



Vacuum cups

6 narrow vacuum cups



Vacuum cups

18 vacuum cups



Sealed energy cable

Secure and protected cable guide (X-Y-Z)



Laser positioning

Simple positioning of the vacuum cups through the pin laser



Linear guiding system

Sealed »long-life« linear guiding system



Tool pick-up station

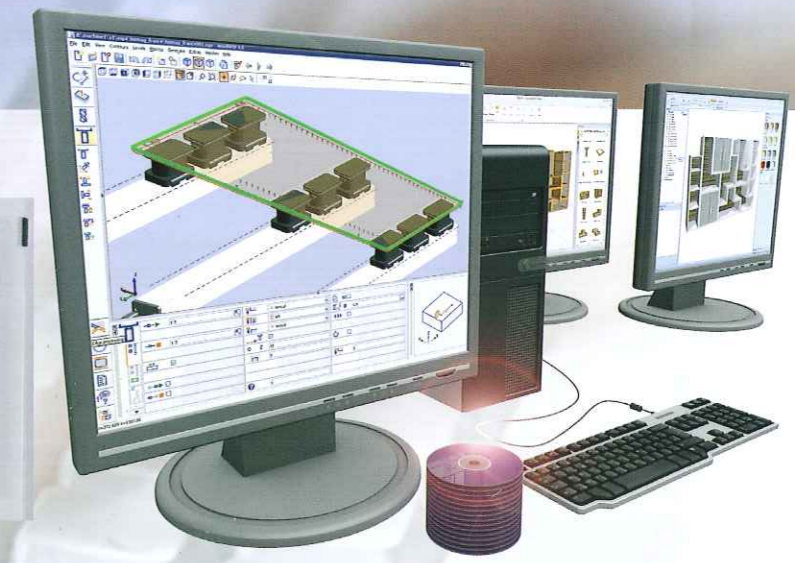
Secure and quick fitting of the tool changer

All inclusive | Software



powerControl

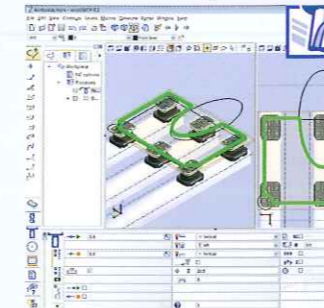
- 17" TFT-monitor
- Intel®Core™ 2 Duo Processor
- Provision teleservice capability
- USB frontside bus
- Ethernet connection 10/100 Mbit
- Ergonomic hand terminal
- Position of the switch cabinet »freely selectable« (left/right)



Please use our website:

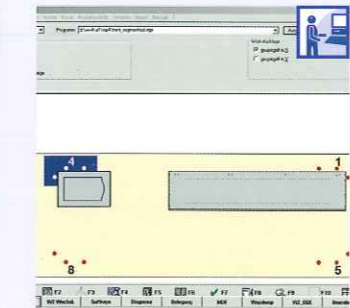
- Worldwide largest forum for woodWOP:
www.woodWOP-Forum.de
- Free Download of woodWOP-components:
www.weeke.com → Products → Software

Software | Machine



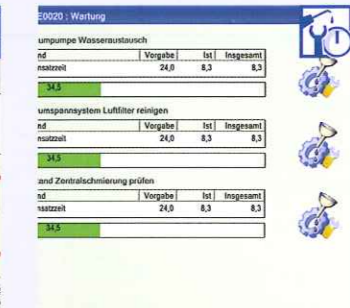
woodWOP

- Modern software based on Windows®
- More than 30.000 installations worldwide



MCC

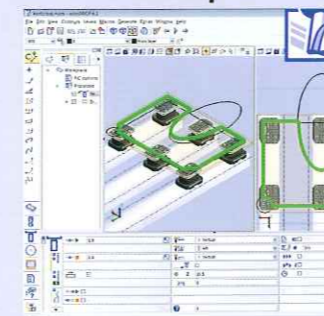
- Simple control of main machine functions through soft keys
- Graphical loading



Machine Data Recording

Machine Data Recording – collecting and evaluating machine states via time meter and event meter

Software | Office



woodWOP

- Modern software based on Windows®
- More than 30.000 installations worldwide



woodWOP DXF Basic

- Interface for CAD-Data Import
- Basis to generate woodWOP programs

Options | Hardware/Software

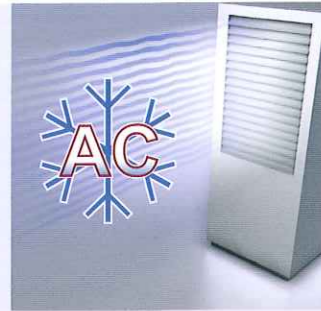
powerTouch – Touch the innovation

Simple | Integrated help and assistant functions are available to simplify working.

Uniform | powerTouch controls HOMAG Group machines using standardized operating elements and software modules with the same look and feel.

Ergonomical | Direct control using touch-sensitive touchscreen monitor which can be used to access machine functions.

Evolutionary | Standardized machine control combined with state-of-the-art operating concepts and standardized multitouch monitors.



Air-conditioning

Air-conditioned cabinet



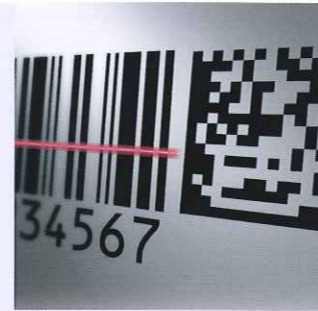
Multi clamping system

E.g. for frame and narrow parts



Chip conveyor

Chip conveyor integrated in the machine frame for disposing of the chips and waste parts



Barcode connection

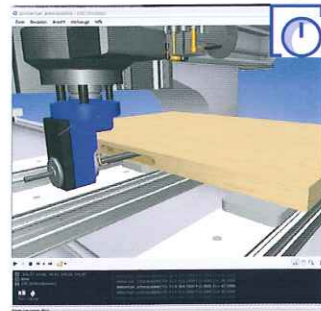
- Barcode scanner
- Supported barcodes:
 - 1D – Barcode
 - 2D – Data Matrix Code



Tilting stops for veneer overhang

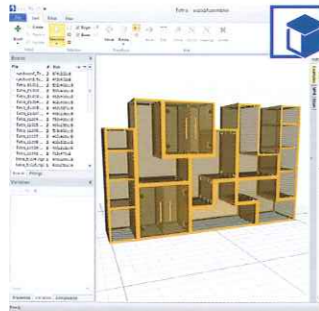
Guarantee simple positioning of panels with veneer overhang

OFFICE Package Basic



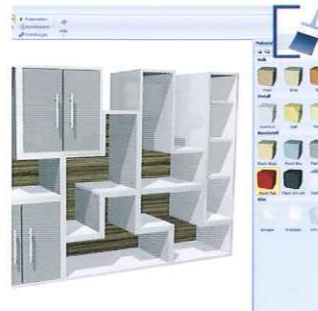
3D CNC-Simulator

- Simulates the processing in the order it is stored in the NC-program
- Allows time calculation
- Collision check of the vacuum cups



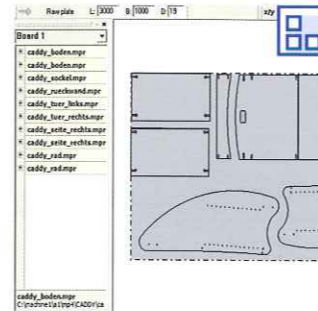
woodAssembler

- To visualize woodWOP-programs (MPR) in 3D
- Enables the construction of individual workpieces to finished objects



woodVisio

- Objects generated in woodAssembler or Blum Dynalog can be provided with a surface material
- The objects are displayed in a free-standing position



woodNest Basic

- Software for the Nesting of woodWOP-program



- woodWOP DXF Professional
- Machine Data Recording Professional



woodCAD/CAM

Creates reliability in the order and manufacturing process from the first sketch to the final product



powerTouch

Implements the HOMAG Group's new operating philosophy: Easy, equal, ergonomic and evolutionary.

Aggregates

HIGH PERFORMANCE



High Performance Sawing

Ø 220 mm



High Performance Drilling/Sawing/Routing

2 spindles, Ø 220 mm



High Performance Cam box router

2 spindles, Ø 16/20 mm



High Performance Drilling/Sawing

swivelling, (0° - 90°), Ø 180 mm



High Performance Planing Aggregate



Drilling/Sawing/Routing

Ø 70 mm | 130 mm



Drilling/Sawing/Routing

2 spindles, 220 mm



Drilling/Routing

4 spindles, 50 mm



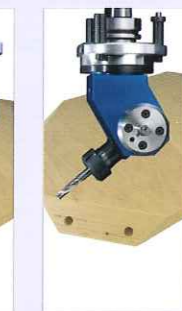
Cam box router

2 spindles, Ø 16/20 mm



Drilling/Sawing, swivelling

(0° - 90°), Ø 180 mm



Drilling/Routing, swivelling cranked

(0° - 90°)



Tracing routing aggregate with tracing ring

Ø 70 mm | 130 mm



CNC set-up trolley

- Processing tools and maintenance aids are centrally available
- appr. 1190 x 600 x 900 mm
- Max. capacity load: appr. 500 kg

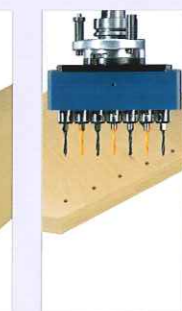


Tool box »STARTER KIT«

Top equipment – from the very start



Corner notching



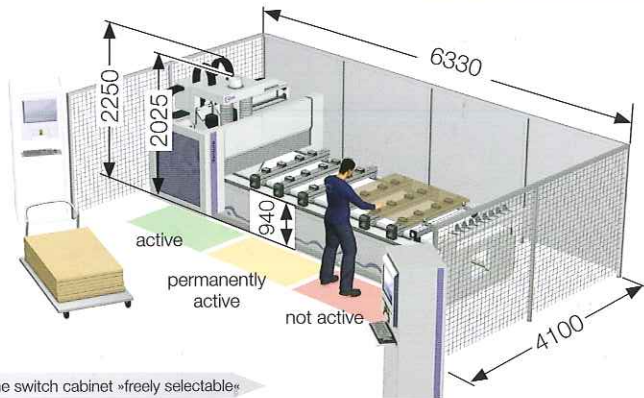
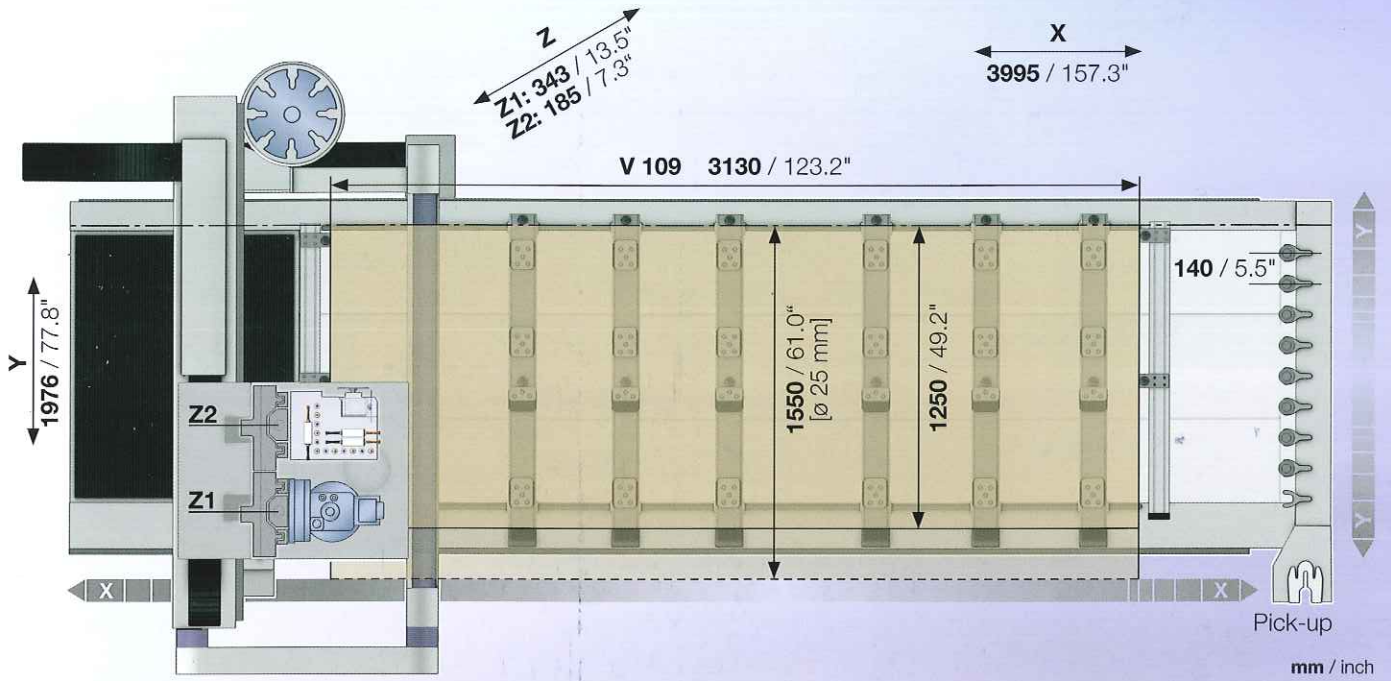
Drilling, 7 spindles

25 mm pitch

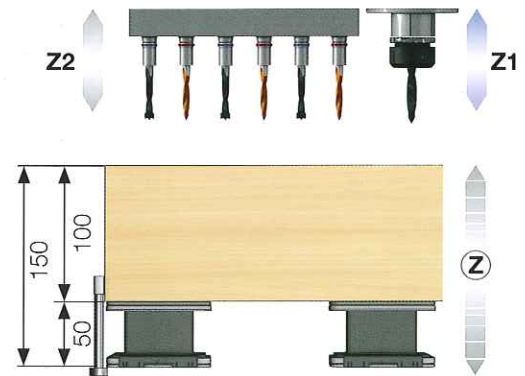


Fitting drilling head, 3 spindles

Technical data



Position of the switch cabinet »freely selectable«



		X	Y	Z
Working field	mm / inch	3130 / 123.2	1250 / 49.2	100 / 3.9
Travel range	mm / inch	3995 / 157.3	1976 / 77.8	Z1: 343 / 13.5 Z2: 185 / 7.3
Two-field operation	mm / inch	1260 / 49.6		
Alternating operation	mm / inch	1000 / 39.4		
Vector speed	m/min	(X - Y) 80 - (Z) 20		
Compressed air connection	inch	R ½		
Compressed air required	bar	7		
Dust extraction port	mm	Ø 200		
Dust extraction volume	m ³ /h	min. 3170		
Total machine weight	kg	appr. 3700		
Electrical power – total connection load	kW	18		
Switch cabinet L - W - H	mm	800 - 800 - 1970		



**Choose the Original
Choose Success!**

For the Success of Original Technology
A VDMA Campaign

Equipment as described in this brochure is subject to technical changes and further developments. Some photos show options which are not included in the standard machine configuration. Technical data refer to standard equipment and are not binding for the order.

Member of the HOMAG Group



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