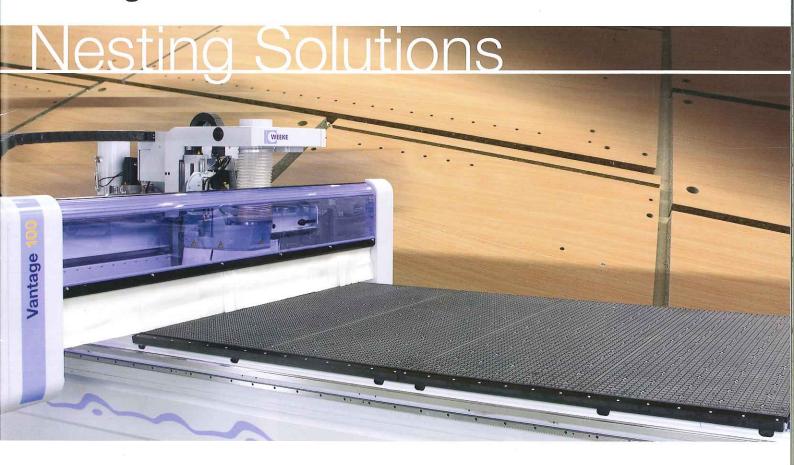


CNC Gantry-Processing Centers Vantage 100



Vantage 100 - The compact nesting machine in gantry design

Our CNC processing centers today already offer technology of the future.

Why? - Tradition. »Made in Germany« is our motivation and our commitment. Customers around the world have come to expect the highest standards from this quality label. And we meet those expectations.



- Gantry style for highest precision over the total working width
- Sealed »long-life« linear guiding system
- 2 synchronised digital servo-drives in X-direction
- High acceleration
- Vector speed X/Y 96 m/min
- The whole working field is reachable with all processing tools
- Electronic surveillence of all stops
- Efficient use of energy through high vacuum performances and simultaneously minor power consumption
- 12 HP (9 kW) HSK routing spindle (optionally: 16 HP (12 kW))
- Tool changing system (Pick-Up)
- Software bundle for machine and PC (option)

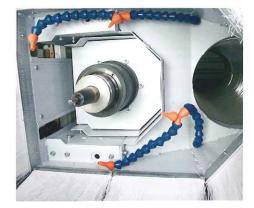
Nest & More Vantage







= 12 places



Configuration

- Standard: 12 HP (9 kW) HSK routing
- Optional: 16 HP (12 kW) HSK routing spindle



Tool changing system

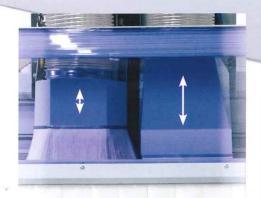
Vantage 100/710/714

• Depending on working field in standard: Vantage 100/480 = 7 places Vantage 100/510/512 = 8 places Vantage 100/610/612 = 10 places



MATRIX table PRO

- High flexibility
- Different vacuum cups available as option



2 CNC-controlled Z-axes in combination with drilling block

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



Program-controlled extraction connection

• For an optimum extraction behavior and economic use of extraction energy (ecoPlus)

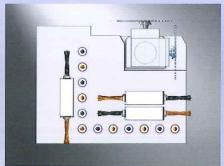


Synchronous drive

• 2 synchronised digital servo-drives in X-direction guarantee highest processing quality

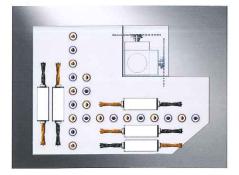
Options





High-Speed 7500 Drilling block | 12 spindles

- 12 vertical drilling spindles
- 4 horizontal drilling spindles in the X direction
- 2 horizontal drilling spindles in the Y direction
- 1 grooving saw Ø 125 mm (0° / 90°)



High-Speed 7500 Drilling block | 21 spindles

- 21 vertical drilling spindles
- 6 horizontal drilling spindles in X
- 4 horizontal drilling spindles in Y
- 1 grooving saw Ø 125 mm (0° / 90°)



Tool length control

• Following the tool change a tool length control is carried out and compared with the integrated tool data file



C-axis

- 0-360° more flexible processing possibilities
- For the use of aggregates



High-Speed 7500

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



FLEX5

- HIGH PERFORMANCE unit for drilling, sawing and routing
- You save up to 5 individual adapter units



Clamping elements

• Different clamping elements available as option



Tool changer

• Tool changing system, fixed behind the machine, 14, 28 or 42 places



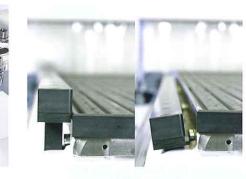
Extendable tool changing system

Would you like something extra? Our options provide all opportunities for a

perfect adjustment of your nesting machine to your requirements.

• Further tool changer places available: Vantage 100/480:

Vantage 100/510/512: +7 Vantage 100/610/612: +9 Vantage 100/710/714: + 11



Lowerable fence guide

• Suitable for safe outfeed of workpieces



Extension stop system

• 4 pneumatically lowerable aluminium stop cylinders (in front right or in front



Vacuum lever for raw panel positioning

 For automatic positioning of the raw panels against the fence guide.



Push-Off device for workpieces

- The Nest is pushed out
- Cleaning cycle possible
- Option: Push-off device with controlled Z axis





Barcode connection

- Barcodescanner / -software
- Supported barcodes:
 - 1D Barcode
 - 2D Data Matrix Code
- Every workpiece is excactly identified for the further workpiece flow

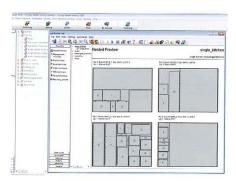


Central vaccum system

• Up to 3 vacuum pumps can be centralised collectively



Tool box »STARTER KIT«



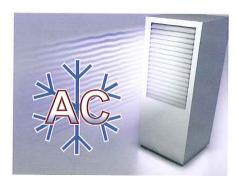
Cut Rite Nesting

Profi Nesting Software



Cut Rite Nesting Terminal

• Incl. Profi Nesting software, terminal, label printer and PC screen



Air-conditioning

· Air-conditioned switch cabinet

Vantage 100 with aluminium grid table

The optional aluminium grid table allows the positive locking of clamping elements and thus reliable fixture of the workpieces even under exposure to high hogging forces. By means of the table design, the vacuum transmission optimizes the distribution of the vacuum, reduces leaks and transmission losses and supersedes extensive installations.

The grid table is also suitable for aggregates due to different clamping elements with variable mounting heights.



Your benefits at a glance:

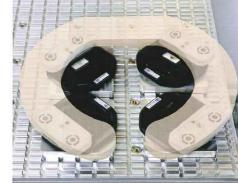
- Optimizes the distribution of the vaccum by the fine grid of the table
- Free definable vacuum surfaces reduce leaks and transmission losses
- Different clamping elements with variable mounting heights for more flexibility
- Reliable part fixture even under exposure to high hogging forces
- Also suitable for the use of aggregates
- Processing of wood-based composite materials provided, e.g. acryl glass





Processing example

• The possibilities to fix the workpiece on the narrow table grid provide a lot of flexibility for the applications



Processing example

• Due to rotatable vacuum cups even special shapes of the workpieces are possible without any problems



Clamping elements

• With diverse types of vacuum blocks it is also possible to carry out simple and quick horizontal processing on grid tables

Nesting – the method with four-fold "focus"...

We divide the typical nesting areas into four areas. The carcass production, the dividing and refining of furniture fronts, the processing of frame furniture as well as the very interesting possibilities for "advances materials", such as processing block elements, plexiglass, aluminium or alucobond.

Nesting Solutions





Carcass furniture

Advantages by nesting:

- Routing of all components required for a carcass
- Drillng, grooving in just one cycle
- Clamping elements also provide horizontal drilling



Processing of furniture fronts

Advantages by nesting:

- Fast dividing and refining of furniture fronts from one workpiece - everything in one cycle!
- The application of aggregates provides high flexibility for the further processing



Frame furniture

Advantages by nesting:

 High degree of utilization due to easy handling of "free" formed parts



Advanced Materials

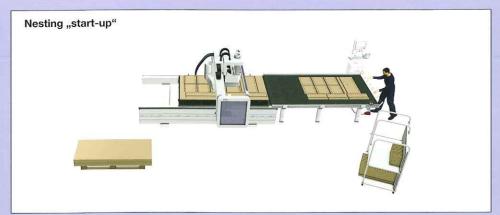
- High flexibility of processing possibilities of e.g. block elements, plexiglass or acryl glass
- Proper cutting of e.g. foam material, carpets or veneer
- High gloss polishing routing

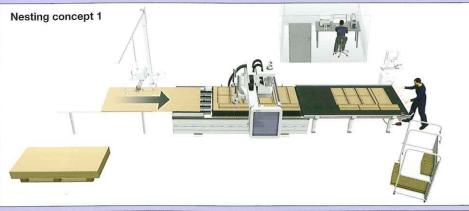
Discover the possibilities...

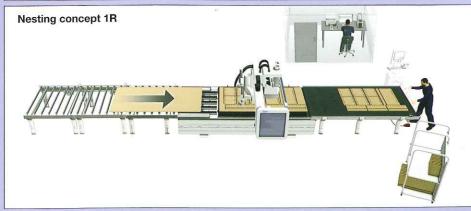
With the WEEKE nesting solutions you are always well-advised. Whether manual feeding of workpieces, by lifting carriage or by storage - we have always the proper concept for your application. You wish to identify, for example, the workpiece flow exactly by barcode?

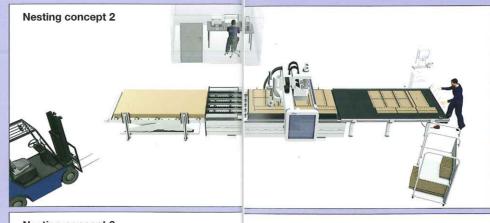
No problem!

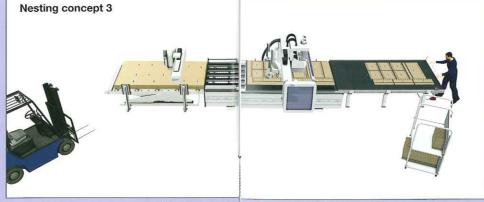
Nesting Solutions

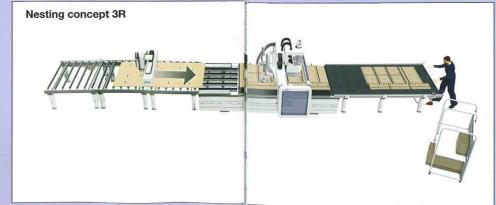


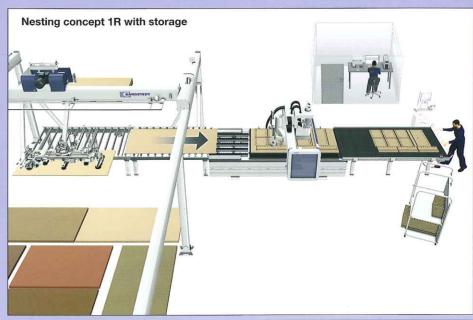


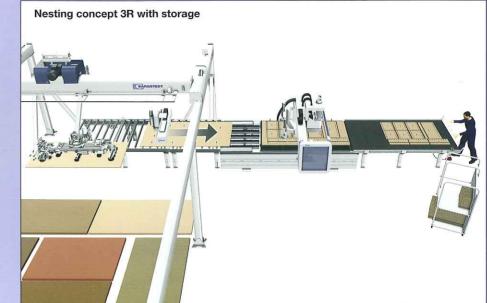












Hardware | Software

With this software package you are »Ready to Race«. You will receive one of the most established CNC-programming systems, the woodWOP software, which has proven itself by more than 30.000 installations worldwide.

Please use our website:

Worldwide largest forum for woodWOP:

www.woodWOP-Forum.de

Free Download of woodWOP-components:

www.weeke.com → Products → Software

Standard | Software Machine

powerControl

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

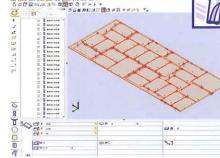
woodWOP

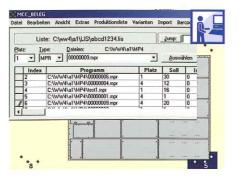
- Modern software based on Windows[®]
- · More than 30,000 installations world-

Production list software

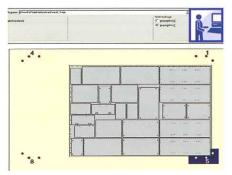
• For management and creation of product lists for individual manufacturing.











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

Machine data recording Basic

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



Options | Office Package "Premium"

woodWOP

- Modern software based on Windows[®]
- More than 30,000 installations worldwide

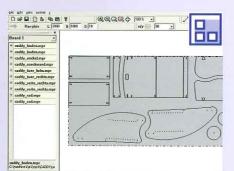
woodNest Basic

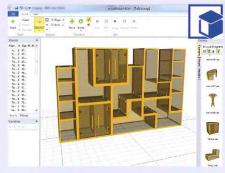
• Software for manual Nesting of shaped parts

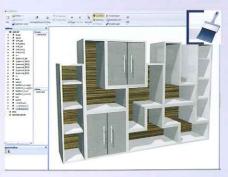
woodAssembler

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









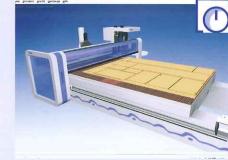
wood**Visio**

- Objects generated in woodAssembler or Blum Dynalog can be provided with surface materials
- The objects are displayed in a freestanding position



woodWOP DXF Basic

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



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

Aggregates



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



Drilling/Sawing/ Routing



Drilling/Routing/ Sawing

2 spindles



Drilling/Routing

4 spindles, 50 mm



Cam box router

2 spindles, Ø 16/20 mm



Drilling/Sawing, swivelling

(0° - 90°), Ø 180 mm



Performance

Planing Aggregate

Drilling/Routing, swivelling cranked



Tracing routing unit with tracing ring

 $(0^{\circ} - 90^{\circ})$

Ø 70 mm | Ø 130 mm



Drilling, 7 spindles

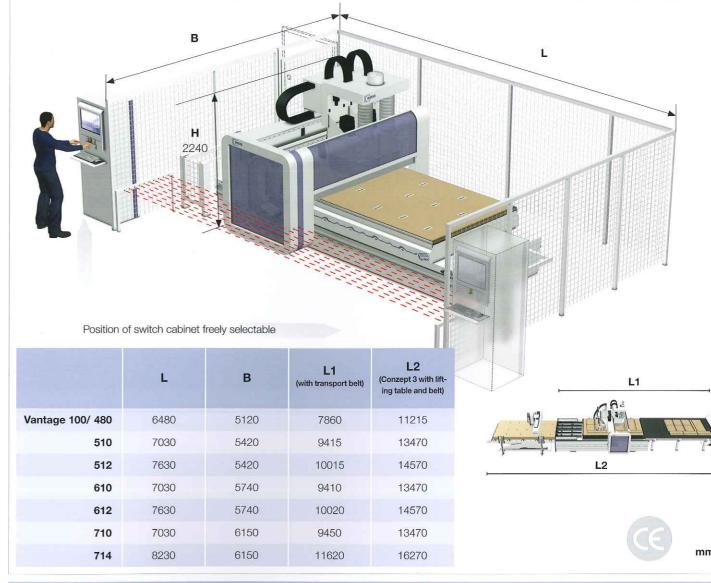
25 mm pitch



Fitting drilling head, 3 spindles



Technical data



	Width (mm)	Length (mm)	Thickness (mm)	Width (ft)	Length (ft)	Thickness (inch)	Vacuum capacity
/antage 100/ 480	1250	2500	100	4	8	3,94	300/360 m ³ /h 50/60 Hz
510	1550	3100	100	5	10	3,94	600/720 m³/h 50/60 Hz
512	1550	3700	100	5	12	3,94	600/720 m³/h 50/60 Hz
610	1850	3100	100	6	10	3,94	600/720 m³/h 50/60 Hz
612	1850	3700	100	6	12	3,94	600/720 m³/h 50/60 Hz
710	2250	3100	100	7	10	3,94	900/1080 m³/h 50/60 Hz
714	2250	4300	100	7	14	3,94	900/1080 m ³ /h 50/60 Hz

Vector speed	m/min	(X - Y) 96 - (Z) 20
Compressed air connection	inch	R ½
Compressed air required	bar	7
Dust extraction port	mm	Ø 200
Dust extraction volume	m³/h	min. 3170
Total machine weight 480 - 714	kg	appr. 2800 - 5200
Electrical power - total connection load	kW	19,5 - 32,5
Switch cabinet	mm	1000/800 x 800 x 1970