

CNC Gantry-Processing Centers Vantage 100















Configuration

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



Tool changing system

• Depending on working field in standard: Vantage 100/480 = 7 places Vantage 100/510/512 = 8 places Vantage 100/610/612 = 10 places Vantage 100/710/714 = 12 places



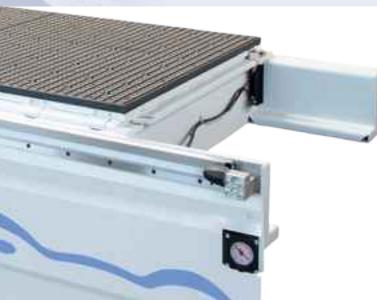
MATRIX table PRO

- High flexibility
- Different vacuum cups available as option

Vantage 100 - The compact nesting machine in gantry design

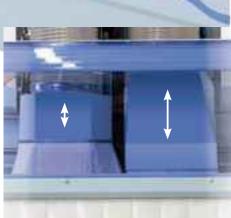
Our CNC processing centers today already offer technology of the future.

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.



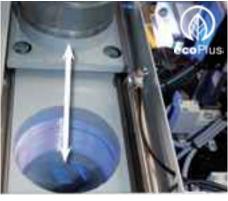
Highlights:

- 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)



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

• Further tool changer places available:

Vantage 100/480: + 6 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 left)



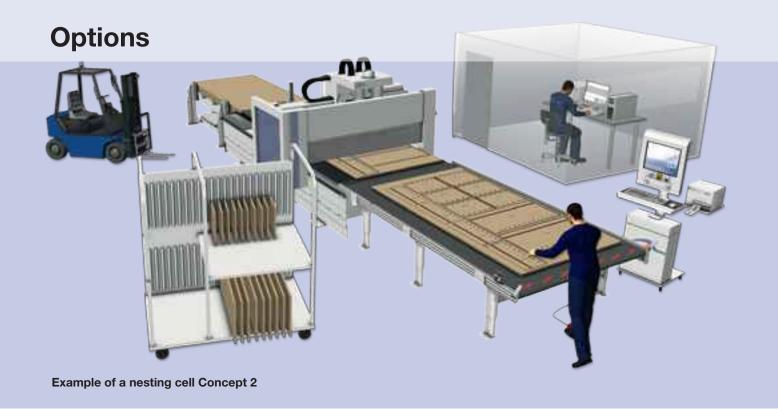
Vacuum lever for raw panel positioning

• 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







- 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

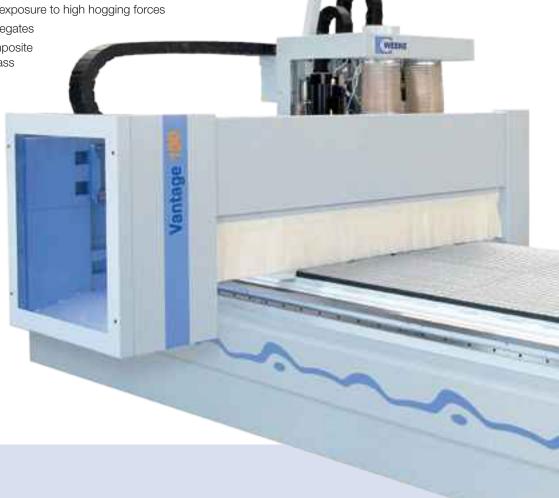
• Free definable vacuum surfaces reduce leaks and transmission losses

• 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

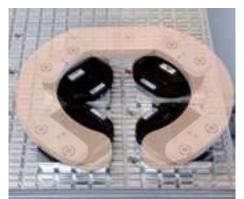






Processing example

• 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.



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
- 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



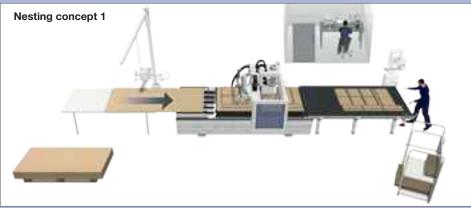
Advanced Materials

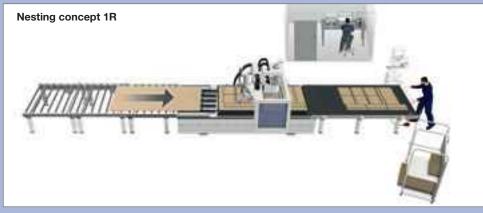
- High flexibility of processing possibilities of e.g. block elements, plexiglass or acryl glass
- Proper cutting of e.g. foam material, carpets or veneer
- High gloss polishing routing

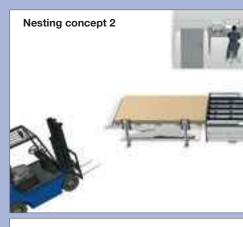


With the WEEKE nesting solutions you are always well-advised. Whether manual feeding of workpieces, by lifting carriage or by storage - we have always the proper concept for your application. You wish to identify, for example, the workpiece flow exactly by barcode? No problem!

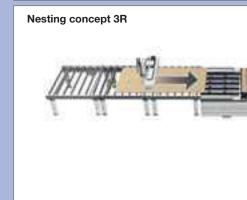










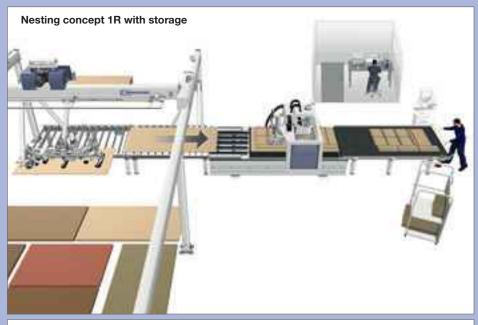


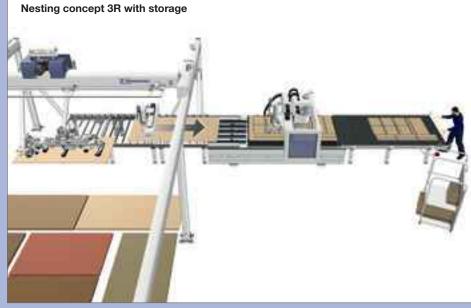
Nesting Solutions











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:

Free Download of woodWOP-components:

www.woodWOP-Forum.de

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)

wood WOP

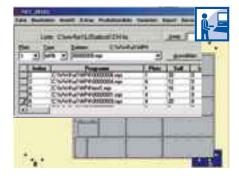
- Modern software based on Windows®
- More than 30,000 installations worldwide

Production list software

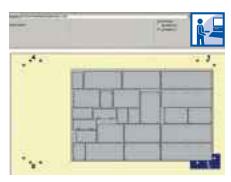
 For management and creation of product lists for individual manufacturing.





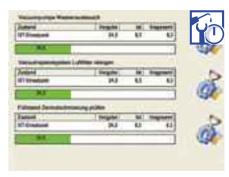






MCC

- 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

Optional

Optional | powerTouch

- powerControl with powerTouch
- 21" Full-HD multitouch display with wide screen 16:9
- Provision of teleservice capability
- USB frontside bus
- Ethernet connection 10/100 Mbit
- Ergonomic hand terminal
- Position of switch cabinet freely selectable (right/left)
- available as of June 2015



Options | Office Package "Premium"

wood**WOP**

- Modern software based on Windows[©]
- More than 30.000 installations worldwide

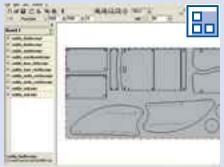
woodNest Basic

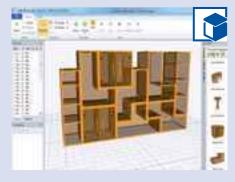
• Software for manual Nesting of shaped parts

woodAssembler

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









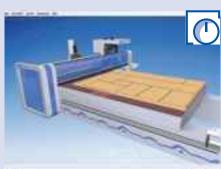
wood**Visio**

- Objects generated in wood**Assembler** 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



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



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



Drilling/Routing, swivelling cranked

(0° - 90°)



Tracing routing unit with tracing ring

Ø 70 mm | Ø 130 mm



Drilling, 7 spindles

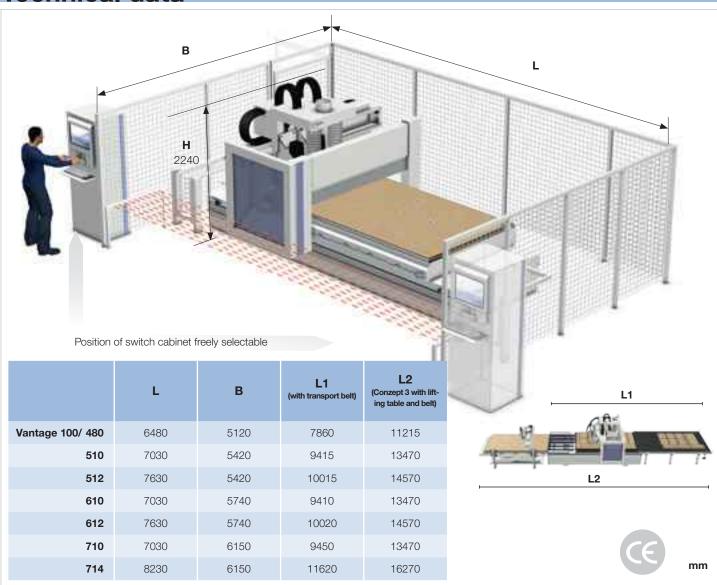
25 mm pitch



Fitting drilling head, 3 spindles



Technical data



Vantage 100 Series – working fields								
	Width (mm)	Length (mm)	Thickness (mm)	Width (ft)	Length (ft)	Thickness (inch)	Vacuum capacity	
Vantage 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 m ³ /h 50/60 Hz	
512	1550	3700	100	5	12	3,94	600/720 m ³ /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 m³/h 50/60 Hz	

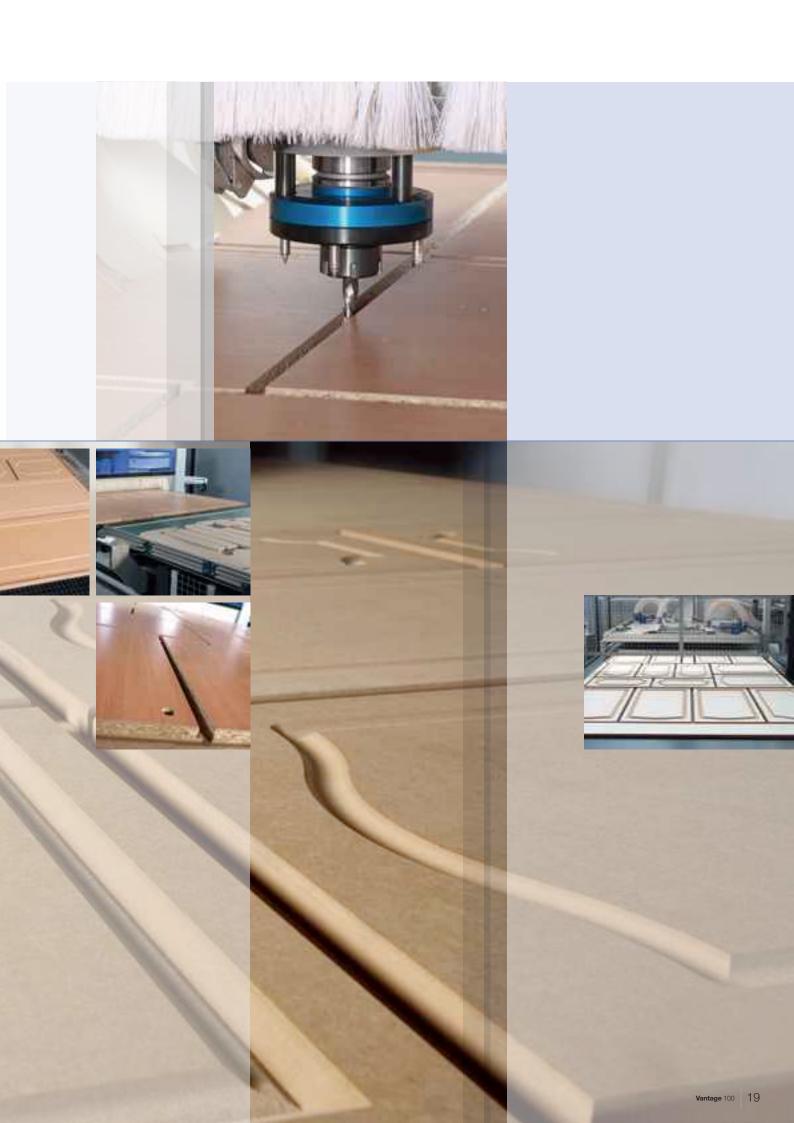
Vector speed	m/min (X - Y) 96 - (Z) 20
Compressed air connection	inch R½
Compressed air required	bar 7
Dust extraction port	mm Ø 200
Dust extraction volume	m³/h min. 3170
Total machine weight 480 - 714	kg appr. 2800 - 5200
Electrical power - total connection load	kW 19,5 - 32,5
Switch cabinet	mm 1000/800 x 800 x 1970

Vantage 100 | Nesting

The magic always lies in the detail

Theodor Fontane









You may contact us - WORLDWIDE

- Teleservice possibility via basic internet connection (TSN possibility)
- Competent spare parts service
- WEEKE Communication: Up-to-date information at all times:

www.weeke.com

• Any questions, new ideas, criticism & praise to: info@weeke.de

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