

# CNC Processing Centers BMG 111 series

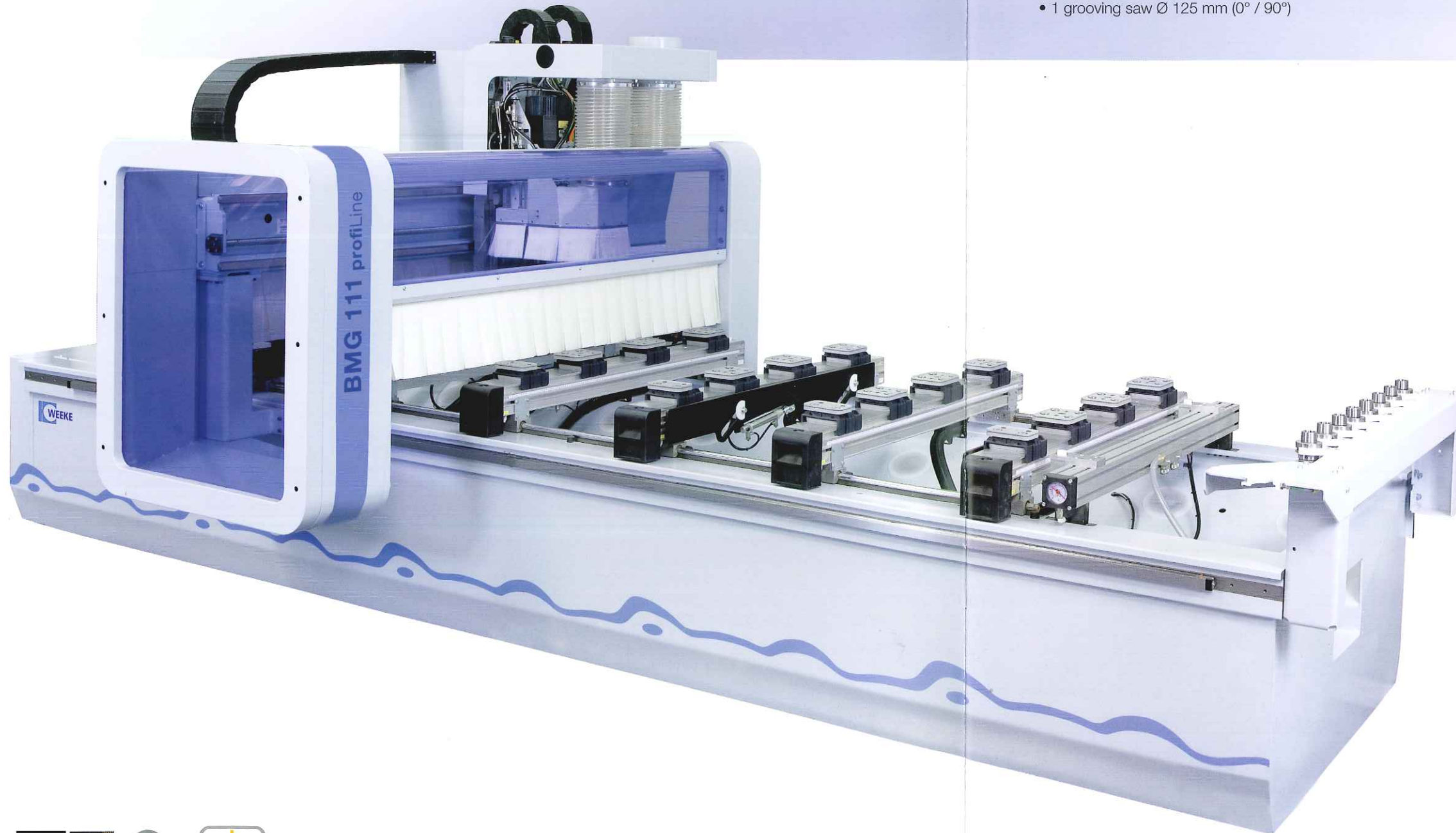




# BMG 111 series

## 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
- Second row of stops in standard
- Electronic surveillance of all stops
- Patented quick change system for the vertical spindles
- Patented automatic spindle clamping system
- Program-controlled extraction connection for an optimum extraction behavior
- 2 CNC-controlled Z-axes
- Software bundle for machine and PC



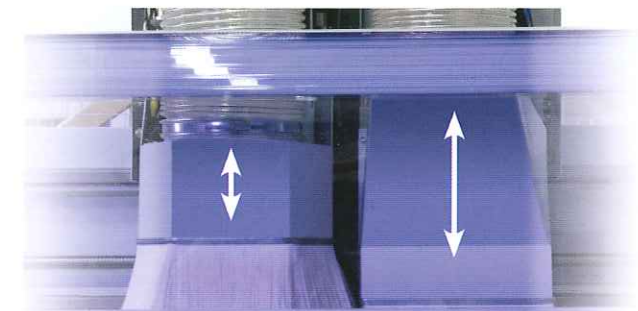
### Example configuration [V 109]

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



### Optional: Tool changing systems

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



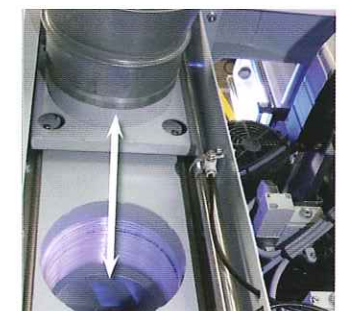
### 2 CNC-controlled Z-axes

- 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

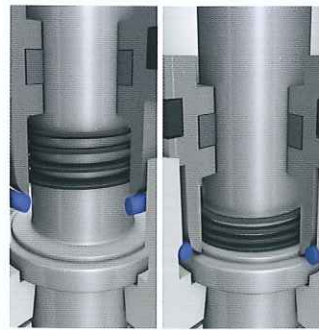


## All inclusive | Hardware



### High-Speed 7500

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



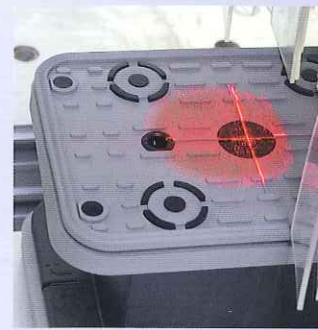
### Automatic spindle clamping system

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



### Sealed energy cable

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



### Laser positioning

Simple positioning of the vacuum cups through the pin laser



### K-table

Tubeless vacuum clamping system



### Linear guiding system

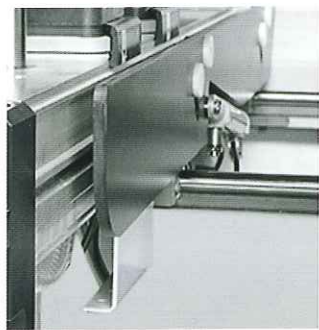
Sealed »long-life« linear guiding system



### Tool pick-up station

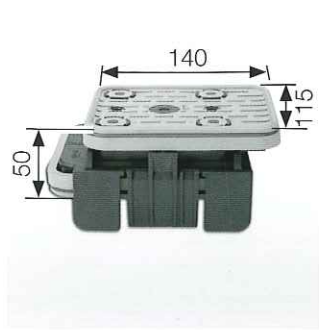
Secure and quick fitting of the tool changer

## Depending on the table size...



### Workpiece feeding rail

Solid feeding rails to ease »sheeting« of heavy workpieces



### Vacuum cups

- 18 vacuum cups (table length 3130)
- 22 vacuum cups (table length 4500)



### Vacuum cups

- 6 narrow vacuum cups (table length 3130)
- 8 narrow vacuum cups (table length 4500)

## All inclusive | Software



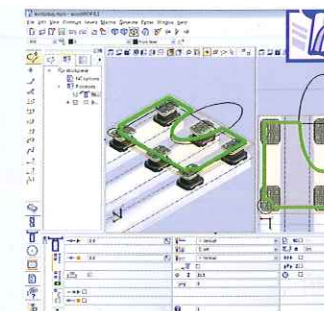
### powerControl

- 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)



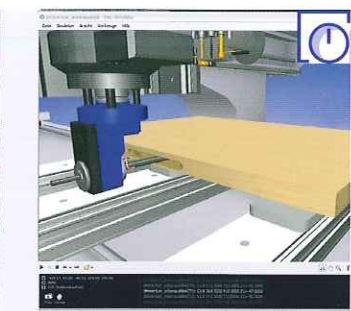
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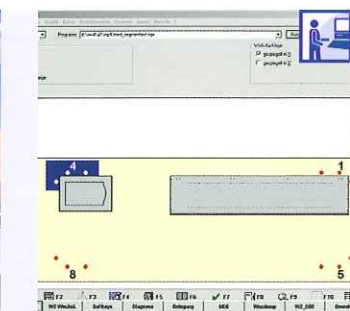
### woodWOP

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



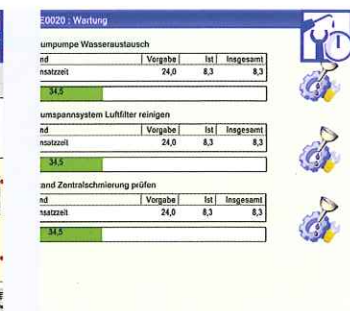
### 3D CNC-Simulator

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



### MCC

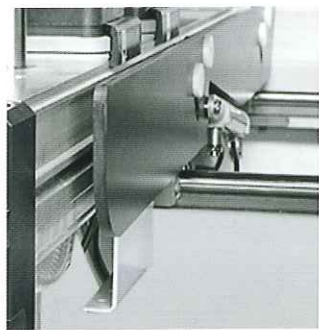
- Simple control of main machine functions through soft keys
- Graphical loading



### Machine Data Recording

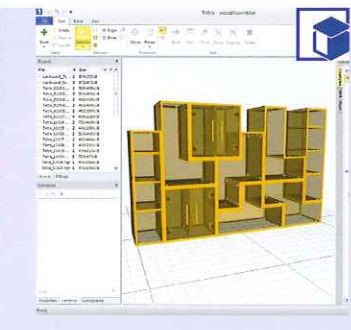
Machine Data Recording – collecting and evaluating machine states via time meter and event meter

Software | Machine



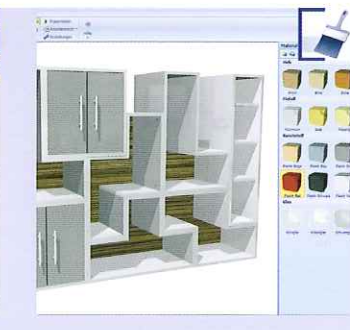
### woodWOP

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



### 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



### woodWOP DXF Basic

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

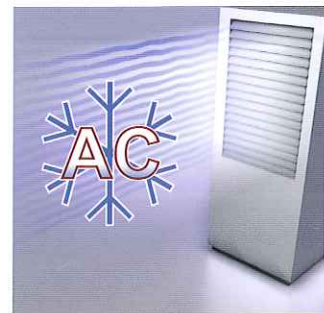
Software | Office



# Options

## powerControl with powerTouch

- 21,5" Full-HD multitouch display with wide screen 16:9
- Front USB interface
- Ethernet connection 10/100 Mbit



### 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



### Tilting stops for veneer overhang

Guarantee simple positioning of panels with veneer overhang



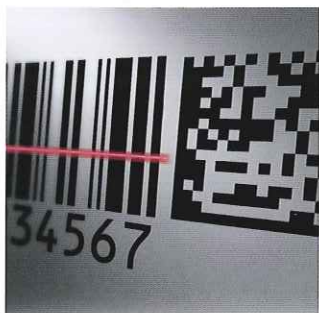
### Software

- 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



### Barcode connection

- Barcode scanner
- Supported barcodes:
  - 1D – Barcode
  - 2D – Data Matrix Code
- Every workpiece is exactly identified for the further workpiece flow



### CNC set-up trolley

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

# Options | 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

## FLEX5



### Drilling/Sawing/Routing\*



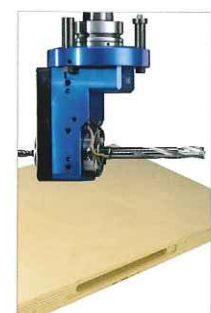
### Drilling/Routing/Sawing\*

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°)

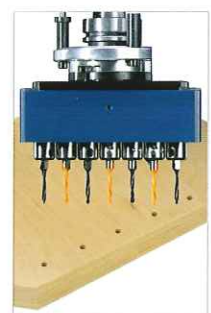


### Tracing routing aggregate with tracing ring\*

Ø 70 mm | 130 mm



### Corner notching\*



### Drilling, 7 spindles\*

25 mm pitch



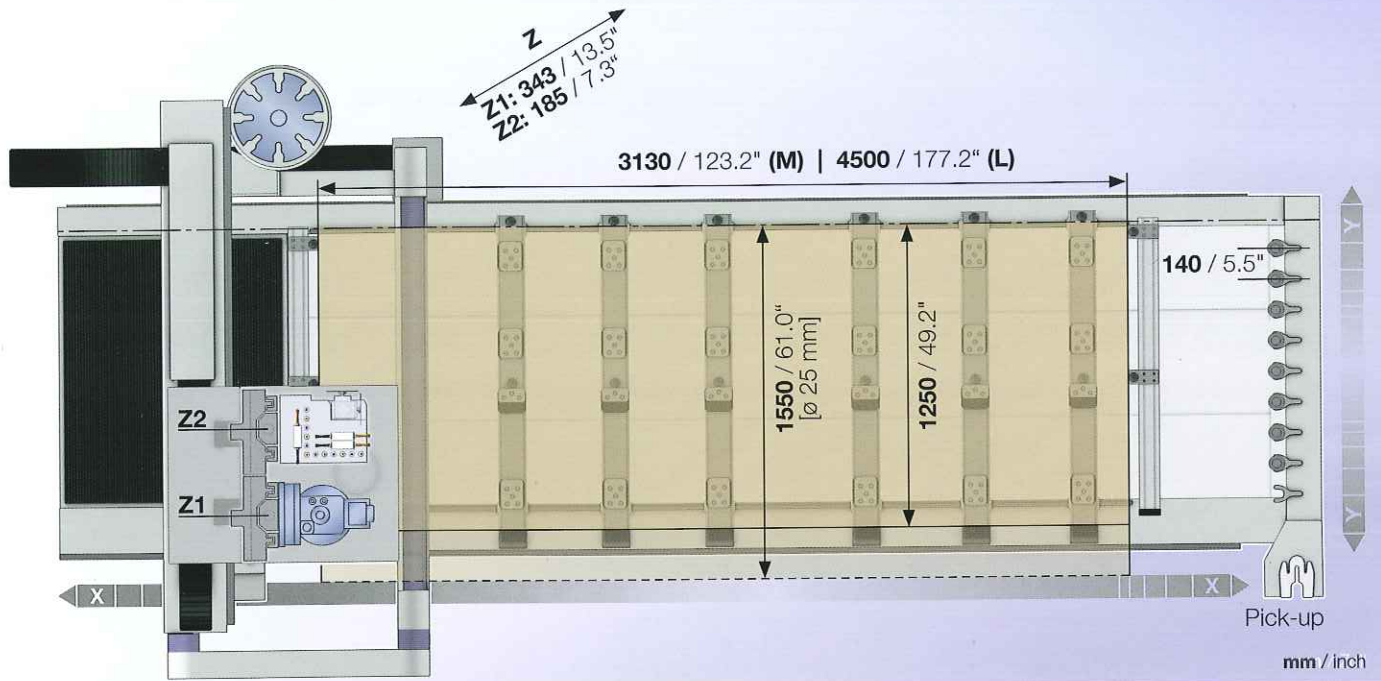
### Fitting drilling head, 3 spindles\*

\* For maximum tool lengths and diameters see the respective technical data sheet

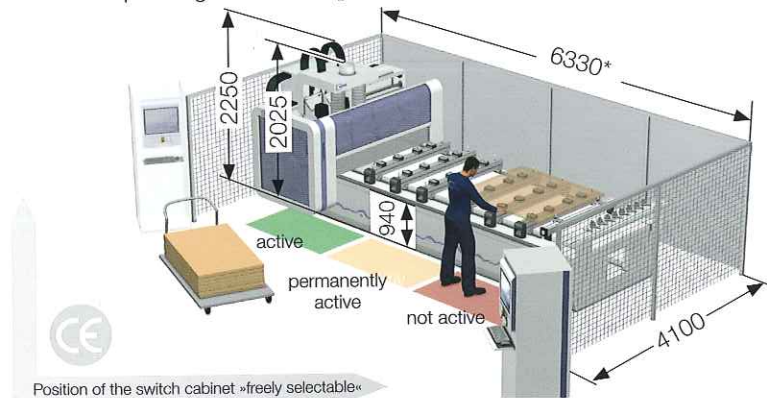


# Technical data | Configuration [V 109]\*

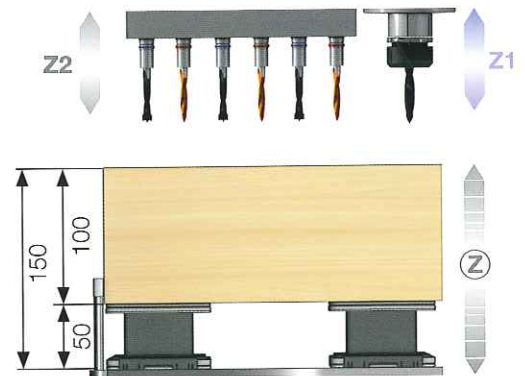
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\* **Note:** Depending on the configuration, please see the data in the corresponding technical data sheet.



Position of the switch cabinet »freely selectable«



Configuration [V 109]*		M (X)	L (X)	Y	Z	
Working field	mm / Zoll	3130 / 123.2	4500 / 177.2	1250 / 49.2	100 / 3.9	
Travel range	mm / Zoll	3995 / 157.3	5365 / 211.2	1976 / 77.8	Z1: 343 / 13.5	Z2: 185 / 7.3
Two-field operation	mm / Zoll	1260 / 49.6	1930 / 76.0			
Alternating operation	mm / Zoll	1000 / 39.4	1580 / 62.2			
Vector speed	m/min	(X - Y) 80 - (Z) 20				
Compressed air connection	Zoll	R ½				
Compressed air required	bar	7				
Dust extraction port	mm	Ø 200				
Dust extraction volume	m³/h	min. 3170				
Total machine weight	kg	appr. 3700 (M) / appr. 4700 (L)				
Electrical power – total connection load	kW	20,5				
Switch cabinet L - W - H	mm	800 - 800 - 1970				



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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.