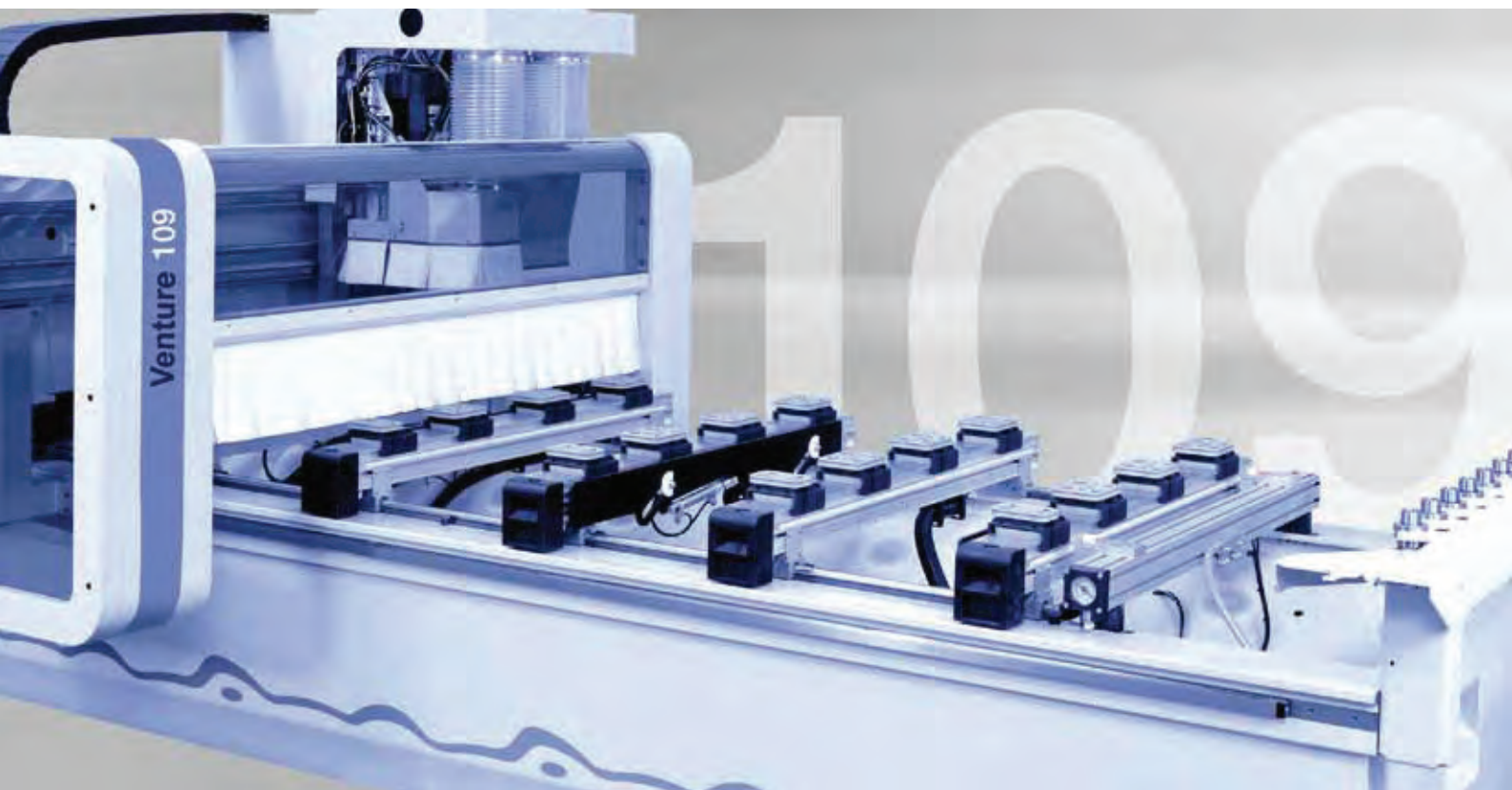


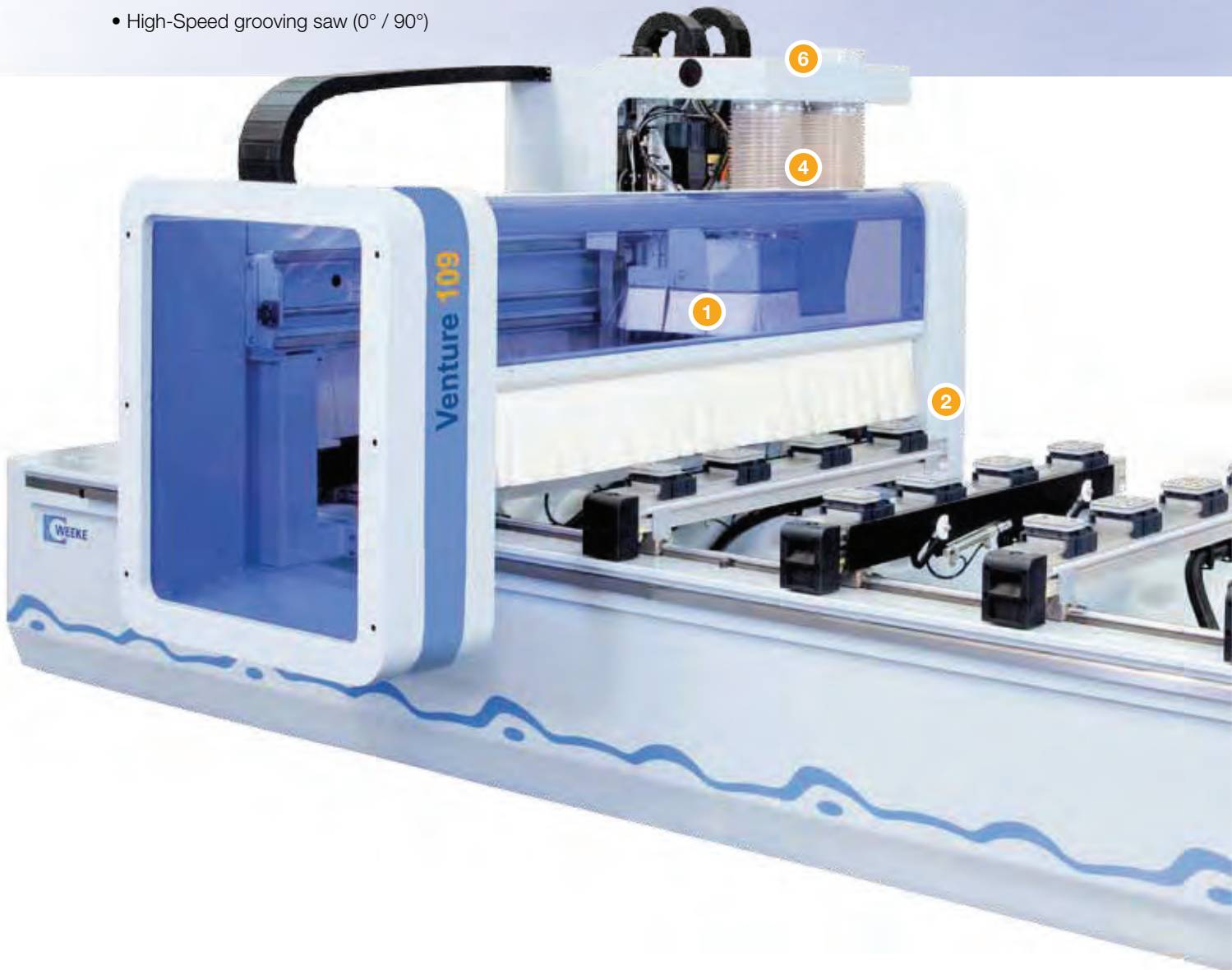
# CNC-Processing Center Venture 109



# Venture 109

## Highlights:

- 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 (option)
- 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
- Toolbox »STARTER KIT«





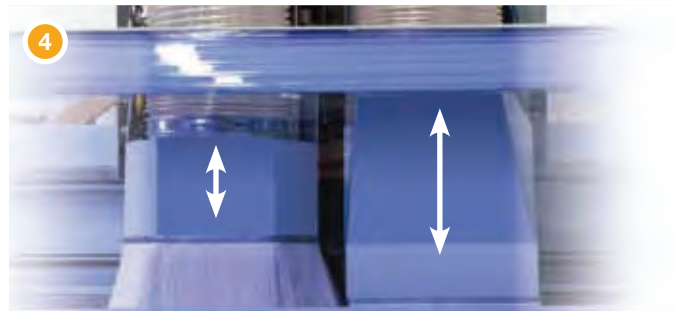
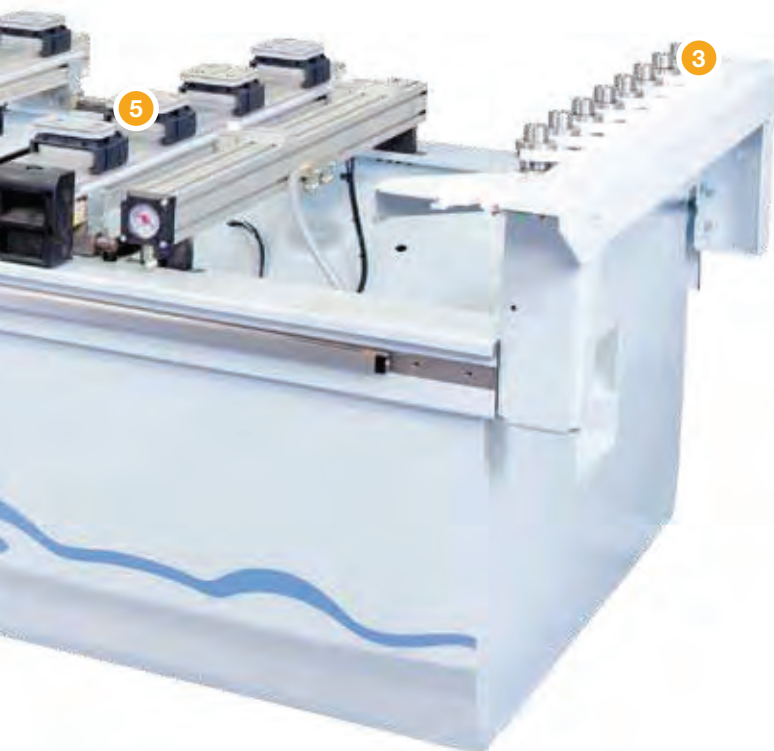
**Configuration**

- 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°)



**2 tool changing systems in standard version**

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



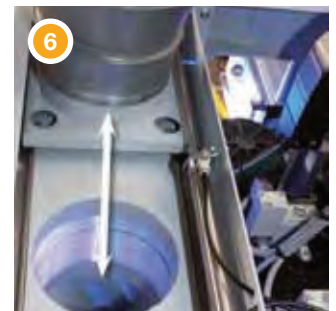
**2 CNC-controlled Z-axes**

- 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 – »Standards«



## 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



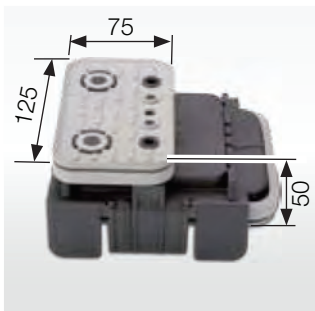
## Workpiece feeding rail

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



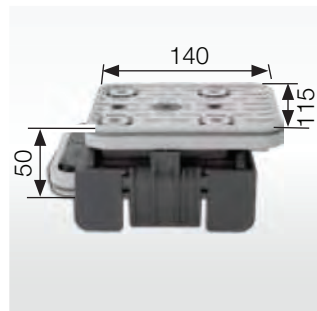
## K-table

Tubeless vacuum clamping system



## Vacuum cups

6 narrow vacuum cups



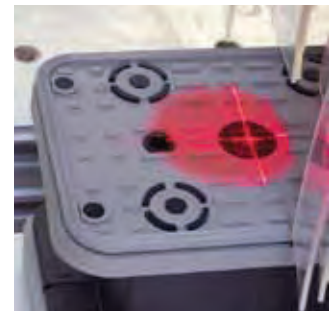
## Vacuum cups

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



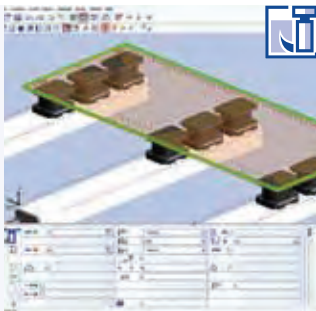
## Toolbox »STARTER KIT«

Top equipment – from the very start



### power control PC85

- 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)



### woodWOP

- Modern software based on Windows®
- More than 16.000 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



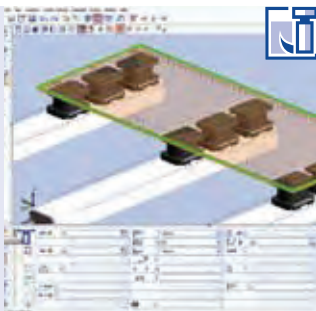
### MCC

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



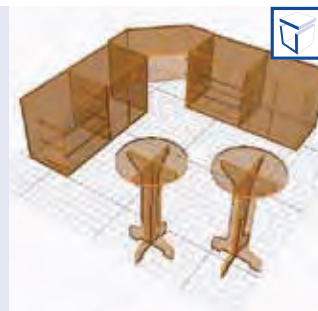
### Machine Data Recording

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



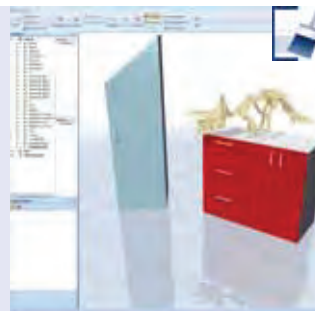
### woodWOP

- Modern software based on Windows®
- More than 16.000 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 Dynaloc 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



# 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.de**

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

## Options



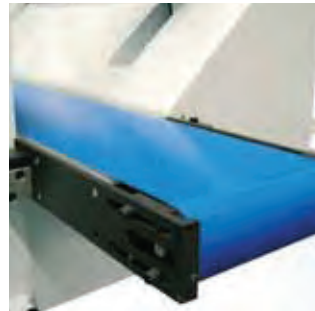
### Air-conditioning

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



### Software

- woodWOP DXF Professional
- Machine Data Recording Professional
- Barcode Software



### Tilting stops for veneer overhang

Guarantee simple positioning of panels with veneer overhang



### woodCAD/CAM

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



### Barcode connection

Barcodescanner / -software



### 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

# Aggregates

**FLEX5**  
.....

## HIGH PERFORMANCE



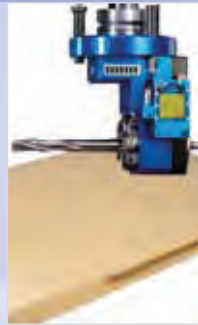
**High Performance Sawing**

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/Routing**

swivelling  
(0° - 90°),  
Ø 180 mm



**High Performance Planing Aggregate**



**Drilling/Routing/Sawing**



**Drilling/Routing/Sawing**

2 spindles,  
180 mm | 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**

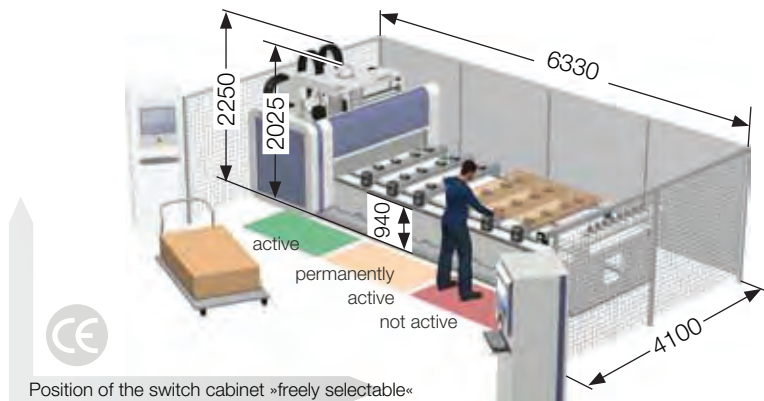
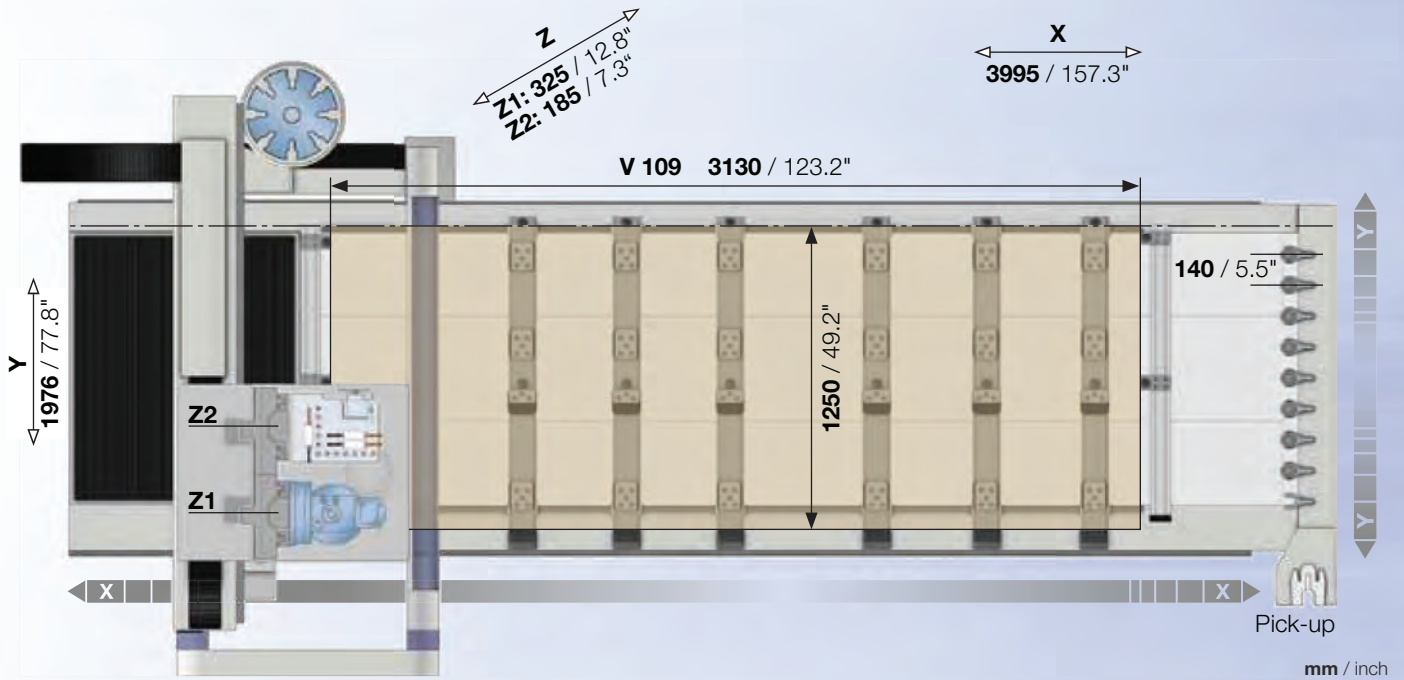
25 mm pitch



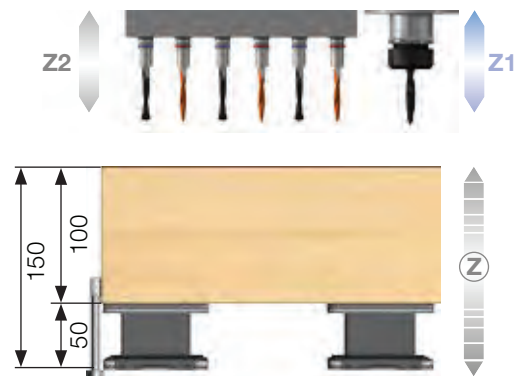
**Fitting drilling head, 3 spindles**



# 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: 325 / 12.8	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	m³/h	min. 3170			
Total machine weight	kg	appr. 3700			
Electrical power – total connection load	kW	17,5			
Switch cabinet L - W - H	mm	800 - 800 - 1970			



NOTE: 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.

Contact your U.S. distributor for more information:

## stiles

3965 44th St SE  
Grand Rapids, MI 49512  
p 616.698.7500  
f 616.698.9411  
www.stilesmachinery.com

## WEEKE

**WEEKE Bohrsysteme GmbH**  
Benzstrasse 10-16  
33442 Herzebrock-Clarholz  
GERMANY  
Phone: +49 5245 445-0  
Fax: +49 5245 445-44 139  
info@weeke.de – www.weeke.de