

All in one. Powerful CNC-Processing.

HE HOMAG

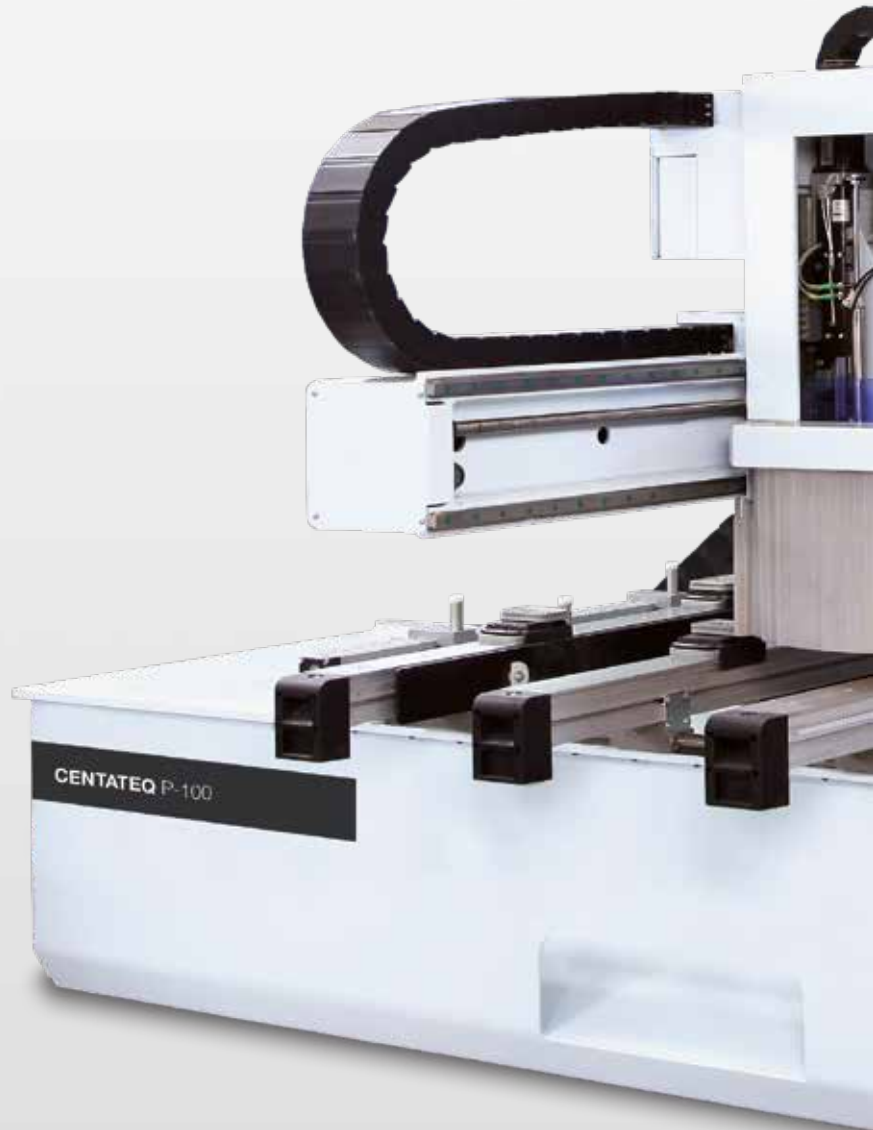
Our CNC-Processing Center
CENTATEQ P-100

YOUR SOLUTION



Highlights:

- Vector speed X/Y 80 m/min
- Simple positioning of the vacuum cups through the pin laser
- 2 CNC-controlled Z-axes
- Second row of stops
- 4-field operation
- Software optimization of the working field
- K-table – tubeless vacuum clamping system
- Routing up to 1600 mm in Y-direction possible
- High-Speed 7500 – 29 drilling spindles (21 vertical / 8 horizontal)
- Patented automatic spindle clamping system
- High-Speed grooving saw (0° / 90°)
- 12 HP (9 kW) HSK routing spindle
- 8-fold tool changing system incl. tool pick-up station
- Software bundle for machine and PC
- Option: C-Axis

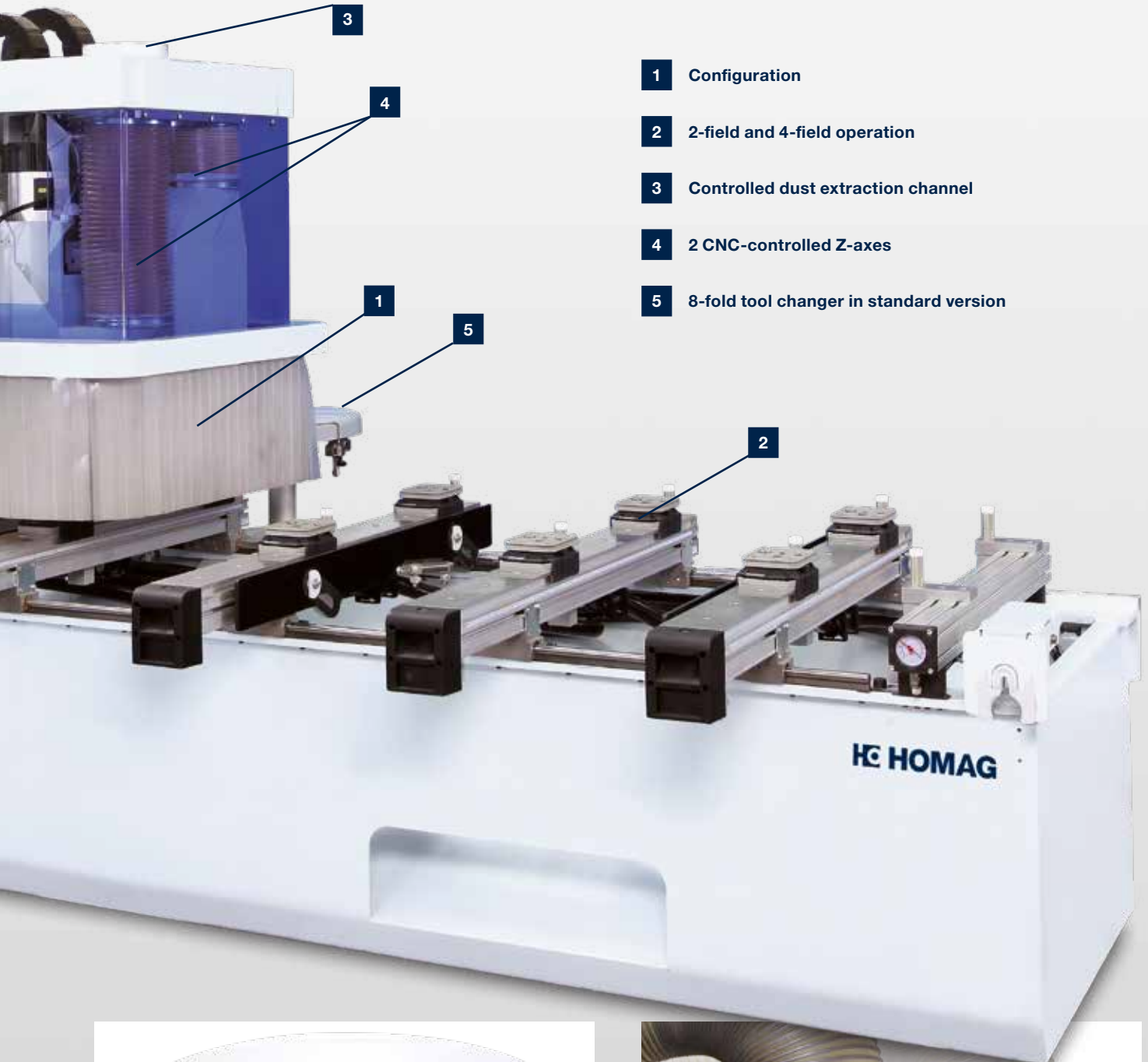


Configuration

- Powerful 12 HP (9 kW) HSK routing spindle
- 21 vertical drilling spindles
- 8 horizontal drilling spindles
- 1 grooving saw Ø 125 mm (0° / 90°)

2-field and 4-field operation

- Second row of stops and 20 vacuum cups standard are the basis for 4-field processing



- 1** Configuration
- 2** 2-field and 4-field operation
- 3** Controlled dust extraction channel
- 4** 2 CNC-controlled Z-axes
- 5** 8-fold tool changer in standard version



8-fold tool changer in standard version

- 8-fold tool changer moving in X-direction



Controlled dust extraction channel

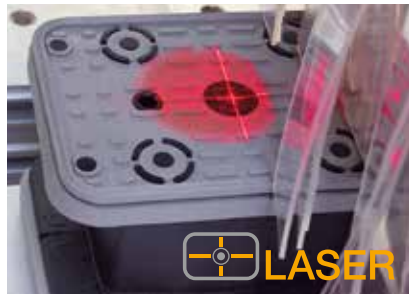
- The moveable channel realizes a very efficiency dust extraction – active where it is needed

All inclusive – »Standards«



Tool pick-up station

- Secure and quick fitting of the tool changer



Laser positioning

- Simple positioning of the vacuum cups through the pin laser



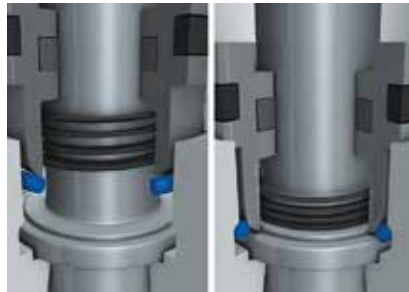
powerControl with powerTouch

- Full-HD multitouch display
- USB frontside bus
- Ethernet connection 10/100 Mbit
- Ergonomic hand terminal



K-table

- Tubeless vacuum clamping system



Automatic spindle clamping system

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



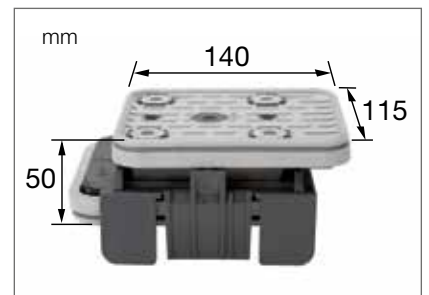
Workpiece feeding rail

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



Electronic cylinder surveillance

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



16 vacuum cups



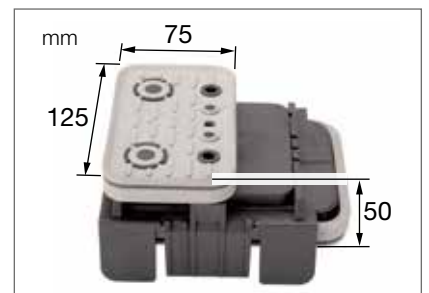
Sealed energy cable

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



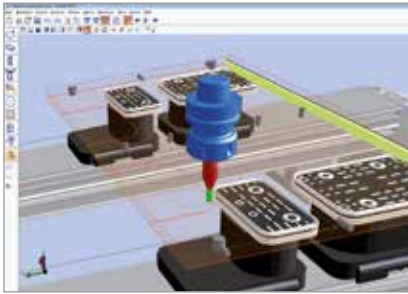
Air-conditioning

- Air-conditioned cabinet



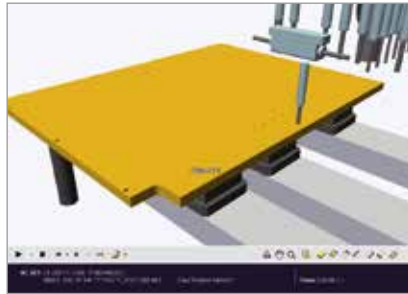
4 narrow vacuum cups

Standard – Software Machine



woodWOP

- Fast and intuitive operation thanks to simple, direct navigation
- Select from a choice of variables for flexible variable programming
- Quickly create individual subprograms



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



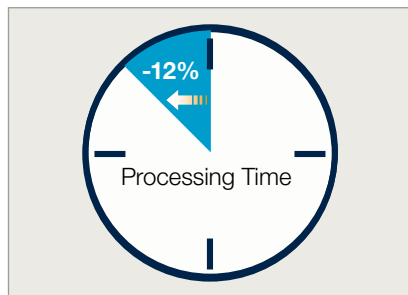
MCC

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



Machine data acquisition MMR Basic

- Record quantities and actual operating times on the machine
- Integrated maintenance instructions for optimum time and quantity-based planning, as well as performing maintenance



Optimization of Space Occupation

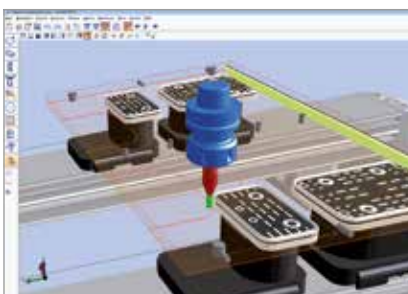
- The integrated software tool optimizes the workflow depending on 2- or 4-field operation to save time up to 12% each processing



Barcode Software

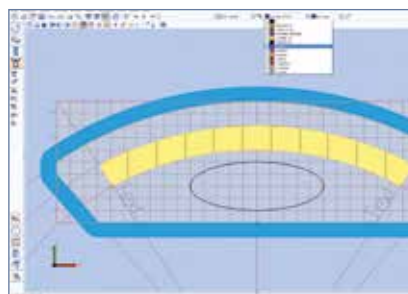
- Software to read a barcode via the serial interface. The software allows individual adaption of barcode information.

Standard – Software Office



woodWOP

- Fast and intuitive operation thanks to simple, direct navigation
- Select from a choice of variables for flexible variable programming
- Quickly create individual subprograms
- Increased programming security through 3D images of workpieces, processing and clamping equipment



woodWOP CAD-Plugin

- CAD functions integrated directly into woodWOP
- Creation of your own CAD drawings on the machine and the work preparation station
- Import of CAD objects in the formats DXF, IGS, STP, STL



woodWOP DXF Basic

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



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



Option: Multi clamping system

- E.g. for frame and narrow parts



High Performance Sawing

- Ø 220 mm



High Performance Drilling/Sawing/Routing

- 2 spindles, Ø 220 mm

Option: C-Axis – get the aggregates! Range of modular units for flexible working

The units needed for the relevant processing step are exchanged fully automatically by the tool changer system into the machine's working spindle. They can be swivelled from 0 to 360° degrees over the C axis. We are able to offer you the optimum solution for your specific application every time.



Drilling/Routing

- swivelling cranked – (0° - 100°)



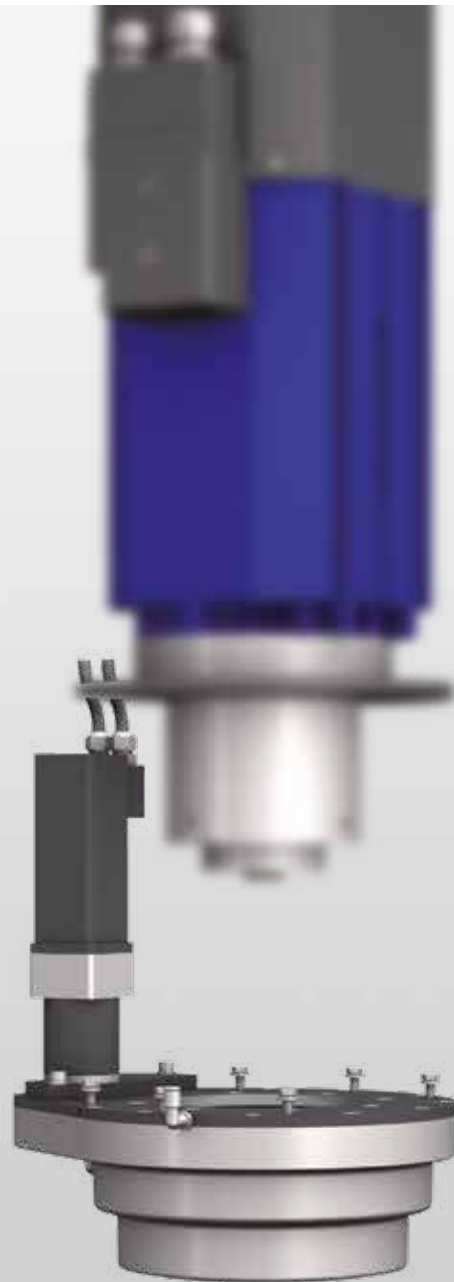
High Performance Cam box router

- 2 spindles, Ø 16/20 mm



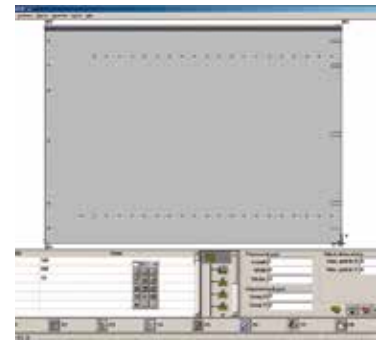
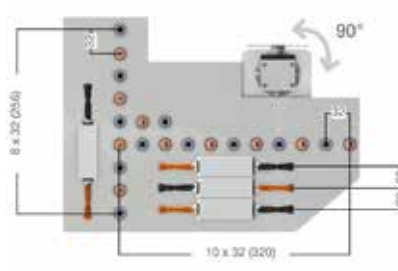
High Performance Drilling/Routing

- swivelling (0° - 100°), Ø 180 mm



Drilling | High-Speed V21

The High-Speed V21 drilling block realizes most standard drilling processes faster than other CNC-processing centers. In our example we use a standard workpiece of 560 x 782 mm. The V21 requires 4 cycles for the shelf holes (40 holes), 2 cycles for the 6 vertical construction holes and only 3 cycles for the 5 horizontal holes.



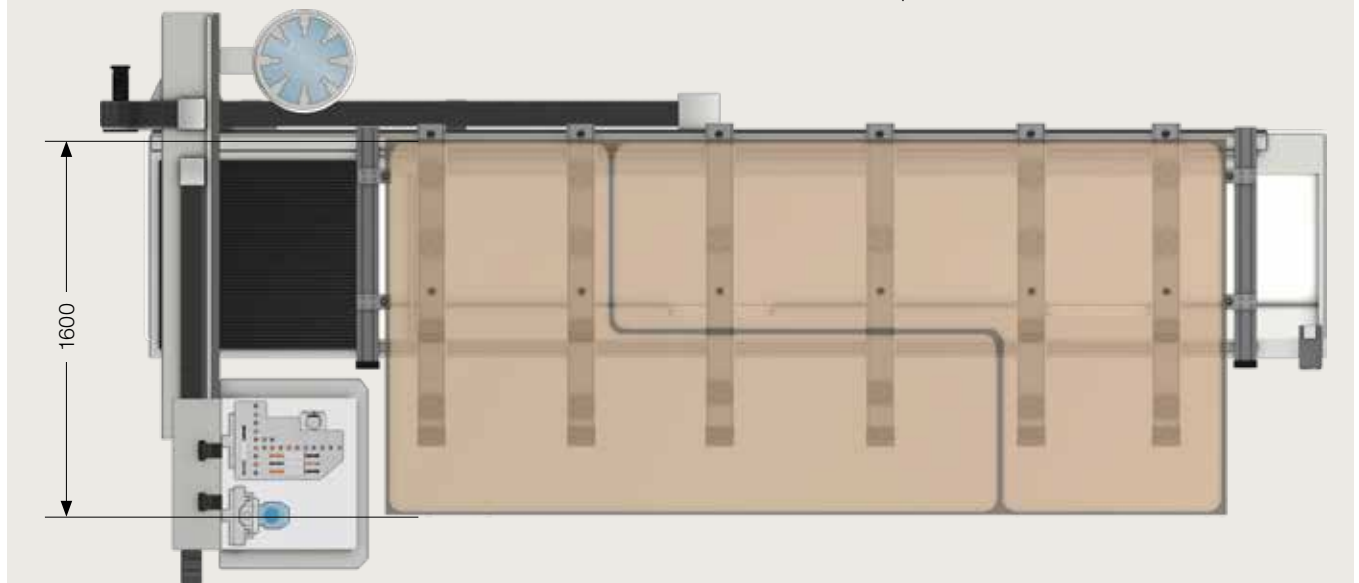
- High-Speed 7500 V21 – 21 vertical spindles, 8 horizontal spindles, 1 grooving saw \varnothing 125 mm ($0^\circ / 90^\circ$)

- Example: 560 x 782 mm | 46 vertical holes | 5 horizontal holes

6 vertical holes = only 2 cycles 40 vertical holes = only 4 cycles 5 horizontal holes = only 3 cycles

Routing | up to 1600 mm

- A routing capacity up to 1600 mm in Y is possible.

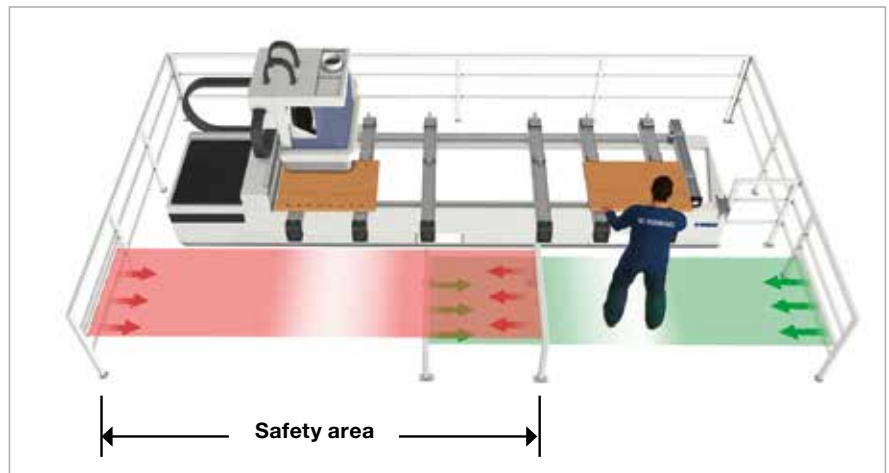


in mm

Handling | 2-Field/4-Field Operation

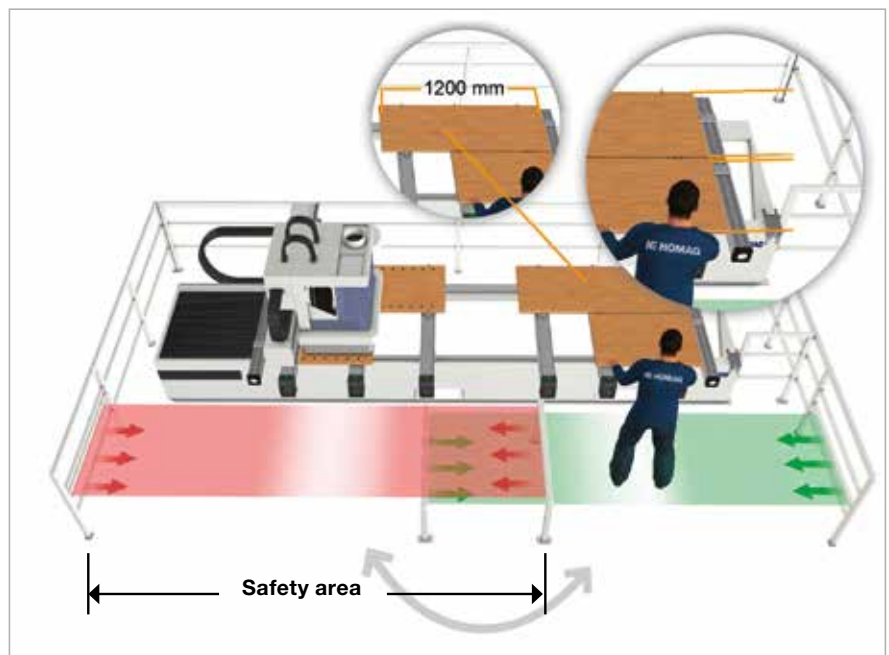
2-field operation

- Processing with one row of stops
- 1 piece left side / 1 piece right side
- 2-field operation if you have only 1 row of stops or larger work pieces than 610 mm width



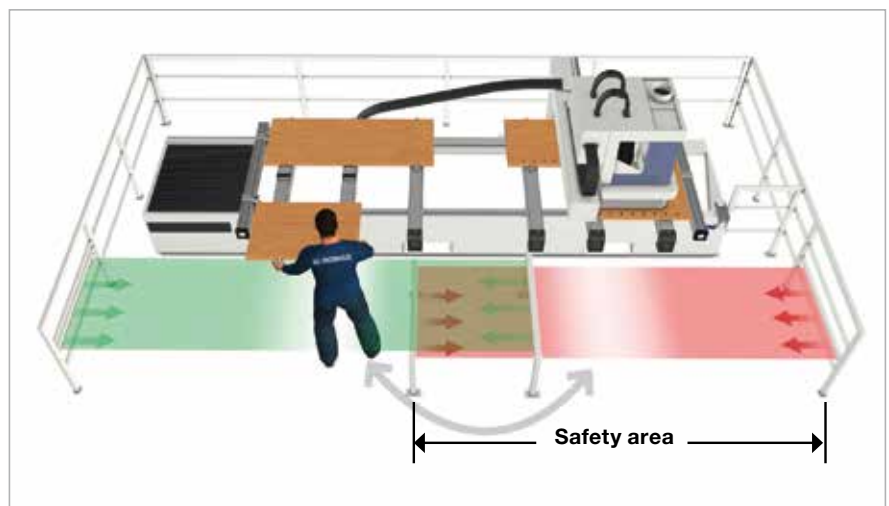
4-field operation – Step 1

- The operator can feed in two workpieces (2 x max. 610 mm) on the right side, while the CENTATEQ P-100 processes two workpieces on the left side
- 4-field operation – realized via the second row of stops



4-field operation – Step 2

- Optimized processing for all four workpieces. The integrated software tool „Optimization of Space Occupation“ saves up to 12% time.





1,200
service employees around the world



5,000
customers in training / year

> 90%
less on-site-services through successful
remote diagnosis

> 150,000
machines, all electronically documented in
28 different languages – in eParts

HOMAG LifeCycleServices

The sale of our machines comes with all-in optimum service backup and individual advice. We support you with service innovations and products which are especially tailored to your requirements. With short response times and fast customer

solutions, we guarantee consistently high availability and economical production – over the entire life cycle of your machine.



Remote Service

- Hotline support via remote diagnosis regarding control, mechanics and process technology. On-site service can be reduced by more than 90 %!
- Mobile applications such as ServiceBoard reduce the costs through fast help in case of troubles by mobile live video diagnosis, online service message and the online spare parts shop eParts



Spare Parts Service

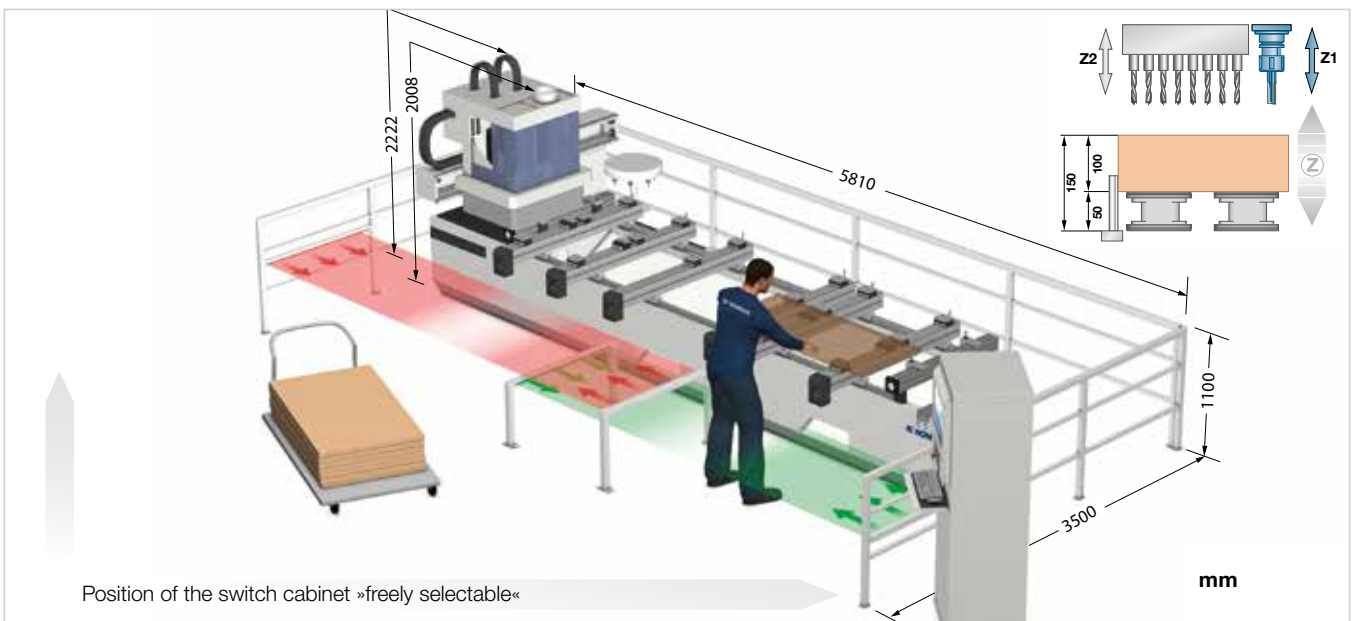
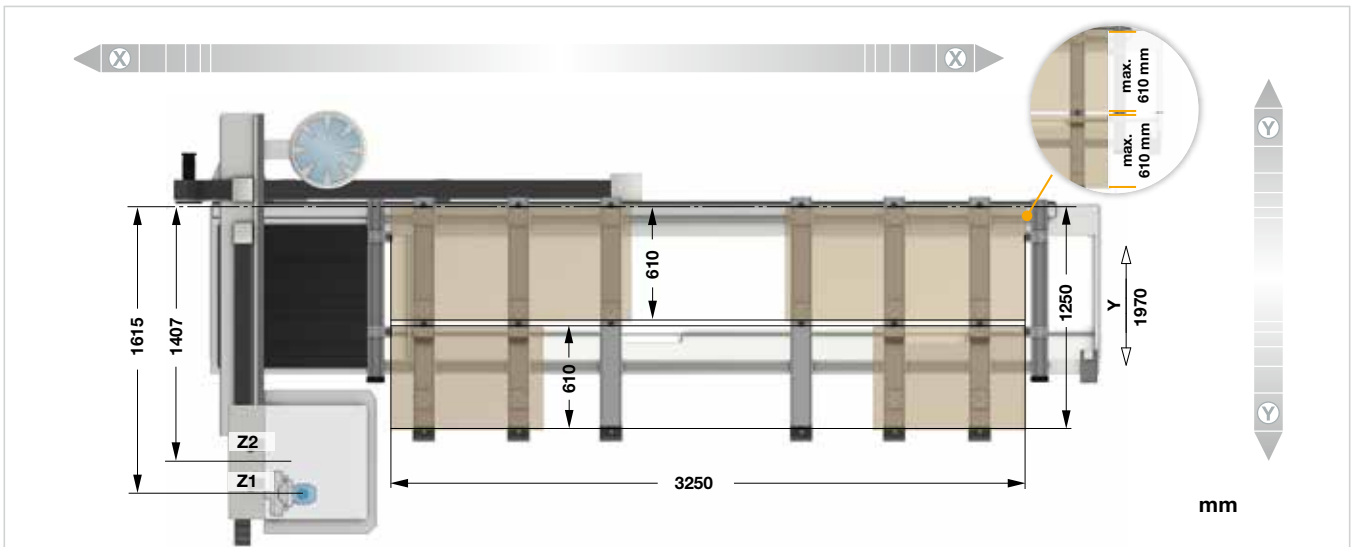
- Identify, request and order spare parts around the clock via www.eParts.de
- Local availability of parts offered by our sales and service companies as well as sales and service partners all over the world.
- Reduction of downtime through defined spare parts and wear parts kits



Field Service

- Increased machine availability and product quality by certified service staff
- Regular checks through maintenance / inspection guarantee the highest quality of your products
- We offer you the highest availability of technicians in order to reduce downtimes in case of unpredictable troubles

Technical data



TECHNICAL DATA		X	Y	Z
Working field	mm	3250	1250	100
Routing (Ø = 25mm)	mm	3250	1600	100
2-field operation	mm	1450		
Alternating operation	mm	1200		
Electrical connection		Voltage 400 V 50 Hz 3 Phases		
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	approx. 4000		
Electrical power – total connection load	kW	17,5		
Switch cabinet L – W – H	mm	600 – 870 – 1910		

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