

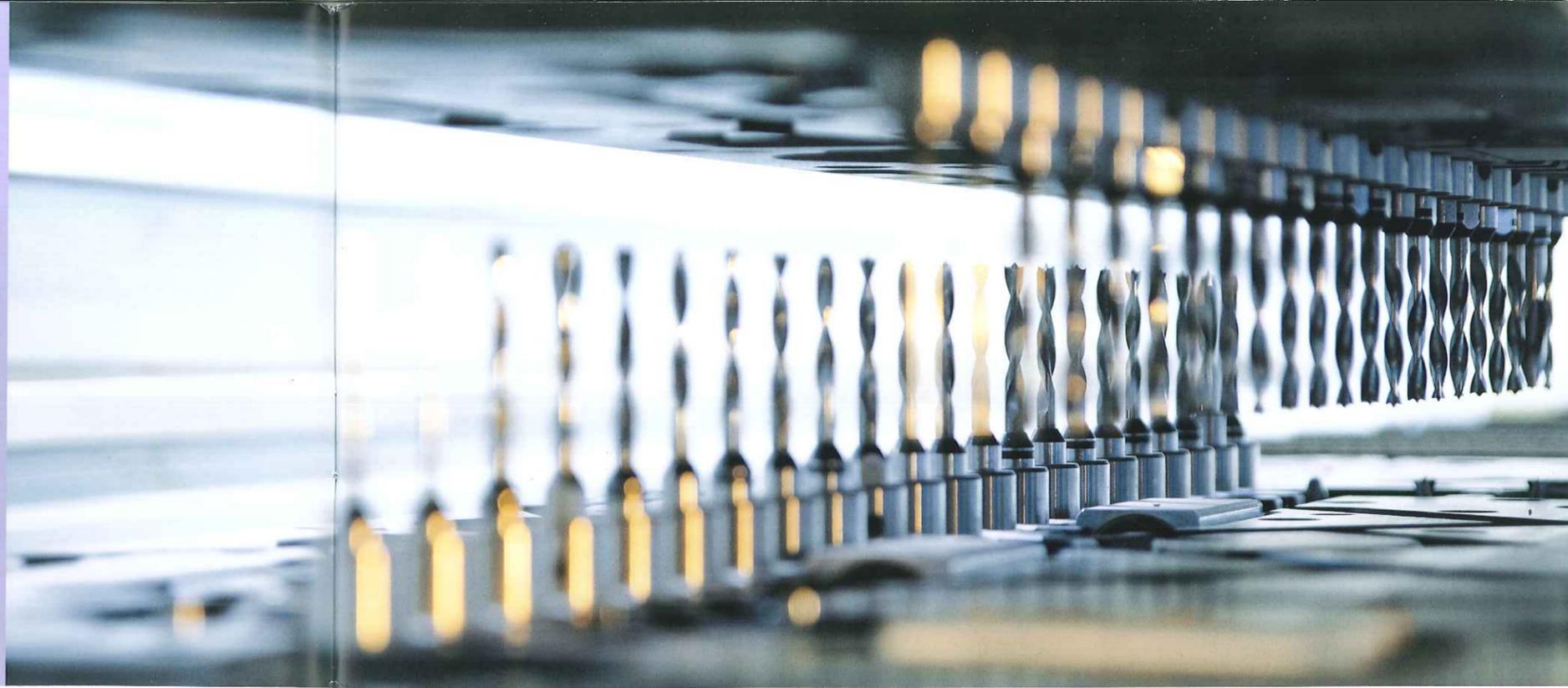
CNC-Processing Centers BHX 500 series



BHX 500 | BHX 500/D – There's no limit to flexibility...

Up to 104 spindles can provide precise processing in any fields of application. Choose from a clever variety of equipments the correct one for your application.

With the corresponding equipment even acoustic panels can be professionally and quickly produced – e.g. 3.400 drills in less than 3 minutes. And when horizontal drilling is required... no problem for the BHX 500/D.



Character

Like a chameleon...

Never was a processing center more flexible regarding its connection possibilities – whether robot or gantry feeder, right or left hand side, manual or automated

Incredibly fast...

A travel speed of up to 130 m/min provides a rapid execution of the tasks

Everything under control...

Two CNC-controlled clamping devices ensure permanently firm and precise positioning of the workpieces – regardless of the speed

Easy handling...

Even a workpiece thickness of up to 80 mm (2 x 40 mm) is easy to handle

Cycles are protected...

Thickness control and length measuring ensure safe process cycles

Precise in depth...

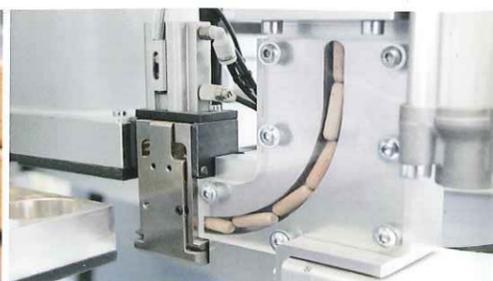
The patented spindle clamping provides a permanently exact drilling depth for all drilling operations

Constantly at TOP level...

The closed straight guiding system is protected against dust and dirt and thus very durable

Being smooth – ensuring quality...

The Smooth-Pressure System® provides for a protecting air cushion below the workpiece and thus for a high-quality workpiece handling



The optional dowel inserting tools ensure the flexibility even with low batch sizes.

The BHX 500/D has each one dowel inserting tool at the left and right hand side of the aggregate.



BHX 560 | BHX 560/D – Processing from six sides

Complete processing...

The aggregate for processing the 6th side offers the complete processing of the workpiece. Thus routing operations as well as horizontal drilling can be carried out as well as corner notching by means of a saw...

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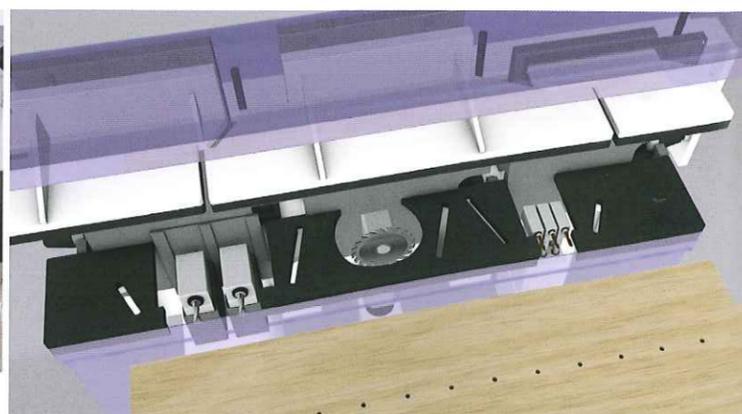
Constantly at TOP level...

The closed straight guiding system is protected against dust and dirt and thus very durable

Being smooth – ensuring quality...

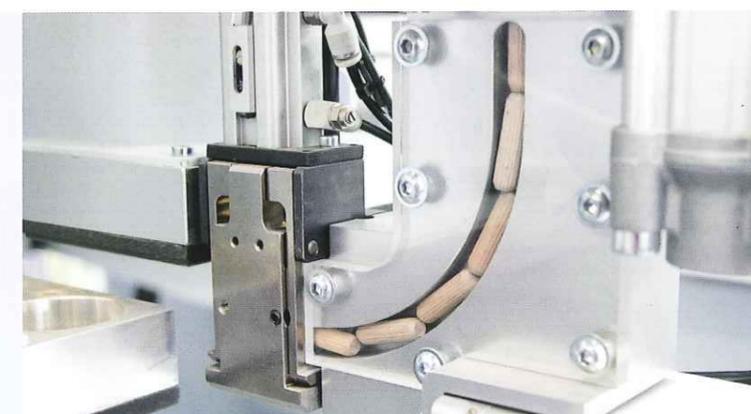
The Smooth-Pressure System® provides for a protecting air cushion below the workpiece and thus for a high-quality workpiece handling

Character



Pict. lh:
Variant 1: Drilling aggregate, 3 spindles
Variant 2: Corner notching saw (0° / 90° / 180°)
Variant 3: Routing aggregate, 2 spindles

Pict. rh:
Option: Precise dowelling aggregate





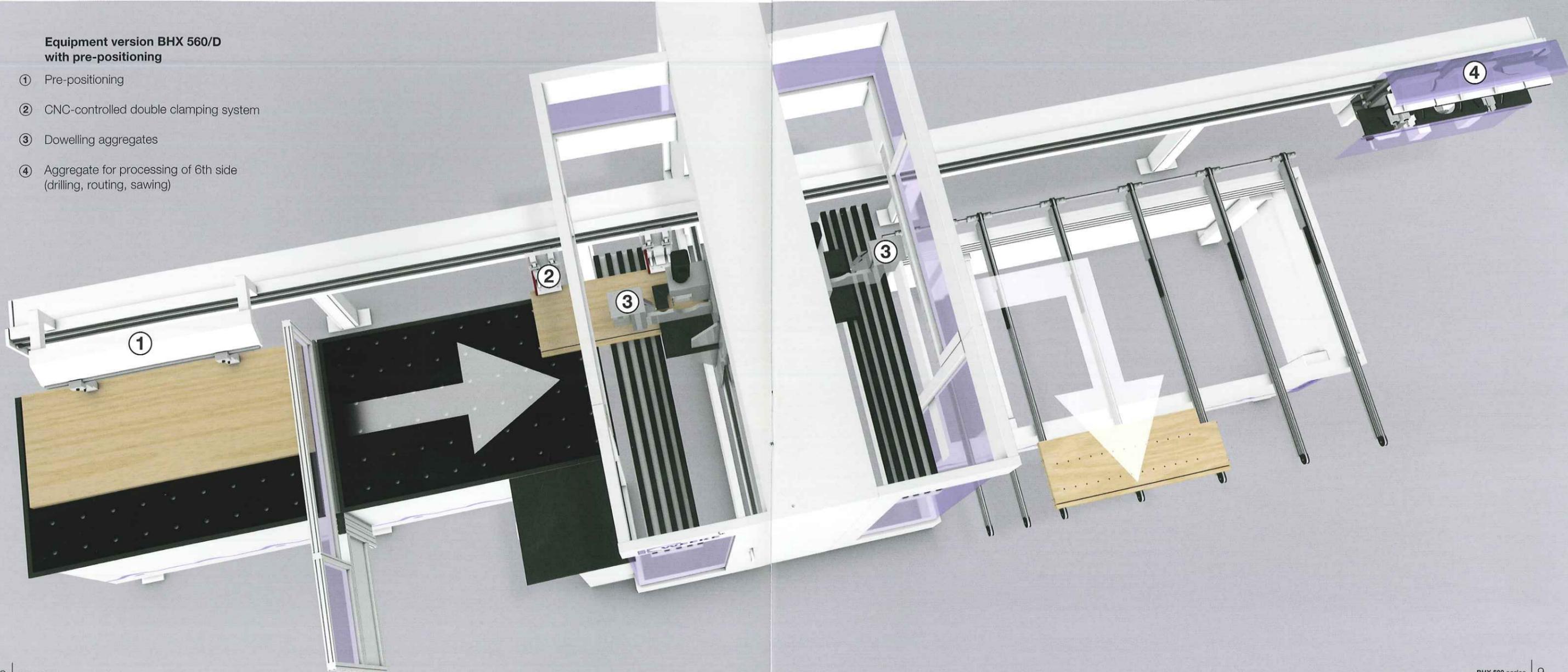
Discover the possibilities...

For the orientation in the machine logic of this series, the BHX 560/D with pre-positioning unit is exemplified here as 3D-model.



Equipment version BHX 560/D with pre-positioning

- ① Pre-positioning
- ② CNC-controlled double clamping system
- ③ Dowelling aggregates
- ④ Aggregate for processing of 6th side (drilling, routing, sawing)

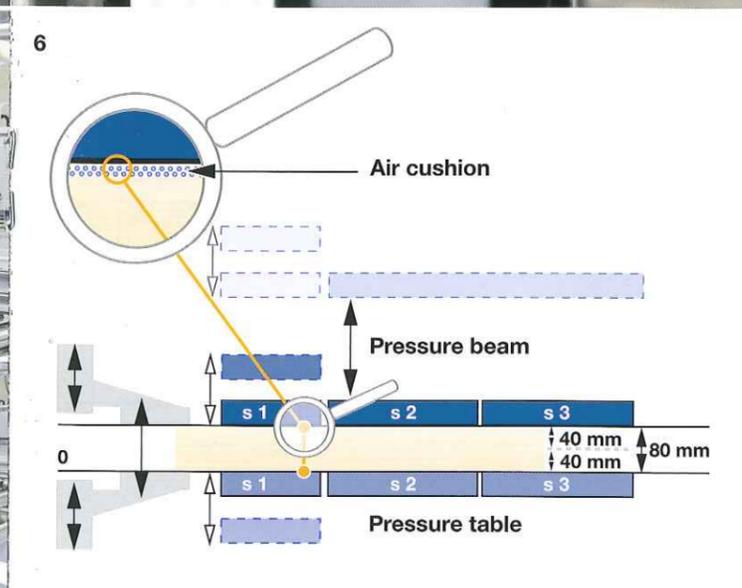
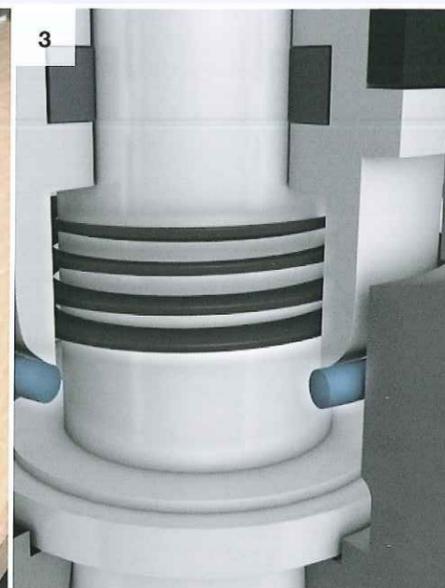
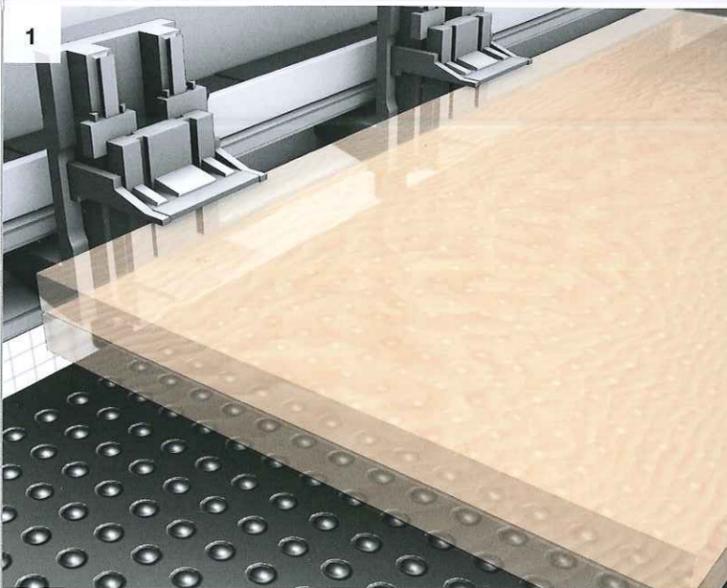


All inclusive | Hardware

The standards in the hardware of the BHX 500 series leads them to a premium level with regard to quality assurance, flexibility and performance. Even at highest speeds precision and repeat accuracy are guaranteed for all operations.



Hardware



1. CNC-controlled clamping system

- Quick and precise – no setting times
- Integrated measuring system for workpiece length
- Integrated control system for workpiece thickness
- Workpiece thickness up to 80 mm (2 x 40 mm)

2. Divided pressure board beam

- The front part of the beam can be moved upwards and downwards for easy processing at the zero line

3. Automatic spindle clamping system

- Patented system
- Always exactly the same drilling depth – irrespective of materials
- Constant quality by high repeat accuracy

4. „The simple way“

- As required, the operator gets fast and easy access to the processing aggregates
- Cleaning and maintenance tasks are easier to handle

5. TBO-System®

- Clamping device opens at top and at bottom – no contact with the workpiece
- No friction points

6. Smooth-Pressure-System®

- Pressure beam and pressure table create a small, but very solid air cushion
- Optimal and smooth feeding of workpieces
- Controlled air consumption

All inclusive | Software

With this software package you are »Ready to Race«. With more than 30.000 installations of the software woodWOP you get one of the most established CNC-programming systems worldwide. With woodAssembler and woodVisio professional 3D-visualization is provided. Virtual assembly and three-dimensional presentation of components are possible.

Please use our website:

Worldwide largest forum for woodWOP: www.woodWOP-Forum.de

Free Download of woodWOP-components: www.weeke.com → Products → Software

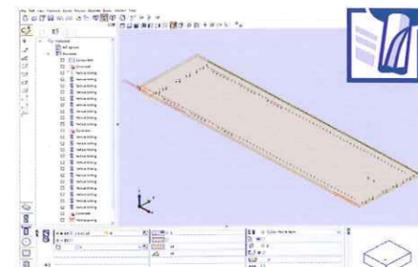
Software



Options

woodWOP

- Worldwide established CNC-programming system – already more than 30.000 installations
- More safety and control in programming by 3D-presentations of all relevant elements



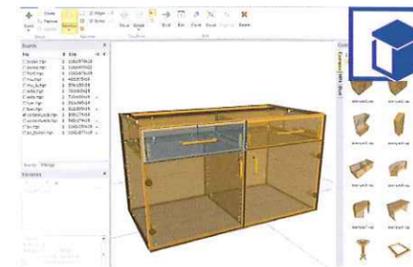
Machine Data Recording

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

SMDE0020 - Wartung			
Zustand	Vorgabe	Ist	Insgesamt
Vacuumpumpe Wasser austauschen			
IST-Einsatzzeit	24,0	8,3	8,3
34,5			
Vacuumspannsystem Luftfilter reinigen			
Zustand	Vorgabe	Ist	Insgesamt
IST-Einsatzzeit	24,0	8,3	8,3
34,5			
Füllstand Zentralschmierung prüfen			
Zustand	Vorgabe	Ist	Insgesamt
IST-Einsatzzeit	24,0	8,3	8,3
34,5			

woodAssembler

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



woodVisio

- Objects generated in woodAssembler and Blum Dynaloc can be provided with a surface material
- The objects are displayed in a free-standing position



powerControl

- 17" TFT monitor
- Intel®Core™ 2 Duo Processor
- Provision teleservice capability
- Front USB interface
- Ethernet connection 10/100 Mbit
- Ergonomic hand terminal

Additional equipment | Options

With this additional equipment specially tailored to the BHX 500 series you can further optimise and automate your machine...



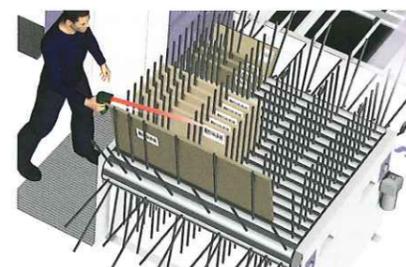
Horizontal special buffer system

- For manual feeding and removal of workpieces
- Higher buffer capacity on relatively small base area



Barcode connection

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



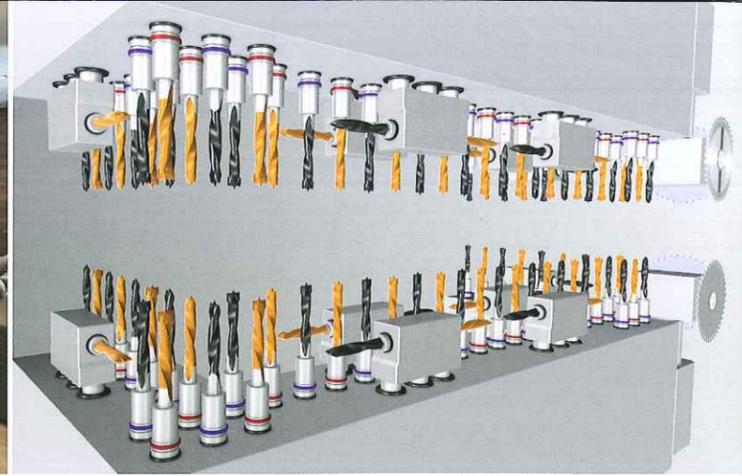
Pre-positioning

- Fast and easy automation of the process chain
- Easy handling by fence guidance
- Safe positioning by clamping cylinder



Air-conditioning

- Air-conditioned switch cabinet
- Provides permanently solid temperatures even under challenging climatic conditions – continuous system protection

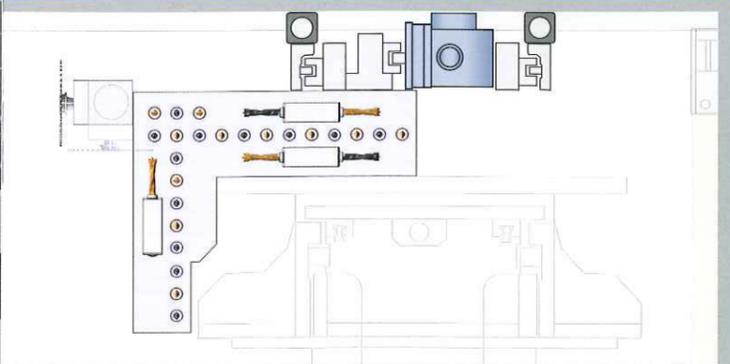
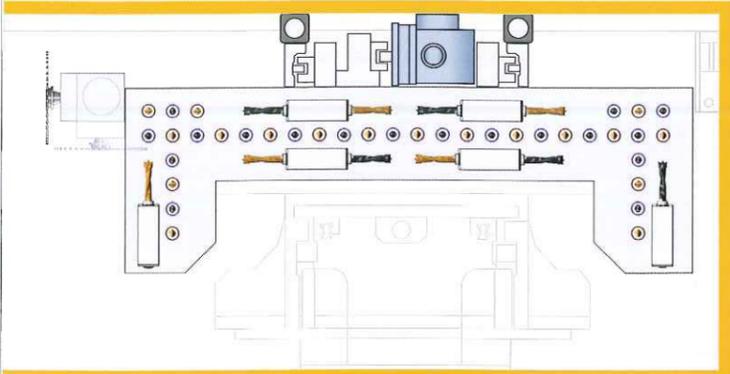


Configuration and equipment

Close to perfection! The configuration variety of the drilling equipment for the BHX 500 series provides all possibilities regarding your requirements.

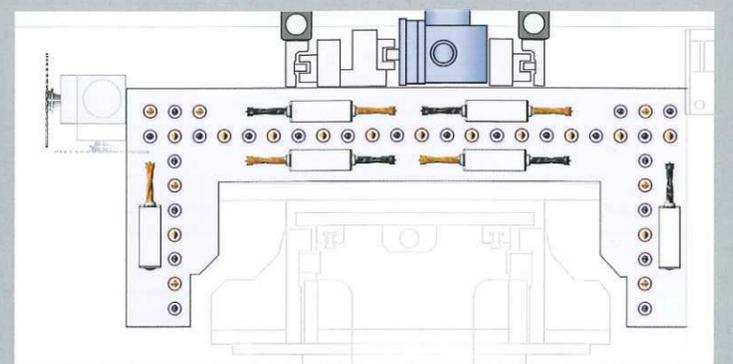
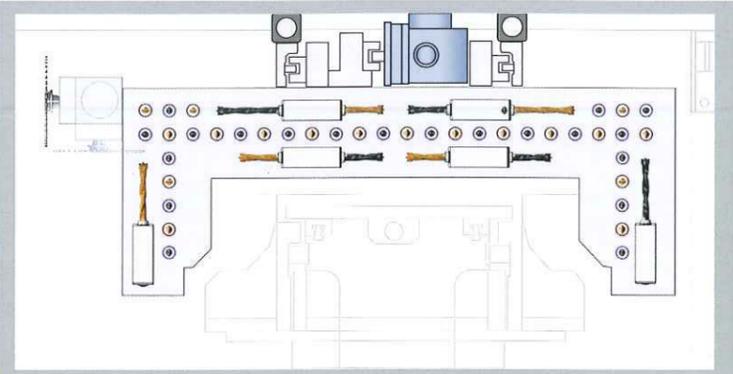
92 Configuration 0025 | 36-spindles

- 2 x 36 vertical drilling spindles
- 2 x 8 horizontal drilling spindles in X
- 2 x 2 horizontal drilling spindles in Y
- 2 x swivelling grooving saw (90°)
- 2 x 6 kW ETP routing spindle



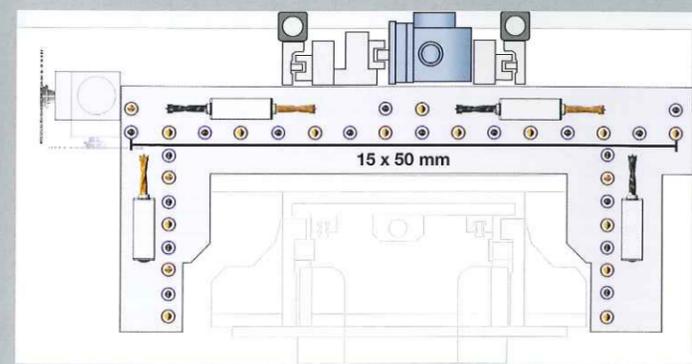
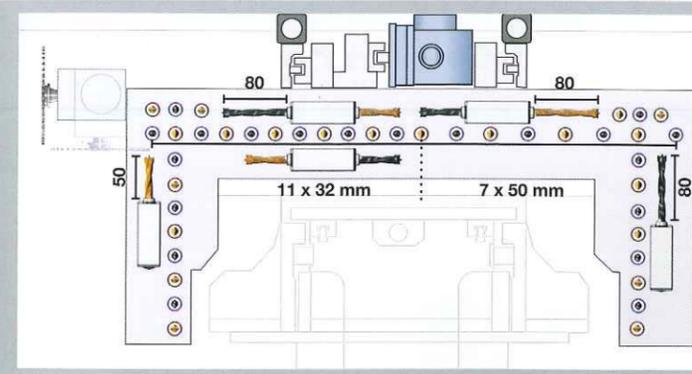
96 Configuration 0034 | 38-spindles

- 2 x 38 vertical drilling spindles
- 2 x 8 horizontal drilling spindles in X
- 2 x 2 horizontal drilling spindles in Y
- 2 x swivelling grooving saw (90°)
- 2 x 6 kW ETP routing spindle



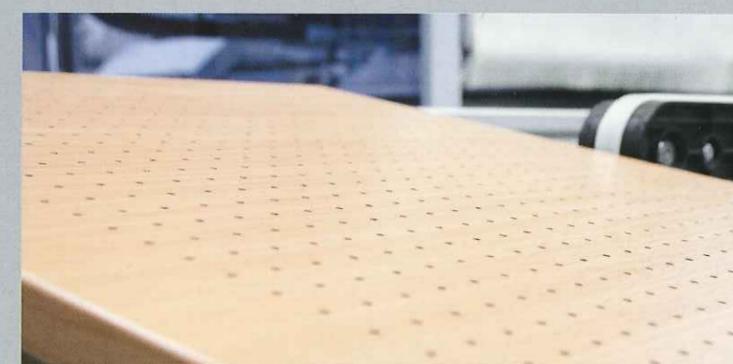
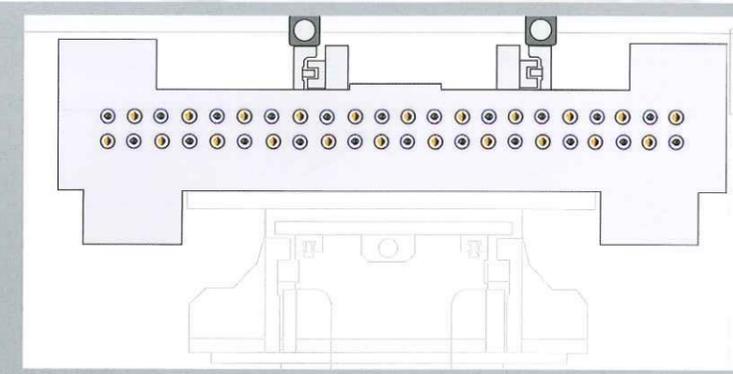
98 Configuration 0032 | 41-spindles

- 2 x 41 vertical drilling spindles
- 2 x 6 horizontal drilling spindles in X
- 2 x 2 horizontal drilling spindles in Y
- 2 x swivelling grooving saw (90°)
- 2 x 6 kW ETP routing spindle



88 Configuration 0062 | 44-spindles

- 2 x 44 vertical drilling spindles
- Specially for the production of acoustic panels



56 Configuration 0026 | 23-spindles

- 2 x 23 vertical drilling spindles
- 2 x 4 horizontal drilling spindles in X
- 2 x 1 horizontal drilling spindle in Y
- 2 x swivelling grooving saw (90°)
- 2 x 6 kW ETP routing spindle



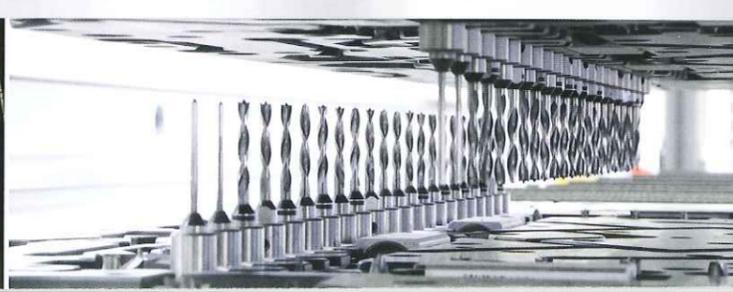
104 Configuration 0033 | 42-spindles

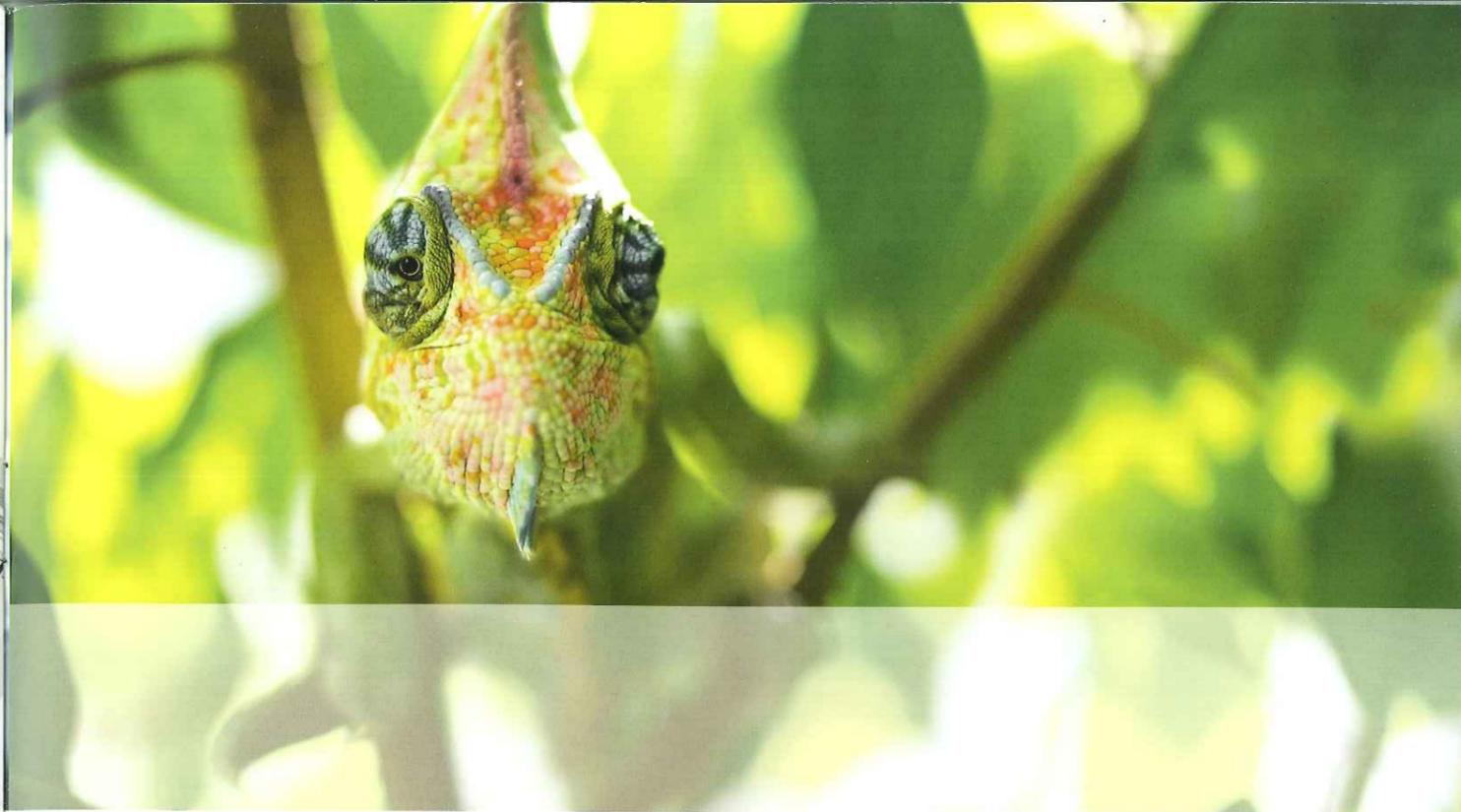
- 2 x 42 vertical drilling spindles
- 2 x 8 horizontal drilling spindles in X
- 2 x 2 horizontal drilling spindles in Y
- 2 x swivelling grooving saw (90°)
- 2 x 6 kW ETP routing spindle



84 Configuration 0037 | 36-spindles

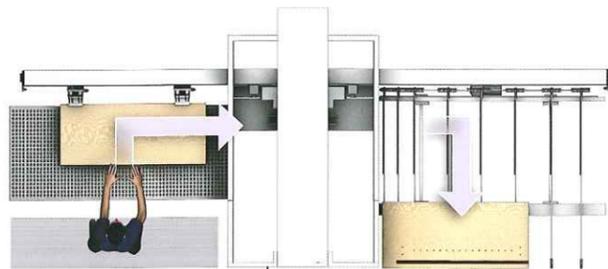
- 2 x 36 vertical drilling spindles
- 2 x 4 horizontal drilling spindles in X
- 2 x 2 horizontal drilling spindles in Y
- 2 x swivelling grooving saw (90°)
- 2 x 6 kW ETP routing spindle



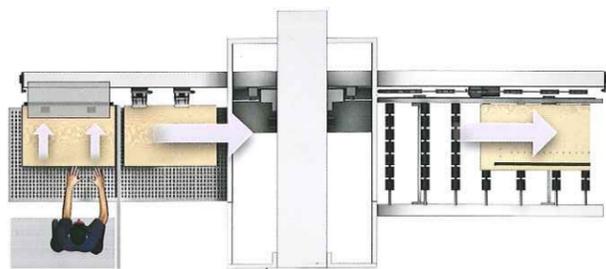


Discover the BHX connection possibilities – at least one is for you...

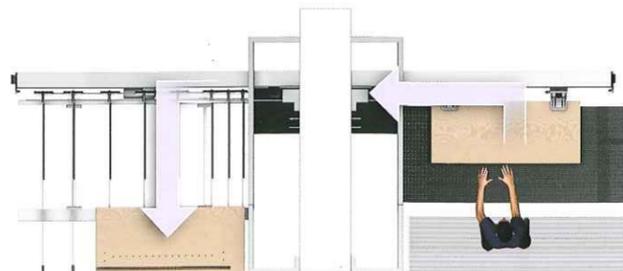
Like a chameleon the BHX 500 series harmonically adjusts to the environment. Here is an excerpt of our most established versions from a range of connection possibilities. All possibilities from manual feeding up to fully-automatic processes are provided.



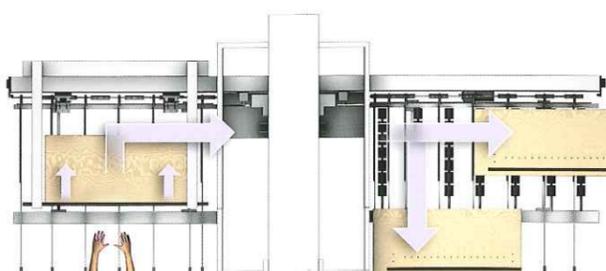
Example A



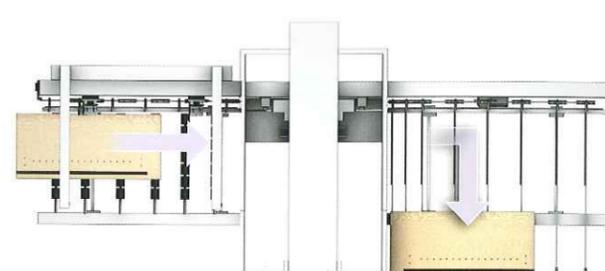
Example B



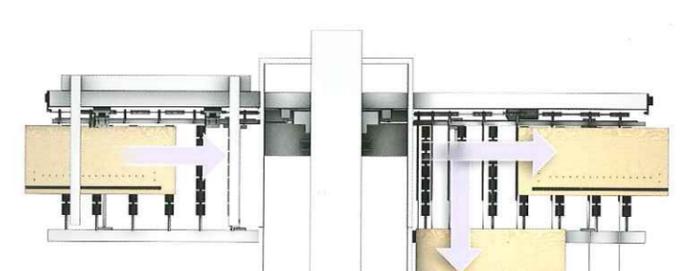
Example C



Example D

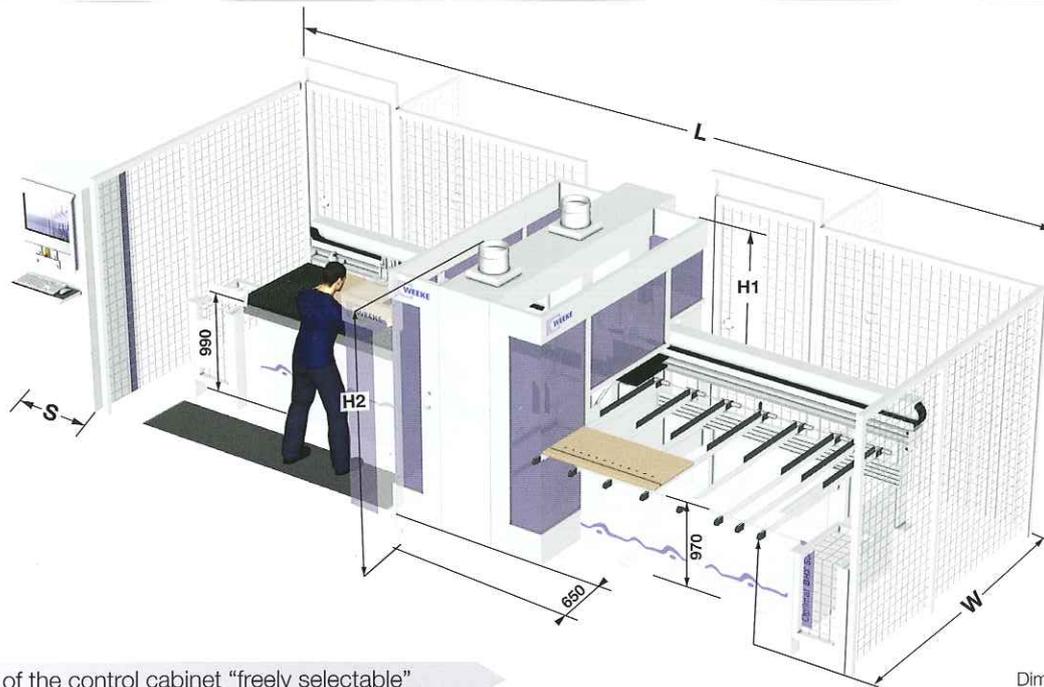


Example E



Example F

Technical data



Position of the control cabinet "freely selectable"

Dimensions in mm



Setting up dimensions		BHX 500	BHX 500/D	BHX 560	BHX 560/D
L	mm / inch	7300 / 287.4	8050 / 316.9	9250 / 364.2	9650 / 379.9
W	mm / inch	3850 / 151.6	4750 / 187	3850 / 151.6	4750 / 187
H1	mm / inch	2100 / 82.7	2100 / 82.7	2100 / 82.7	2100 / 82.7
H2	mm / inch	2800 / 110.2	2800 / 110.2	2800 / 110.2	2800 / 110.2
S	mm / inch	1000 x 800 / 39.4 x 31.5	1000 x 800 / 39.4 x 31.5	2000 x 600 / 78.7 x 23.6	2000 x 600 / 78.7 x 23.6

Technical data		BHX 500	BHX 500/D	BHX 560	BHX 560/D
Workpiece feeding dimensions	mm	2500 x 1300	2500 x 1300	2500 x 1300	2500 x 1300
Workpiece dimensions	mm	2500 x 1000	2500 x 1000	2500 x 1000	2500 x 1000
Travel range of the X - Y - Z-axis	m/min	138 - 80 - 50	138 - 80 - 50	138 - 80 - 50	138 - 80 - 50
Compressed air connection	inch	1	1x1 + 1x½	1	1x1 + 1x½
Compressed air required	bar	7	7	7	7
Dust extraction port	mm	2x Ø 280	2x Ø 280	2x Ø 280 1x Ø 160	2x Ø 280 1x Ø 160
Dust extraction volume	m³/h	min. 2x 4450	min. 2x 4450	min. 2x 4450	min. 2x 4450
Electrical power – total connection load	kW	19,5	19,5	23,5	23,5
Total machine weight	kg	approx. 5500	approx. 5700	approx. 6000	approx. 6200



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