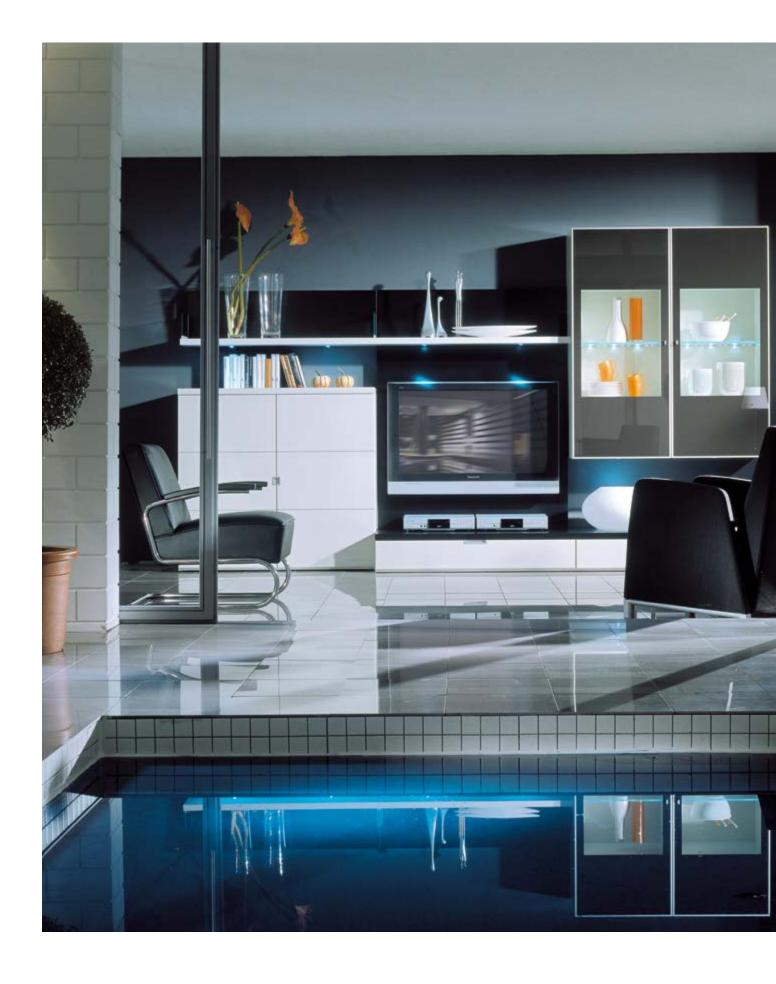


# Vertical CNC Processing Centers BHX 050/055 Optimat







# BHX 050/055 – big can be that small...

Fast processing – saves time | Takes up little room – saves space | Simple operation – saves nerves | Great value for money – saves money

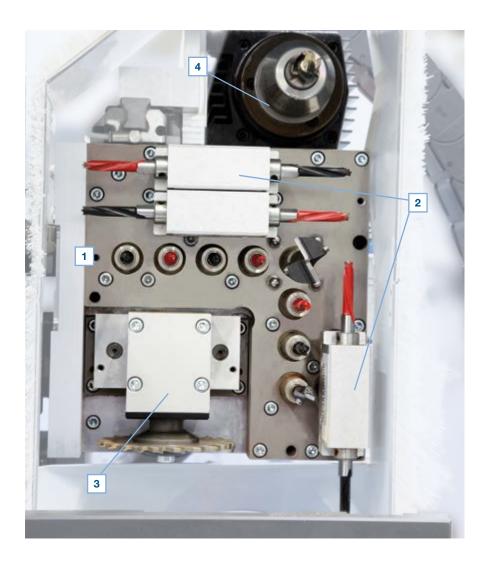
### The Result: YOUR SOLUTION

Our CNC processing centers offer the technology of the future today. And with good reason: Tradition. For us, it is both a motivation and a commitment. Customers the world over associate the very highest standards with this. And we meet those expectations.

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- ecoPlus advantages

# The Configurations – BHX 050



#### STANDARD:

1 8 vertical drilling spindles, incl. quick-change drilling system

#### **OPTIONS:**

- 2 Option horizontal drilling
  - 4 High-speed drilling spindles in X-direction
  - 2 High-speed drilling spindles in Y-direction
- 3 Option grooving Grooving saw in X-direction, Ø 100 mm
- 4 Option routing

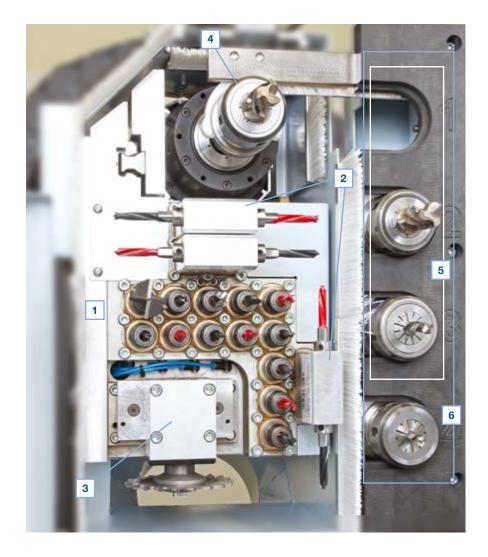
  Router motor with hydraulic quick change system, 5 kW ETP 25







# The Configurations – BHX 055



#### STANDARD:

1 13 vertical High-speed drilling spindles, incl. quick change drilling system

#### **OPTIONS:**

- 2 Option horizontal drilling
  - 4 High-speed drilling spindles in X-direction
  - 2 High-speed drilling spindles in Y-direction
- 3 Option grooving
  Grooving saw in X-Direction,
  Ø 100 mm
- 4 Option routing
  Tool changing spindle
  5 kW HSK 63

#### Option - tool changer

Automatic tool change magazine with 3 places • Extension of the tool change magazine by one place

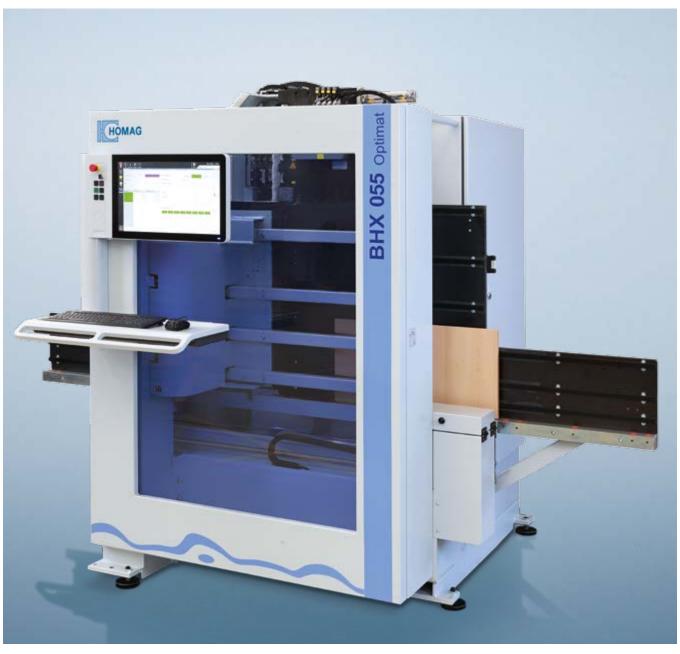
- 5 Option 3 places
- 6 Option 4 places











### All inclusive - powerTouch

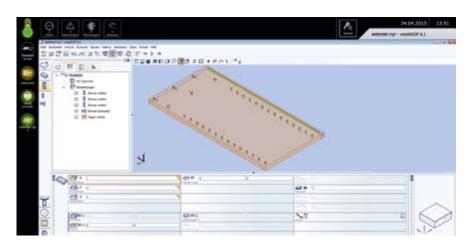
POWERTOUCH IS THE LATEST OPERATING PHILOSOPHY OF THE HOMAG GROUP: SIMPLE, UNIFORM, ERGONOMICAL, EVOLUTIONARY. The innovative touchscreen operating concept unites design and function to create a totally new control generation.

At the focus of this solution is a large multi-touch monitor in widescreen format, which is used to control machine functions by direct touch contact. The entire user interface has been optimized for touch operation and offers an array of help and assistance functions designed to radically simplify the work experience. Standardized control elements and software modules ensure that all HOMAG Group machines

can be operated with the same way using powerTouch.

They differ only in terms of a few machine-specific details. This not only simplifies the operation of different machines, but also makes for greater efficiency by significantly reducing time for servicing and training.





#### powerControl with powerTouch

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

#### woodWOP

- Modern software based on Windows<sup>®</sup>
- More than 30.000 installations worldwide



#### **Machine Data Recording Basic**

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



#### woodWOP DXF Basic

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

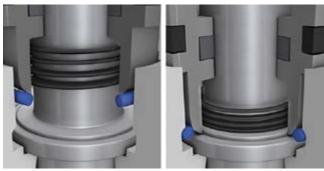
## All inclusive - Hardware

**THE BHX 050/055-MODELS** provide a TOP equipment right from the beginning. As standard the machine already comprises elementary technologies ensuring a processing quality on highest level. Sustainability pays off...





**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





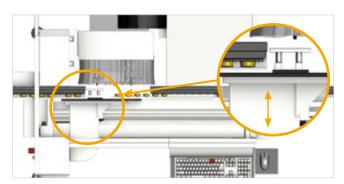
**Workpiece clamping device** Easy adjustment of the clamping device (manually) to the workpiece thickness (clamping device stroke 10 mm). For differences in the workpiece thickness of up to 10 mm it is not necessary to manually adjust the clamping device.





#### Workpiece load- and workpiece removal area

Mechanical support via roller conveyor in the loading- and removal area of the machine



#### Automatic workpiece thickness adjustment

Automatic adjustment of the counter block to the material thickness according to the data preselected by the operator in woodWOP



**Working length extension** from 2500 mm to 3050 mm (BHX 050: Option / BHX 055: Standard)
Extension of the working length to 3050 mm incl. roller conveyor

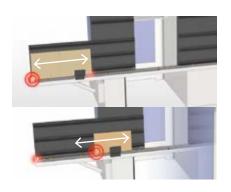
# Option - Plausibility check

#### BENEFIT FROM ADDITIONAL SAFEGUARDING OF PROCESSES

Control of the workpiece by sensor technology in X- and Y-direction. Comparison with the values in the database. If the defined tolerance value is exceeded, the current process stops. At the same time the operator receives a message to correct the workpiece. This way you remain on the safe side.

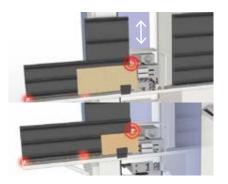


**Step 1:**Positioning the workpiece



Step 2:

Control of the workpiece by sensor technology in X-direction. Depending on the workpiece dimensions the shortest distance to the next sensor is selected.



#### Step 3:

Control of the workpiece by sensor technology in Y-direction



#### Step 4:

Balancing the determined values with the program data:

Tolerance of values < 5 mm – Program is continued.

Tolerance of values > 5 mm - Program is stopped, advice to the operator to carry out the corrections.

# Option – Length-depending processing in X-direction

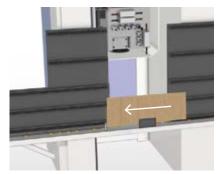
#### AUTOMATIC ADJUSTMENT OF DRILLINGS DEPENDING ON WORKPIECE DIMENSIONS

After the workpiece has been released for processing its length is measured accurately by a measuring run. Dimension-depending drillings are then corrected automatically by possibly determined tolerances. You save time and gain quality.



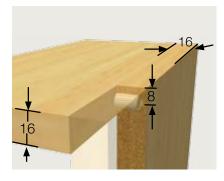
#### Α

After the workpiece has been released for processing at the limit stop position, a test run in X-direction is carried out (value 1).



#### R

Determination of exact workpiece length (value 2).



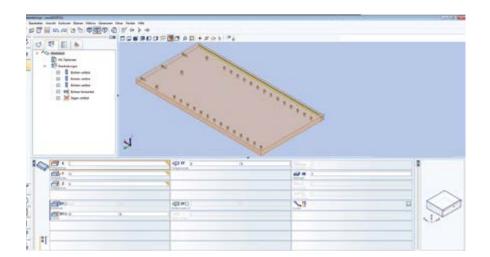
#### c

The calculation of the values 1 and 2 results in the exact workpiece length.

Drills depending on dimensions are then automatically corrected by possibly determined tolerances.

# Option - 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.



#### woodWOP | more licences

- Modern software based on Windows<sup>®</sup>
- More than 30.000 installations worldwide



#### woodAssembler

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



#### 3D CNC-Simulator

- Simulates the processing in the order it is stored in the NC-program
- Allows time calculation

#### **ADDITIONAL SOFTWARE**

1. woodWOP Office

2. 3D CNC-Simulator



**Package** 

3. woodAssembler

1,200



service employees around the world

**85.2** %

less on-site-services through successful remote diagnosis

650

processed spare parts orders / day

>150 000

machines, all electronically documented in 28 different languages – in eParts



### HOMAG Group 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. Thus the on-site service can be reduced by 85.2 %!
- 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



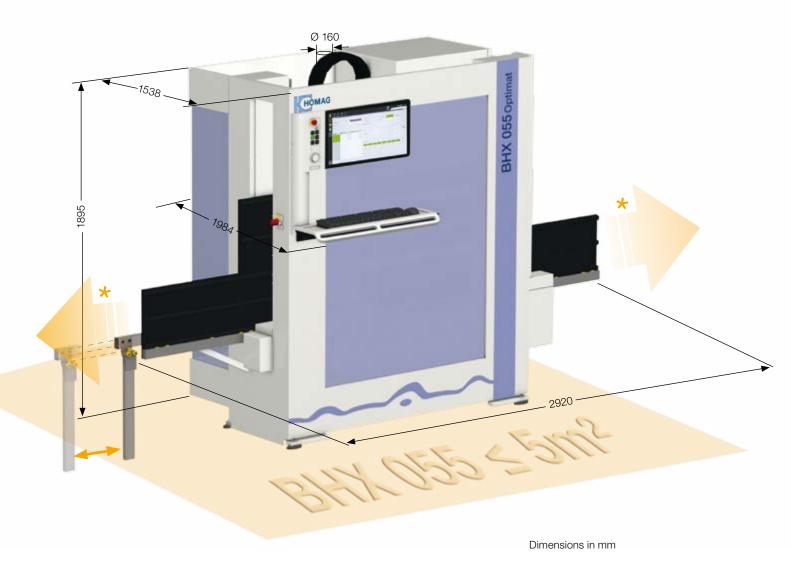
#### **Spare Part Service**

- 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 downtimes through defined spare parts and wear parts kits



#### Field Service

- Increased machine availability and product quality by certified service staff
- Regular checks through maintanance / 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

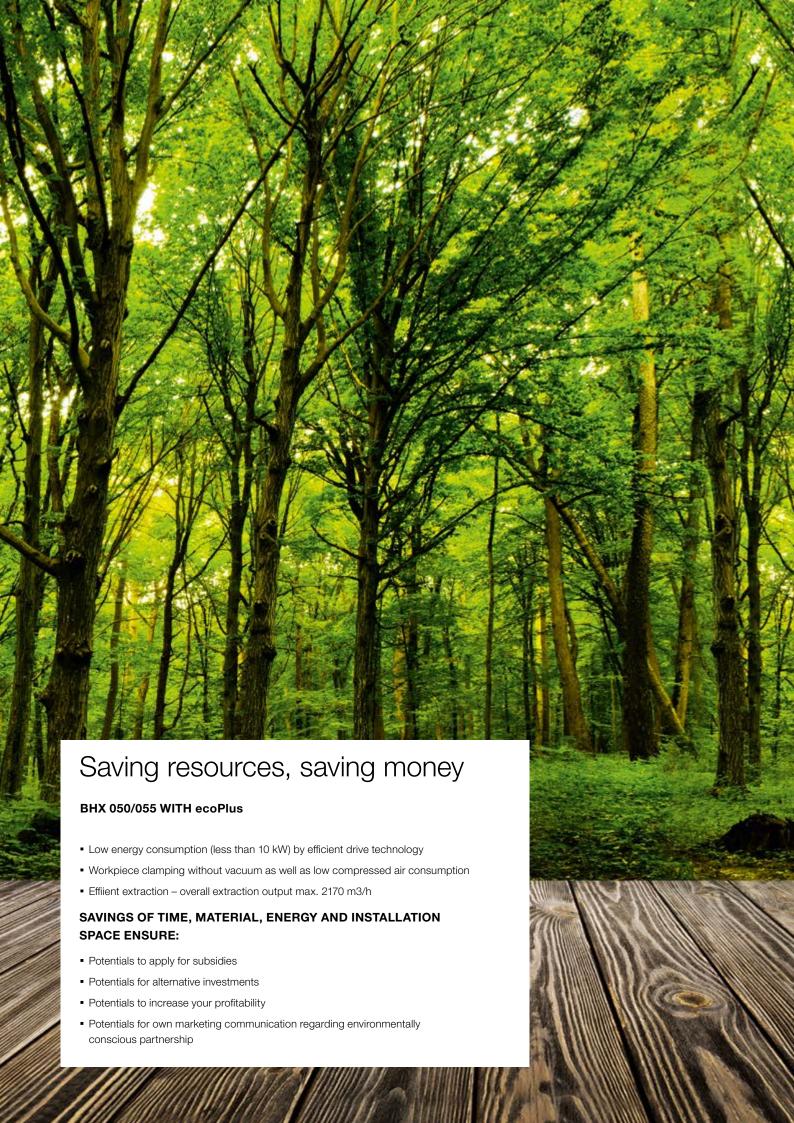


★ A corresponding safety distance must be maintained in the in- and outfeed directions! (See documentation)

#### **TECHNICAL DATA BHX 050/055 OPTIMAT**

Workpiece dimensions BHX 050 Optimat $L \times W \times T$	mm	max. 2500 x 850 x 60 / option 3050 min. 200 x 70 x 12
Workpiece dimensions BHX 055 Optimat $L \times W \times T$	mm	max. 3050 x 850 x 60 min. 200 x 70 x 12
Vector speed	m/min	(X - Y) 50 - (Z) 15
Compressed air required	bar	7
Compressed air connection	inch	R 1/2
Dust extraction port	mm	Ø 160
Dust extraction volume	m³/h	min. 2170
Total machine weight	kg	approx. 1580
Electrical power - total connection load	kW	11.5

<sup>\*</sup> A corresponding safety distance must be maintained in the in- and outfeed directions! (See documentation).



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