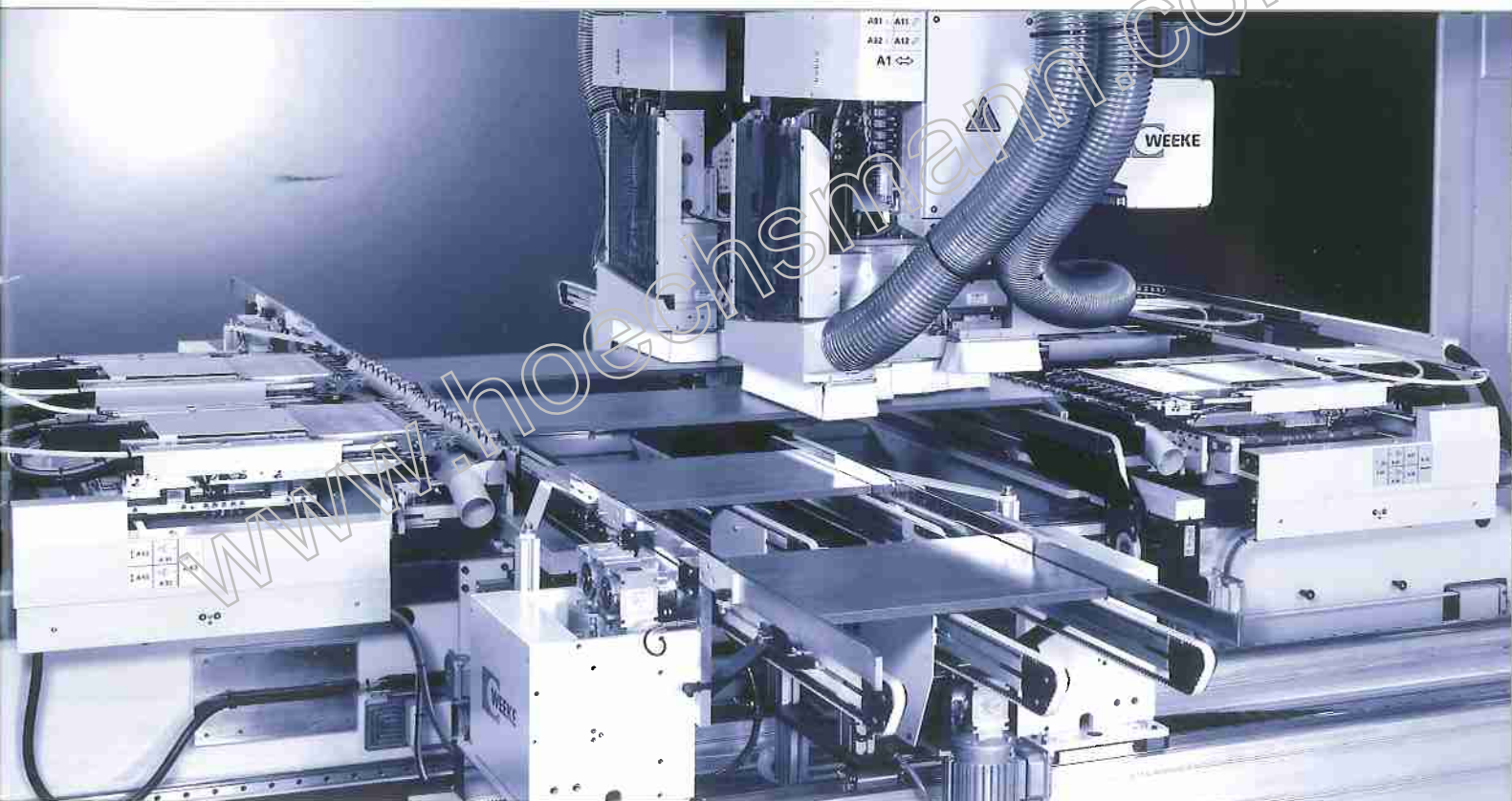


# CNC-Gantry Processing Center BHT 500





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# BHT 500

# EFFICIENT POWER

The **BHT 500** series offers you:

- five-sided drilling
- longitudinal and transversal groovings
- routing of vertical pockets as well as internal contours
- dowel inserting systems
- fully automatic set up within 20 sec.
- simultaneous processing of two workpieces
- up to 84 horizontal drilling spindles
- customer-specific set ups with up to 40 spindles per drilling block
- programming via the HOMAG Group programming system woodWOP

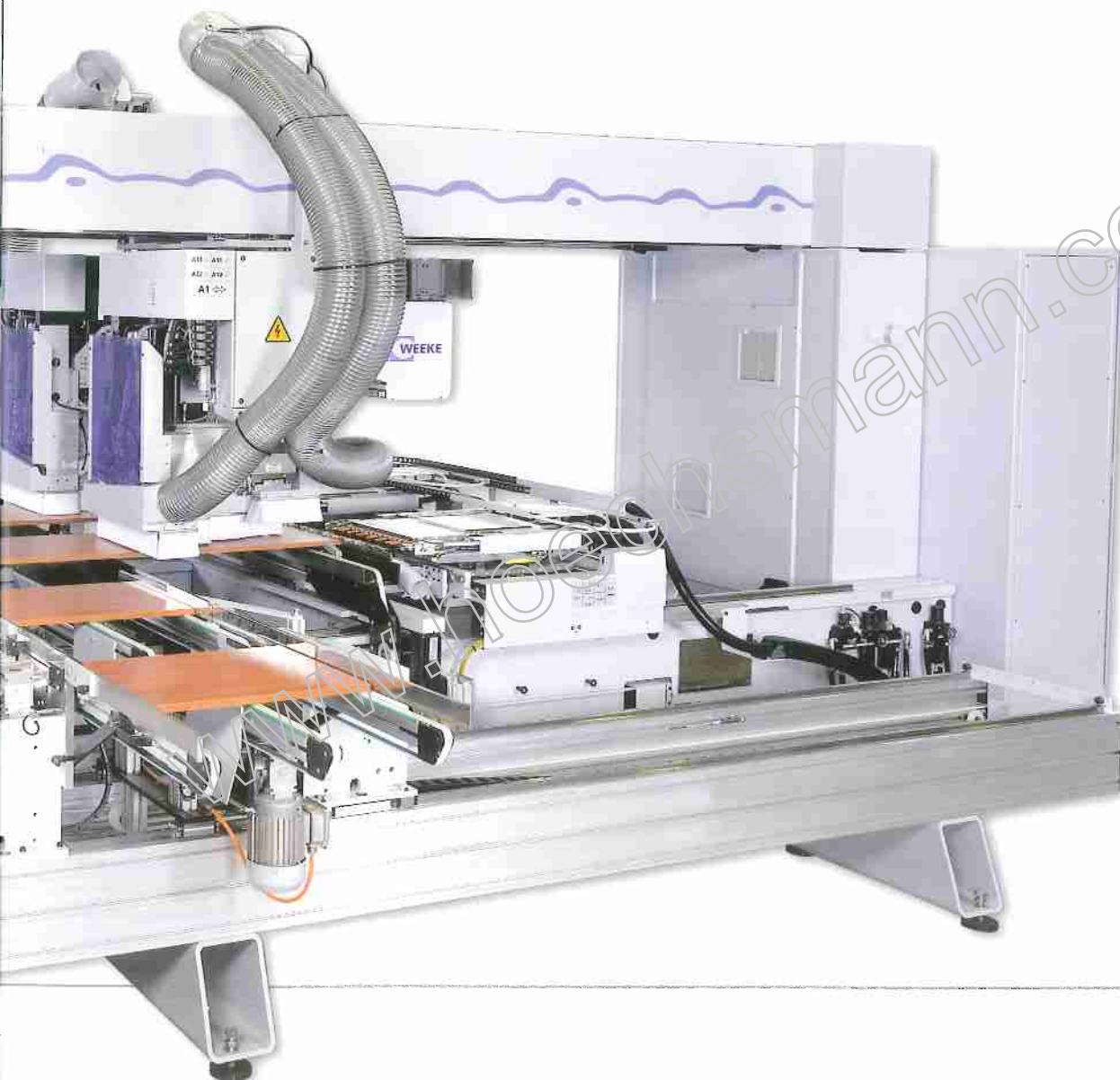
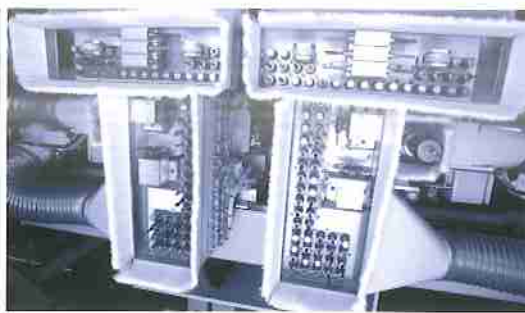
**Perfect for:**

- batches in the medium and bottom range guaranteeing high output
- implantation of complex processings in cross-feed.

The manufacture of complex workpieces in interlinked machine lines is available to you.







# BASICS

# BASIC EQUIPMENT

**Horizontal drilling blocks**



Individually selectable High-Speed drilling spindles provide high performance

**NC-support system**



NC-controlled support system for the highest degree of processing accuracy

**Workpiece clamping system**



Safe drilling in the edge area by NC-controlled workpiece clamping

**Sealed energy cable**



Secure and protected cable guide



### High-Speed drilling spindles



incl. mechanical clamping, Speed-controlled drilling blocks (1500-7500 rpm), Drilling cycles up to 1,5 s.

### Sealed guiding systems



Highest availability via "long-life" linear guiding systems

### Synchronous processing



High productivity by processing of two workpieces at the same time

### Workpiece transport



Integrated transport system with 3 program-controlled transport belts (max. 120 m/min.)



# OPTIONS INDIVIDUALITY

**Drill quick-change system**



Lowest set up times due to patented quick-change system of drilling spindles

**Pick-up tool changer**



3-fold pick-up tool changing system via HSK interface

**Integrated doweling**



This absolute highlight guarantees a considerably more flexible production and considerable saving of space as no separate doweling station is required.

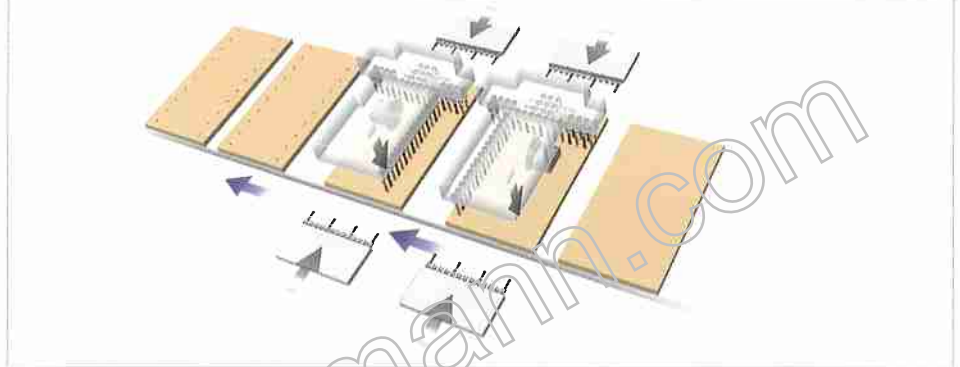


### Vacuum clamping system



Additional clamping system for highest quality of complex routing processings

### Simultaneous processing

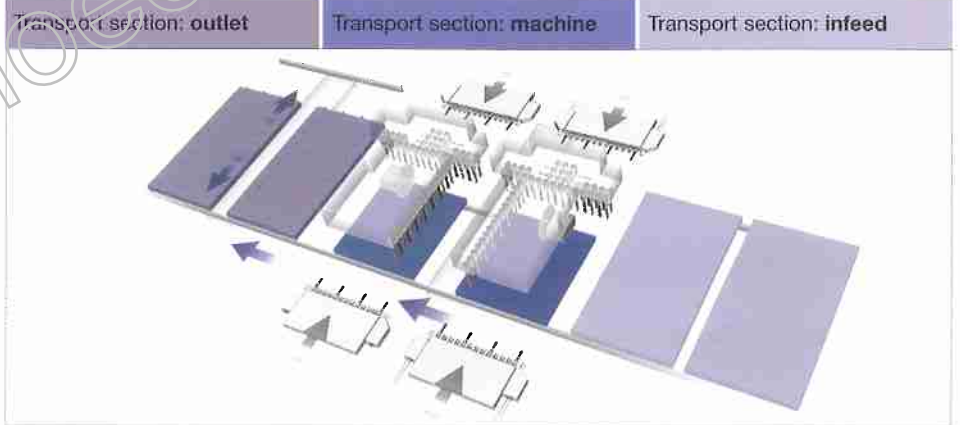


High output by horizontal and vertical processing in one station at the same time

### Vertical routing



For pockets and internal contours



Sectional set up - high flexibility for reduced batches



# HANDLING SYSTEMS

## Cleverly combined

- fast
- flexible
- precise

Feeding and stacking stations by the specialist BARGSTEDT are available for continuous feeding and removal of workpieces in board shape. A variety of combinations offer an optimal solution for any need and always secure protective treatment of your workpieces.





#### **Example Variant 1:**

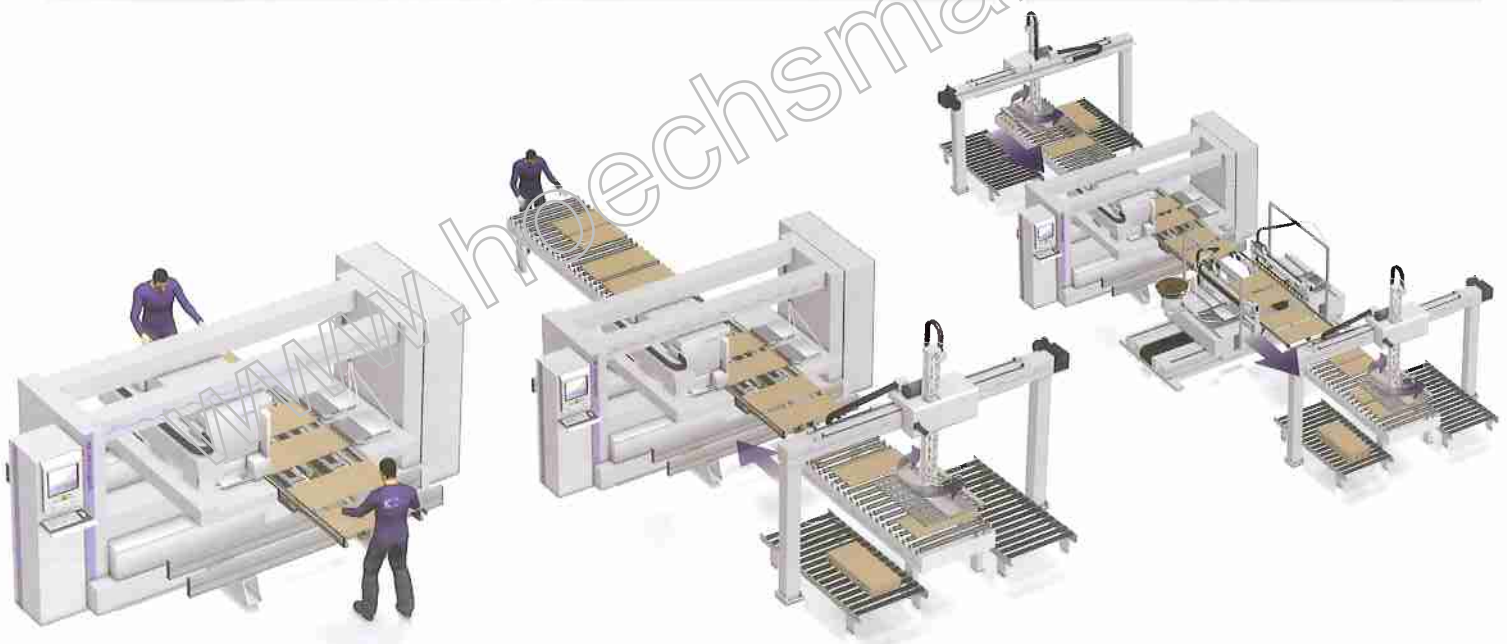
**Manual feeding and  
destacking**

#### **Example Variant 2:**

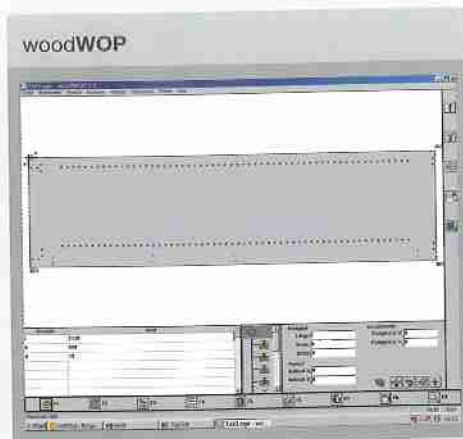
**Automatic feeding and manual  
destacking**

#### **Example Variant 3:**

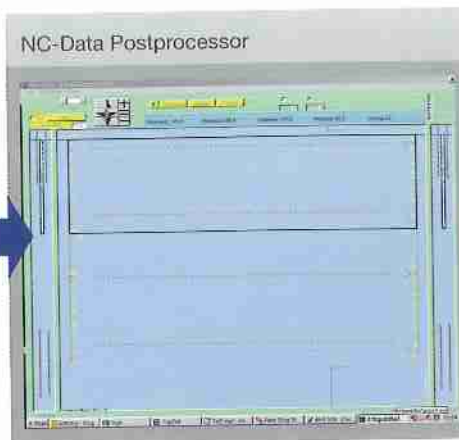
**Automatic feeding and  
destacking**



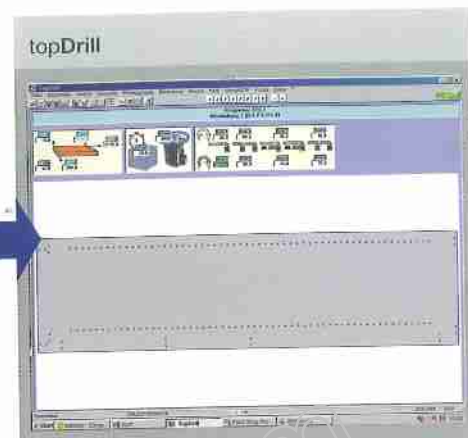
# SOFTWARE READY TO RACE



established CNC-programming system



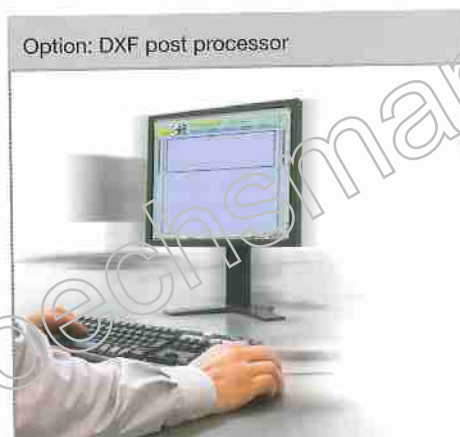
Creation CNC-Processing program



Machine operator surface



Machine data recording software

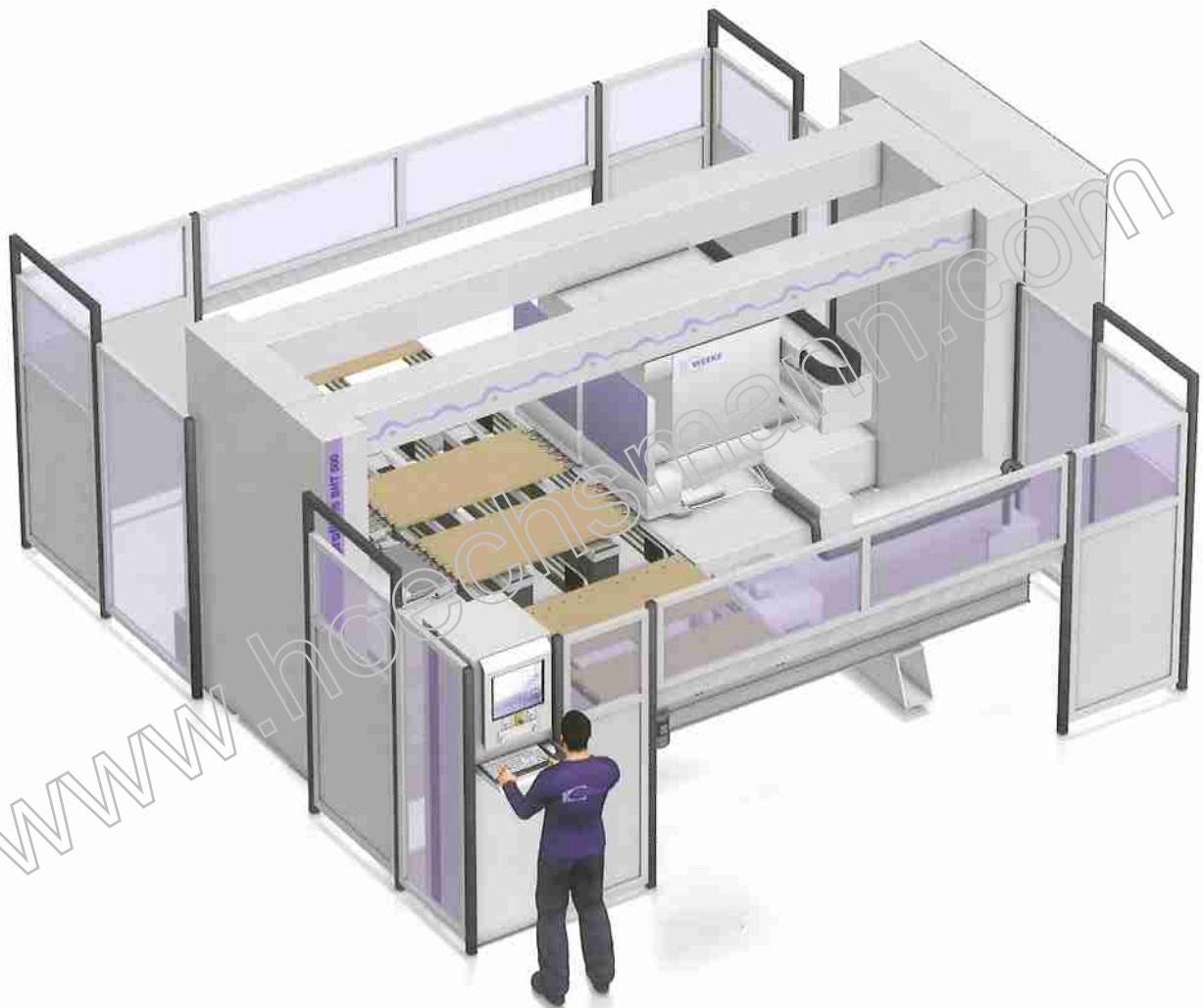


Interface for CAD-Data import





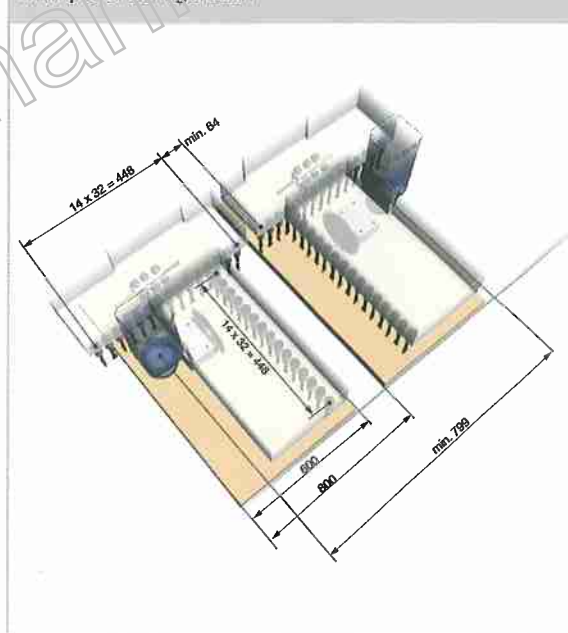
# TECHNICAL DATA





| Technical data                                |       | profiLine BHT 500                         |
|---|-------|---|
| Travel range X - Y - Z                        | mm    | 3280 - 1462 - 125                         |
| Rapid traverse speed X - Y - Z                | m/min | 80 - 65 - 25                              |
| Compressed air connection                     | inch  | R 1/2                                     |
| Compressed air required                       | bar   | 7   |
| Dust extraction port                          | mm    | 2 x Ø 200   Option: +1 x Ø140<br>+2 x Ø80 |
| Air speed                                     | m/sec | 30  |
| Dust extraction volume                        | m³/h  | min. 6800   Option: +2760                 |
| Total machine weight                          | t     | ca. 14                                    |
| Workpiece thickness                           | mm    | 12 - 60*                                  |
| Length of workpieces X                        | mm    | 250 - 2500 (3000*)                        |
| Width of workpieces - individual processing Y | mm    | 600 - 1400                                |
| Width of workpieces - double processing Y     | mm    | 100 - 600                                 |

Example of configuration



\*depending on equipment

Other working lengths upon request. Setting-up dimensions refer to our standard machine versions