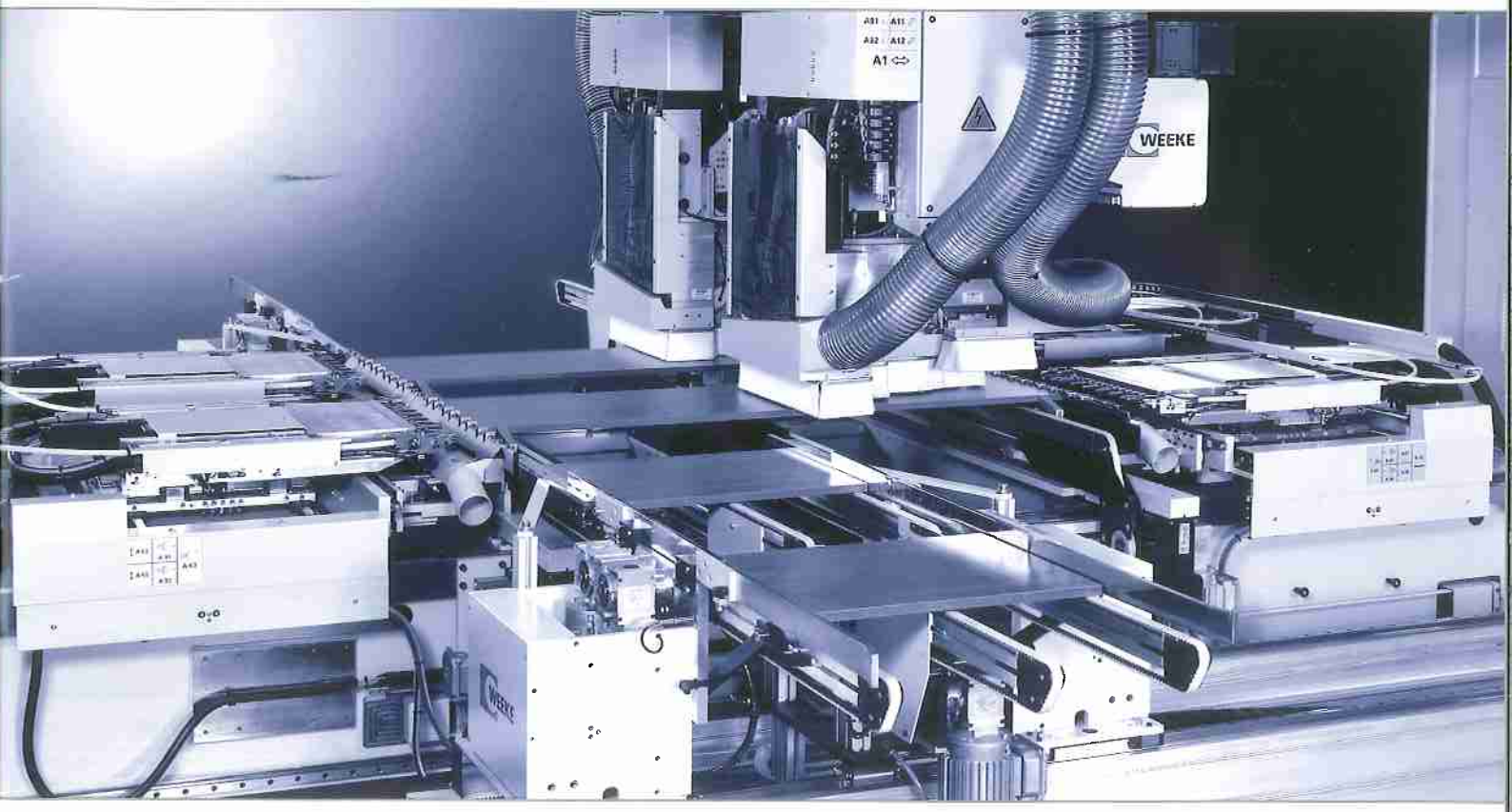
WEEKE

CNC-Gantry Processing Center
BHT 500



2009 / 2010 Optimat I profiLine



Contents

BHT 500 EFFICIENT POWER

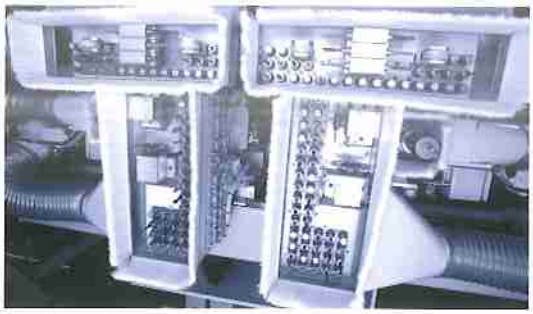
The **BHT 500** series offers you:

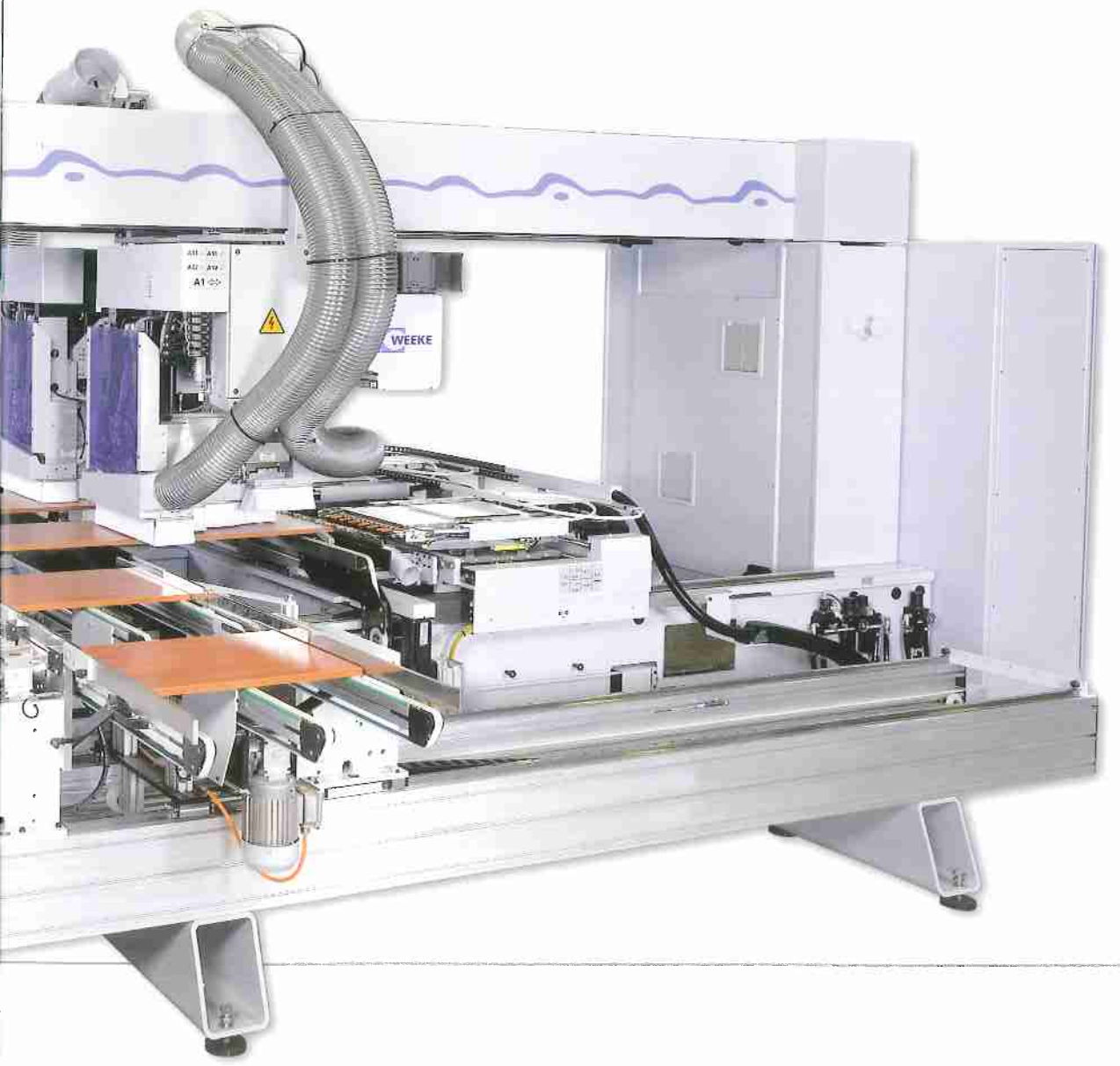
- five-sided drilling
- longitudinal and transversal groovings
- routing of vertical pockets as well as internal contours
- dowel inserting systems
- fully automatic set up within 20 sec.
- simultaneous processing of two workpieces
- up to 84 horizontal drilling spindles
- customer-specific set ups with 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.


WEEKE

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

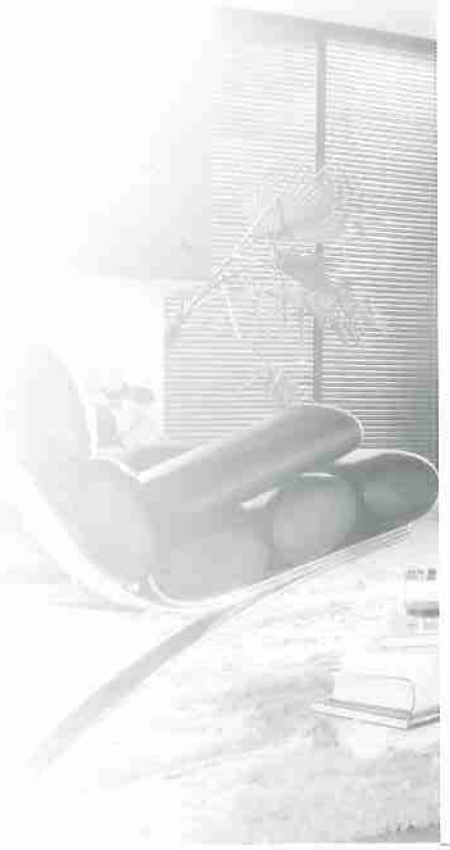
Synchronous processing

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



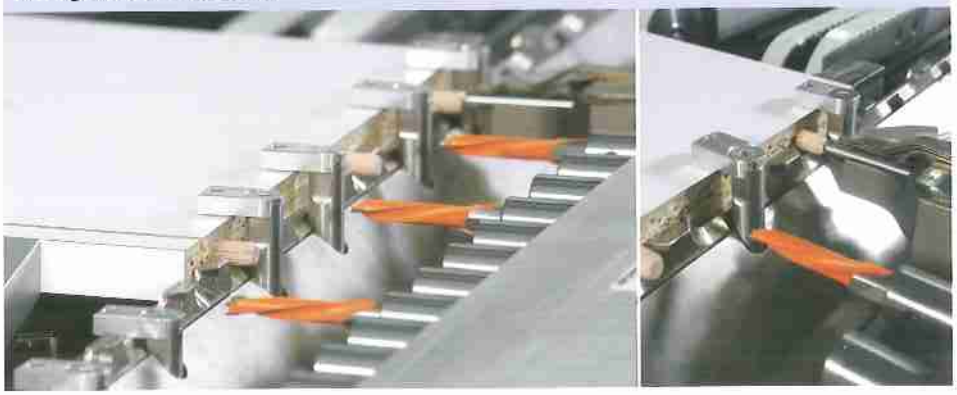
Drill quick-change system

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

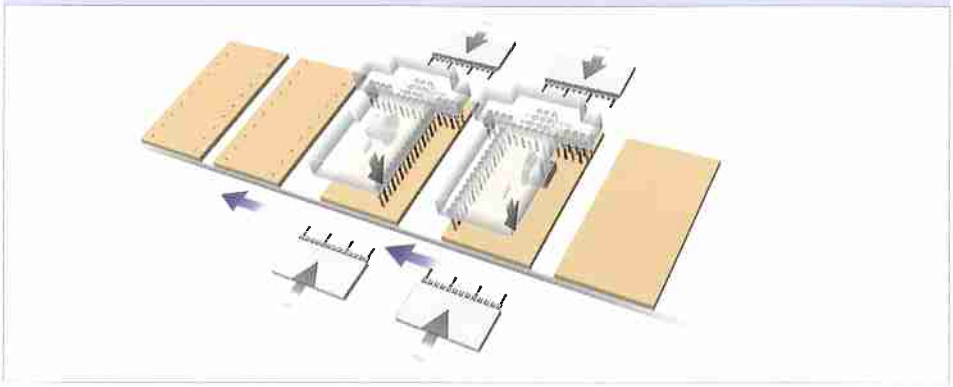


This absolute highlight guarantees a considerably more flexible production and considerable saving of space as no seperate doweling station is required.

Vacuum clamping system

Additional clamping system for highest quality of complex routing processings

Simultaneous processing

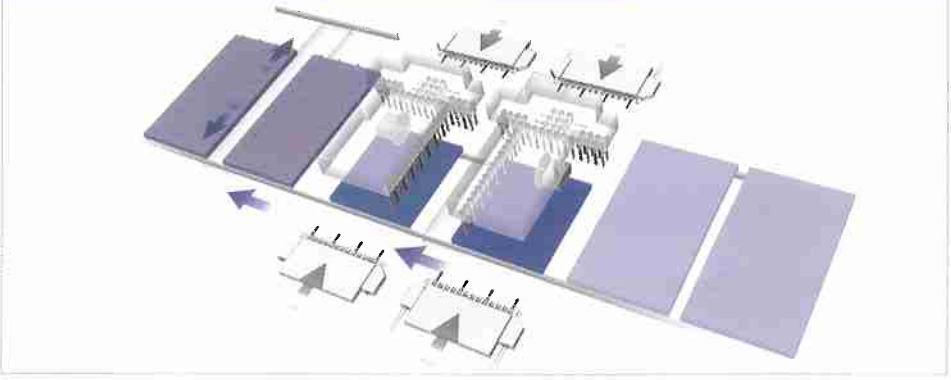


High output by horizontal and vertical processing in one station at the same time

Vertical routing

For pockets and internal contours

Transport section: **outlet** | Transport section: **machine** | Transport section: **infeed**



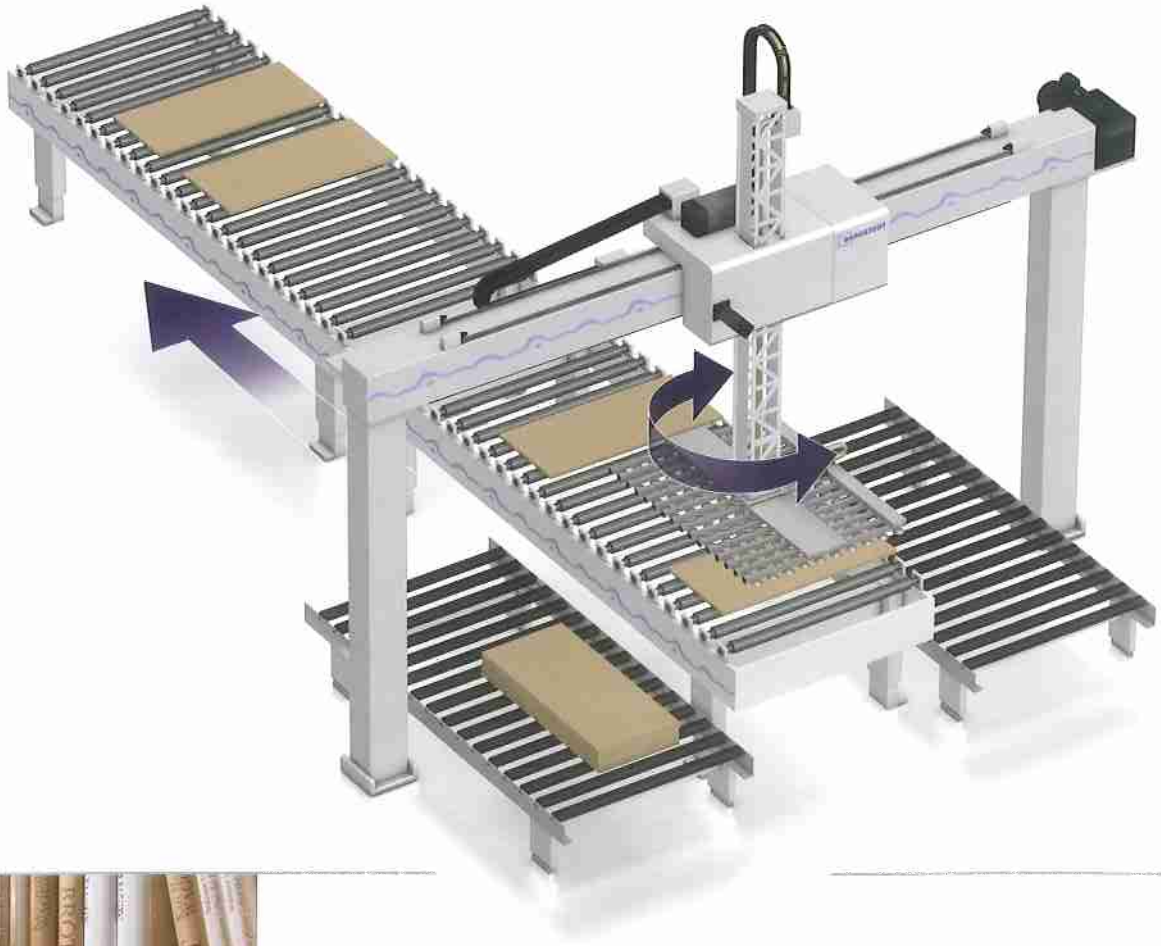
Sectional set up - high flexibility for reduced batches

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:

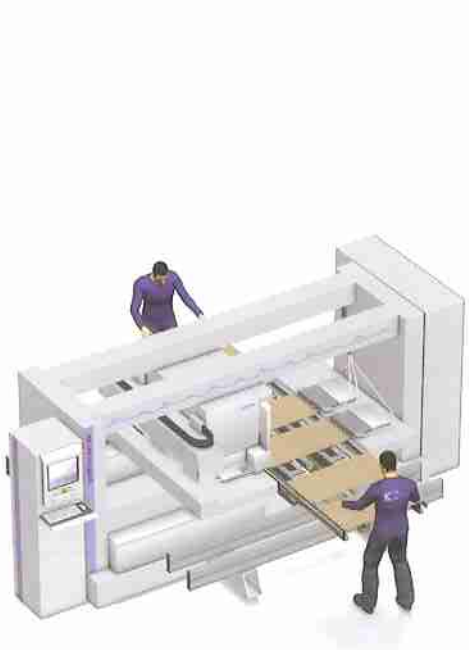
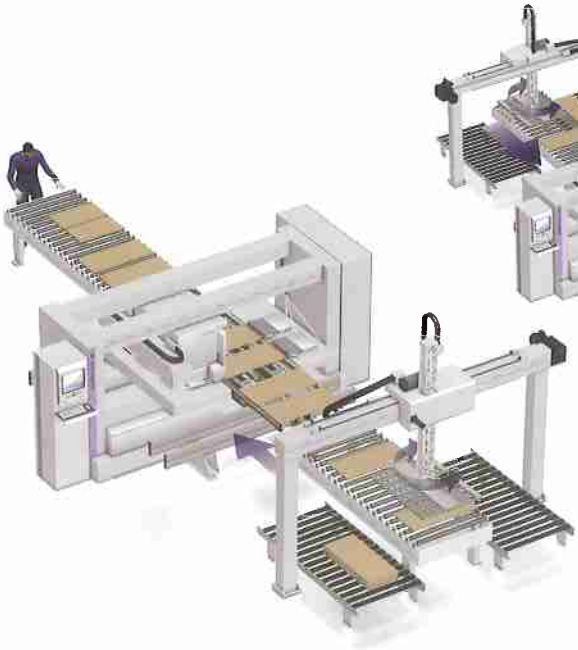
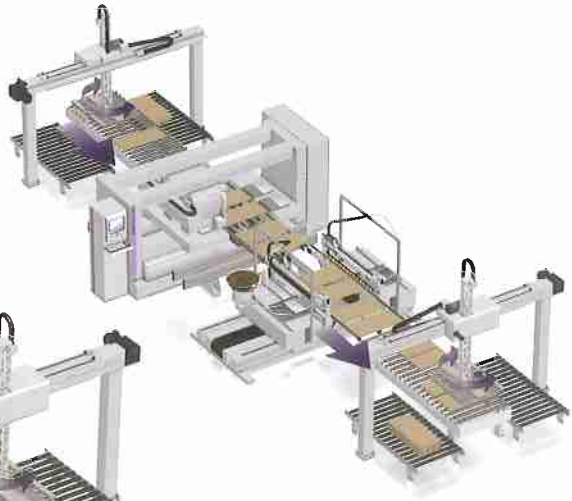
Manual feeding and destacking

Example Variant 2:

Automatic feeding and manual destacking

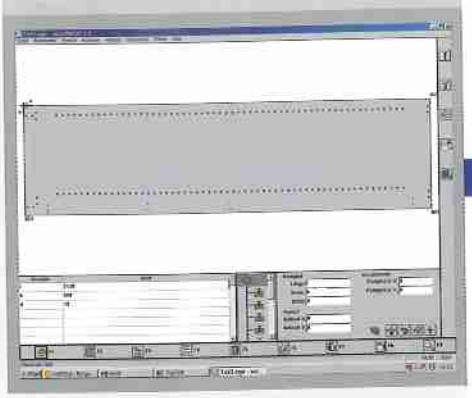
Example Variant 3:

Automatic feeding and destacking

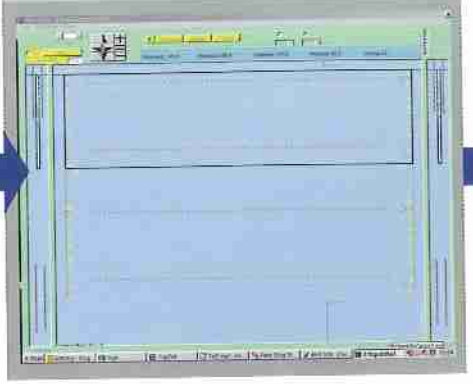
SOFTWARE READY TO RACE

woodWOP



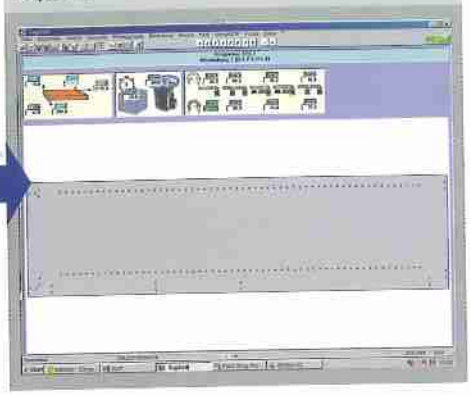
established CNC-programming system

NC-Data Postprocessor



Creation CNC-Processing program

topDrill

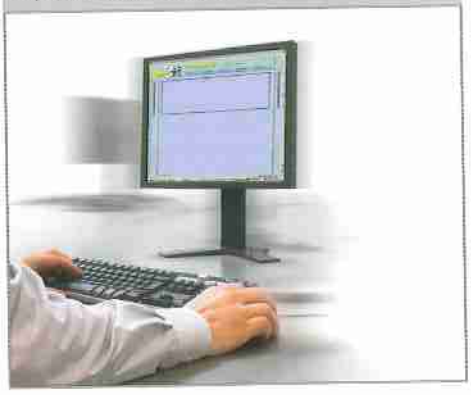


Machine operator surface

MDE Basic

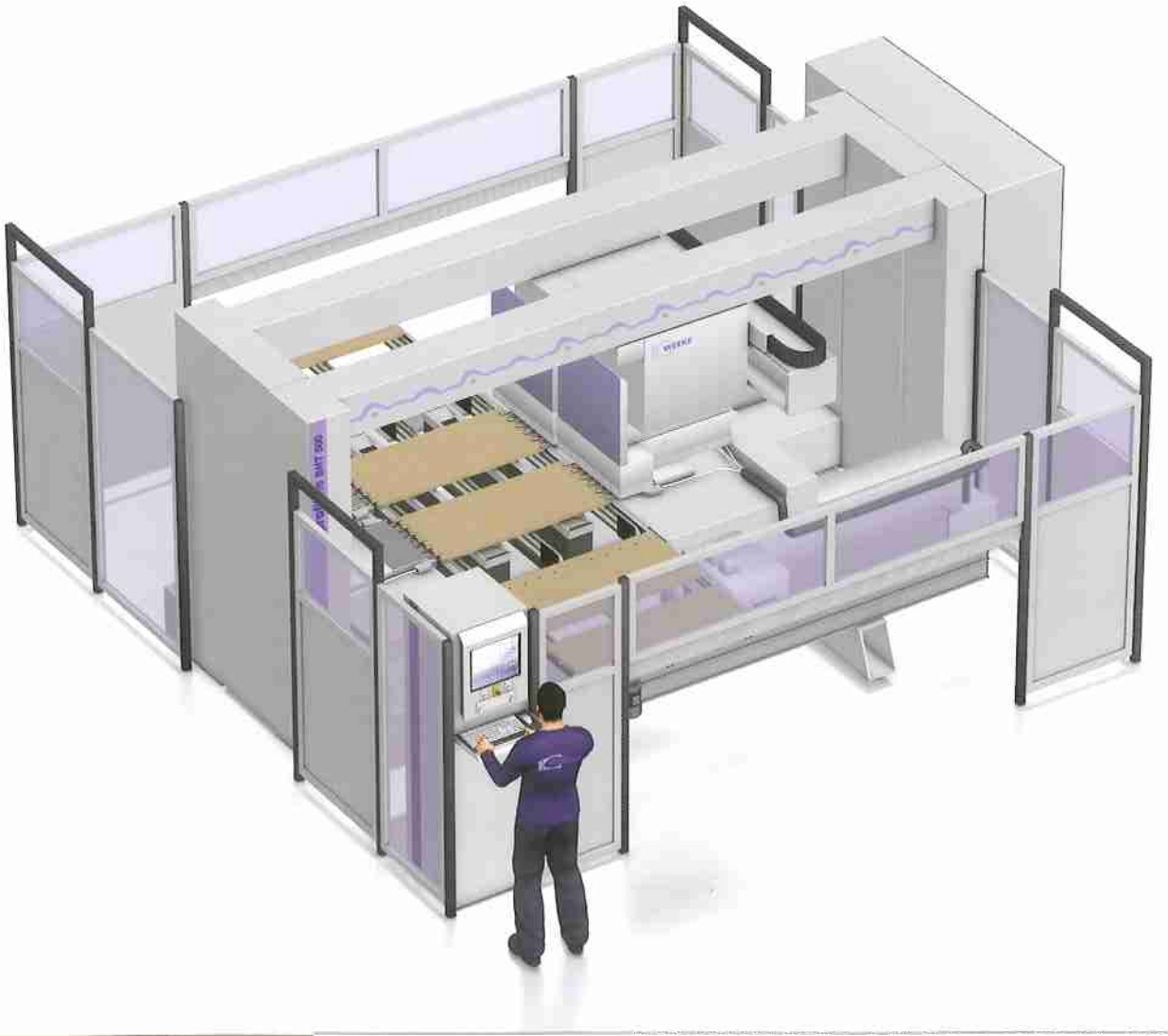
Machine data recording software

Option: DXF post processor



Interface for CAD-Data import

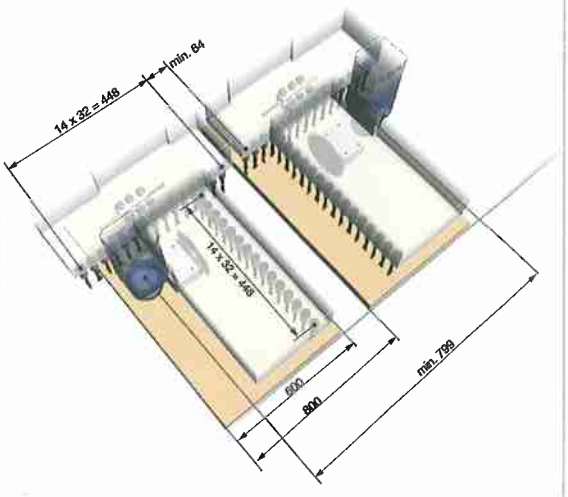
TECHNICAL DATA





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 +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