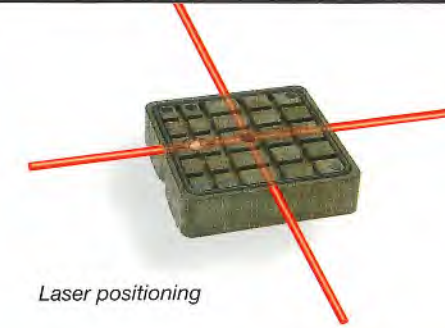


CNC-Machining Center OPTIMAT BP150, BP155

The power package in
the OPTIMAT range.
CNC technique of the
best.

OPTIMAT BP150

Your CNC-Machining Center



Laser positioning

With the Optimat series, WEEKE is presenting CNC-machining centers with quality and reliability looking back on 50 years of experience.

The Optimat Series is manufactured with state-of-the-art technology located Herzbrock-Clarholz, Germany.

All individual components are based on the latest technology available and are used throughout the entire HOMAG Group.

You decide what quality machinery means to the success of your business. Keep in mind the words of John Ruskin, English philosopher, and how his recommendation made over 100 years ago is still valid today:

„There is hardly anything in this world that some man cannot make a little worse and sell a little cheaper, and those who consider price only are this man's lawful prey.“
(John Ruskin, Social Philosoph 1819 - 1900)

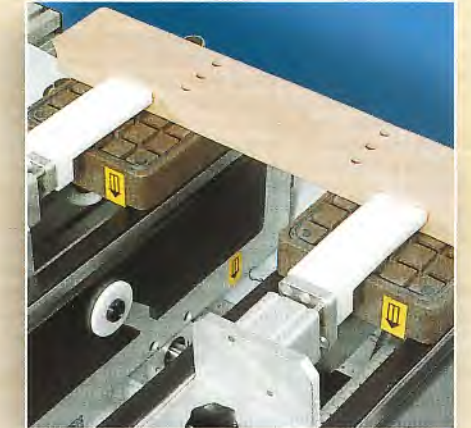
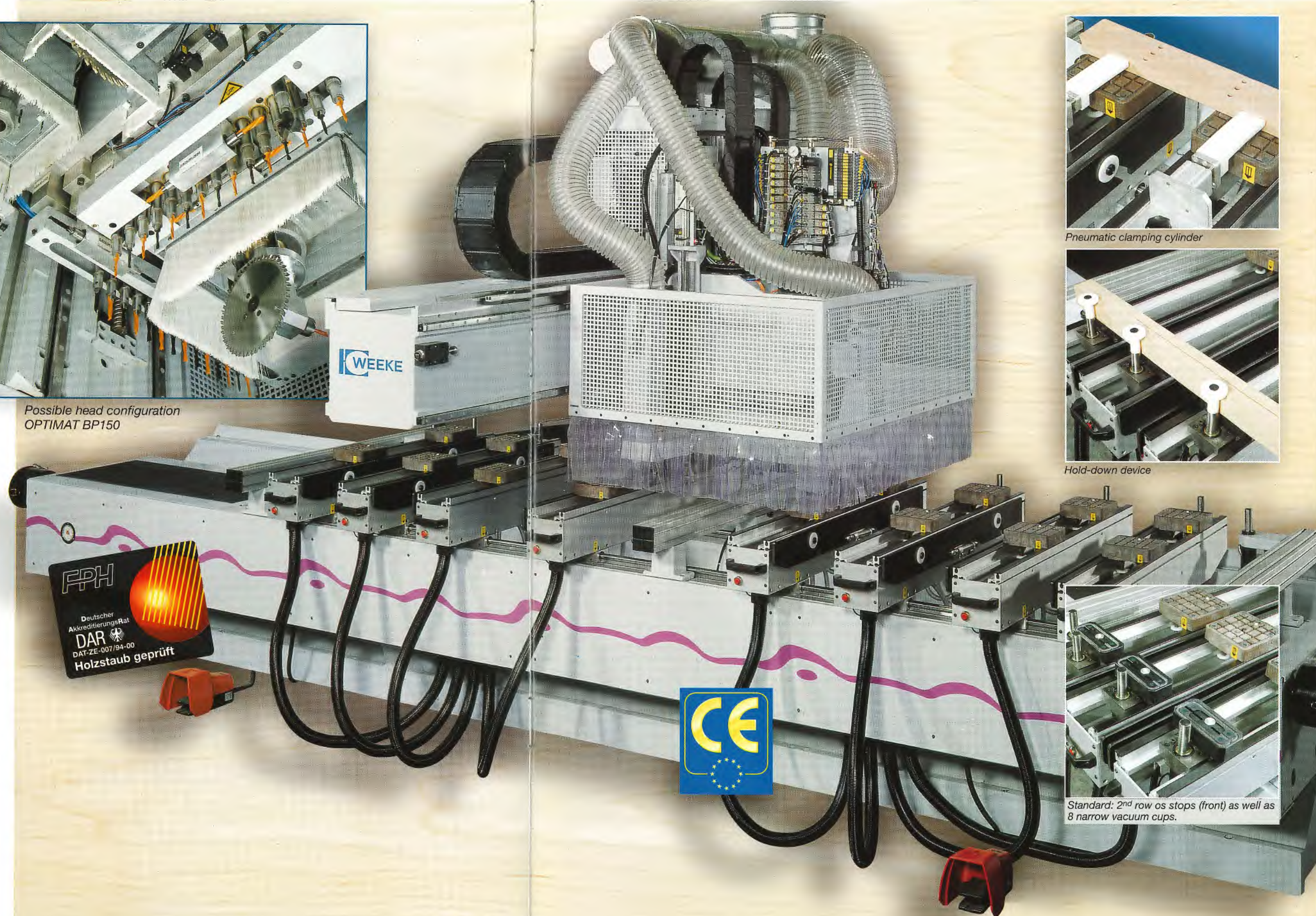
With the **BP150** and **BP155** we offer you an excellent ratio between price and performance and a solution which is open for the future.

What are you waiting for? Ensure your advantage over the competition by investing today in your future.

WEEKE - Your partner for the future. Member of the HOMAG Group. Certified by DIN ISO 9001.



Possible head configuration
OPTIMAT BP150



Pneumatic clamping cylinder



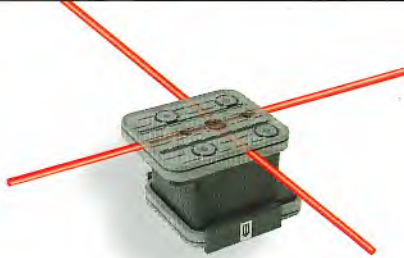
Hold-down device



Standard: 2nd row of stops (front) as well as 8 narrow vacuum cups.



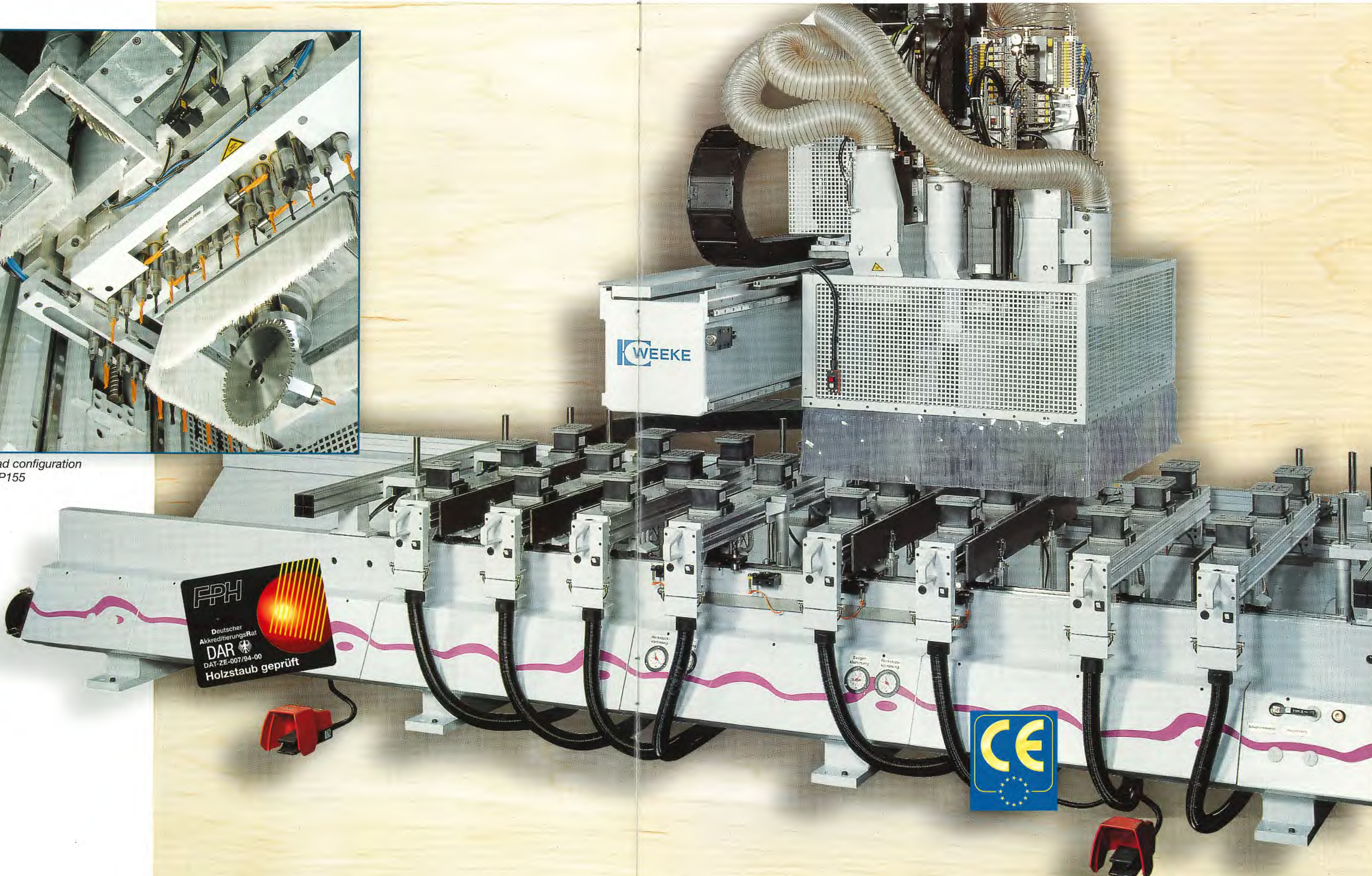
OPTIMAT BP155/Your CNC-Machining Center with the tubeless vacuum clamping system.



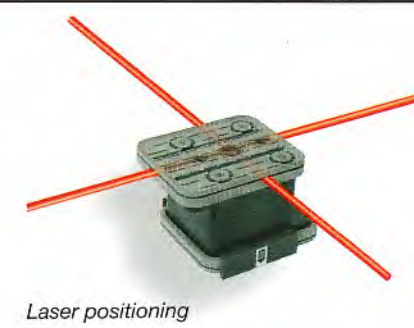
Laser positioning



Possible head configuration
OPTIMAT BP155



OPTIMAT BP155/Innovation in Part Hold-Down Technology. The tubeless vacuum clamping system.



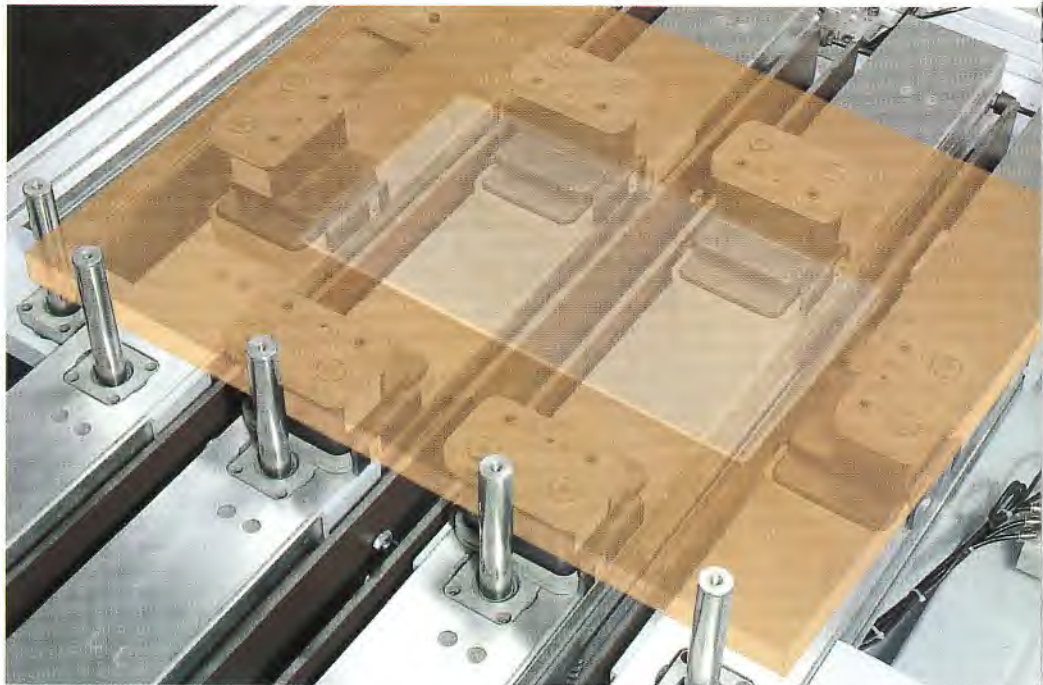
The clamping of the workpieces is one of the most critical issues for the quality of CNC-manufacturing. The combination of machine stability, high precision tooling and effective clamping guarantees a quality product leaving the machine. With these factors in mind we developed the console table with free and easy positioning of the vacuum pods. Our vacuum system provides high flexibility in order to clamp the workpiece.

The following technical features underline this flexibility.

- The side stops can be moved.
- A powerful vacuum pump, including an electronic vacuum control to ensure a strong clamping of the workpiece.
- Scales on the benches and the pods assist the operator in positioning the vacuum pods and the benches.
- Strong stops (D = 25 mm, proximity switch) guarantee an accurate positioning of heavy workpieces.
- The gasket of the vacuum pod can be exchanged easily.
- The vacuum pods for narrow parts can be positioned length- and crosswise.
- Up to 8 vacuum pods can be positioned on one bench. Off cut can be clamped easily.
- On top vacuum pods (90° indexing) for narrow parts.
- Panel feeding rails for an easy loading of the machine.
- 2nd row of stops assists operator in feeding narrow parts.
- Stop extensions – and pneumatic devices for laminated workpieces with overhang.
- Hold down devices and pneumatic cylinders for clamping frames or mouldings.



Proximity switch



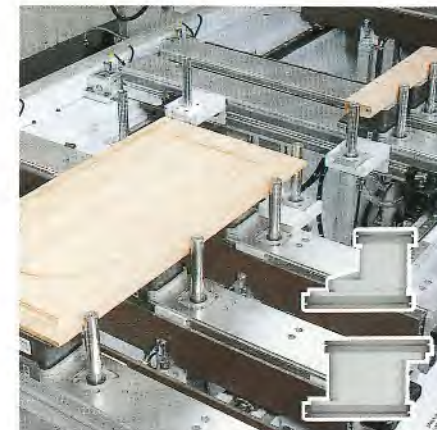
Narrow vacuum pods



Narrow vacuum pods (0°-45° indexing)



Narrow vacuum pods (0°-45° indexing)



Variety of vacuum pods



Tubeless vacuum system



A lot of clamping systems are available for narrow or frame parts.



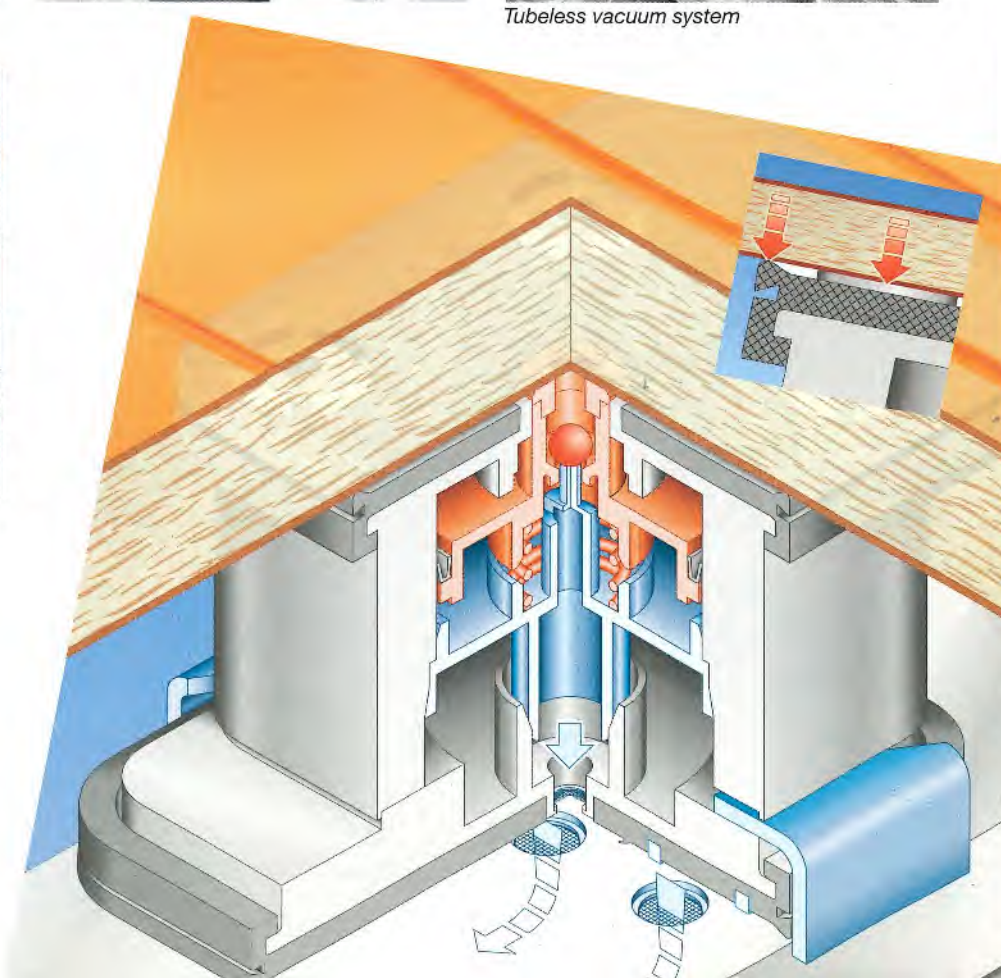
Tubeless vacuum system



Variety of vacuum pods



Tubeless vacuum system



The C-axis and the pneumatic Interface of the OPTIMAT BP150/155

Head configurations with fixed aggregates must be ordered up-front when buying the machine. You don't know what will happen in the future. WEEKE understands this problem and came up with a perfect solution: The aggregate capability. The aggregate capability gives you maximum flexibility.

You don't have to look forward to the future when buying the machine. We will offer a solution which considers the demand of the future.

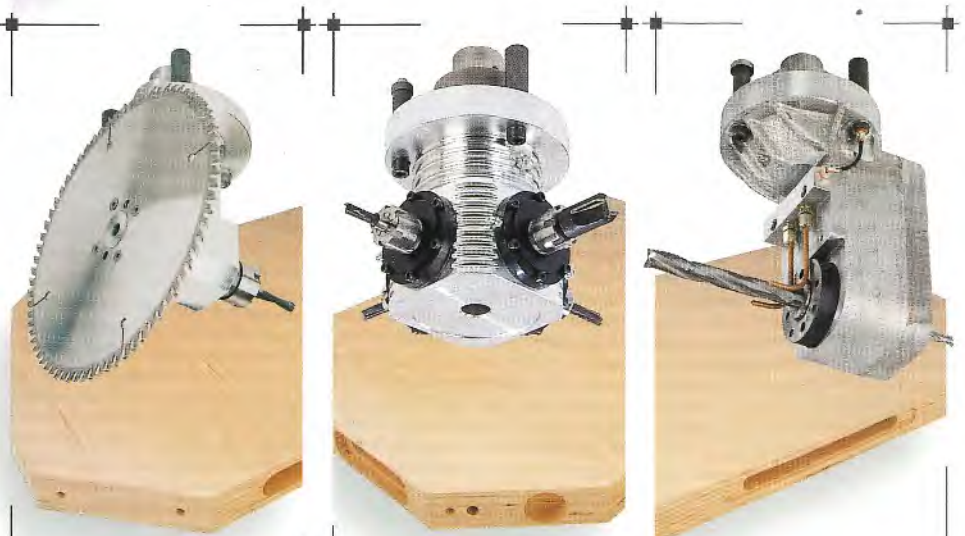
The C-Axis

Safe and accurate fixing of the aggregates with the HSK-tooling interface and three strong pins = high operating quality and long tooling life.

Free programming of the aggregates (360°) = processing with every angle.

The Pneumatic Interface

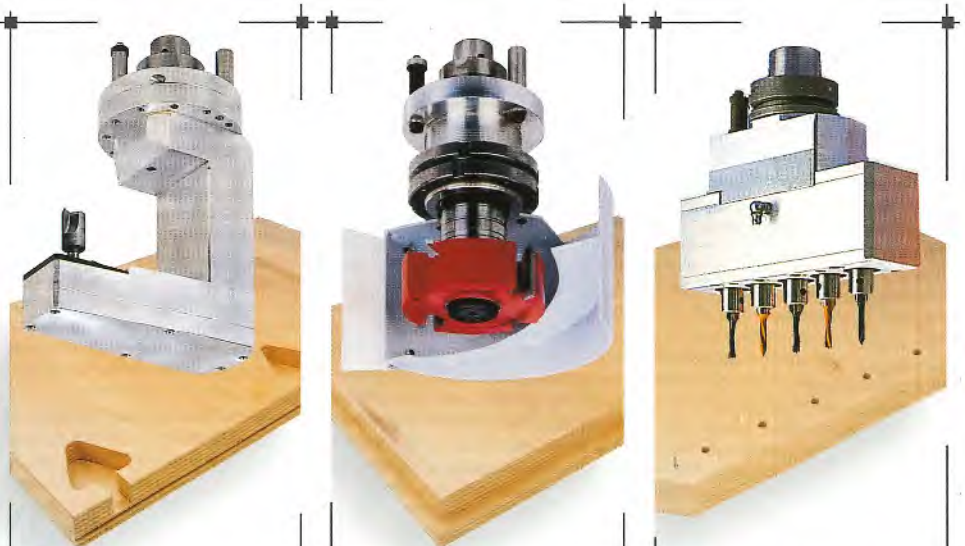
At place where air consumption is necessary the pneumatic interface is what you need – High Accuracy for floating applications and a long tool life when routing a cam box.



HSK 63 combination aggregate
For boring, routing and sawing such as connections, grooves and through cuts etc. under any angle (0°-360°).
Max saw blade diam. 240 mm.

HSK 63 routing aggregate
For boring and routing up to a depth of 50 mm under any angle (0°-360°).

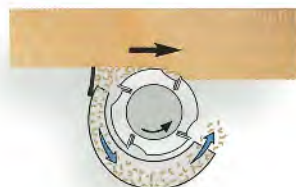
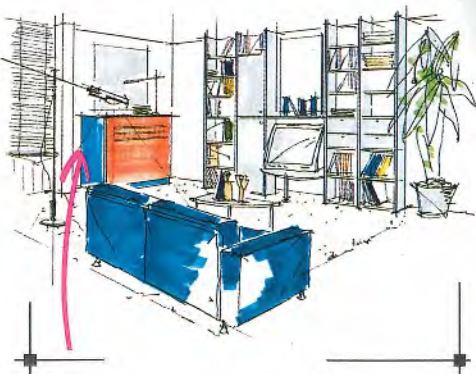
HSK 63 cam box routing aggregate
For cam box routing, hinge slots and horizontal routing up to a depth of 128 mm (0°-360°).

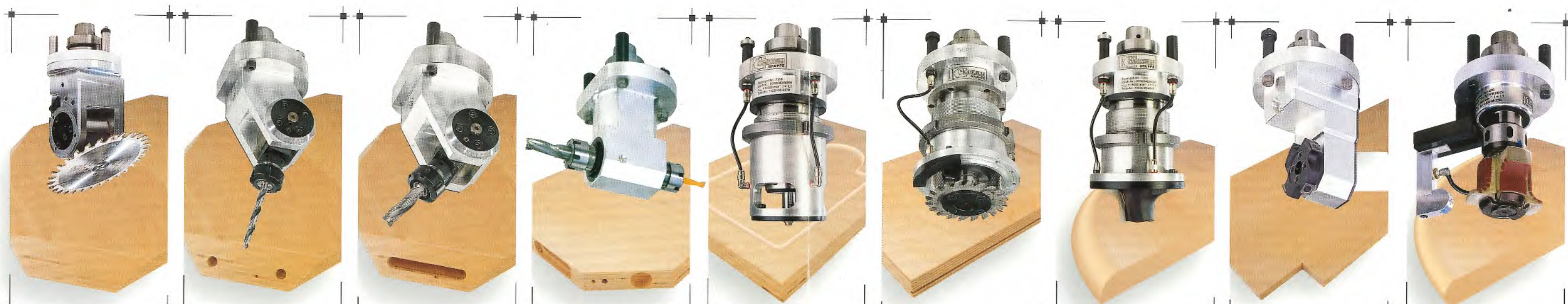


HSK 63 Underside Routing Aggregate
Vertical routing or drilling from the bottom of the workpiece. Routing is possible up to 100mm from the corner (0°-360°).

HSK63 Aggregate with Chip device
Vertical routing with a high amount of chips, Heavy routing and profiling – a spiral is leading the chips straight into the dust extraction (0°-360°).

HSK boring aggregate
For hole row borings under any angle (0°-360°). Possible distances 25, 30, 32 or 50 mm).





HSK 63 boring/sawing inclinable
For boring and sawing up to a depth of 50 mm under any angle (0°-360°). The inclination of the borer or the saw blade can be adjusted manually (0°-90°).

HSK 63 boring/routing inclinable
For boring and sawing up to a depth of 78 mm under any angle (0°-360°). The inclination of the borer or the saw blade can be adjusted manually (0°-90°).

HSK 63 boring/routing inclinable
For boring and sawing up to a depth of 78 mm under any angle (0°-360°). The inclination of the borer or the saw blade can be adjusted manually (0°-90°).

HSK 63 routing aggregate 2 spindles (clockwise/anti-clockwise operation).
For boring and routing up to a depth of 50 mm under any angle (0°-360°).

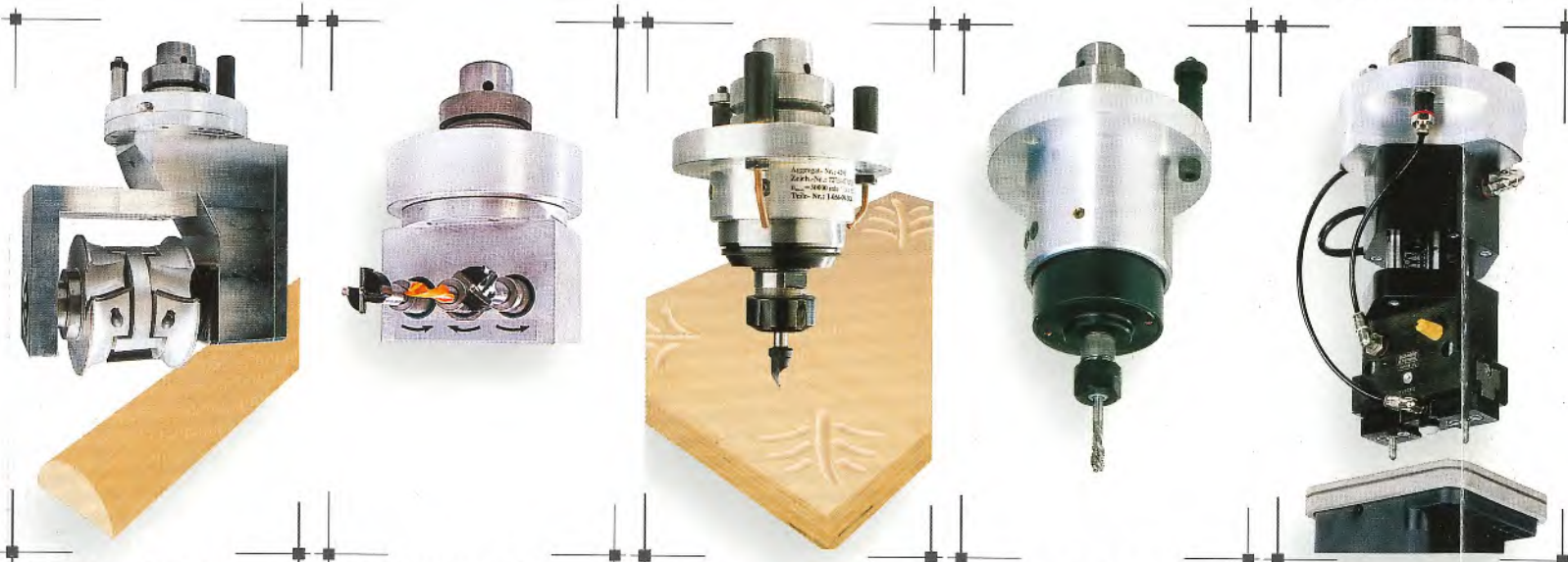
HSK 63 routing vertical with tracing ring
For routing in the workpiece surface, for routing of profiles or for tongue and groove connections. The complete surface of the tracing ring can lie on the workpiece. Chips are being removed by the integrated blow nozzle.

HSK 63 routing vertical with tracer shoe
For routing in the workpiece surface, for routing of profiles or for tongue and groove connections, with C-axis controlled tracer shoe. Chips are being removed by the integrated blow nozzle.

HSK 63 routing vertical with tracing ring
For routing in the workpiece surface, for routing of profiles or for tongue and groove connections. The complete surface of the tracing ring can lie on the workpiece. Chips are being removed by the integrated blow nozzle. (0°-360°).

HSK 63 corner notching aggregate
For sharp-edged rectangular notching up to a material thickness of 25 mm under any angle (0°-360°).

HSK 63 adapter for sanding tool
For sanding of MDF or solid wood edges. The sanding tool is continuously cleaned by a blow nozzle.



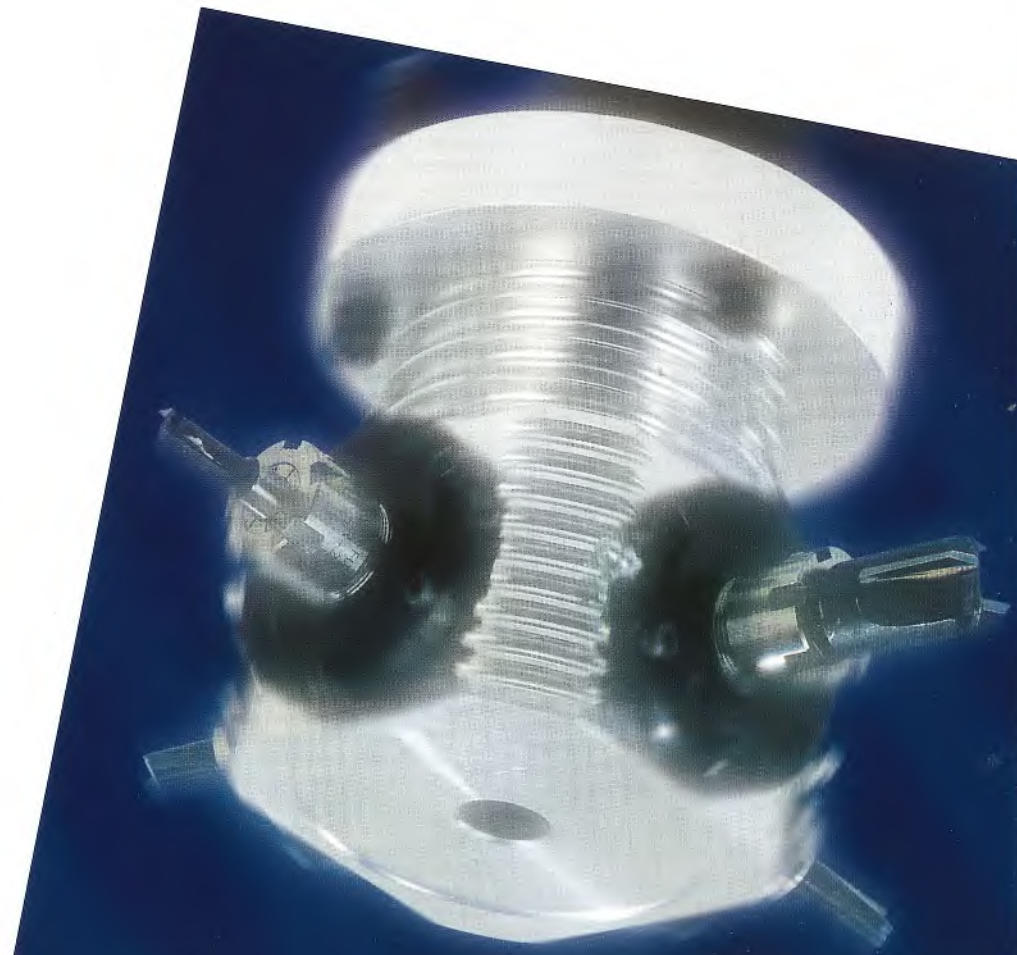
HSK63 Planning Aggregate
Surface Applications up to 100mm width, like grooving or V-grooving but also Applications with different height in the surface.

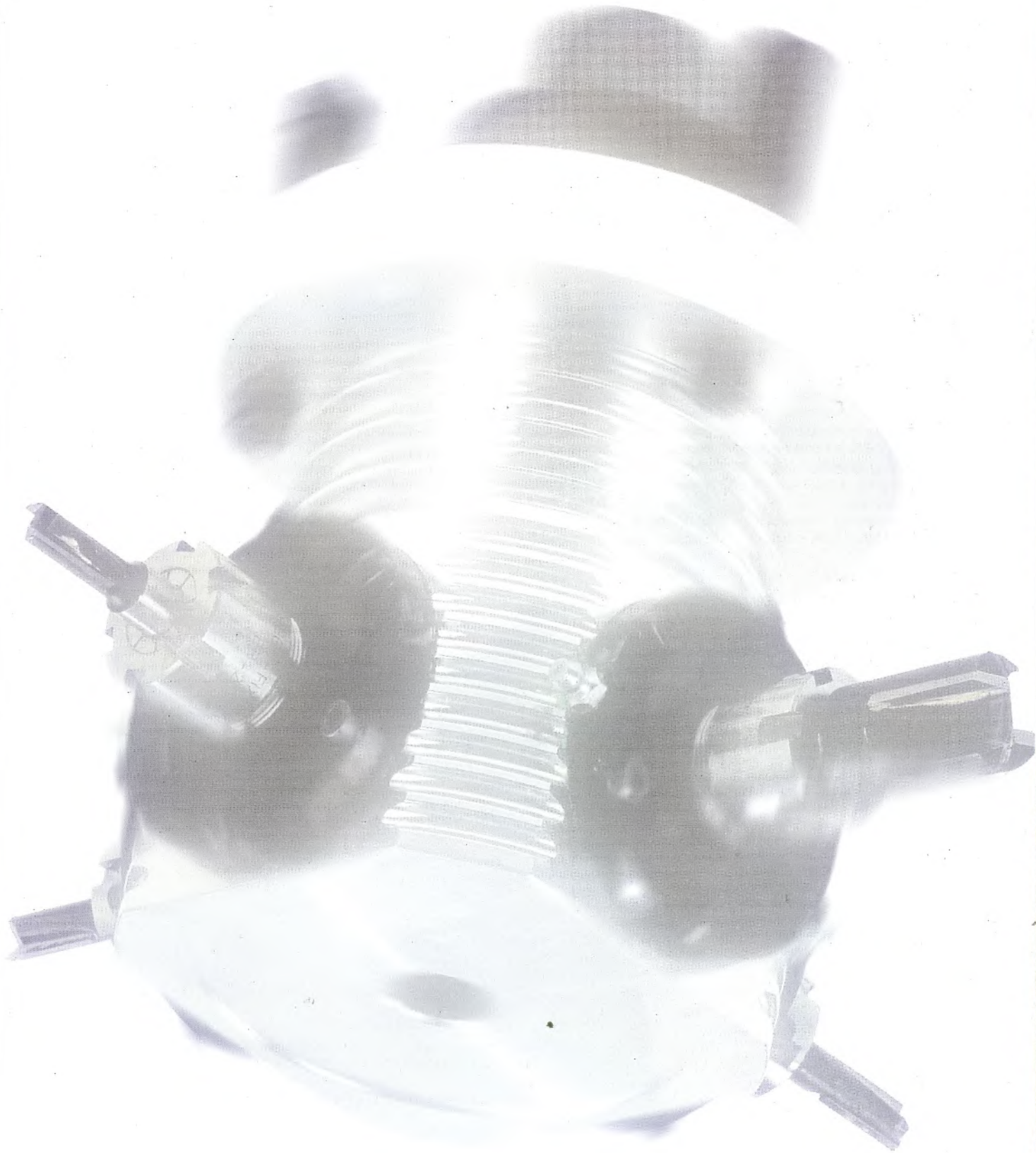
HSK 63 horizontal boring aggregate
For boring patterns under any angle (0°-360°).

HSK 63 speed increaser
up to 30000 rpm. For light operations and small tool diameters.

HSK 63 thread cutting aggregate
For threads from M4 to M12 in plastics.

HSK63 Positioning Aggregate
Automatic positioning of the benches and the vacuum pods supported from the Woodwop software.





HSK63 – State-of-the-art technology with unmatched accuracy and repeatability OPTIMAT BP150/ BP155



The OPTIMAT BP150/BP155 – Powerful, liquid cooled HSK63 router spindle with an automatic tool changer.

Innovative Technology for truly demanding jobs

The modern routing spindle has to manage today's challenges. The latest workpiece materials like MDF, solid surface material, Lexan and Plexiglas expect more from the heart of the machine – the main spindle. We took the challenge and designed our machine with:

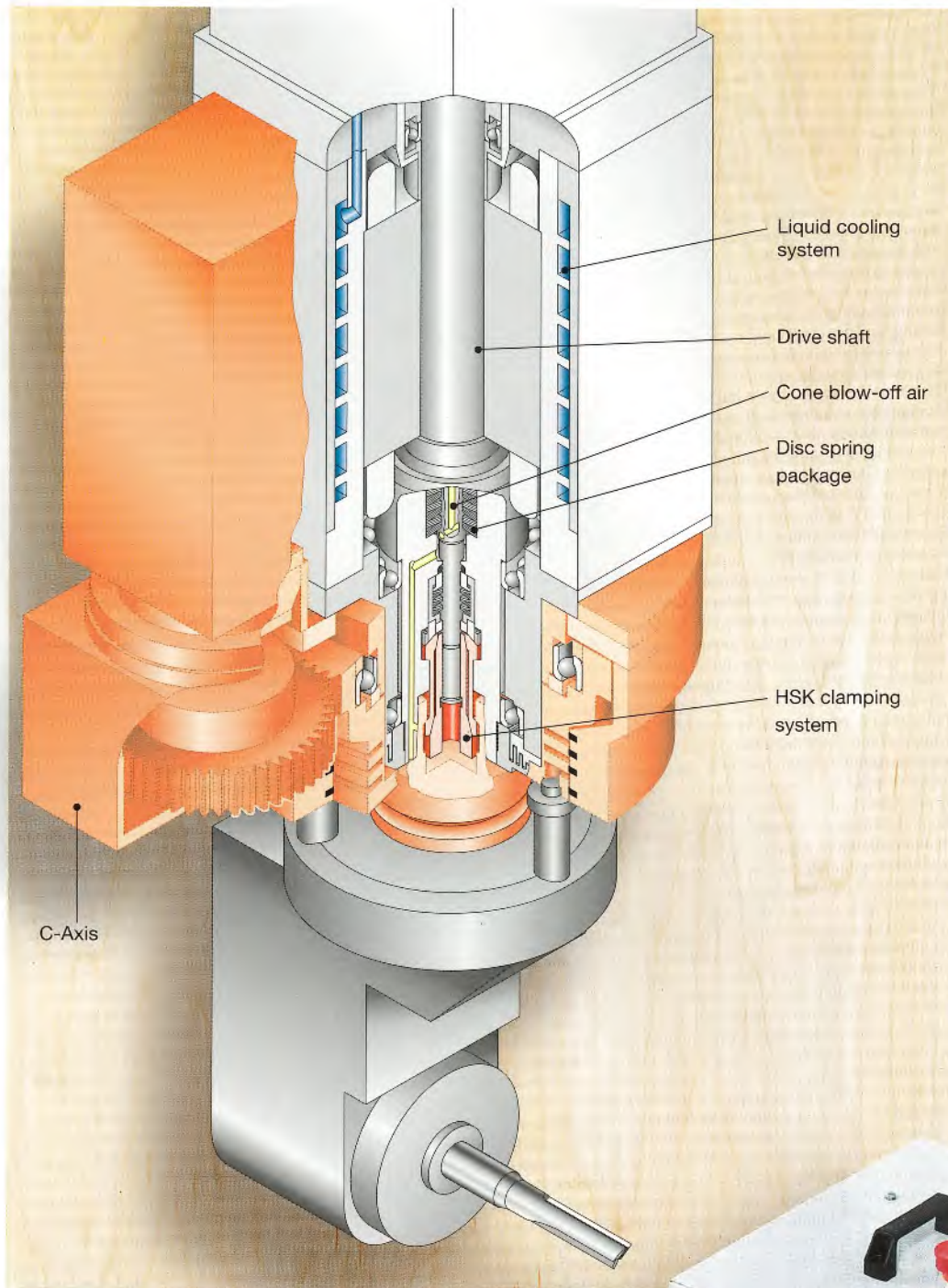
- Constant Temperature even at high RPM and heavy routing.
- No heating at the bearings = **High Reliability**
- Electronic Sensors = **Long Life**

HSK Tool Interface

Although the SK-System (SK30 or SK40) is very common the advantages of the **HSK Tooling Interface** are obvious.

The increasing demand for quality and cutting quantity (volume) is causing higher cutting speeds. As a result there is an increase of rpm with this increase there are higher centrifugal forces. The **HSK-System** clamps from the inside increasing centrifugal force causing more strength. The large surface between the tool holder and spindle and a force of 11 kN make this system unique. It is able to handle the challenge of today and tomorrow.

The SK-Systems clamp from the outside. Increased centrifugal force weakens the system and reduces the cut quality.



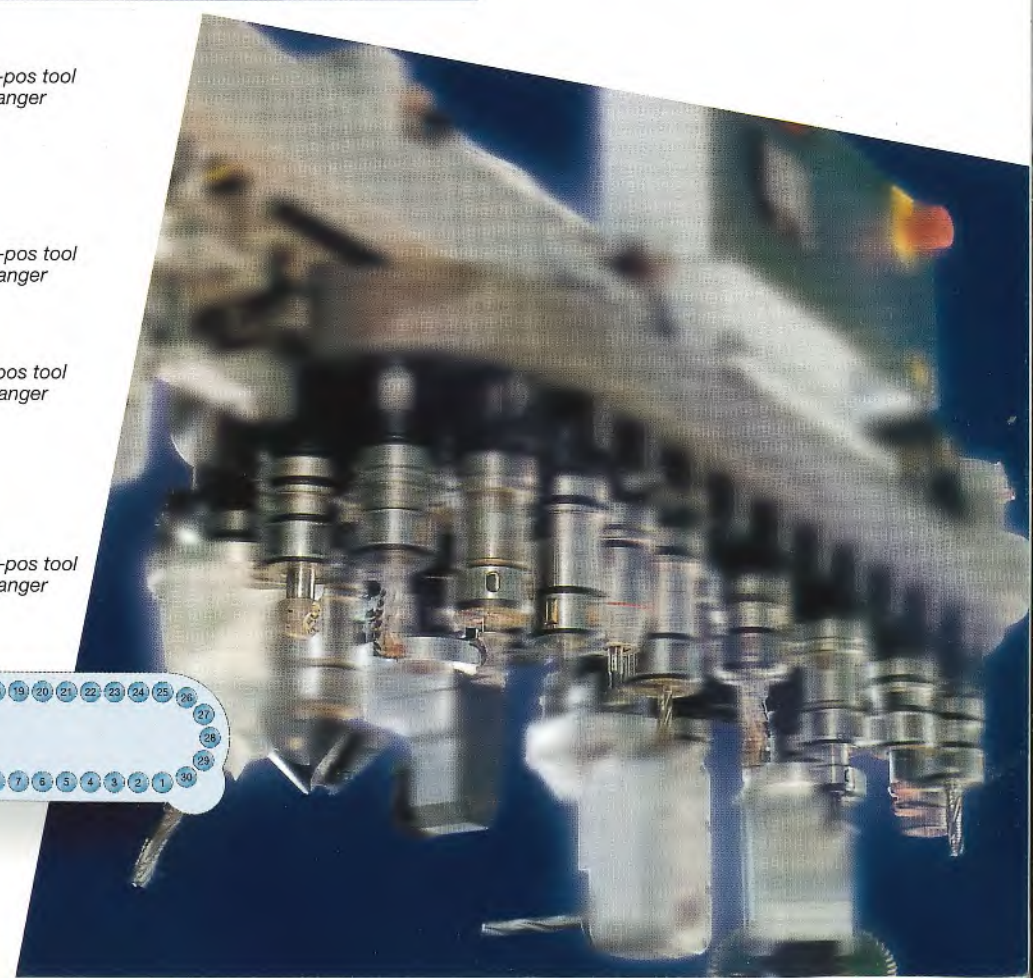
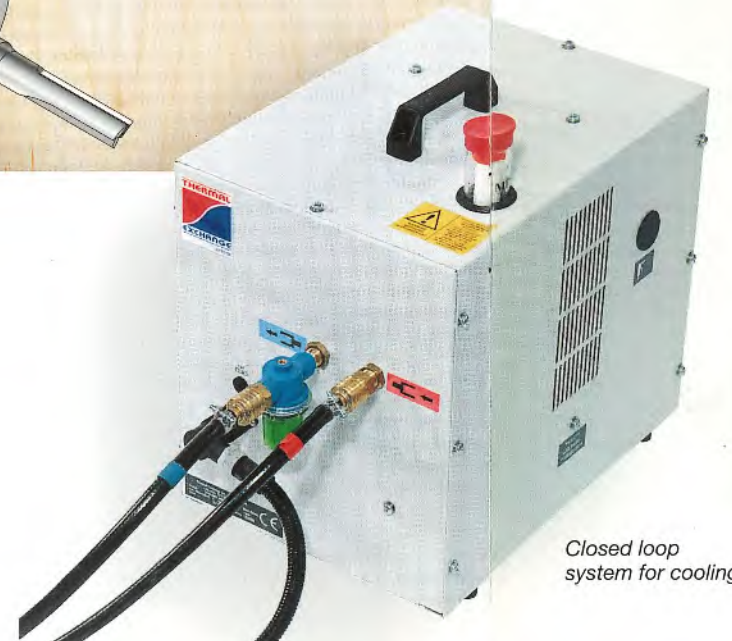
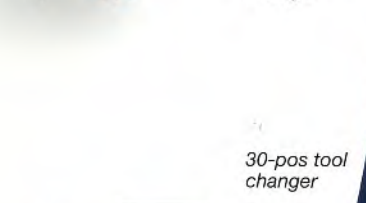
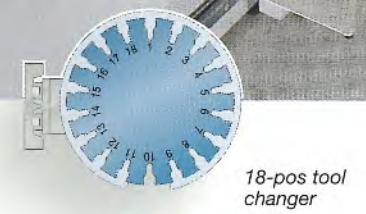
Ride Along Tool Changer

The tool changer carrying 8 tools, is mounted at the support and rides along in X-direction reducing tool change times and allowing two field operation.

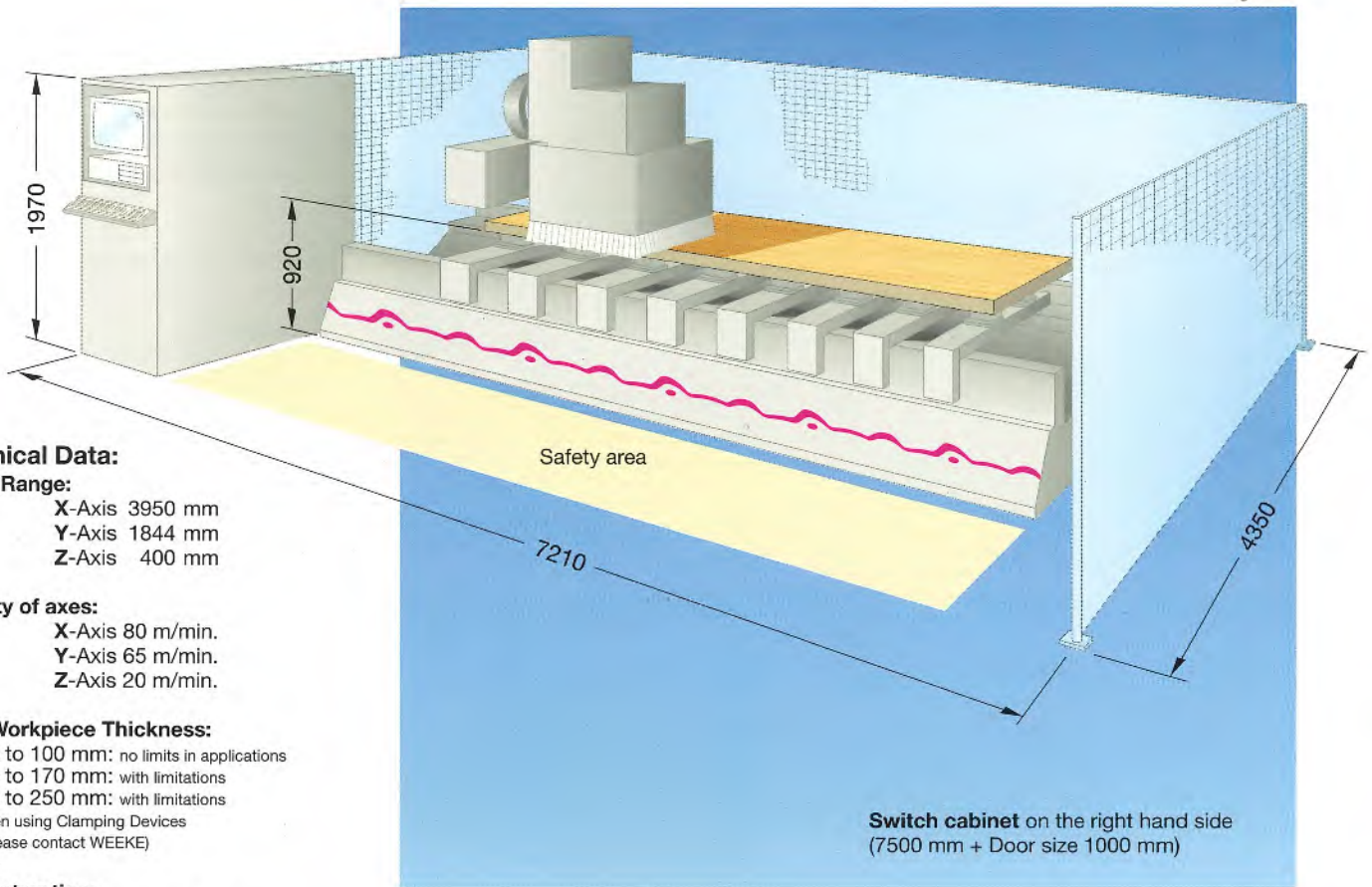
Option: 12-, 18- and 30-pos tool changer



Operator terminal next to the tool changer



Where to go with the OPTIMAT? Onto Your Shop Floor – Automate and improve your current operation!



Technical Data:

Travel Range:

X-Axis 3950 mm
Y-Axis 1844 mm
Z-Axis 400 mm

Velocity of axes:

X-Axis 80 m/min.
Y-Axis 65 m/min.
Z-Axis 20 m/min.

Max. Workpiece Thickness:

- Up to 100 mm: no limits in applications
- * Up to 170 mm: with limitations
- * Up to 250 mm: with limitations
when using Clamping Devices
(please contact WEEKE)

Dust Extraction:

Tube connection: d = Ø 250 mm
Connection: approx. 4950 m³/h
Air Velocity: approx. 28 m/sec.

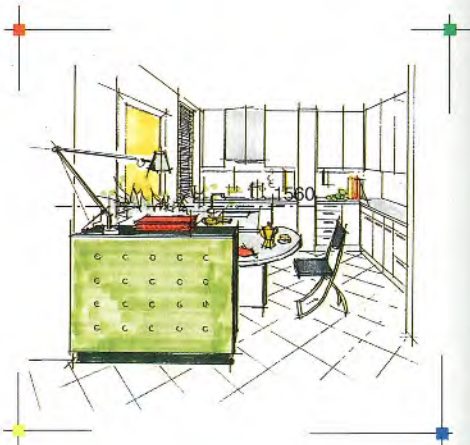
Electronics: Connection approx. 20 kW

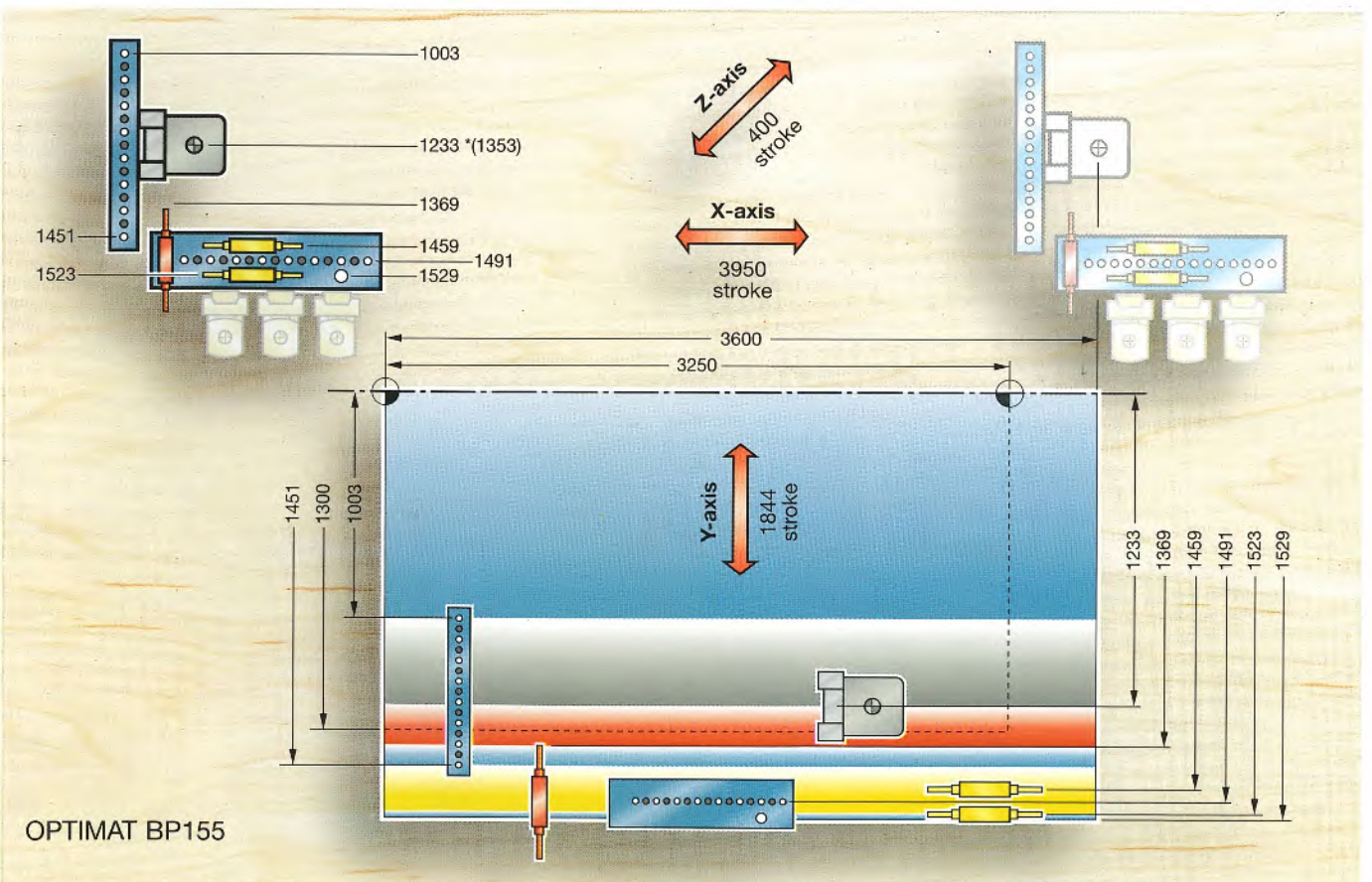
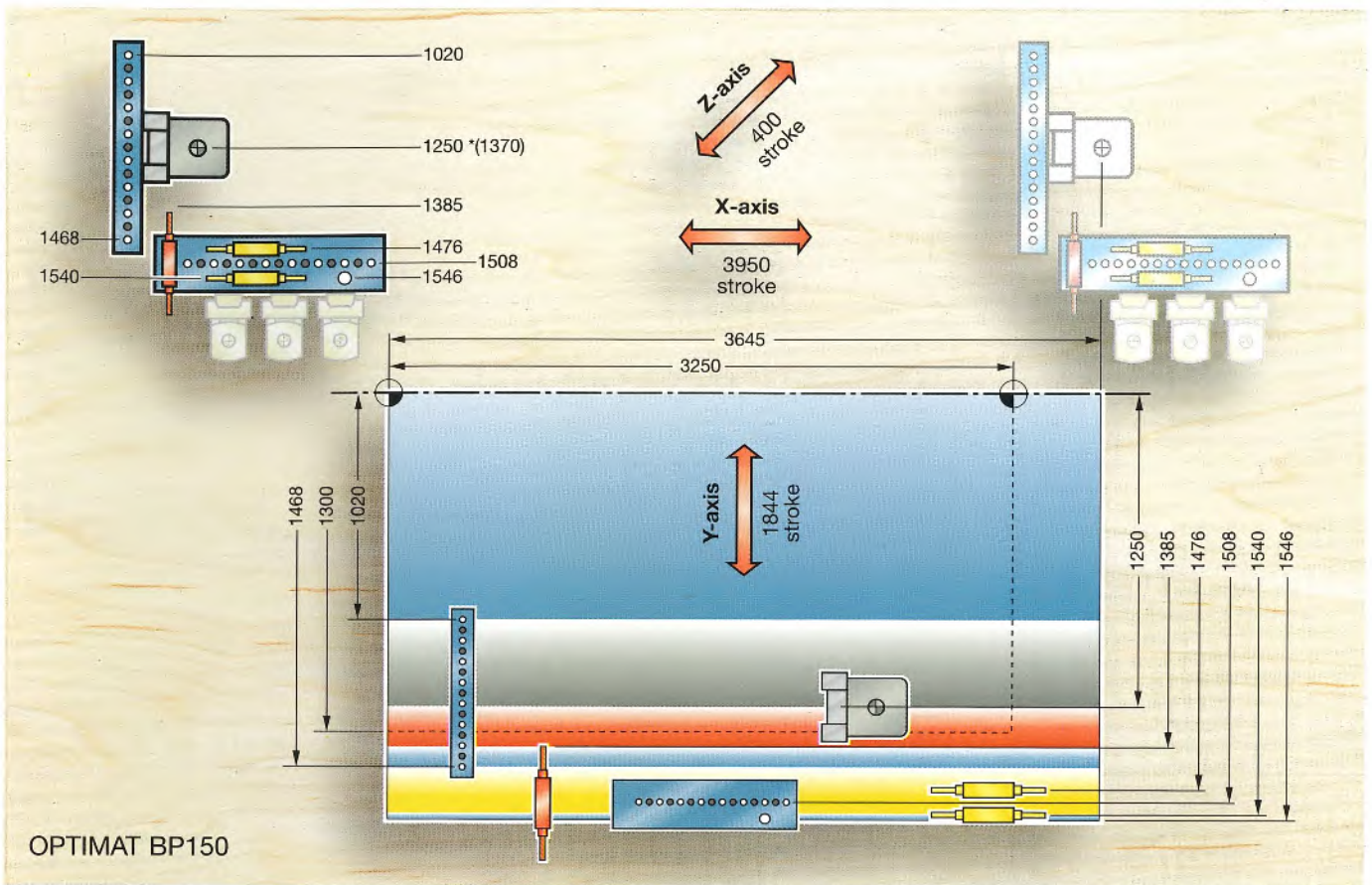
Pneumatic:

Connection: R 1/2"

Machine Weight: approx. 5500kg

Switch cabinet on the right hand side
(7500 mm + Door size 1000 mm)





* no container packing possible

Highlights in Hard- and Software

The WoodWOP and the Homatic 2000 system is developed in close cooperation with you and our specialists.

Short cycle times are in our days a must. Any profit is realized by a fast and safe programming. Easy handling and high reliability you know already from your standard machines are realized by the WoodWOP surface. Parametric programming and the possibility of component technique together with your know-how will lead to a maximum of productivity.

The interface between man and machine has been realized by WEEKE with a PC-System and the Microsoft Windows® world many years ago. Easy handling of the machine in the daily business is the result of this solution – you are moving in a confidential world. You know this world already from your home it provides safety and confidence.

With WoodWOP you are going to program your success.

WoodWOP = Workshop Orientated Programming

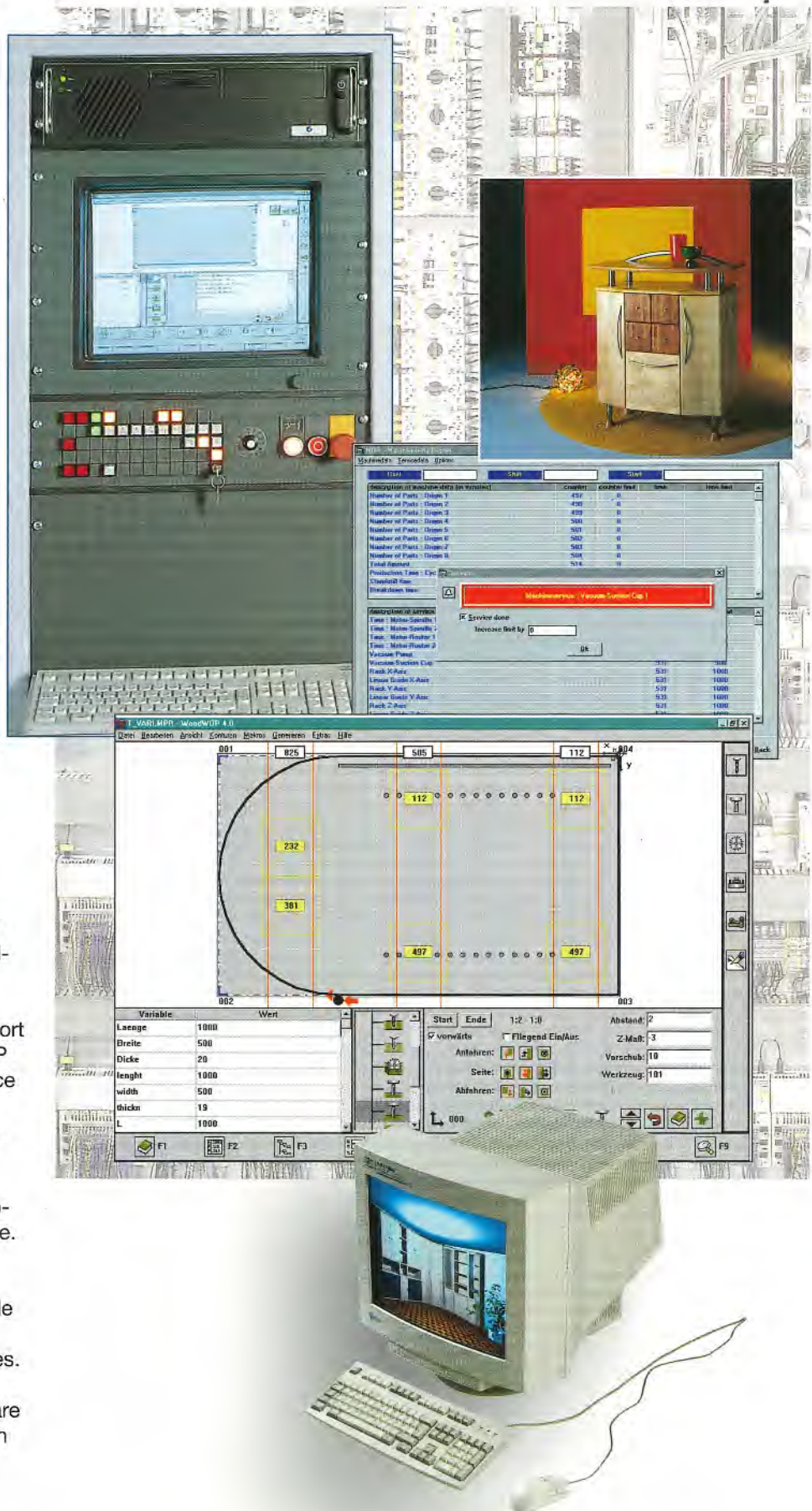
is optimized for the requirements of smaller shops but also for the wood- and furniture industry.

Interactive menus are an active support to create programs. With WoodWOP you are programming your workpiece and it's necessary applications but not the machine and it's operations.

CAD/CAM: For connections with CAD-Systems components for AutoCAD® and AutoCAD LT® are available.

The integration of the OPTIMAT in Computer network systems, barcode systems and remote diagnostic systems is one of a lot of possibilities.

Software interfaces to several software companies of CAD/CAM and branch programs are available.

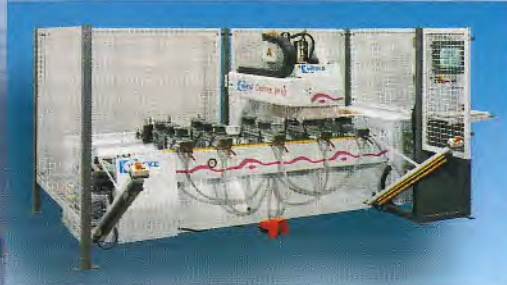


The All-round Machine for the Future



OPTIMAT-BAUREIHE

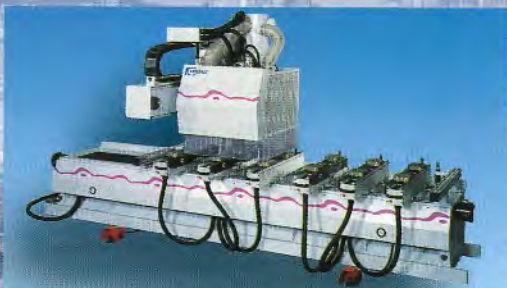
BP60



BP80
BP85



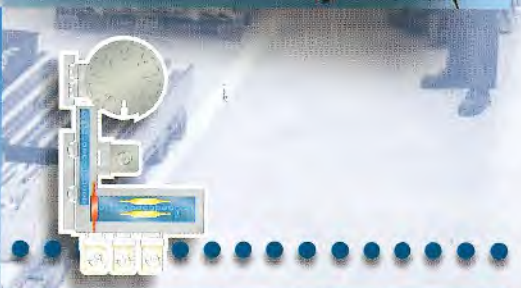
BP100
BP120
BP140



BP145



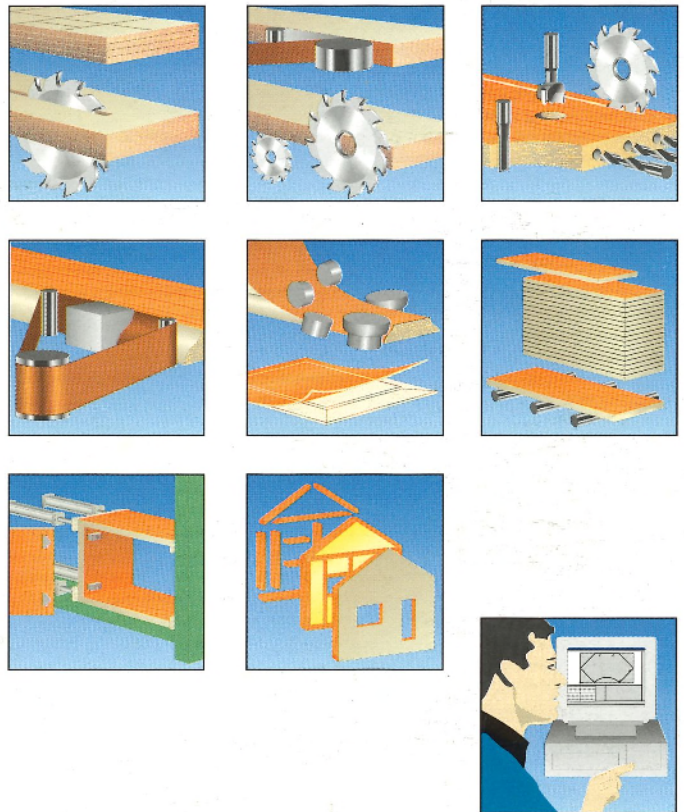
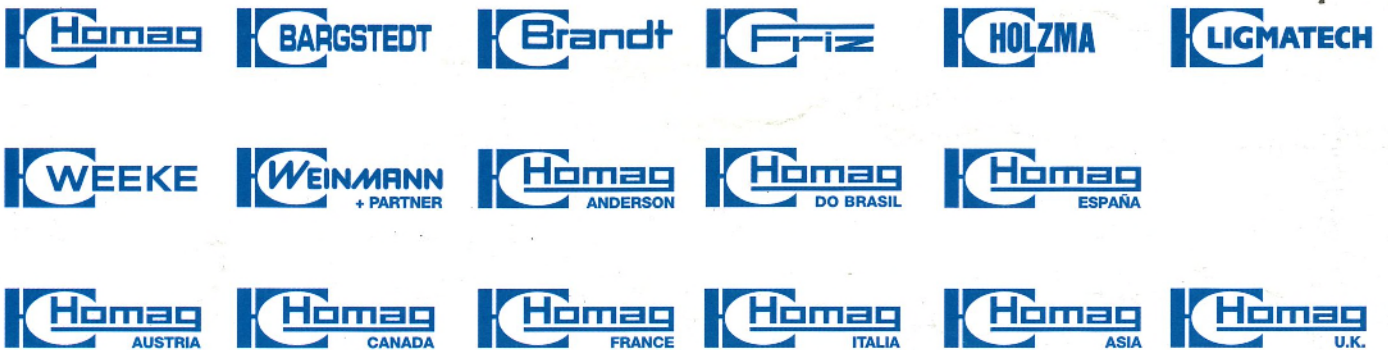
BP150



BP155



The HOMAG Group



All rights for technical alterations and future developments to our machinery are reserved.
Machine photographs also display options which do not belong to our standard equipment.
In all means our quotation text resp. our order confirmation is decisive.

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<http://www.weeke.de>