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PRACTIVE – Intelligent woodworking solutions

PRACTIVE – Intelligent woodworking solutions

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www.homag-esolution.com

BRANDT
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www.brandt.de

HOMAG
Holzbearbeitungssysteme
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WEEKE
Bohrsysteme
www.weeke.com

BÜTFERING
Schleiftechnik
www.buetfering.de

LIGMATECH
Automationssysteme
www.ligmatech.com



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PRACTIVE

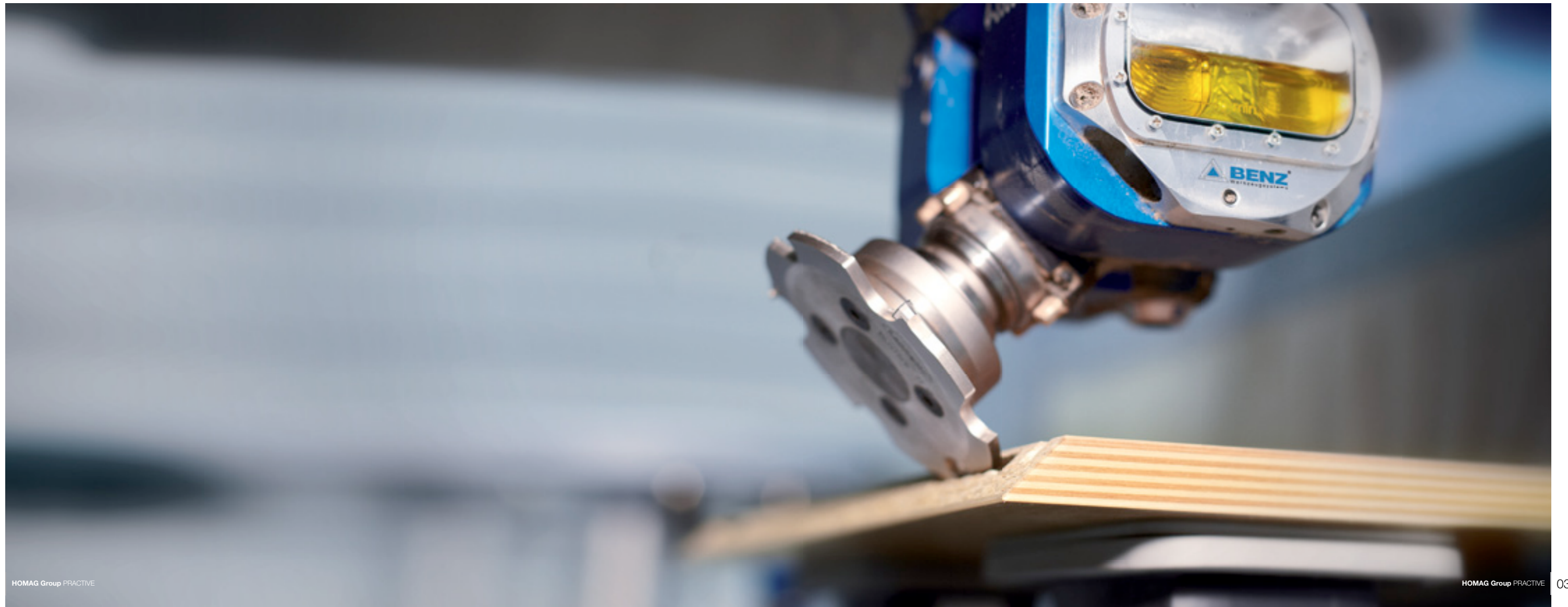
Intelligent woodworking solutions

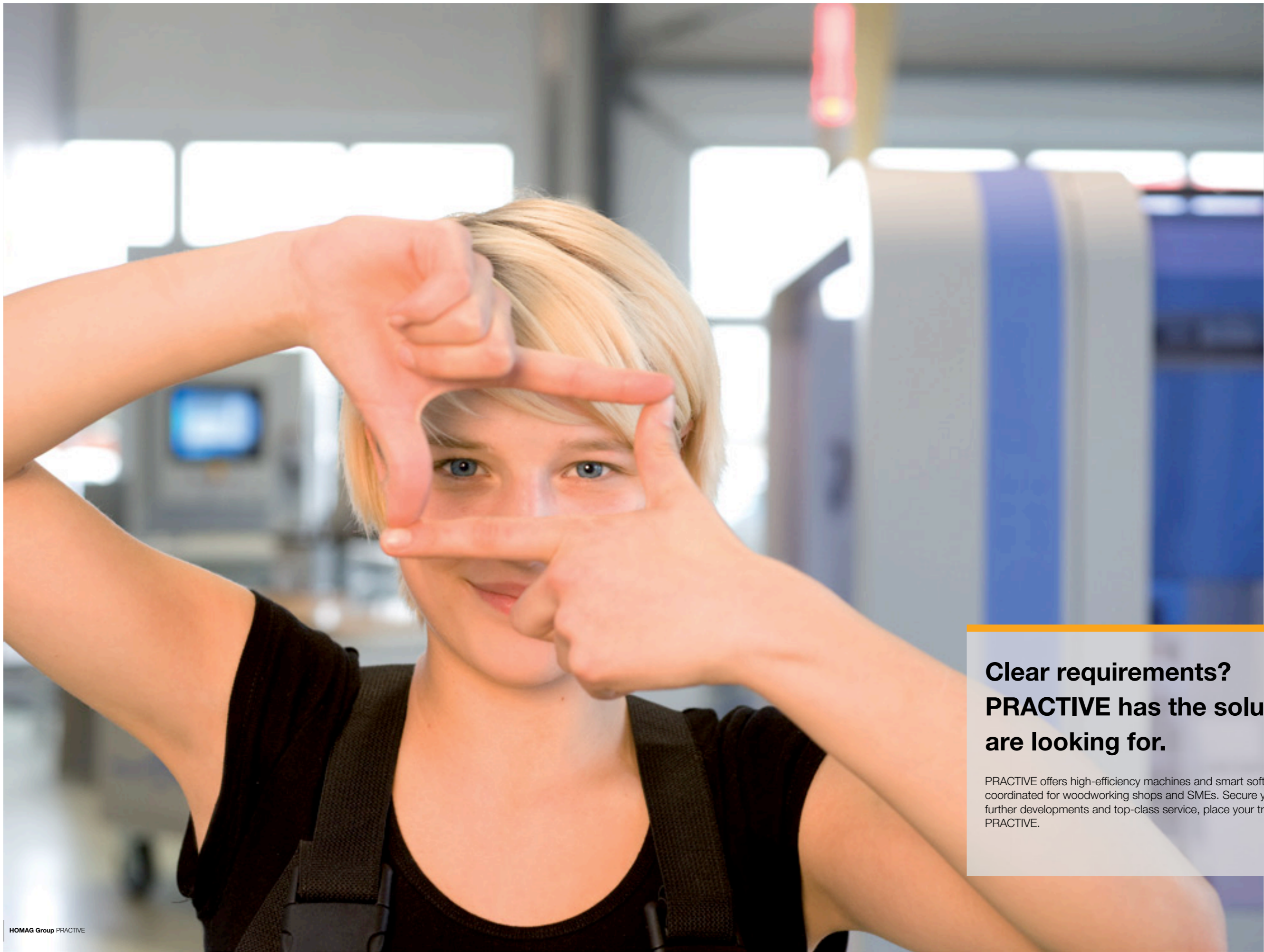
PRACTIVE

Intelligent woodworking solutions

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**Clear requirements?
PRACTIVE has the solutions you
are looking for.**

PRACTIVE offers high-efficiency machines and smart software solutions – perfectly coordinated for woodworking shops and SMEs. Secure your success with ongoing further developments and top-class service, place your trust in a powerful partner. PRACTIVE.

The HOMAG Group – success through partnership

Individual customer needs and preferences, sophisticated products and a wide range of materials – all factors which play a major role in today’s woodworking industry. Here, production flexibility and efficiency are key – particularly for woodworking shops and medium-sized enterprises. The HOMAG Group is present around the globe with sales partners operating locally in over 80 countries, offering you the assurance of a powerful partner at your side.



At our customers’ service around the world

- 5 000 employees
- 21 fully owned sales and service companies
- 80 sales partners on every continent
- 15 producing locations in Europe, Asia and America

www.homag-group.com

Concentrated competence is your assurance of business success

In today’s marketplace, the assurance of a powerful partner is more important than ever. Particularly for small and medium-sized woodworking firms. The companies of the HOMAG Group are there to offer you unbeatable benefits – with PRACTIVE. For a sharp competitive edge and security for your business. Benefit from the innovative drive of a globally successful team.

Flexibility in demand

PRACTIVE offers individual solutions from a single source – reliable machinery for woodworking at reasonable price, concentrated competence and global expertise. PRACTIVE helps you utilize this rich fund of experience and accumulated knowledge in every aspect of woodworking technology.

ecoPlus – technology that pays dividends

Energy, time, material, and manpower are all valuable resources. Treating them with care will boost productivity and save costs. The **ecoPlus** system, a new technology package from the HOMAG Group, has now been developed to make this task easier. **ecoPlus** encompasses wide-ranging different innovations designed to save energy and drive down operating costs. And what’s more, because **ecoPlus** helps cut carbon emissions it is also kind to the planet.



Your benefits at a glance:

- Everything from a single source: Handling, sawing, edge banding, assembly, automation and software
- Innovation market leader
- Top quality machines designed for flexible use and operating simplicity
- Flexible high-tech solutions
- Worldwide availability of spare parts

Saving resources – enhancing productivity

Using **ecoPlus**, it has been possible to cut power consumption by up to 30 %, through measures such as intelligent standby circuits and modern extraction concepts.



Be on the safe side with PRACTIVE



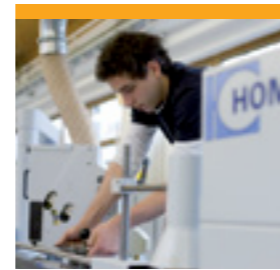
BARGSTEDT
Handling systems



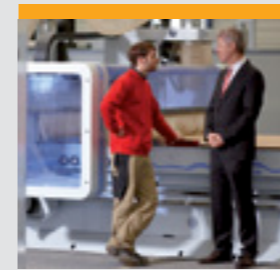
HOLZMA
Panel sizing technology



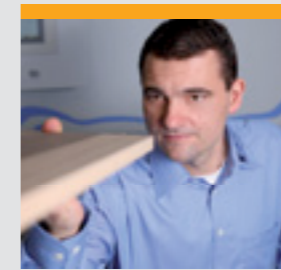
BRANDT
Edging technology



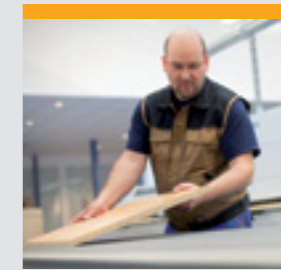
HOMAG
Woodworking systems



WEEKE
Drilling systems



BÜTTERING
Sanding technology



LIGMATECH
Automation systems



HOMAG eSOLUTION
Software

Outstanding individually – unbeatable as a team: The PRACTIVE label stands for the concentrated expertise and experience of the world leading HOMAG Group companies.

Take your capacity utilization to the limits

The HOMAG Group companies cover every requirement of the woodworking shop and SME sector. Handling systems, panel sizing technology, woodworking systems, drilling systems, sanding technology, automation systems and software afford a seamless innovative product and performance spectrum.

Your benefits include increased precision, efficiency and the technology it takes to ensure absolute flexibility – all of which will help you to utilize your production capacity to the utmost.

PRACTIVE – Intelligent woodworking solutions

Whether for structural fitters or carpenters, cabinet makers or joiners, interior fitters, staircase, window, door manufacturers or large-scale project fitters – PRACTIVE offers individual one-stop solutions for machine and software link-up from a single source.

This is something you may rely on as you go about your work. Day in, day out. Hour by hour.



"The modern joinery workshop"

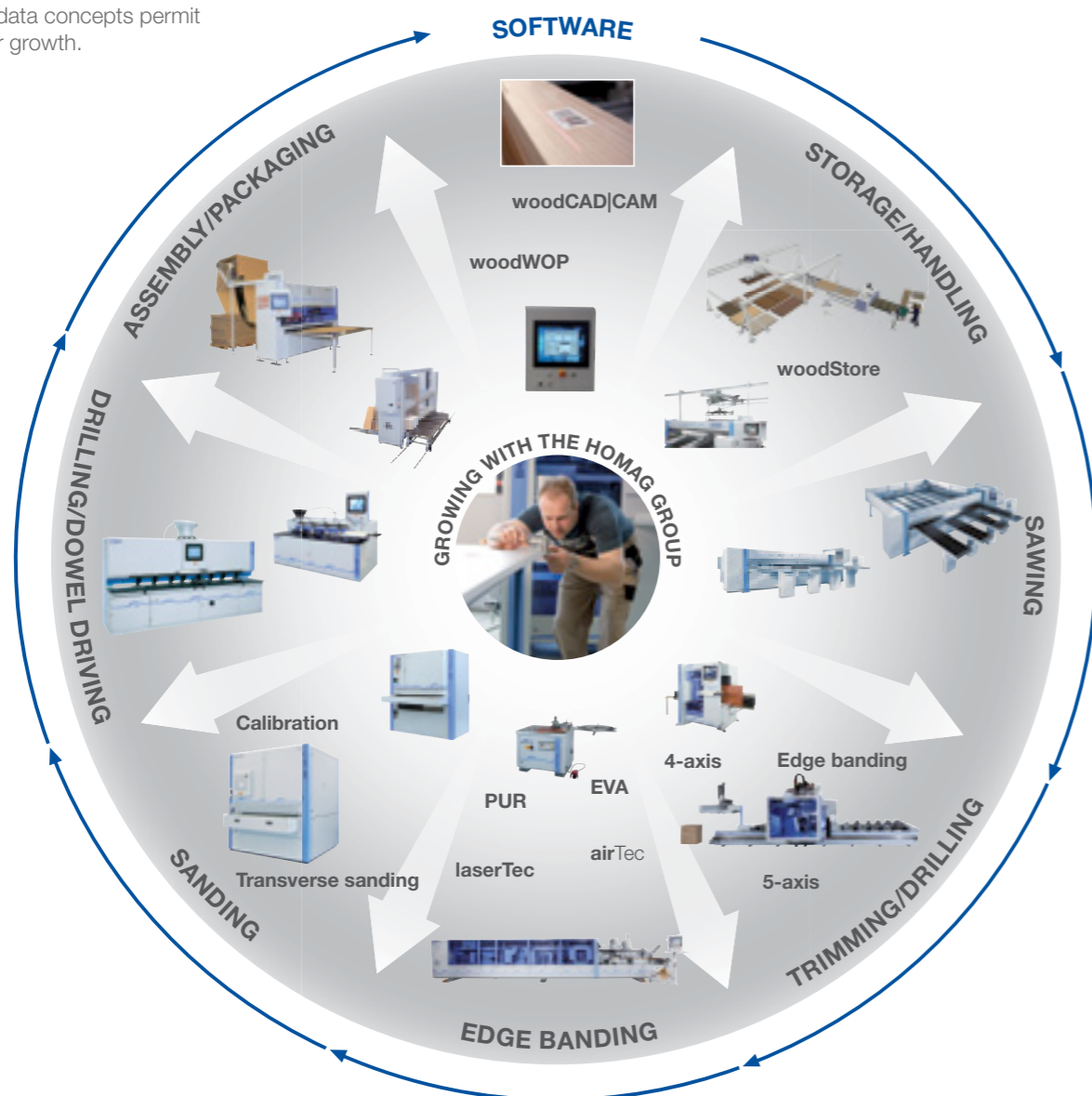


PRACTIVE: More than “just” a workshop!

How can we expect tomorrow’s workshop to look? The HOMAG Group opens up new perspectives for flexible production to woodworking shops with a wide range of solutions for different needs. This allows today’s joiner to start with an individual machine, extend his production with modular additions and respond flexibly to the demands of tomorrow.

Growing with the HOMAG Group

PRACTIVE offers complete solutions for every size of workshop. And coordinated operating and data concepts permit simple modular growth.



Countless technologies – one user interface!



With powerTouch, the HOMAG Group has launched a whole new control generation. Simple, standardized, ergonomic and evolutionary: The new system unites design with functionality in a totally new user interface. Central to the new system is a large multitouch monitor in wide picture format. The machine's functions are controlled by direct contact – touch the innovation! The ultra-modern user interface 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 familiar look and feel using powerTouch. This not only simplifies the operation of different machines, but also makes for greater efficiency by significantly reducing time for servicing and training. Experience a whole new dimension in machine operation.

Touch the power!





Optimum support and good advice with lifeline | service



The sale of our machines comes with all-in optimum service backup and individual advice. We place our extensive expertise at your service, at the procurement stage and during running operation. The HOMAG Group lifeline | service ensures optimum availability and economical production – over the entire life cycle of your machine.

HOMAG Finance

We offer tailor-made financing arrangements for our plants and machines. Our advisory service goes hand in hand with our technical expertise over a wide range of issues. You only need to deal with a single contact, who will take care of the entire processing sequence.

The benefit for you: The ability to invest without delay in new technologies and remain financially flexible.

Service advice

We can help you achieve maximum machine availability and cost optimized production with individual consultation on the service products on offer from the HOMAG Group. After carrying out an extensive analysis, we will deliver a presentation highlighting possible potential. Then we sit down together with you to discuss which measures should be implemented.

Remote servicing

There is no more effective way to keep you up and running. We can reduce your servicing costs and cut machine downtimes through our hotline and remote troubleshooting service. **TeleServiceNet** allows over 85 % of all disruptions to be solved without the need to send out a service technician.

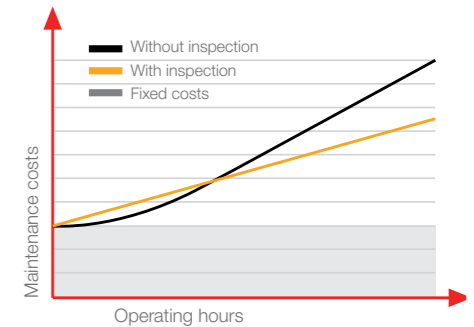
E-Service and **TeleServiceNet** additionally offer: A machine-specific spare parts catalog, quick support, up-to-date virus protection, software component downloads.

Original spares/eParts

We can offer short response times with the benefit of eParts. This service permits you to identify any necessary spare parts required for your machine, check their delivery availability and inquire or place orders immediately online. Original spare parts guarantee reliable functionality and ensure maximum possible machine availability.

Training

Practical, machine-specific training to bring your machine operators and maintenance personnel abreast of the latest developments. We offer dedicated start-up assistance packages for new producers entering the market.



Inspection/maintenance

Regular preventive inspection and maintenance offer the ideal conditions to help you avoid unplanned machine standstills. By providing competent support, we can assure you of the very highest product quality and machine availability.



Financing/leasing



Inspection/maintenance



Training



Remote servicing



Spare parts supply



Customer-specific programming



I buy from a machine partner I can rely on. The PRACTIVE product series offers optimum quality and the assurance of cooperation without a hitch.

Master cabinetmaker Heinz-Bernd Lohmann, Everswinkel



Fully automatic material management down to the offcuts



Reliable material handling even with widely diverse types

BARGSTEDT is synonymous the world over with smart material flow solutions for automatic feeding, conveying, stacking and storage, warehousing, sorting and order picking.

BARGSTEDT
Handlingsysteme GmbH

9 000 m² production area

215 employees

Clear strategies and innovative technology

BARGSTEDT has been a supplier of innovative material flow systems to customers and partners the world over for 40 years. As a handling systems manufacturer with its own software development, we offer the latest solutions, always tailored to the requirements of the customer. We are sought after as a partner to woodworking shops and the woodworking industry across the whole of our product segments.

The key to success

BARGSTEDT customers stay a step ahead of the field. The secret of their success? Actually not a secret at all: The highest level of economical production without compromising on quality. We are proud to supply the means to make this happen.

We plan, design, produce and supply plants which guarantee optimum volume output coupled with top quality and minimal staffing requirement. BARGSTEDT solutions secure highly automated production and consequently a continuous material flow – the key to success.

Product portfolio

- Feeding and stacking systems
- Storage systems
- Sorting and buffer storage systems
- Conveying transport systems
- Functional transport systems



BARGSTEDT – intelligence for moving timber

TLF 210Y – the single-axis storage system



The single-axis storage system TLF 210Y fulfills almost every conceivable need. It makes for optimized transport routes and tangible savings of both time and materials.

- Ideal for use in narrow spaces
- Connection to different processing machines for fully automatic operation
- The favored solution for simple machine feeding with one or more stacking locations
- Ideal as a storage system for work panels and strip storage with several stacking locations

	Area storage system O TLF 210Y	With optional extras
Frame length	5 000 mm	50 000 mm
Traversing carriage speed	80 m/min	130 m/min
Lifting stroke speed	30 m/min	45 m/min
Workpiece length	2 000–4 200 mm	1 200–4 200 mm
Workpiece width	800–2 200 mm	min. 800 mm
Workpiece thickness, unfinished panels	from 12 mm	from 3 mm
Workpiece weight	250 kg	250 kg

TLF 210 – the little champion



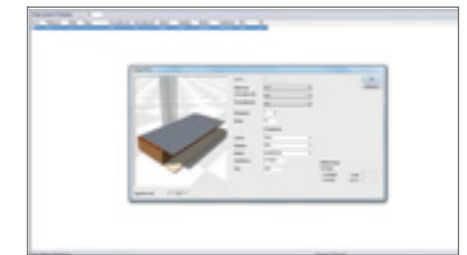
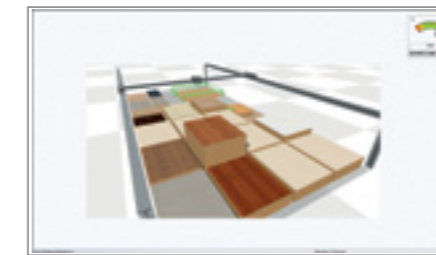
Troublefree transportation, no matter what the panel. By combining with a saw, the Optimat TLF 210 becomes a high-powered cutting center, increasing production capacity from the moment it is first switched on.

- This combination is a viable option with a cutting requirement of as few as 30 panels a day
- High flexibility though intelligent utilization of available space with a compact footprint
- High material yield due to optimum material utilization of everything from new panels to offcuts

	Area storage system O TLF 210	With optional extras
Clamping width	5 000 mm	12 000 mm
Frame length	10 000 mm	50 000 mm
Bridge speed	60 m/min	110 m/min
Traversing carriage speed	80 m/min	130 m/min
Lifting stroke speed	30 m/min	45 m/min
Workpiece length	2 000–4 200 mm	1 200–4 200 mm
Workpiece width	800–2 200 mm	min. 800 mm
Workpiece thickness, unfinished panels	from 12 mm	from 3 mm
Workpiece weight	250 kg	250 kg

woodStore – intuitive, flexible, fast

The storage control system woodStore sets whole new standards right from the BasicLine. The control system monitors and manages the entire inventory and optimizes the material flow in production. It logs the entire material inventory and calculates the available space. The modules integrated in woodStore make for storage organization which automatically adjusts to current production circumstances.



View

The relevant decor photo is automatically displayed for each panel when selecting and entering part numbers or panel codes.

Stack

- The virtual view of all stacking locations available in the storage system allows you to “fly” virtually through the store and look at each material stack in a realistic 3D view
- Maximum transparency and control of the entire inventory

Infeed

- Now with an even clearer overview: each stack is depicted in 3D complete with dummy panel, cover panel and solid edge
- Operating errors are a thing of the past: Stack data input is child’s play with the new 3D view



OffCut-Assist

- Optimum material yield from new panels to offcuts
- Management and realistic view of manually stored offcuts
- Simple generation, display and printout of retrieval lists
- Traffic light indicators for part identification (red: part already planned for; green: part available)

Input

The smart data template permits the simple definition of new panels. Panel dimensions and material code are entered only once. All other parameters are automatically determined by the software. The best part: Even weight tolerances in the supplied panels are automatically determined and the ideal settings for panel handling calculated automatically by the storage system.

FlexSort – smart advance storage

- Advance storage everywhere in the storage system (advance storage locations, storage locations, unrequired storage locations)
- Variable number of panels for the block to be retrieved
- Automatic generation of advance storage orders from running production or from the saw program sequence
- No more wasted storage space used for advance storage locations



Pioneering: Labeling



Domino system: Individual configuration of your cutting area

Founded in 1966, HOLZMA Plattenaufteiltechnik GmbH has been setting cutting-edge standards in the industry for over forty years. The traditional Southern German company has since grown to become the world's biggest manufacturer of panel sizing saws and systems.

HOLZMA
Plattenaufteiltechnik GmbH
30 000 m² production area

Flexibility and economy

Whether stand-alone saws, angular systems or large-scale plants, basic equipment or special optional extras – panel sizing saws from HOLZMA help you to process your work load with greater flexibility, speed and economy. How? Our advisors take a close look at the specific requirements on site and work with you to create an individual performance package.

Panel sizing saws from HOLZMA offer both woodworking shop and industrial customers a custom-tailored finish cut for every type of wood-based or plastic panel material.

Wide performance range

The product portfolio includes stand-alone saws and angular systems with manual and automatic feed as well as large industrial units with automatic feeding and stacking systems. The control and software areas include machine controls on various platforms, system simulations and cut optimization programs (Cut Rite, cf. p. 63) as part of the core competency of the company.

Your partner for perfect service

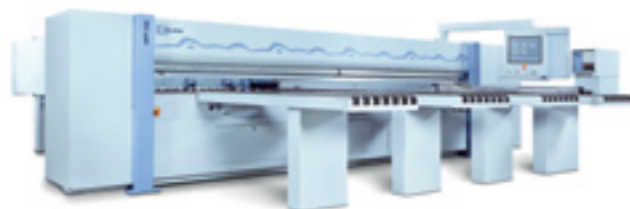
Proximity and accessibility are fundamental to perfect servicing. HOLZMA offers you both – throughout the world. Because as a member of the HOMAG Group, the company is part of the industry's strongest international sales and support network. The in-house specialists from the Service Center in Holzbronn are in action for you all around the globe. That's the kind of service that gives you an edge over your competitors.

HOLZMA – fast, precise panel sizing





HPP 230 – the smallest horizontal saw

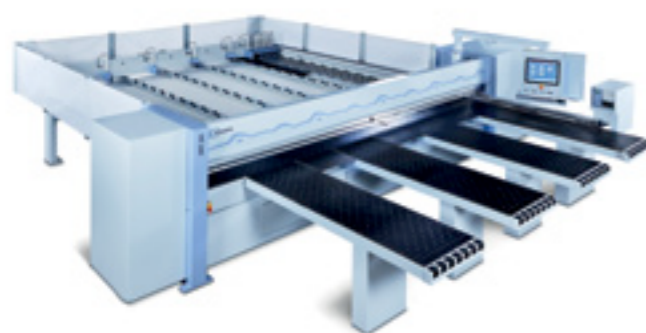


HPP 230 – concentrated power, reliability and functionality in a minimum of space. Ensures the fast, efficient completion of your customer orders. A machine with plenty of substance and an affordable price tag.

- New design
- Compact in its size and price tag, pedigree HOLZMA in its technology and quality
- Added speed puts you ahead of the game: Shorter sawing times help free up personnel capacity
- Targeted, efficient production thanks to comprehensive basic / optional equipment
- CADmatic 4 PRACTIVE with 3D moving graphics

	HPP 230
Saw blade overhang	55 mm
Cutting length(s)	3 100/3 800/4 300 mm
Saw carriage feed	up to 60 m/min.
Program fence speed	up to 40 m/min.
Operating software	CADmatic 4 PRACTIVE
Main saw motor	5.5 kW (7.5 HP)
Prescoring saw motor	1.1 kW (1.5 HP)

HPP 250 – the compact class with new diversity



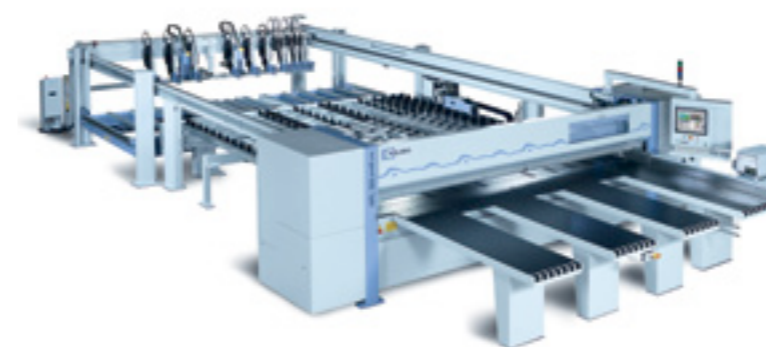
For years, the HPP 250 has been champion of the small horizontal panel sizing saw class: compact, durable, versatile and popular the world over. With CADmatic 4 PRACTIVE featuring 3D moving graphics.

New features:

- Design
- Additional optional extras
- **profil**Line variant for more complex storage system connections
- Higher speed

	HPP 250
Saw blade overhang	NEW! 80 mm
Cutting length(s)	2 500/3 100/3 800/4 300 mm
Saw carriage feed	up to 120 m/min.
Program fence speed	up to 80 m/min.
Operating software	CADmatic 4 PRACTIVE
Main sawing motor	7.5 kW
Prescoring saw motor	1.1 kW (1.5 HP)

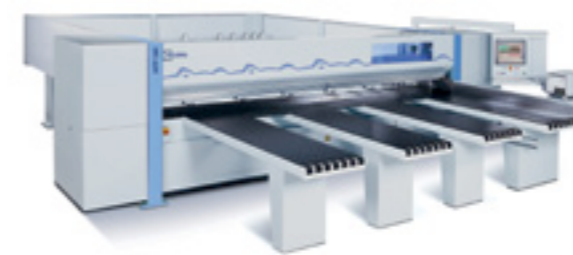
Series 3 – for even more precise tailoring to your operation



- Now with even more extensive equipment features, e.g. new stacking software and attractive package solutions
- Configured for troublefree material flow
- Domino System: Highly efficient cutting area individually configured to your operational needs
- **eco**Plus technologies
- Cleaning flap at the front
- Dual-finger clamp
- Touchscreen monitor
- Automatic cutting height
- Manually adjustable pressure beam and clamp pressure
- Window at viewing height
- Air tables and machine tables with air jets throughout
- Available as a single saw (HPP), single saw with lift table (HPL) or angular plant (HKL)

	HPP 300 and HPL* 300
Saw blade overhang	95 mm
Cutting length(s)	3 200/3 800/4 300/5 600 mm
Saw carriage feed	up to 130 m/min (optionally 150 m/min)
Program fence speed	up to 90 m/min.
Main sawing motor	11 kW (optionally 13.5 kW or 18 kW)
Prescoring saw motor	1.1 kW (optionally 2.2 kW)

Handling



Sawing-storage combination from a single source

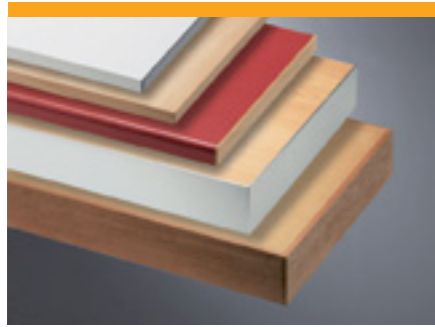
HOLZMA and BARGSTEDT have developed a new saw and storage system combination for woodworking shop customers which permits even small-scale operations to benefit from automatic feeding.

- Greater flexibility due to optimum utilization of existing storage space
- Improved productivity, as short transport distance and increased material throughput ensure up to 40 % higher saw capacity utilization
- High material yield due to optimum material utilization from new panels to waste pieces
- More dynamic order processing due to free selection of advance storage locations
- Significant rationalization effects due to optimized, fully automatic production sequences

Easy2Feed – affordable feeding technology

Automatic lift table feed with an affordable price tag. This optional extra helps save time and space, benefits from an ergonomic design concept and permits retrofitting with selected models – without any additional space requirement.

* L stands for lift table feed
Photos may show non-standard features



The right solution every time for every customer need



Optimum results are guaranteed with a solid base frame and durable feed chain

BRANDT Kantentechnik offers innovative, high-performance edge banding machines designed for woodworking shops and small to medium producers. Top priority is given to economy and quality, ensuring long-term competitive benefits for BRANDT customers.

BRANDT
Kantentechnik GmbH

12 500 m² production area

260 employees

Our expertise working to secure your success

With an annual production output of over 1,500 edge banding machines, BRANDT is the edging specialist of the HOMAG Group, as well as being the world market leader in its market segment. A high degree of standardization working hand in hand with pioneering production techniques and over 60 years of experience in the mechanical engineering business provide the guarantee of an optimum cost-to-performance ratio coupled with top quality.

The clearly structured product range is targeted specifically to current and future customer needs and provides an impressive array of innovations and major competitive benefits. The focus of all developments to emerge from BRANDT is on practically oriented and economical solutions which guarantee customers the best possible production results.

Founded in 1932 as a structural metalworking company, and active in the field of mechanical engineering since 1955, BRANDT has developed to become an internationally active enterprise with customers in over 90 countries.

From the simple entry-level machine through to the fully automated edge bander, BRANDT has solutions to offer for every conceivable customer requirement or processing assignment.

Selective and consistent technological further developments have culminated in the assurance of operating simplicity and convenience. At BRANDT, the central focus is on the human element and the final product.

Product portfolio

- Edge banding, flush trimming and corner rounding machines for shaped components
- Throughfeed edge banding machines with comprehensive processing technology and automation

BRANDT – Perfect edges for quality-oriented customers





Table-top machines – flexible solutions for shaped components



- The flexible machine concept for gluing and processing of shaped components
- Direct glue application and individually positionable distance cams ensure a wide application spectrum
- Large workpieces can be simply glued by guiding the gluing unit along the workpiece contour
- Flush trimming machine, equipped with precision ball bearings to trace the workpiece for consistent trimming results
- Optional end snipping device for complete processing of straight and shaped components

	Optimat KTD 820	Optimat KTD 720	Optimat FTK 130
Machine length	1 430 mm	2 078 mm	1 130 mm
Weight	580 kg	280 kg	250 kg
Feed rate	var. 0.7–4.2 m/min	var. 4–9 m/min	Manual
Edge thickness	0.4–3 mm	0.5–3 mm	0.4–3 mm
Workpiece thickness	16–42 mm	10–55 mm	16–55 mm

Ambition 1100* – The basis for success



- Available also with a jointing trimming unit for perfect cuts and optimum glue joint quality
- Direct glue application on the workpiece using a glue roller for even glue application
- Dual-motor snipping unit for optimum snipping results
- Profile trimming unit for corner rounding
- Two freely equippable slots in the finish processing section for outstanding flexibility

	Ambition 1110–1120 FC
Machine length	3 672–4 288 mm
Weight	700–950 kg
Feed rate	8 m/min
Edge thickness	0.4–3 mm
Workpiece thickness	8–40 mm

Ambition 1200 series* – entry into a whole new dimension



- Available also with a jointing trimming unit for perfect cuts and optimum glue joint quality
- Optimum operating convenience and safety with a programmable control system
- Profile trimming unit for corner rounding
- Buffing or scraper blade unit for the perfect finish
- Trimming unit for a clean trimming result with optimum extraction by DFC tooling technology and optional automation

	Ambition 1200–1230 FC
Machine length	3 453–4 773 mm
Weight	850–1 500 kg
Feed rate	11 m/min
Edge thickness	0.4–3 mm (optionally 6 mm)
Workpiece thickness	8–50 mm (optionally 60 mm)

Ambition 1400 series* – the powerful compact class



- High-strength gluing through optimum workpiece pre-heating
- Multifunction trimming unit for corner rounding and flush trimming (optional)
- Nesting capability for special requirements when bridging cup hinge holes or acute angled workpieces
- Extremely fast set-up times due to pneumatic adjustment
- Order data acquisition for precise calculation of order-related costs

	Ambition 1420–1440 FGC
Machine length	4 273–5 273 mm
Weight	1 250–1 850 kg
Feed rate	11 m/min (optionally 14 m/min)
Edge thickness	0.4–8 mm
Workpiece thickness	8–60 mm

* The series description includes options



Ambition 1600 series* – Output and quality setting new standards



- Optimum operating convenience and safety with a programmable control system
- New gluing system QA 45 for faster color and glue change (EVA/PUR), simple cleaning and precise metering (optional)
- Trimming unit for a tidy trimming result and with optimum extraction using DFC (Dust Flow Control) tooling technology
- Servotrim profile trimming unit guarantees gentle tracing, ideal for processing lightweight panels and high-gloss surfaces
- Soft-Touch function for an optimum snipping result also at high feed rates

	Ambition 1650 C–1680 FCU
Machine length	5 760–7 260 mm
Weight	2 540–3 600 kg
Feed rate	var. 8–18 m/min
Edge thickness	0.4–12 mm (optionally 15 mm)
Workpiece thickness	8–60 mm (optionally 80 mm)

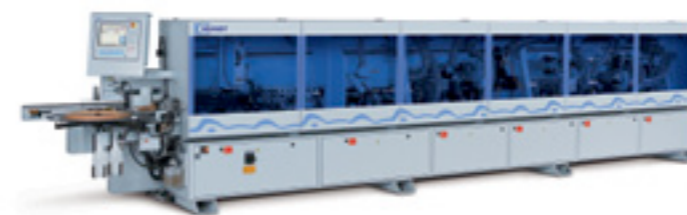
Ambition 1800 series* – no-compromise performance at any time



- New gluing system QA 45 for faster color and glue change (EVA/PUR), simple cleaning and precise metering (optional)
- High degree of availability and optimum gluing quality with the Quickmelt gluing section
- High feed rates with fully automatic lubrication of chain tracks for a long service life
- Optimization of the gap between workpieces for a higher output volume in the same processing time
- Servo trim profile trimming unit guarantees gentle tracing, ideal for processing lightweight panels and high-gloss surfaces

	Ambition 1870 FC–1890 F2CU
Machine length	6 760–7 760 mm
Weight	3 400–3 800 kg
Feed rate	var. 8–20 m/min
Edge thickness	0.4–12 mm (optionally 20 mm)
Workpiece thickness	8–60 mm (optionally 80 mm)

Highflex series* – top flexibility for optimum edges



- Servo axes for fully automatic and highly flexible setting of the machine to the panel and edging thickness as well as different profiles
- Multifunction trimming unit for corner rounding and flush trimming (optional)
- Optimization of the gap between workpieces for a higher output volume in the same processing time
- Order data acquisition for precise calculation of order-related costs
- Softtouch function for an optimum snipping result also at high feed rates

	Highflex 1220–1890
Machine length	4 153–7 760 mm
Weight	1 290–3 800 kg
Feed rate	8–20 m/min**
Edge thickness	0.4–20 mm**
Workpiece thickness	8–60 mm (optionally 80 mm)

profiLine series* – precision and performance to address stringent demands



- The **profiLine** modular range offers the optimum output to meet all your needs
- Optimum operating convenience and safety with a programmable control system
- High hogging output during solid edge processing
- Highly flexible unit concept available, equipped with multiple-stage technology for fast resetting to different profiles
- Soft-Touch function for an optimum snipping result also at high feed rates

	profiLine 1630–1895
Machine length	4 770–10 260 mm
Weight	1 900–5 500 kg
Feed rate	8–20 m/min**
Edge thickness	0.4–20 mm**
Workpiece thickness	8–60 mm (optionally 80/100 mm)

* The series description includes options

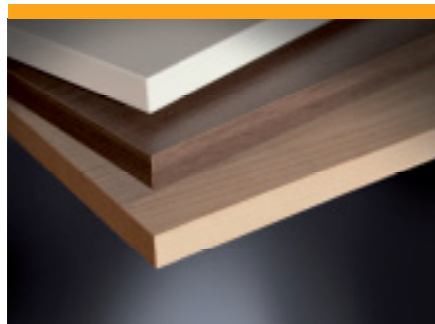
** Series dependent

All edge banding machines can be connected to a return conveyor



**Once a HOMAG – always a HOMAG.
As we supply to other joineries
too, speed is of the essence and
the quality just has to be right.
Our entire machine outfit is made
up of machines from the HOMAG
PRACTIVE range. Everything comes
together perfectly – advice, quality
and service.**

Master joiner Ludwig Lindinger, Munich – Germering



Perfect edge quality whatever the material



Highly efficient production coupled with state-of-the art engineering

HOMAG – edge banders and processing centers for simple flexibility

Whether throughfeed machines for edge banding or CNC processing centers, production lines or complete plants, HOMAG Holzbearbeitungssysteme GmbH, the heart of the HOMAG Group, offers integral solutions for every aspect of woodworking. Innovations from HOMAG have been shaping the face of the market for decades – all working for the benefit of the customer.

HOMAG
Holzbearbeitungssysteme GmbH
80 000 m² production area
1 500 employees

The whole world of woodworking

Whether for furniture or structural element production, the supply industry, woodworking shops or industrial producers – the HOMAG product range addresses wide-ranging application requirements. The performance range encompasses sizing and edge banding machines, softforming and postforming, CNC processing centers, production cells and complete production lines in all conceivable variations.

Flexible, simple and speedy complete processing, even for the smallest production runs. Here, customers can rely on innovative edge banding machines from HOMAG. For individual interior fittings, we have an efficient solution for every kind of edging and panel material. The ideal answer for small and medium-sized woodworking shops.

Throughfeed technology portfolio

- Fully automatic edge banding machines
- Edge banding machines for panels with straight or profiled edges
- Edging lightweight panels
- Double-end tenoners
- Postforming machines

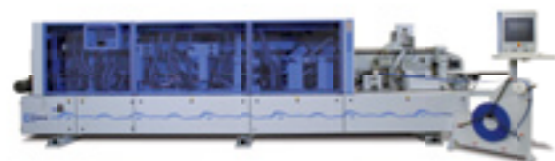
Flexible solutions for your product

We are the only manufacturer worldwide to offer complete production cells and plants backed by the experience of several thousand processing centers in multiple shift operation including project processing and software. Alongside classical drilling, trimming and sawing applications, ultra high-precision solutions are also offered including edge banding.

CNC technology product portfolio

- CNC processing centers with 3–5 axes for drilling and trimming solid wood, wood-based materials, plastics, aluminum and similar.
- Processing centers with edge banding for all customarily used edging types and panel materials including lightweight panels
- Highly efficient production cells with automatic feed, workpiece changeover and stacking
- Hardware mounting technology for lightweight panels

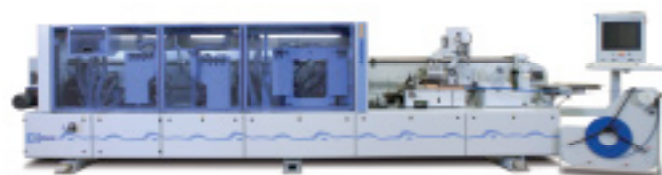


Ambition 2240 series – Entry into the HOMAG class


The number one edge banding choice for edges off the coil up to 3 mm.

- Programming in Windows standard for simple, familiar operation
- Best possible trimming quality and optimum chip collection using I-tools
- Top pressure beam in steel with composite V-belt for precise workpiece clamping
- Operation using a 19" touchscreen for optimum clarity

	Ambition 2240	Ambition 2250	Ambition 2260	Ambition 2262
Machine length	6 130 mm	6 880 mm	7 750 mm	7 755 mm
Weight	3 500 kg	4 000 kg	4 500 kg	4 500 kg
Number of automatically resettable profiles	Chamfer + 1 radius	Chamfer + 1 radius	Chamfer + 1 radius	Chamfer + 1 radius
Feed rate	18–25 (max. 32) m/min	18–25 (max. 32) m/min	18–25 m/min	18–25 m/min
Edge thickness	0.4–3 mm	0.4–3 mm	0.4–3 mm	0.4–6 mm
Workpiece thickness	8–60 mm	8–60 mm	8–60 mm	8–60 mm

Ambition 2264 series – the master class


The master class machine for banding edges up to 3mm off the coil and solid moldings up to 20mm.

- 2264**
Simple change of the hot-melt gluing unit using quick-release clamping system for fast color change
- 2270**
With four-motor profile trimming for splinter-free trimming of veneers.
- 2272**
Profile trimming unit with automatic 8-slot tool changer for different profiles.
- 2274**
With two-motor profile trimming and free space for universal trimming unit.

	Ambition 2264	Ambition 2270	Ambition 2272	Ambition 2274
Machine length	7 755 mm	7 755 mm	8 545 mm	8 545 mm
Weight	4 500 kg	5 000 kg	5 000 kg	5 000 kg
Number of automatically resettable profiles	Chamfer + 1 radius	Chamfer + 1 radius	Chamfer + 5 radius	Chamfer + 1 radius
Feed rate	18–25 m/min	18–25 m/min	18–25 m/min	18–25 m/min
Edge thickness	0.4–20 mm	0.4–20 mm	0.4–20 mm	0.4–20 mm
Workpiece thickness	8–60 mm	8–60 mm	8–60 mm	8–60 mm

HOMAG KAL 300 series – for industrial application


The all-rounder machine for banding edges up to 3 mm off the coil and solid moldings up to 25 mm.

- Universal profile trimming units with two or four motors for splinter-free copying also of veneer edges
- Automatic resetting to different profiles
- Selection of any units from the extensive modular range of industrially tried and tested units

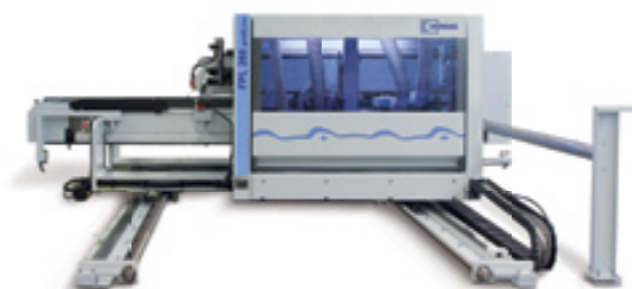
KAL 310

The range for individual equipment options.

KAL 330

Additionally offers scope for complete processing of aluminum edges or at the entry level for fully automatic flexible production and high cyclical output. Using the innovative **laserTec** method, produce parts in a previously unattainable standard of quality. Now also with the new profile trimming unit FK 31 power**Trim** for industrial-standard performance and quality.

	KAL 310 and KAL 330
Machine length	5 760–13 725 mm
Weight	3 500–7 500 kg
Number of automatically resettable profiles	Chamfer + max. 8 radii
Feed rate	18–32 m/min
Edge thickness	0.4–25 mm
Workpiece thickness	8-60 mm (optionally 100 mm)

HOMAG – profiling

Double-end tenoner FPL 260

The smallest in its class for every type of sizing and profiling work with different materials from MDF to solid wood.

- Easy operation using a clearly arranged control panel
- Simple resetting with minimal adjustments
- High-powered hogging motors with 8.1 kW at 100 Hz

	FPL 260
Machine length	4 650–5 650 mm
Weight	1 900–3 160 kg
Feed rate	8–32 m/min
Workpiece thickness	8–110 mm
Max. workpiece/laminate overhang	30–110 mm

All edge banding machines can be connected to a return conveyor

Venture 312 – windows and doors



FLEX5+

Complete solution for window and door production

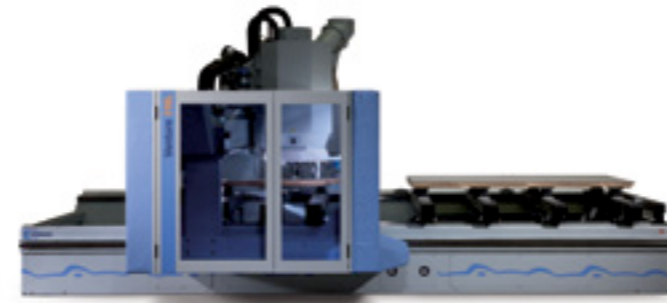
- Stable machine frame and heavy-duty moving gantry
- Coupled-motion enclosure for optimum visual and physical accessibility
- Powerful 4-axis trimming spindle 15 kW with fluid cooling for higher feed rates coupled with high hogging volumes
- Drilling head with 13 spindles (9 vertical, 4 horizontal) for drilling e.g. knobs
- 18-slot tool changer for tools and units with large diameters

Options:

- wood**Windows** complete package with design software and processing macros
- FLEX5+ with automatic tool change – automatic swiveling sawing – drilling unit for processing operations at any optional angle (e.g. for shift cuts)
- Lateral linear changer with eight slots

	Venture 312
Workpiece depth max.	1 550 mm
Workpiece thickness max.	250 mm
Workpiece length max. (L)	3 475/4 375/6 175 mm
4-axis trimming spindle	15 kW
Tool changer	18-slot
Set-up aid	Cross-hair laser

Venture 316 – 5-axis technology for everyman



DRIVE5C

Compact, affordable, universal

- Stable machine frame and heavy-duty moving gantry
- Coupled-motion enclosure for optimum visual and physical accessibility
- DRIVE5C+ 5-axis trimming spindle: The all-in-one solution – greater flexibility, fewer units
- Drilling heads up to 21 spindles (17 vertical, 4 horizontal and grooving saw 0/90°) for streamlined drilling
- 18-slot tool changer for tools and units with large diameters

Options:

- Software package with the programs wood**Motion** for program simulation at the production engineering workstation, **collisionControl** for real-time monitoring at the machine and working spindle vibration data visualization
- Lateral linear changer with nine slots

	Venture 316
Workpiece depth max.	1 550 mm
Workpiece thickness max.	250 mm
Workpiece length max. (L)	3 300/4 200/6 000 mm
DRIVE5C+ 5-axis trimming spindle	10–12 kW
Tool changer	14/18-slot
Set-up aid	Cross-hair laser/pat. LED chains

Venture 313 – panel and solid wood processing



EASY EDGE

FLEX5+

All processing operations for furniture and interior fittings

- Stable machine frame and heavy-duty moving gantry
- Coupled-motion enclosure for optimum visual and physical accessibility
- Powerful 4-axis trimming spindle 15 kW with fluid cooling for higher feed rates coupled with higher hogging volumes
- Drilling heads up to 35 spindles (25 vertical, 10 horizontal and grooving saw) for efficient drilling
- 18-slot tool changer for tools and units with large diameters

Options:

- FLEX5+ with automatic tool change – automatic swiveling sawing – drilling unit for processing operations at any optional angle (e.g. for shift cuts)
- Gluing section **easyEdge**
- The patented edge banding unit for the woodworking shop – affordable and low cost
- Lateral linear changer with eight slots

	Venture 313
Workpiece depth max.	1 550 mm
Workpiece thickness max.	250 mm
Workpiece length max. (L)	3 475/4 375/6 175 mm
4-axis trimming spindle	15 kW
Tool changer	14/18-slot
Set-up aid	Cross-hair laser/pat. LED chains

Venture 320 – high performance for panel processing with powerEdge



POWER EDGE

FLEX5+

Perfect edges for shaped components

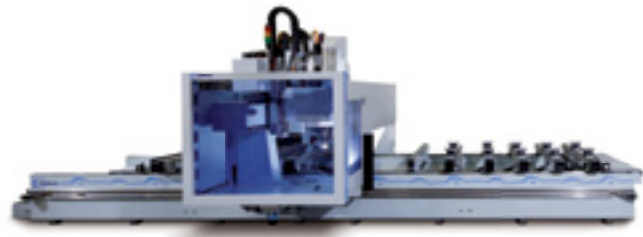
- Stable machine frame and heavy-duty moving gantry
- Coupled-motion enclosure for optimum visual and physical accessibility
- Powerful 4-axis 15 kW trimming spindle with fluid cooling and patented electronic interface
- Drilling heads up to 35 spindles (25 vertical, 10 horizontal and grooving saw) for streamlined drilling
- 18-slot tool changer for tools and units with large diameters

Options:

- **powerEdge**: The edge banding unit for high feed rates and automatic butt banding
- FLEX5+ with automatic tool change – automatic swiveling sawing – drilling unit for processing operations at any optional angle (e.g. for shift cuts)
- Lateral linear changer with eight slots

	Venture 320
Workpiece depth max.	1 550 mm
Workpiece thickness max.	250 mm
Workpiece length max. (L)	3 475/4 375/6 175 mm
4-axis trimming spindle	11/15 kW
Tool changer	14/18-fold
Set-up aid	Cross-hair laser/pat. LED chains

BMG 500/600 – the benchmark in CNC processing



High-tech for woodworking shops

- Freely equippable with high-performance 4-axis and 5-axis spindles
- Individually selectable drilling technology from 13 spindles through to the multi processing unit (MPU)
- Tool changing system with up to 98 slots
- Up to 500 mm processing height from the console
- PBA feeder: Economical automation for all BMG 300 / 500 / 600 moving gantries

The right table for every assignment

- **Console table:** Individual equipment of consoles with vacuum clamps, pneumatic clamps and special clamping devices
- **AP table:** Fully automatic positioning table with exactly positioned and high-precision clamping elements for an automated production sequence
- **Aluminum grid table:** For nesting and a range of other applications. Positive locking fixture of clamps and vacuum transmission through the table construction



	BMG 500
Workpiece depth max.	1 550/1 900/2 250 mm
Workpiece thickness max.	300/500 mm
Workpiece length max. (L)	3 475/4 175/6 175/7 575 mm
4-axis trimming spindle	11–28 kW
5-axis trimming spindle	10/12/15 kW
Tool changer	up to 98 slots

BMG 512/V – optimum edge quality with extreme ease of operation



Superlative shaped component edging machine

- Moving gantry with heavy-duty machine bed made from the new vibration-absorbing material SORB TECH (patented) for high precision and long tool service life
- Freely equippable with high-performance 4-axis spindles and 5-axis spindle DRIVE5C+
- Individually selectable drilling technology from 13 spindles through to the multi processing unit (MPU)
- Extreme ease of operation and edging changeover from the front

Options:

- **powerEdge:** The edge banding unit for high feed rates and automatic butt banding
- **laserTec** unit for shaped components with zero joint
- Units for wide-ranging applications: Door rebate, softforming, inclined edge, edge height 105 mm



	BMG 512/V
Workpiece depth max.	1 550/1 900/2 250 mm
Workpiece thickness max.	300/500 mm
Workpiece length max. (L)	3 475/4 175/6 175/7 575 mm
4-axis trimming spindle	11–28 kW
5-axis trimming spindle	10/12/15 kW
Tool changer	up to 72 slots

BMB 900 – high performance for panel processing with powerEdge edge banding



High performance for window production

- Up to 3 independent trimming spindles with up to 28 kW output with fluid cooling for high feed rates and hogging volumes
- Automatic feeding & stacking
- Facility for integration of arch production and front door leaf processing
- Large tool store with up to 306 tools can be directly accessed without manual changeover

Options:

- Link-up possible to all reputable software suppliers
- FLEX5+ with automatic tool change – drilling unit with automatic swivel action for processing operations at any optional angle (e.g. for shift touch cuts)
- Automatic feeding from the trolley
- Automatic tool cleaning using ultrasound

	BMB 900
Workpiece depth max.	1 300 mm
Workpiece thickness max.	max. 150 mm
Workpiece length max. (L)	6 000 mm
4-axis trimming spindle	up to 28 kW
Tool changer	up to 306 slots

5-axis working spindles and edge banding units

5-axis working spindles	Edge banding units
<p>DRIVE5+ 15 kW Unit interface with 3-point support and patented pneumatic interface</p>	<p>laserTec Edge banding to a previously unattainable standard of quality: HOMAG laserTec – the quantum leap in furniture production</p>
<p>DRIVE5C+ 10/12/15 kW Unit interface with 3-point support and patented pneumatic interface</p>	<p>powerEdge Economic batch size 1 workpiece edge application in perfect quality</p>
<p>DRIVE5C 10/12 kW Unit interface with 3-point support and patented pneumatic interface</p>	<p>easyEdge The world's smallest unit – affordable, simple, efficient. NEW: Now also in conjunction with the DRIVE5C+ 5-axis spindle</p>



Innovative and customer oriented – perfect solutions for industry and woodworking shops



WEEKE products provide premium quality "Made in Germany"

Our CNC processing centers and wide-belt sanding machines offer the technology of the future today. And with good reason: Tradition. For us, the "made in Germany" promise is both a motivation and a commitment. Customers the world over associate this quality seal with the very highest standards. And we meet their expectations.

WEEKE
Bohrsysteme GmbH
21 250 m² production area
700 employees

High quality – "made in Germany"

As a specialist in the field of CNC processing centers, high-performance automatic throughfeed drilling machines and innovative solutions in the field of drilling and hardware mounting technology, WEEKE has expanded its market share continuously over recent years. Continuous optimization of production processes coupled with an ultramodern machine outfit and a high vertical depth of production form the basis for the optimum cost-to-performance ratio, value and engineering excellence of products "Made in Germany". And this is well received – whether industry or woodworking shop solutions, the customers of the international successful machine manufacturer are distributed worldwide.

Around 1 400 machines now roll off the production line at Herzebrock-Clarholz every year. Find out at first hand more about the expertise and quality of WEEKE. In 2012, the BÜTFERING sanding technology label was incorporated into WEEKE. In this sector too, customers are supplied with products to the highest technological standard.

Product portfolio

- CNC technology – processing centers for drilling, trimming and grooving of solid wood, wood materials and plastics
- Sanding technology – wide-belt sanding machines with the BÜTFERING label – the right solution for every sanding assignment
- Drilling technology – high-performance dowel hole drilling machines for stand-alone operation or integration into complex machine lines
- Assembly systems – moving gantry type processing centers with longitudinal and transverse workpiece throughfeed for drilling, dowel driving and hardware mounting technology

WEEKE – quality is the result of reliability, motivation and experience





Venture 106M–109M – CNC processing centers



Standards:

- High-speed 7 500 – 18 drilling spindles (12 vertical/6 horizontal)
- Patented drill quick-change system
- Patented automatic spindle clamping
- Grooving saw, dia. 125 mm, 0–90°
- 9 kW HSK routing spindle
- 2 rows of stops as standard
- Electronic scanning of all stop cylinders
- 2 CNC-controlled Z axes
- Laser positioning system
- Tool STARTER KIT

	Venture 106M	Venture 107M	Venture 108M	Venture 109M
Working table	3 130 x 1 250 x 100 mm	3 130 x 1 250 x 100 mm	3 130 x 1 250 x 100 mm	3 130 x 1 250 x 100 mm
Trimming dimension dia. 20 mm	1 550 mm	1 550 mm	1 550 mm	1 550 mm
Vector speed	X/Y 80 m/min	X/Y 80 m/min	X/Y 80 m/min	X/Y 80 m/min
C axis	-	Torque support	C axis	Interpolating C axis
Total tool changing slots	8	16	16	16
FLEX5 interface	-	-	FLEX5 (optional)	FLEX5 (optional)
woodWOP	Standard	Standard	Standard	Standard

Venture 210–240 – premier class CNC processing centers



Standards

- High-speed 7 500 – 31 drilling spindles (21 vertical/10 horizontal)
- Patented drill quick-change system
- Patented automatic spindle clamping
- Grooving saw, dia. 125 mm, 0–90°
- 3 rows of stops as standard
- Electronic scanning of all stop cylinders
- 2 CNC-controlled Z axes
- Tool STARTER KIT
- Working lengths: M (3 300 mm), L (4 500 mm), XXL (6 000 mm)

	Venture 210	Venture 220	Venture 230	Venture 240
Working table M variant	3 300 x 1 400 x 125 mm	3 300 x 1 400 x 125 mm	3 300 x 1 400 x 125 mm	3 300 x 1 400 x 125 mm
Trimming dimension dia. 20 mm	1 390 mm	1 600 mm	1 600 mm	1 600 mm
Vector speed	X/Y 110 m/min	X/Y 110 m/min	X/Y 110 m/min	X/Y 110 m/min
HSK trimming spindle	9 kW	12 kW	12 kW	12 kW
C axis	Torque support	Interpolating C axis	Interpolating C axis	Interpolating C axis
Positioning system	laser	laser	light emitting diode	light emitting diode
Total tool changing slots	10	22	28	28
FLEX5 interface	-	FLEX5 (optional)	FLEX5+ (optional)	FLEX5axis (as standard)
woodWOP	Standard	Standard	Standard	Standard

FLEX5/FLEX5+ – high-performance processing units from the HOMAG Group



FLEX5 sawing, trimming and drilling unit with automatic angle adjustment

Precise execution of shift cuts or drill holes at any optional angle without manual settings results in considerable productivity improvement by eliminating the need for test cuts, as well as improved quality.

FLEX5+ sawing, trimming and drilling unit with additional automatic tool change

As well as automatic angle setting, the FLEX5+ also offers automatic tool change. As a result, complete processing of a wide selection of workpieces is possible, e.g. pyramids, without manual intervention.

FLEX5axis – high-performance processing unit from the HOMAG Group



FLEX5axis sawing, trimming and drilling unit with additional automatic tool change

Alongside automatic angle adjustment and automatic tool change, the FLEX5axis also offers scope for lock case processing during door processing. It replaces up to five conventional adapter units.



BHX 050/055 – vertical CNC processing centers on less than 5 square meters



BHX 050:

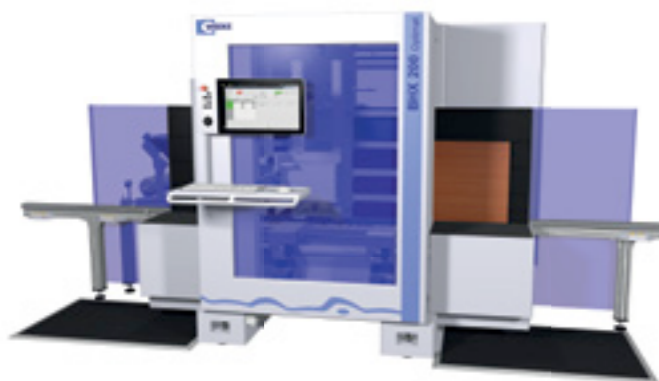
- High-speed 7 500 – 8 vertical drilling spindles
- 6 horizontal drilling spindles: 4 in X, 2 in Y (optional)
- Grooving saw in X direction, dia. 100 mm (optional)
- Trimming motor with high-speed hydraulic clamping system, 5 kW ETP 25 (optional)

BHX 055:

- High-speed 7 500 – 13 vertical drilling spindles
- 6 horizontal drilling spindles: 4 in X, 2 in Y (optional)
- Grooving saw in X direction, dia. 100 mm (optional)
- Trimming motor with high-speed hydraulic clamping system, 5 kW ETP 25 (optional)
- Tool changing spindle 5 kW HSK 63 with up to 4 tool changing slots (optional)

	BHX 050	BHX 055
Workpiece dimensions max.	2 500 x 850 x 60 mm	3 050 x 850 x 60 mm
Workpiece dimensions min.	200 x 70 x 12 mm	200 x 70 x 12 mm
Vertical drilling spindles	8	13
Vector speed X/Y-Z	50–15 m/min	50–15 m/min
woodWOP	Standard	Standard

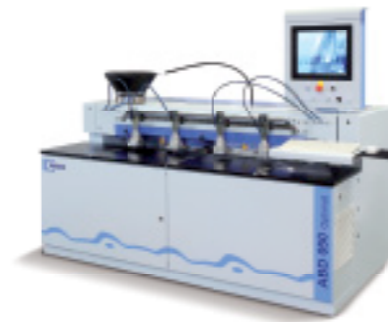
BHX 200 – vertical CNC processing center with split head technology



- “Split head” high-speed 7 500 – 34 drilling spindles (20 vertical/14 horizontal)
- Patented drill quick-change system
- Patented automatic spindle clamping
- Grooving saw, dia. 125 mm, 0–90°
- Tool changing spindle 9 kW HSK 63 with up to 4 tool changing slots (optional)
- 2 workpiece clamps
- Dowels in X direction (optional)

	BHX 200
Workpiece dimensions max.	3 050 x 1 250 x 80 mm
Workpiece dimensions min.	200 x 40 x 8 mm
Vertical drilling spindles	20
Horizontal drilling spindles	14
Dowel driving	Optional
Vector speed X/Y-Z	50–15 m/min
woodWOP	Standard

ABD 050/060 – CNC drilling and dowel driving machines



- Processing of up to 4 workpieces
- Fast, simple material handling
- Pneumatically retractable central and side stops
- Clamping cylinder – manually length and thickness adjustable
- Vibration conveyor for automatic dowel feed



	ABD 050/12	ABD 050/31	ABD 060/12	ABD 060/31
Workpiece length	20–1 250 mm	20–3 100 mm	20–1 250 mm	20–3 100 mm
Workpiece width	min. 50 mm	min. 50 mm	min. 50 mm	min. 50 mm
Workpiece thickness	10–60 mm	10–60 mm	10–60 mm	10–60 mm
Horizontal drilling spindles	1	1	3	3
Dowel driving unit	1	1	1	1
X axis	CNC controlled	CNC controlled	CNC controlled	CNC controlled
Y and Z axis	Manually adjustable	Manually adjustable	CNC controlled	CNC controlled
woodWOP	Standard	Standard	Standard	Standard

ABD 150/250 – CNC drilling and dowel driving machines

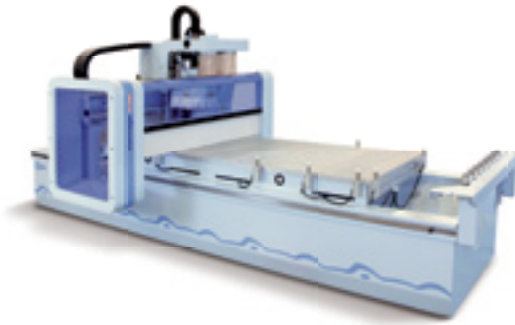


- High-speed drilling unit with 3 individually accessed horizontal drilling spindles
- High-speed drilling unit with 3 individually accessed vertical drilling spindles
- Dowel driving unit with glue application
- Processing of up to 4 workpieces
- Fast, simple material handling
- Pneumatically retractable central and side stops
- Axes: X, Y and Z direction CNC-controlled
- Clamping cylinder – manually length and thickness adjustable
- Vibration conveyor for automatic dowel feed

	ABD 150	ABD 250
Workpiece length	20–1 250 mm	20–2 500 mm
Workpiece width	min. 50 mm	min. 50 mm
Workpiece thickness	10–60 mm	10–60 mm
Horizontal drilling spindles	3	3
Vertical drilling spindles	3	3
Dowel driving unit	1	1
X, Y and Z axis	CNC controlled	CNC controlled
woodWOP	Standard	Standard



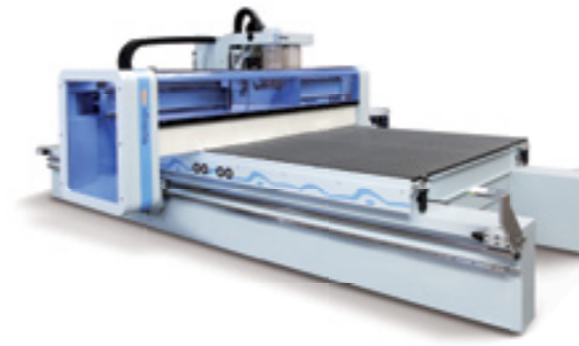
Vantage 43M – CNC processing center with aluminum table



- High-speed 7 500 – 18 drilling spindles (12 vertical/6 horizontal)
- Patented drill quick-change system
- Patented automatic spindle clamping
- Grooving saw, dia. 125 mm, 0–90°
- 12 kW HSK routing spindle (C axis 360°)
- 2 x 8 tool changing slots (pick-up/coupled-motion)
- Aluminum grid table
- Electronic scanning of all stop cylinders
- 2 CNC-controlled Z axes
- Tool STARTER KIT

	Vantage 43M
Working table	3 130 x 1 250 mm
Workpiece thickness	max. 125 mm
Z axis (Z1/Z2)	325 mm/185 mm
Vector speed	X/Y 80 m/min
woodWOP	Standard

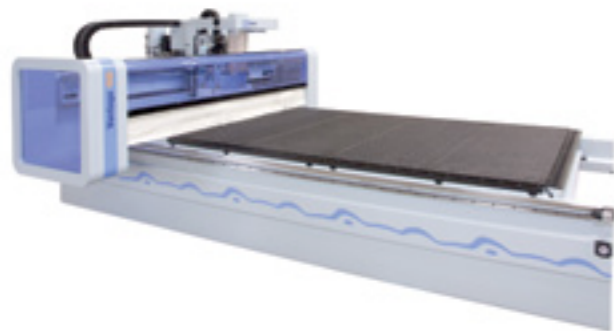
Vantage 200 – premium class CNC nesting machine



- Wide-ranging table sizes
- Safety tread mat
- 9 kW HSK routing spindle
- 14 tool changing slots (coupled motion in X direction)
- 2 CNC-controlled Z axes
- Electronic scanning of all stop cylinders
- 12/21/36 vertical drilling spindles (optional)
- Vector speed X/Y: 130 m/min
- Max. Workpiece thickness: 125 mm
- Versatile nesting concepts
- Tool STARTER KIT

	Vantage 200/510	Vantage 200/512	Vantage 200/610	Vantage 200/612	Vantage 200/710	Vantage 200/714
Length (mm/inch)	3 130/123.23	3 700/145.67	3 130/123.23	3 700/145.67	3 130/123.23	4 300/169.29
Width (mm/inch)	1 550/61.02	1 550/61.02	1 850/61.02	1 850/61.02	2 250/61.02	2 250/61.02
Vacuum output (cbm/h, 50/60 Hz)	600/720	600/720	600/720	600/720	900/1 080	900/1 080
Tool changing slots	14	14	14	14	14	14
C axis	Optional	Optional	Optional	Optional	Optional	Optional
FLEX5 interface	Optional	Optional	Optional	Optional	Optional	Optional
woodWOP	Standard	Standard	Standard	Standard	Standard	Standard

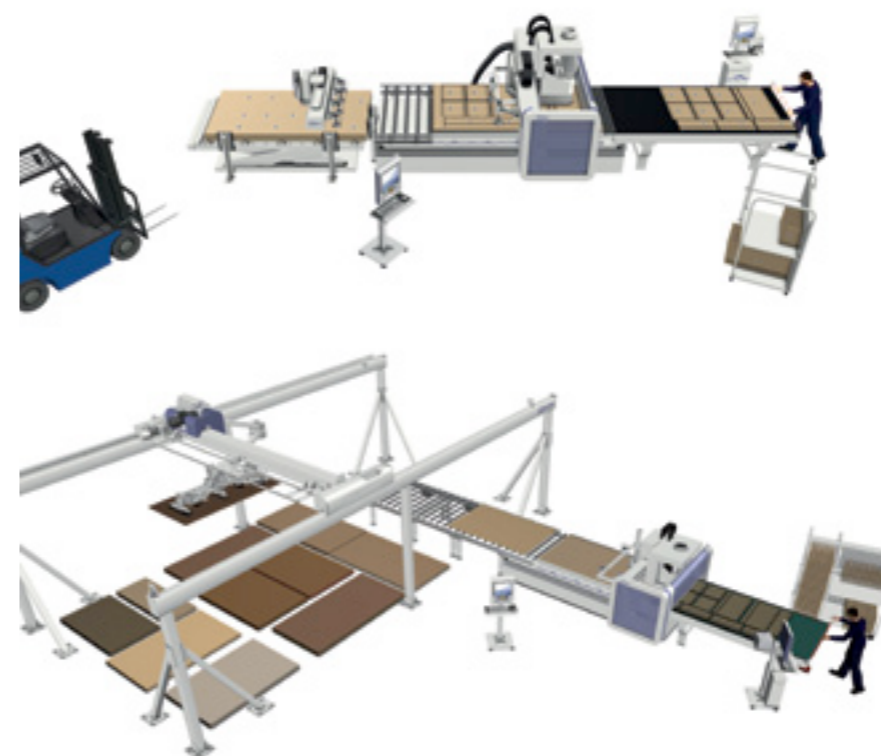
Vantage 100 – the versatile nesting machine



- Wide-ranging table sizes
- Single field arrangement (light grid)
- 9 kW HSK routing spindle
- 2 CNC-controlled Z axes
- Electronic scanning of all stop cylinders
- 12 vertical drilling spindles (optional)
- Vector speed X/Y: 96 m/min
- Max. Workpiece thickness: 100 mm
- Tool STARTER KIT

	Vantage 100/480	Vantage 100/510	Vantage 100/512	Vantage 100/610	Vantage 100/612	Vantage 100/710	Vantage 100/714
Length (mm/inch)	2 500/98.43	3 130/123.23	3 700/145.67	3 130/123.23	3 700/145.67	3 130/123.23	4 300/169.29
Width (mm/inch)	1 250/49.21	1 550/61.02	1 550/61.02	1 850/72.83	1 850/72.83	2 250/88.58	2 250/88.58
Vacuum output (cbm/h, 50/60 Hz)	300/360	600/720	600/720	600/720	600/720	900/1 080	900/1 080
Tool changing slots	7	8	8	10	10	12	12
C axis	Optional	Optional	Optional	Optional	Optional	Optional	Optional
woodWOP	Standard	Standard	Standard	Standard	Standard	Standard	Standard

Handling solutions for nesting machines



Nesting concepts from a single source

WEEKE and BARGSTEDT have developed nesting concepts specifically for PRACTIVE customers which permit even small-scale operations to benefit from automatic feeding. The highlights say it all:

- Significant rationalization effects due to optimized, fully automatic production sequences
- Greater flexibility due to optimum utilization of existing storage space
- More dynamic order processing due to free selection of advance storage locations in the storage system
- Labels can be applied to workpieces for downstream work processes

SWT 100 – the compact entry level machine


Suitable for calibration, denibbing and fine sanding of solid wood, as well as flush trimming of solid wood edges. Due to their tolerance compensation of up to 1 mm, the models with C unit and electronically controlled segmented pad are ideally suited for sanding veneered workpieces.

Standard features:

- Steplessly frequency-controlled feed rate
- Automatic thickness tracing
- Every unit is separately driven

	SWT 114 C	SWT 124 RL/RC	SWT 134 RRL/RRC
Working width	1 100 mm	1 100 mm	1 100 mm
Unit designation*	C	R/L/C	R/L/C
Belt length	1 900 mm	1 900 mm	1 900 mm
Workpiece thickness	3–160 mm	3–160 mm	3–160 mm
Weight	1 400 kg	1 800 kg	2 300 kg

SWT 300 SERIES – as individual as your customers


Taking into account production-specific, economic and user ergonomics aspects, the specialists at BÜTFERING put together equipment variants with the SWT 300 models which are specifically adjusted to the requirements of modern, top-quality interior fittings. No matter whether solid wood, veneer or high-gloss polished finish – with an SWT 300 model you will easily master any application.

Standard features:

- Constant workpiece infeed height 900 mm
- New adjustable effective belt cleaning device saves up to 70 % compressed air with 100 % results
- Cutting speed steplessly frequency controlled (optional)
- Feed rate steplessly frequency controlled
- Touchscreen terminal with 200 storage locations
- EPS or MPS sanding system
- Automatic unit locking
- ecoPlus

	SWT 315	SWT 325	SWT 335
Working width	1 350 mm	1 350 mm	1 350 mm
Unit designation*	C/X	R/L/C/X/Q/H	R/L/C/E/Q/H
Number of units	1	2	3
Belt length	2 150/2 620 mm	2 150/2 620 mm	2 150/2 620 mm
Workpiece thickness	3–160 mm	3–160 mm	3–160 mm
Weight	approx. 2 800 kg	approx. 3 800 kg	approx. 4 800 kg

SWT 200 – the versatile multitalent


Suitable for calibration, fine sanding and denibbing. The BÜTFERING SWT 200 series is as versatile as its users. Every model is a true talent when it comes to special requirements and wood types. The unit combinations can be individually adjusted to your conditions and assignments. On the basis of extensive experience and trade-specific know-how, compact performance packages are created with an optimum cost-to-performance ratio.

Standard features:

- Constant workpiece infeed height 900 mm
- New adjustable effective belt cleaning device saves up to 70 % compressed air with 100 % results
- Cutting speed steplessly frequency controlled (optional)
- Feed rate steplessly frequency controlled
- Touchscreen terminal with 200 storage locations
- EPS loop system

	SWT 215	SWT 225	SWT 235
Working width	1 350 mm	1 350 mm	1 350 mm
Unit designation*	L/C	R/L/C	R/L/C
Number of units	1	2	3
Belt length	2 150 mm	2 150 mm	2 150 mm
Workpiece thickness	3–160 mm	3–160 mm	3–160 mm
Weight	approx. 2 100 kg	appr. 3 000 kg	approx. 3 900 kg

SWT 500 Diamond – the heavyweight as a complete package

Full equipment outfit as standard:

- Constant workpiece infeed height 900 mm
- New 5-step adjustable effective belt air jet cleaning device at all units
- Frequency controlled cutting speed
- Feed rate steplessly frequency controlled
- 10.4" touchscreen terminal with 200 storage locations
- MPS system (electromagnetic)
- Vacuum table with integrated fan
- Workpiece cleaning using horsehair brush and separate motor
- Automatic unit locking
- Pull-out roller table at the infeed



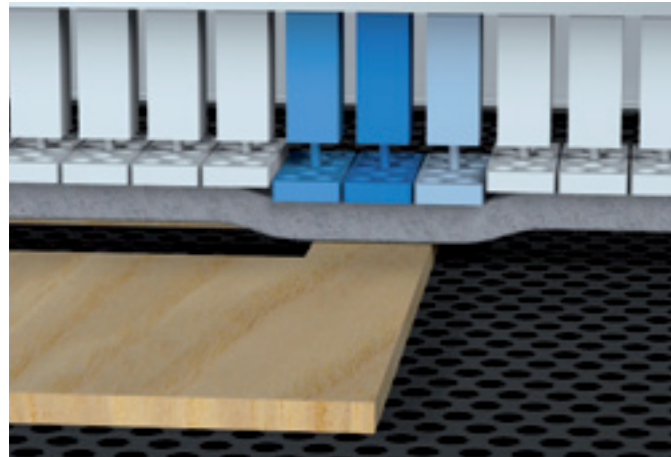
	SWT 515	SWT 525	SWT 535
Working width	1 350 mm	1 350 mm	1 350 mm
Unit designation	C/X	C/X/H/Q	R/C/E/H/Q
Number of units	1	2	3
Belt length	2 620 mm	2 620 mm	2 620 mm
Workpiece thickness	3–200 mm	3–200 mm	3–200 mm
Weight	approx. 3 500 kg	approx. 6 500 kg	approx. 9 000 kg

* See unit key on page 51

* See unit key on page 51



BÜTFERING – the right sanding system every time



The required degree of sanding precision differs with every application. This is why the new 300 series from BÜTFERING can be equipped optionally with either the proven EPS or the high-precision MPS system – depending on requirements.

EPS (electropneumatic)

- Workpiece tracing and segment width of up to 25 mm
- Optimum distribution of the sanding pressure with 80 mm wide engagement zone at the segmented pad
- Simple electropneumatic actuation of segments

MPS (electromagnetic)

- Program-controlled sanding force regulation
- Dynamic cut-in and cut-out of segments
- High-precision actuation of sanding segments
- Excellent care of edges on highly sensitive materials

SORB TECH – for absolute smooth running



High-speed vibration damping through patented composite material

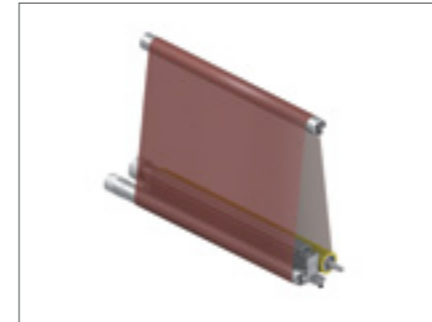
Every woodworking machine responds with high intensity if excited by certain frequencies. This effect is referred to as resonance. To guarantee good processing quality, it is essential to guarantee resonance-free processing operations. The machine bed made of vibration-damping composite material SORB TECH absorbs this type of vibration more quickly than conventional steel designs.

Highlights:

- The mineral composite material SORB TECH is characterized by its excellent vibration damping properties
- Far superior to conventional welded and cast constructions
- Unique pioneering and patent protected technology
- Currently an unbeaten degree of running smoothness



Unit key

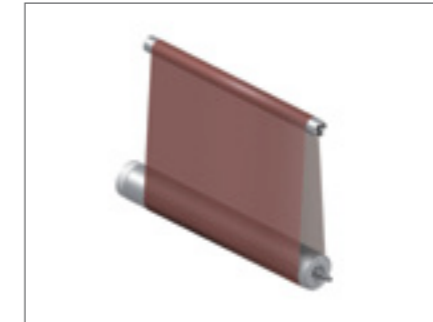


Combination unit (100-200 series)

- C** Contact roller dia. 160 mm, electronically controlled segmented pad
- L** Contact roller dia. 160 mm, pneumatically supported air cushion

Combination unit (300-500 series)

- C** Contact roller dia. 140 mm, electronically controlled segmented pad
- L** Contact roller dia. 140 mm, pneumatically supported air cushion



Contact roller unit (100-200 series)

- R** Contact roller dia. 160 mm made of steel or rubber

Contact roller unit (300-500 series)

- R** Contact roller dia. 240 mm made of steel or rubber



Cross sanding unit (300-500 series)

- Q** Internally running chevron belt, electronically controlled segmented pad



Sanding pad unit (300-500 series)

- E** Electronically controlled segmented pad



Superfinish unit (300-500 series)

- H** Internally running chevron belt, electronically controlled segmented pad



X unit (300-500 series)

- X** Internally running chevron belt, electronically controlled segmented pad
- Can also be used without chevron belt in the same way as **E**
- Can also be used without chevron belt in the same way as **C**



Here at Nordemann, we use HOMAG Group products for everything from our saw to our wide-belt sanding machine, because we know we can rely on their perfect, seamless production quality.

Ulrich Schöpp, CEO in Harsewinkel



More efficiency, more flexibility, more productivity



No-compromise passion and quality

As a specialist in the field of assembly technology, packaging technology and automation, LIGMATECH is a leading manufacturer of innovative machines and complex plants. We are passionate about quality, and aspire to enthuse our customers the world over.

LIGMATECH
 Automationsysteme GmbH
 9 000 m² production area
 165 employees

Assembly made easy

High-quality LIGMATECH case clamps not only enhance the quality of your products, their ergonomic benefits will take much of the strain from your assembly team. Another benefit: Valuable time savings for you!

Intelligent packaging saves time and money

Whether flat packed or ready assembled carcasses and fronts – our ultra-flexible packaging machines and plants will take care of perfect packaging at the press of a button. Always in the optimum size, the required piece numbers and just-in-time. Custom-tailored packaging also ensures that products are ideally protected on the way to the customer. Naturally using environmentally friendly packaging solutions too.

Boomerang[®] Return conveyor system for greater efficiency

In the field of return conveyor systems, the Boomerang[®] brand by LIGMATECH is synonymous with quality, efficiency and handling convenience. True one-man operation at edge banding machines helps to optimize the workpiece return feed system and so create lean, efficient production processes.

Product portfolio:

- Case clamps
- Cardboard box cutting machines
- Cardboard box folding machines
- Cardboard box closing machines
- Return conveyor systems
- Robot applications



LIGMATECH – assembly, packaging and return conveying systems for greater productivity

MPH series – case clamps for woodworking shops and industry

MPH 410 – Basic

- Pressing surfaces with tolerance compensation: absolutely sealed carcasses through compensation of workpiece tolerances
- No manual positioning of clamp elements required
- Easy operation using keys

MPH 450 – Advanced

(optional extras available for the basic machine)

- Two clamp speeds
- Steplessly adjustable clamp pressure
- Labor saving due to ergonomically designed work environment

MPH 510 – Industry

(optional extras available for the advanced machine)

- Facility for integration into production lines
- Control with touchscreen

	MPH 410 Basic	MPH 450 Advance	MPH 510 Industry
Length	250–2 500 mm	250–3 000 mm	250–3 000 mm
Height	250–700 mm	250–900 mm	250–900 mm
Depth	150–1 400 mm	150–1 400 mm	150–1 400 mm

Cardboard box cutting machine VKS 200 – perfect packaging at the press of a button


- Flexible – custom-tailored packaging for any type and size of product
- Just-in-time production also for batch size 1
- Optimum product protection – even without costly filler materials
- Efficient – fully automatic fast resetting cutting tools
- Single point principle – cutting, corrugating and perforating on a single point
- Optimum cutting quality

Saving of up to 35 % process costs for packaging:

- Less packaging material
- Less filling material
- Lower storage costs
- Lower transport costs
- Fewer complaints due to optimum product protection

	VKS 200
Cardboard box dimensions	
Length	340–3 500 mm
Width	205–2 500 mm
Thickness	2.5–7 mm
Cardboard quality	Single and double walled
Cardboard feed	Single sheet feed (manual), endless cardboard feed (unwinder)

Boomerang® ZHR – return conveyors for one-man operation at edge banding machines

Boomerang® ZHR – greater efficiency and flexibility

- Higher productivity due to one-man operation
- Convenient ergonomic part handling
- Space-saving compact design

ZHR 01

- Entry-level model for predominantly small and medium-sized parts

ZHR 05

- Wide part spectrum
- High output coupled with minimal part spacing
- Gentle-action part transport using air cushion table

	ZHR 01	ZHR 05
Part length	300–2 500 mm	300–2 500 mm
Part width	50–1 450 mm	60–800 mm
Min. part size for processing on all sides	300 x 300 mm	300 x 300 mm
Max. part size for processing on all sides	1 450 x 1 450 mm	800 x 2 000 mm
Part thickness	8–60 mm	8–60 mm

Series Boomerang® ZHR 500 – gantry return conveyor


- Flexible part handling on one-sided edge banding machines due to a combination of gantry technology and return conveyor
- Possible rotation of parts during transfer to the return conveyor by preselection of a rotation angle (0°, 90°, 180°)
- Extended functional characteristics using the modular principle (stacking station, feeding station, collection of parts), consequently flexible adjustment possible to customer requirements

	ZHR 520	ZHR 521	ZHR 522	ZHR 540	ZHR 541	ZHR 542
Return	yes	yes	yes	yes	yes	yes
1 Destacking place	no	yes	yes	no	yes	yes
2 Destacking places	no	no	yes	no	no	yes
Part length	240–2 500 mm			240–3 000 mm		
Part width	120–1 200 mm			120–1 200 mm		
Part thickness	8–60 mm			8–60 mm		



woodCAD|CAM is ideally coordinated to the HOMAG Group machines

The software permits a seamless data flow from the idea through to production

HOMAG eSOLUTION is your partner when it comes to professional CAD/CAM systems in the furniture and interior fittings business – for greater efficiency and security.

Perfection is now programmable

The HOMAG eSOLUTION software concept optimizes company processes across the board – from woodworking shops to internationally active corporations serving the furniture and furniture supply industries – from the first sketch to the final product, from the cost estimation stage to the quotation, from the design through to CNC data generation. The woodCAD|CAM software is ideally configured for the machines of the HOMAG Group and creates efficiency and security for the order processing and production process.

Greater scope through flexibility

The market expects top quality, ever shorter delivery periods and individual design. Those able to offer the greatest flexibility will stay ahead of the field. Parametric furniture design and a direct link to the machine technology are the key functions of woodCAD|CAM – helping you achieve success.

Make optimum use of potential

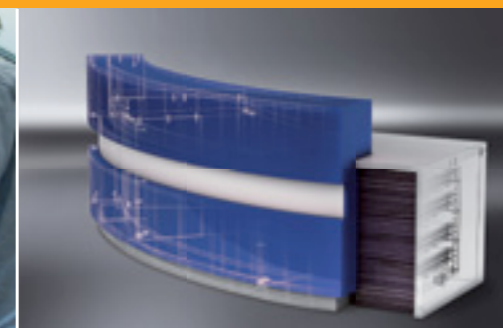
Whether standalone furniture or complex room plans: The route from the first idea to the machine is as simple as it is impressive. At the click of a mouse, production drawings and bills of material can be accessed directly following the design process, design data is automatically forwarded to HOMAG Group CNC machines. At the same time, the machines are perfectly integrated into the overall process chain. woodCAD|CAM turns your machine investment into a competitive advantage.

HOMAG eSOLUTION – CAD|CAM-software for the woodworking and furniture sector



design-to-machine: software provides the connecting link

Save time, avoid errors, work economically: woodCAD|CAM supplies the reliable, flexible process solution from planning through design to data generation for the machine.



CAD Design in 3D

Components and assemblies can be simply collated with just a few mouse clicks to create new furniture items – no matter whether you are working with dimensionally variable case furniture or complex furnishing items such as counters or round benches, which are generated in 3D complete with all their connections, processing operations and hardware.

Every design change is immediately calculated and depicted. The extensive catalog of fittings is developed and continuously updated together with renowned manufacturers from the furniture supply industry. Operation is both simple and intuitive.

Visualizing ideas

“A picture paints more than a thousand words”. This adage is particularly true when it comes to sales or prototype presentations. Planning and design results are photorealistically depicted and allow customers to visualize their own individual furnishing ideas. At the same time, woodCAD|CAM also creates drawings in a two or three-dimensional view including all cross-sections and details for communication with architects and developers.

Simple process organization

The system encompasses an integrated order and project management capability. The planning and design data is calculated directly with material and production costs and can be read out in various forms, such as a manufacturing cost calculation or a quotation template.

CAM Production at the click of a mouse

The system generates automatically dimensioned component drawings directly from the 3D design, alongside all the necessary cutting lists, bills of material, bar codes, labels and CNC programs, saving time and avoiding errors.

Directly to the machine

Panel sizing saws, throughfeed machines and processing centers from the HOMAG Group are directly actuated with all the necessary parameters such as tool selection, drilling pattern, speed, feed rate or approach strategy. This is the modern way to produce furniture.

woodCAD|CAM from HOMAG eSOLUTION

Highlights

- Parametric design in 3D
- True-to-detail depictions of all elements
- Catalog with furniture fittings
- Photorealistic depiction
- Rapid implementation of design changes
- Integrated project management
- Permanent cost transparency
- Automatic generation of cutting lists and bills of material
- CNC programs directly from the 3D design
- Automated tool allocation
- Bar code generation
- Actuation of current machines from the HOMAG Group
- Simple to install, easy to learn
- Use of technology standards such as AutoCAD®; MS SQL server

Processing complex component geometry

The graphic generation of 5-axis data eliminates the need for complicated programming tasks.

- Interactive programming of complex workpieces in CAD.
- Generation of interpolating tool movements
- 3D-simulation of individual processing steps including collision check
- Preconfigured programming for typical 5-axis processing operations in furniture construction
- Import interface for different 3D formats



From the 3D design...

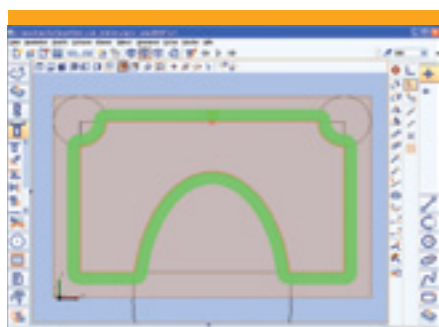


... directly to the machine



Software for efficient wood processing

The HOMAG Group software offers a wide spectrum of machine-oriented software for successful integration of machines into the production environment. Select from the wide range of software modules on offer to create the optimum configuration for your needs and make programming fun.



woodWOP – programming system

woodWOP is the HOMAG Group's CNC programming system. The new, modern, user interface centers on the large graphic area used for displaying workpieces in 3D. The graphics permit interactive working, for example to create contours on a background grid simply with a mouse click. Dedicated macros are available for every type of processing operation. This allows processes such as trimming and drilling operations and sawing cuts to be quickly and simply programmed by entering the relevant processing diameters. Even inclined axes are quickly and simply programmed as adjusting axes by means of predefined input screens and displayed in woodWOP, guaranteeing extreme programming reliability and continuous plausibility checks throughout the programming process.

woodWOP also offers a range of additional applications to simplify and streamline programming. CAD drawings can be directly imported using the dxf import function, for instance, and then

further processed in woodWOP. The woodWOP Wizard allows all processing operations for edge banding to be automatically generated at the press of a button.

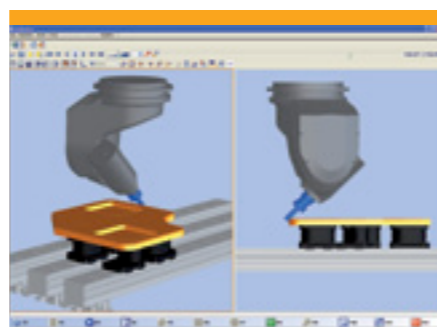
The CAD plugin extends the woodWOP user interface to include CAD functions. This allows contours to be more conveniently and quickly produced. Interactive lines, arcs and much more can be drawn. A large number of change functions are also available. A smart search algorithm transforms created drawing elements into a contour.

With over 30,000 installations already under its belt, woodWOP is the most successful programming system on the market.

Highlights:

- More programming reliability with 3D graphics of the workpiece, processing operations and clamps
- Faster data input due to direct navigation
- Greater operating convenience through new design of the surface, e.g. freely adjustable windows, multiscreen capability, language-neutral input masks, help graphics and much more.
- Biggest forum for CNC programming in the Internet:

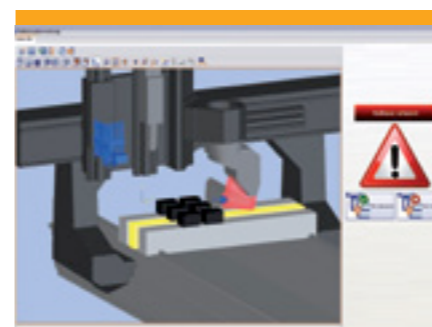
www.woodWOP-Forum.de



woodMotion – the ultimate in graphic simulation

woodMotion simulates the working steps of the machine at the office PC, providing a graphic depiction of all operating processes at the workpiece. This facility allows the programmer to check every processing step already at the production engineering stage and so detect any potential collision between workpieces and clamps in advance of actual operation.

The program contains all the configurations for the relevant machine. woodMotion offers efficient utilization both for entry level and advanced users.



collisionControl monitors possible collisions between machine components and clamps at the machine during processing.

Benefits:

- Automatic machine stop in the event of an impending crash situation
- Display of the crash situation in the form of a snapshot with collision bodies shown up in color
- Monitoring of manual traversing records in the manual mode
- Depiction of the machine as a moving 3D model in live operation



woodNest – nesting software

Using the nesting process, order-specific batches are collated while optimizing cutting waste from the unfinished panel. woodNest is able to directly process woodWOP programs, arrange them with optimized cutting waste on the unfinished panel and optimize the processing sequence. The woodNest output: finished woodWOP programs including all processing operations.

woodWindows window software

woodWindows is a window software system from the company Klaes which is specifically tailored to HOMAG machines for the individual design of windows including program generation for HOMAG processing centers. Whether complex designs, extensive large-scale projects with series production or individual small production runs, woodWindows turns any design into a standard window and allows it to be processed from start to finish on the HOMAG processing center.



HOLZMA CutRite

HOLZMA's worldwide leading optimization software CutRite is a powerful, user-friendly program for cut optimization of sheet materials. It optimizes material wastage and – depending on the version – the overall cutting costs, consisting of material and machining costs.