

## The complete timber work range



# Timber work innovation

If you build modern homes from natural wood or if your business is based on intelligent, energy-saving construction, WEINMANN is the right partner for you. As a leading manufacturer of high-performance machines and equipment for timber work, we develop innovative and customized solutions for your success; that is our goal, so we put your needs at the center of everything we do. The trust placed in us by our customers is testimony to the fact that we deliver on our promise time and time again: Businesses ranging from independent carpenters to large prefabricated housing manufacturers all over the world work with WEINMANN systems, and have confidence in the quality of our machines and our consulting services.



## The complete timber work range

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# HOMAG Group — Partner for the timber work industry and more

Whether you process material panels or beams or manufacture wall, roof or gable elements, windows, stairs or doors: The HOMAG Group has technology for your individual production requirements.

We offer solutions on all scales, from stand-alone machines tailored to the specific needs of a craftsman through to complete production systems for industrial applications. The advantage for you: You get everything you need from a single source, from the initial design through to development, software, production, sales and service. This offering is what makes us the world's leading supplier of wood processing machinery and equipment.



## Furniture production

Any company that manufactures home or office furniture or kitchens is likely to use a machine or system from the HOMAG Group in some part of its process. Large international furniture and kitchen manufacturers and smaller local companies have placed their trust in us for over 50 years. Innovative developments are an important part of the success story of the HOMAG Group, and we currently hold more than 900 patents.

## Structural element production

Whether you manufacture windows, doors and stairs or parquet and laminate flooring with tongue and groove or click profiles, our diverse machinery range has the right solution for any manufacturer.

## Timber work

As a leading manufacturer of modern machinery and equipment for the timber work industry and carpentry companies, we are the perfect partner for your business. We offer security in the growing timber work market by providing innovative solutions for small, medium-sized and large carpentry businesses as well as complete solutions for fully automatic production systems.

## A global company

- Over 5400 employees
- 22 internal sales and service companies
- More than 100 sales partners on all continents
- 15 production sites in Europe, Asia and America
- Market leader in the timber industry with a global market share of 28%

## ecoPlus saves on resources and costs

Energy, time, material and personnel — conserve these precious resources and make huge savings. HOMAG **ecoPlus** technologies help you to both save money and simultaneously increase productivity in your company. Take energy as an example: with **ecoPlus**, you can reduce consumption by up to 30%! **ecoPlus** technology is incorporated into almost all HOMAG Group machines.

# WBS/WBZ carpentry machines

These machines are equipped to tackle a wide range of processing tasks — from making a quick cut to completing a complex beam processing operation, with precision, speed and flexibility throughout. Our beam processing machines increase production efficiency in carpentry applications, timber frame construction, half-timbered construction and pre-fabricated house construction.



"You just set the WBS up and off you go. It doesn't need any highly trained specialists to operate it. In terms of user-friendliness and performance, it is an ideal solution for small to medium-sized enterprises."

Stefan Brügger, KA Holzbau AG, Switzerland



## High processing speed

- Feed speed up to 150 m/min
- Highly dynamic drives
- Process-optimized workflow
- Multi-channel control for parallel processing with 5-axis technology
- Highly dynamic tool change technology
- Tool changer to minimize setup time
- Intuitive power**Touch** operating concept

## Designed for precision

- High-resolution positioning system for all axes
- Precise component positioning via two NC grippers
- Horizontal and vertical material clamping system during processing
- High-precision and robust linear guides with a long service life
- Monitoring of all processes

## Wide range of applications

- 12 place tool changer
- Automatic adaptation to different workpiece dimensions
- Manual entry or direct data transfer from CAD
- All options available for retrofitting thanks to modular system
- Processes even the shortest parts
- Easy installation
- Dust and soundproof construction

## Customized equipment

- Automatic beam feeder with separator
- Beam turning device
- Sorting unit as conveyor belt
- Good parts conveyor belt
- Waste conveyor belt
- Inkjet printer
- Ballpoint pen/marker
- Label printer
- Measuring system for determining zero point
- Handling portal for automatic component loading
- Automatic destacking
- Full evaluation of production times and quantities

# WTV/WTZ assembly tables

WTV/WTZ assembly tables for universal use in timber frame element production ensuring high angular and dimensional accuracy. They are especially well-suited to applications in small and medium-sized carpentry companies wishing to produce high-quality wall, roof and floor elements using a simple and ergonomic process. The tables can also be used to easily produce special elements such as gables, bays and flap tiles.



"The WEINMANN butterfly turning table is robust, flexible and easy to use. It improves working ergonomics, increases our operational safety and saves a lot of time in element manufacturing."

Heinz Abderhalden, Abderhalden Holzbau AG, Switzerland



## Safe and ergonomic

- Ergonomic working height
- Set-up function for safe and gentle removal and rotation of elements
- All controls installed directly on the table
- Solid non-slip planking provides a safe working surface

## Stable construction

- Solid steel construction for high element weights up to 5 t
- Robust design — all sensitive elements are protected against damage
- Zinc-plated stop pin for a long service life

## Universal application

- Suitable for any element type (walls, roofs, floors, gables)
- Simple retrofitting at any time thanks to modular structure
- Element height up to 3800 mm
- Element thicknesses up to 500 mm
- Standard length of up to 12 m
- Two separate clamping circuits allow two elements to be produced simultaneously

## Customized equipment

- Various stops
- Universal clamps
- Gable stop
- Foil unwinding equipment
- Pneumatic and electrical connectivity options for hand-held devices
- Different bolt lengths and height-adjustable bolts
- Longitudinal element transport
- Roof/ceiling clamps
- Hydraulic set-up/turning function
- Carriage with automatic positioning system

# WEM framing station

The versatile framing station sets new standards in the creation of complex and challenging frame works in timber frame construction - with a design specifically tailored to this application. The framing station is individually configurable to suit any requirements. The models available range from the low-cost entry-level variant up to a fully automated high-performance system with a production capacity of more than 1000 houses per year.



"More than 20 years ago, we invested in our first WEINMANN production system — and we are still using that system successfully in our production processes today. We are incredibly impressed by the long service life and the flexibility of the system."

Jochen Renner, SchwörerHaus KG, Germany



## Built-in high precision

- High frame work accuracy thanks to NC stop alignment system
- NC-controlled outfeed gripper for precise beam spacing
- Fully automatic tensioning of frame work

## More options for you

- Individual production in batch size 1
- Only one operator required
- Can be expanded at any time thanks to modular design
- Zero setup time thanks to automatic width adjustment
- Offset beam positioning possible

## Very easy to use

- Clear screen
- Swiveling control panel
- Comprehensive safety features
- Automatic data transfer or direct input at machine

## Customized equipment

- Module assembly table incl. conveyor unit
- Beam provision unit
- Nail plate press
- Snipping saw unit
- Drilling unit
- Inkjet printer for labeling beams or plates
- Mounting station for spandrel beams, manual or automatic
- Gable station
- Isolation station
- Separator with cross conveyor
- Automatic beam pusher
- Automatic width adjustment
- Handling system for fully automatic beam provision
- Fully automatic beam mounting
- Fully automatic frame work production

# WTW/WTD assembly tables

The WTW wall table is a truly multifunctional addition to a production line. It carries out tasks such as turning elements, aligning elements at the correct angles for safe planking and nailing, longitudinal and transverse transport and laying out elements for storage. The WTD floor table is ideal for producing roof and floor elements in the shortest timeframes.



"We are clearly producing better quality and are able to do so with considerably fewer staff. I anticipate that the investment in the plant will have paid for itself in three years or less."

Roald Haug, Storen Treindustri, Norway



## Can be individually modified

- Can accommodate customer requirements, individually tailored to different production situations and levels of automation
- Can be expanded at any time, either to increase capacity or introduce automation
- Interlinked control technology for simple operation

## Extremely durable

- Steel profile construction for high workpiece weights of 3.5 t or above
- Low-maintenance design for process reliability
- Transport without damage

## Versatile applications

- Automatic alignment of the element
- Can be integrated into any production line
- Swivels for installing windows, for storage or for turning
- Individual transport systems
- Moveable

## Customized equipment

- Various stops
- NC-controlled beam aligner for high component quality
- Pneumatic or hydraulic element clamping
- Automatic or manual longitudinal / cross transport using rollers or hinged belts
- Longitudinal or transverse table carriage
- Hydraulic swivel device
- Solid non-slip planking
- Pneumatic and electrical connectivity options for hand-held devices
- Foil unwinding equipment
- Rails and guides to distribute and store walls

# WMS multifunction bridge

The CNC-controlled multifunction bridge completes all timber frame element planking tasks fully automatically — including securing the sheathing and formatting and cutting all openings in the element. The WMS is popular with carpenters for a number of reasons; its wide range of processing applications, low space requirement and ease of operation are key features. The machine's powerful, accurate units guarantee the highest level of quality.



"The processing precision of the multifunction bridge allows us to produce elements much more accurately. This has increased the quality of our products significantly."

Alexander Leidorf, Wiehag GmbH, Austria



## Multifunctional

- Configurable according to customer requirements
- Fully automatic tool changer with 12 tool slots for a high level of flexibility in terms of processing tasks and unit equipment
- Processing of various materials (e.g. sandwich, caravans) with zero setup time

## Proven technology

- CNC control for fully automatic processing
- Easy to operate with intuitive power**Touch** user interface
- 12 kW or 20 kW tool spindle
- FLEX25 sawing unit up to 200 mm cutting depth
- Effective dust extraction technology
- Equipped for the future: process passive house components or cut soft fiber panels

## Powerful complete package

- Interpolating processing
- Optimum working ergonomics and safety
- Durable construction
- Fully automatic data transfer from CAD
- Can be combined with individual table concepts; travel distance of up to 70 m allows for approach from multiple tables

## Customized equipment

- Lattec option: fully automatic positioning and mounting of battens and cover boards on a beam or rafter framework
- Nailing, clamping, screwing
- Drilling, sawing, trimming, marking, labeling, PU bonding, scribing
- Swivel unit for nailing devices
- Label using inkjet printing or labels
- 20 kW main spindle and 12 place tool changer



# WEK combi wall system

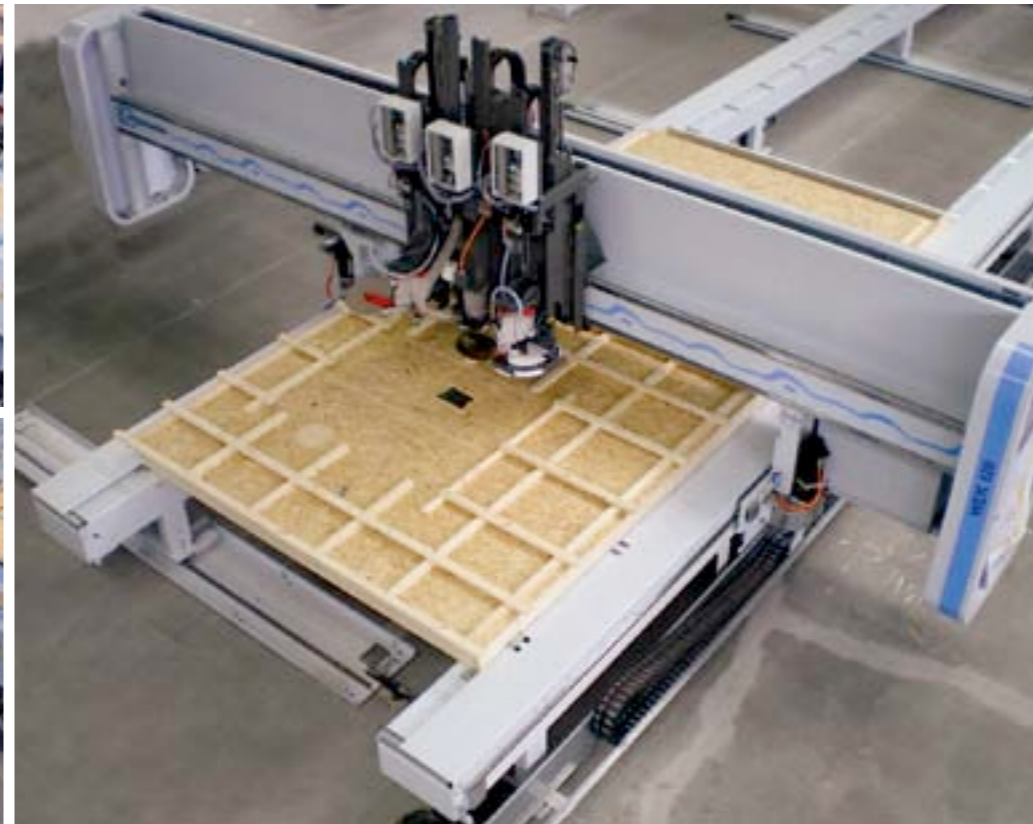
The WEK combi wall system is a combination of a framing station and a multifunction bridge, designed to automatically produce wall and gable elements for timber frame construction. A workstation positions the frame work components and precisely secures and processes the sheathing — all fully automatically.

The result: Elements of exceptional quality, produced at minimal space requirements.



"We're really pleased with the WEINMANN combi wall system. The processing speed and the level of precision in the produced elements are impressive. And the machine achieves all of this while still being incredibly compact."

Marsh Hudson, eHOME nz Ltd, New Zealand



## Precision through technology

- NC stop alignment system
- Automatic beam positioning and fully automatic square alignment
- Precise clamping and joining of frame work
- CNC axes for customer-specific nail patterns

## Efficient and ergonomic

- Customized production with zero machine setup
- Only one operator for the production of a complete element
- Ideal working height for ergonomic operation
- Flexible control panel positioning for optimum ease of operation

## High-performance yet compact system

- Automatic width adjustment
- Compact production cell
- Traveling stop system

## Customized equipment

- Stud storage unit
- Nogging installation support for lintels
- Labeling and marking
- Nail plate press
- Cross cut saw unit
- Gable and window station
- Stop for gable elements
- Automatic batten positioning and mounting
- Automatic longitudinal transport of elements to next workstation

# WMP solid wood portal

The WMP solid wood portal is designed for speed and precision. Regardless of whether you're working on solid wood or commercial constructions or with laminated wooden beams, the WMP can handle all materials in these applications and is highly versatile, with an impressive range of processing options. For this reason, the WMP has long been a key fixture in the timber work engineering industry. It is also the only solution on the market for processing multilayer solid wood and timber frame elements.



"Our WEINMANN solid wood portal allowed us to significantly increase our capacity. Our employees enjoy working with the machine – it is easy to operate and 100% reliable. It enables us to provide our customers with high-quality products on time."

Thomas Schumm, Stephan Holzbau GmbH, Germany



## Highly dynamic

- High processing speed
- 20 kW swiveling saw motor
- 24 kW main spindle with 5-axis head
- Peak power up to 89 kW
- Powerful CAD/CAM system
- Can control several processing tables

## Highest levels of accuracy

- Precise workpiece determination
- Precision linear guides for all axes
- Interpolating 5-axis processing
- High-precision encoder

## Wide range of processing applications

- 18 place tool changer
- Deep hole drilling unit capable of drilling holes up to 1.50 m deep on all sides of the workpiece and at almost any angle
- Underfloor unit for fully automatic processing of all sides of the workpiece
- Automatic fastening of the sheathing on solid wood cores and subsequent automatic processing of the workpiece

## Optional equipment

- Chainsaw, saw, router, drill, label printer, chain mortiser, underfloor unit, deep hole drilling unit
- Appliance for stapling/nailing gun for timber frame construction
- Tool changer can be expanded with multiple pick-up stations
- Bracket table with wooden paneling
- Bracket table with vacuum suction units
- Vacuum table
- Butterfly turning table
- Control either via woodWOP or Lignocam

# WHM/WHP handling systems

Fast and efficient machines are just as important for efficient production as smooth-running processes across all systems. That is why WEINMANN developed the WHM/WHP handling systems, which are designed to optimize production hall logistics, increase machine run time and ensure that the machine operator's workplace is ergonomically designed and safe. The fully automatic handling systems combine all processes in a network, ensuring that the workflow progresses efficiently with minimum operator effort.



"Everyone who is or was involved in the project raves about the precision of the finished wall elements. The older employees in particular know just how valuable the labor-saving processes for handling materials are. The consistently positive feedback from our customers is, of course, primarily related to the high quality of our houses, but our precise adherence to build times also earns us high esteem."

Jean Claude Guillaumie, Guillaumie SARL, France



## Flowing production processes

- Automatic material feed
- Optimized production processes — the right part in the right place at the right time
- Efficient use of resources
- Short throughfeed times
- High machine availability thanks to fast material provision

## Stable, dynamic technology

- Beam weight up to 1000 kg
- Panel weight up to 1000 kg
- Axis speeds up to 120 m/min
- Automatic rotation/turning station

## Ergonomic working environment

- Easy handling of heavy loads
- Lightweight design for easier manual operation
- Only one operator needed to position panels
- Hold function provides scope for other activities
- Vacuum monitoring with emergency stop function

## Customized equipment

- Vacuum window lifting device
- Vacuum panel lifter
- Column slewing crane
- Moving gantry handling
- Surface handling
- Beam lifter with vacuum or for mechanical gripping or screwing
- Fully automatic feeding portal for beams
- Fully automatic feeding portal for panels

# WLV/WLW storage technology

With storage technology from WEINMANN, elements can quickly and easily be transferred to intermediate storage and picked back out for return to production. The systems also offer the space required for finishing work such as the application of exterior plaster or fitting windows and doors. WEINMANN storage systems also feature a number of helpful details tailored to the customer's requirements – making your working life significantly easier.



"With the modern, fully automatic WEINMANN system, we can offer the Russian market high-quality, innovative products that meet European standards. With this storage technology, we benefit from fully automatic intermediate storage and picking, which significantly reduces turnaround times."

Dmitry Apanasenko, Valdek LTD, Russia



## Safety and short routes

- Elements protected
- Automatic positioning at transfer stations
- Direct loading from storage system

## Versatile applications

- Order-based provision of parts
- Applying exterior plaster
- Fitting windows and doors
- Splitting multiwalls
- Finishing elements
- Preparing for dispatch
- Can be individually tailored to storage facility size and capacity

## Ergonomic storage solutions

- Traveling operator podium and control panel on loading carriage
- Ergonomic working height
- Elements easy to move
- Easy to operate

## Customized equipment

- Setup and distribution trolley
- Swiveling top guide for element picking
- Overhead crane cross rail
- Extension of floor guide for a wall magazine for element picking
- Loading carriage
- Upright store
- Standing storage system with wall trolley
- Standing storage system on roller conveyor
- Automatic wall package formation

# WEINMANN Engineering — Driven by your requirements

Customized solutions, the ability to deliver complete systems and over 25 years of experience in the planning and implementation of projects — these are the key elements that set WEINMANN Engineering apart from the competition.



"Our requirements were taken seriously right from the start, and our two companies quickly established a partnership based on trust. For WEINMANN, the product quality of their own machines is just as important as the quality of the customer's final product."

Roland Suter, Hartl Haus GmbH, Austria



## Understand

A project is the beginning of a long relationship. To make sure that this relationship thrives in the long term, we want to understand what's important to our customers. When we understand what you need, we give our full commitment to helping you achieve it and to securing your success.

"What we're interested in is the individual requirements of our customers, and regional influences play an important role. It is always very exciting to see these requirements turned into reality."

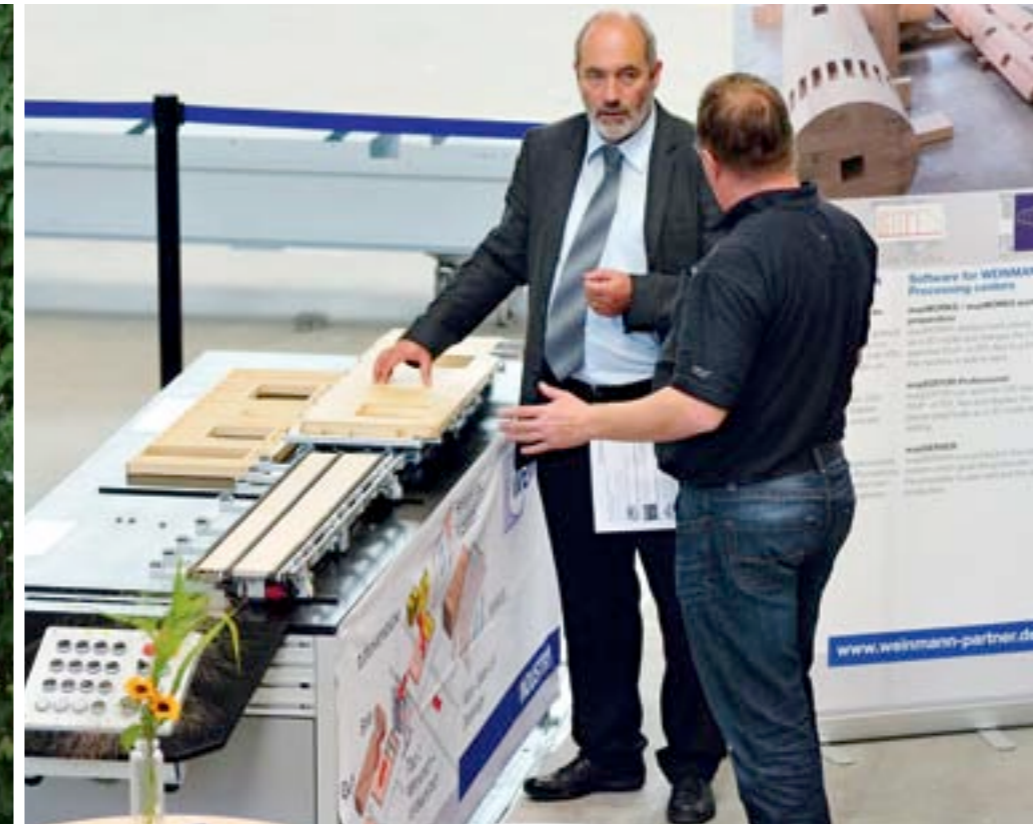
*Ingo Krieg, Project Manager at WEINMANN*

## Trust

The trust placed in us by our customers is at the very heart of what we do. This trust is what we work to earn each day. We treat each project as if it were our own. This is how we find the solutions we need to improve every day.

"For me, it's important to understand the objectives behind the project and what the customer wants to achieve. Developing this level of understanding fosters strong relationships with customers that continue long after the project is complete."

*Jochen Windhösel, Project Manager at WEINMANN*



## Deliver

We don't consider a project to be complete until all those involved in the project have achieved their planned objectives. Through intensive dialog with our customers, we ensure that time, cost and performance targets are met.

"When we're working on a project, my main focus is the technical details. Because these details are what will ultimately make the project a success."

*Jörg Groß, Head of Project Team at WEINMANN*



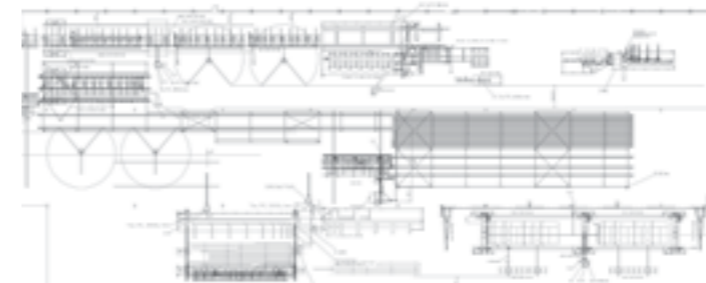
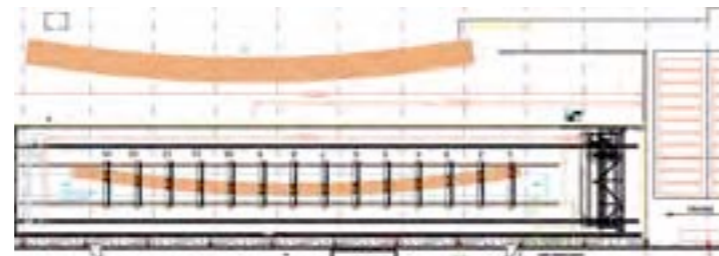
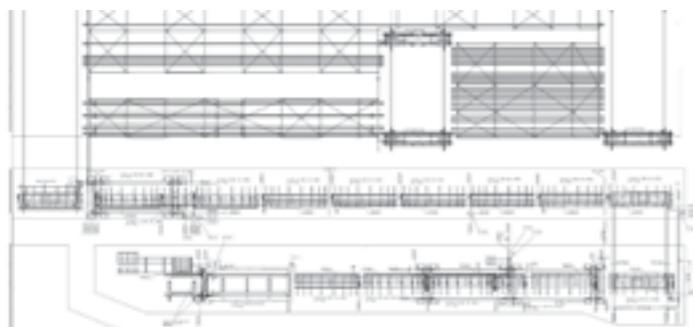
# WEINMANN Engineering — Driven by your requirements

From the initial discussions through to completion of the project, the project manager is your personal contact and works with you to take the project to a successful conclusion. With more than 10 years' experience in the timber work industry on average, the WEINMANN project engineers have the expertise needed to handle your project perfectly from start to finish.



The WEINMANN production plant allows us to make considerable cost savings — not only by reducing our material waste and utilizing purchasing discounts, but also because we can achieve a faster assembly time. The system has also significantly increased the quality of our products.

Reza Nasserri, Landmark Building Solutions Inc., Canada



## CCG, UK

Redesign of an entire house production system. All systems supplied by the HOMAG Group:

- WEINMANN WBS 120 beam processing machine
- HOLZMA HPP panel saw
- WEINMANN wall line incl. finishing lanes
- WEINMANN butterfly turning table for roof and floor elements

The production line is controlled via HSB software. The entire project was completed within a period of just nine months.

## Stephan Holzbau, Germany

Development of a production concept for effective, fully automatic CNC machining of BSH components up to 50 m in length:

- WEINMANN solid wood portal WMP
- Integration of underfloor processing and deep hole drilling system
- Design is also suitable for processing glued laminated timber panels
- CAD/CAM control via BTL format

## Landmark, Canada

Planning of a new house production system with a capacity of up to 80 houses per month. The special wall construction and the Canadian building regulations played a key role in this project. The system comprises:

- WEINMANN carpentry machines WBS and WBZ
- WEINMANN wall line for elements up to 12 m in length and 3.20 m in width
- WEINMANN floor line for elements up to 13 m in length and 3.20 m in width
- HOLZMA panel saw HPP
- HOMAG kitchen production

## Birkeland, Norway

Design of a fully automatic production island for reinforcing and cutting I-beams and solid wood:

- WEINMANN carpentry machine WBZ 160
- Fully automatic destacking and feeding of material to machine or reinforcement station
- Performance of up to 8m/min
- Fully automatic stacking and destacking
- Specially developed cell control for optimized material output

Only one operator required to operate the entire plant, including the manual reinforcement station.

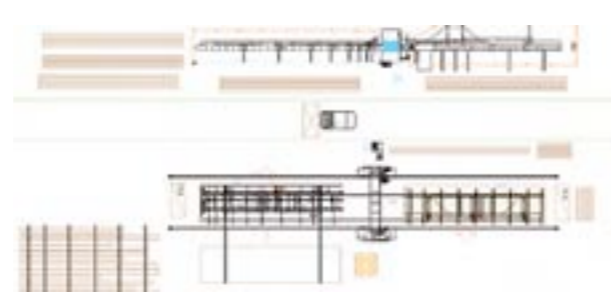
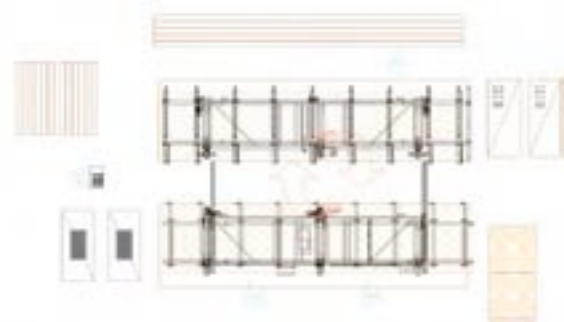
# WEINMANN Engineering — Driven by your requirements

All timber work companies have their own specific requirements and individual needs. We work with you to find the right solution for your company and your products. All our machines and systems are based on a modular design, which enables us to respond rapidly and with the highest levels of flexibility to changes in the market — so that your company has the flexibility it needs to adapt to the demands of the timber work industry.



"I have rarely encountered a supplier with whom the cooperation has worked so professionally and in a spirit of partnership from the very beginning. Within just a few months, together we were able to guide our prefabricated housing production, which was previously purely manual, almost seamlessly into a new era."

Richard Schinagl, Friedl Holzbau GmbH, Germany



© Werner Lang



## Butterfly turning table

- Capacity: up to 30 houses/year
- Staff requirement: 1-2 employees
- Space requirements: 12x7 m

## Compact system

- Capacity: 50–70 houses/year
- Staff requirement: 3-4 employees
- Space requirements: 34x9 m

## Three-table solution

- Capacity: up to 150 houses/year
- Staff requirement: 4-5 employees
- Space requirements: 34x11 m

## Industrial production

- Capacity tailored to customer requirements
- Different system designs available; can be planned specifically for the customer
- Examples include wall production lines or roof and floor production

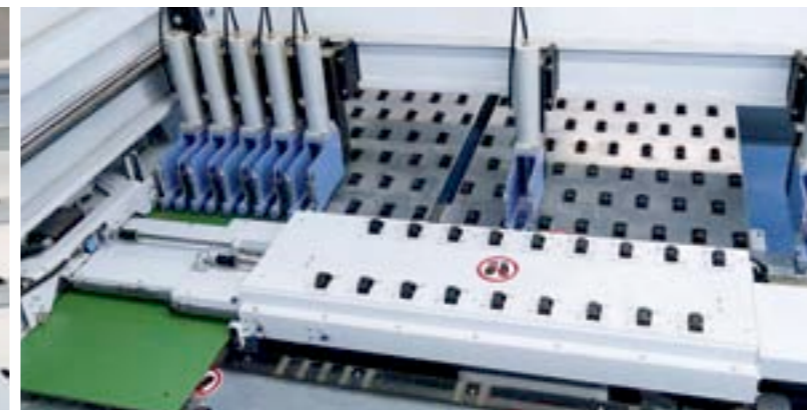
# Ergonomic, reliable, fast: HOLZMA HPP 300 saw

HOLZMA panel dividing saws have a number of key benefits: they separate panels automatically, efficiently and quickly. Horizontal saws are more ergonomic for the operator — heavy parts are also easy to handle. In addition, HOLZMA offers a wide range of solutions for automatic feeding and labeling, as well as intelligent destacking systems — for even greater structure and productivity in your processes. Ideal for timber work: HPP 300 and HPP 300 profiLine.



## TBP 210 feeding system — protects your material and saves space

The TBP 210 further increases efficiency and flexibility in your cutting processes. It quickly and automatically feeds panels to the panel dividing saw without damaging the material. The machine takes a panel from the storage unit adjacent to or behind the saw, turns it if required, and then places it in the saw. Fully automatic.



## Intelligent software

HOLZMA developed the CADmatic machine control system decades ago. The system is easy to understand, easy to operate and available in a number of different languages.

- 3D real-time process graphics
- Touchscreen
- Material-dependent parameters — configure the machine to the material to be processed with just the push of a button (optional feature)
- CADplan — for saw optimization (optional feature)

HOLZMA has also developed its own optimization program, Cut Rite, enabling you to achieve maximum panel utilization, generate minimal waste and save money.

- Cutting patterns transferred to saw online
- Full cost control, fast calculation
- Cost or waste optimization available as an option
- Parts individually identified
- Plan gable cuts to be made at a later stage of processing when programming the initial cut

## HPP 300 multiTec

This saw does more than just cut — it also drills and trims.



## Recommended equipment for timber work applications

- Plaster package for plaster and Fermacell panels
- Cut-out function for windows and doors
- Labeling (manual or automatic) for accurate identification of parts
- Angle cut function (manual or automatic), for example for gable or bevel cuts

- Laser guide beam for working with solid wood
- Package cut function
- Feeding from the front or either semi or fully automatically from the rear via lifting table (HPL or Easy2Feed) or saw-storage combination. Recommended in particular for applications involving

- large, heavy parts or a wide range of different materials
- Destacking concept: prevents errors, ensures that processes are structured and flowing, guides the operator
- Table with polydirectional rollers
- Turbo grooving
- dustEx for even better suction



# WEEKE CNC Venture 230 processing center

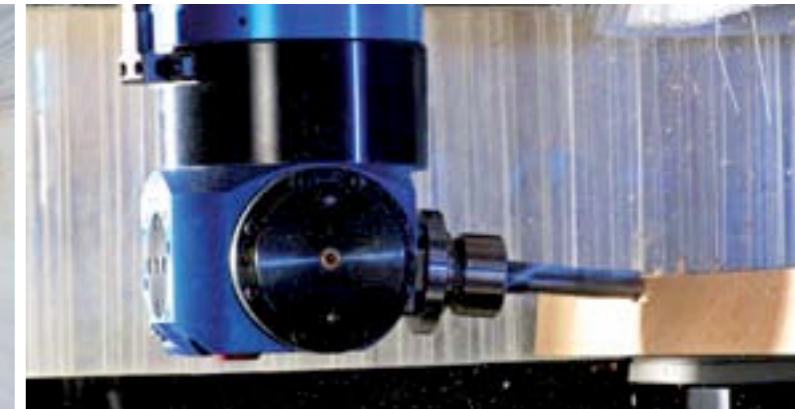
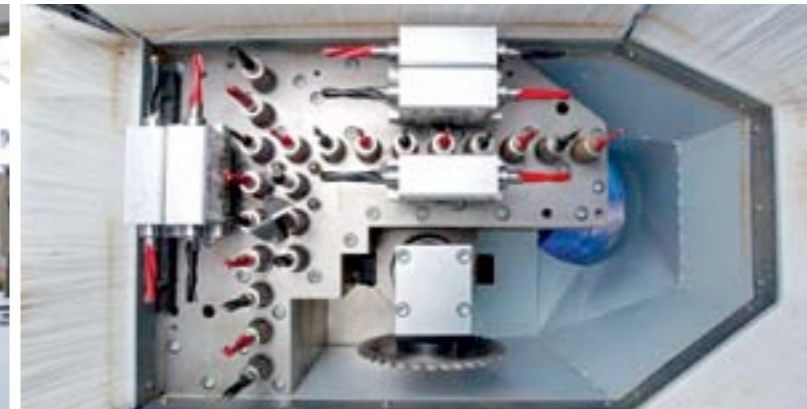
WEEKE CNC processing centers are characterized by a high level of standard equipment, safety, quality, and the latest technology, at an excellent price-performance ratio. The Venture 230 is a powerful combination of these strengths and provides timber work customers with all the equipment they need for drilling, trimming and sawing.



## ecoPlus — Energy saving function

Sustainability and conserving energy are important issues for companies all over the world. For many years, the HOMAG Group has been prioritizing these issues in the development of its products.

- Easy activation of standby mode
- Vacuum pump can be turned off (reducing energy consumption by up to 12%)
- Reduction of compressed air usage (reducing energy consumption by up to 6%)



## Technical highlights

- LED positioning system
- 31 Drill spindles (High Speed 7500)
- Interpolating C-axis
- 28 Tool change slots
- FLEX5 | FLEX5+ interface
- Two CNC-controlled Z-axes
- Automatic spindle clamping

- Patented drill quick-change system for vertical spindles
- Powerful 12 kW trimming spindle
- Bracket table with tubeless vacuum clamping system
- Electronic monitoring of all stop cylinders

## Areas of application

- Doors
- Windows
- Roof window lining
- Cabinets
- Interior fittings
- Stairs
- Renovations

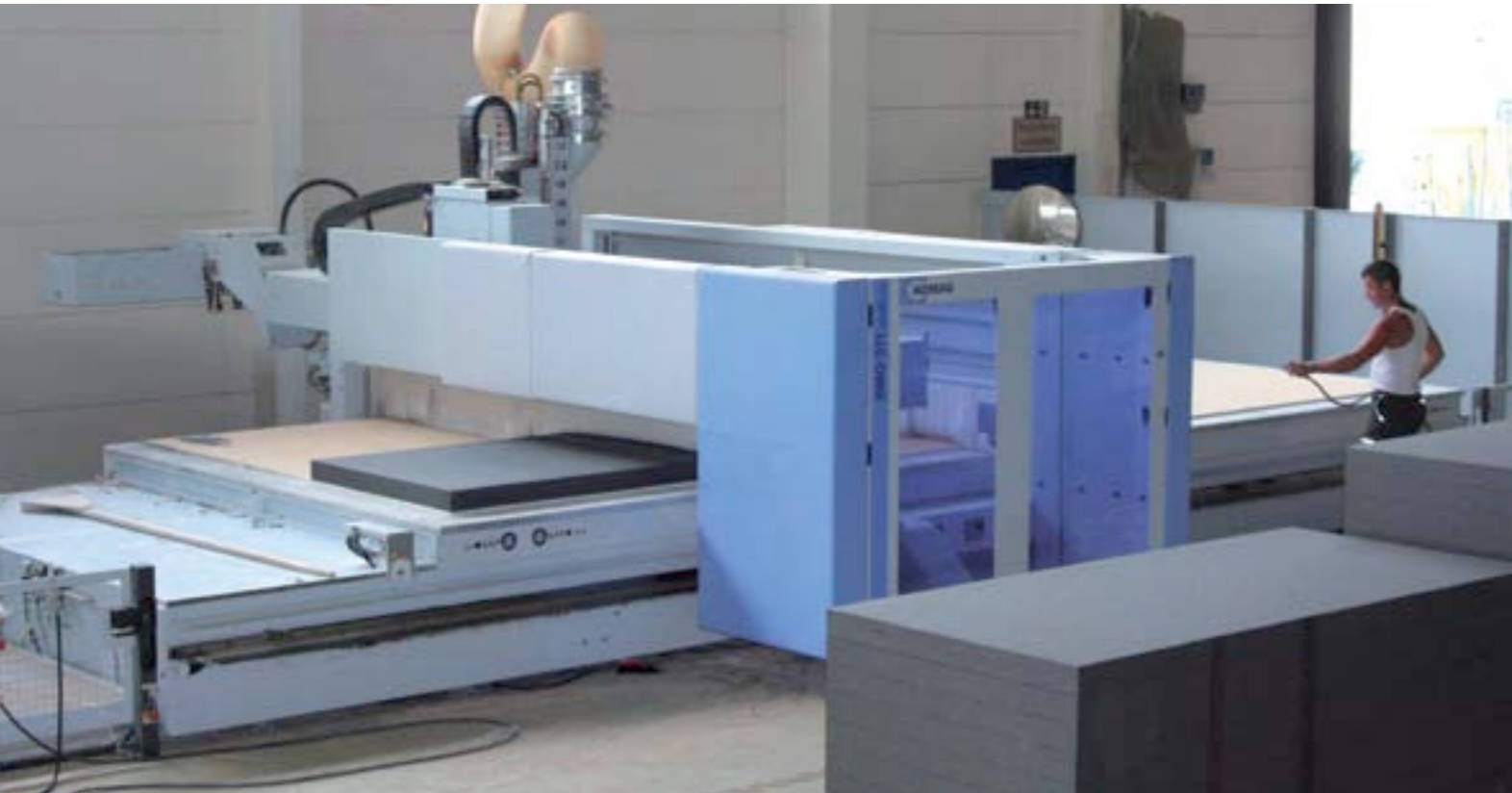
# Doors, staircases, windows and more: HOMAG CNC BMG 500/600 processing center

The BMG 500/600 processing centers can be customized to suit your individual needs. For doors, staircases, windows and facades, we design an individual solution that can handle all of your production tasks. And you'll see the benefits in your results: high-quality workpieces produced to an exceptional level of precision.



"Our HOMAG BMG 511 5-axis processing center enables us to process facade panels, insulation elements and attachments even more efficiently. The quantum leap for us is that we can now combine different process steps. For example, we're now processing facade panels in just one sixth of the time we needed before — and we've improved the quality of the final product too."

Markus Leppin, Regnauer Fertigung GmbH & Co. KG, Germany



## Highly flexible

- Panels for table elements and facades
- Interior fittings and furniture
- Windows and doors
- Stairs

## A system for quality

- Machine bed made from vibration-absorbing SORB TECH mineral composite material
- Sliding gantry with drive on both sides
- **safeScan** safety concept for contactless monitoring and maximum feed
- Dynamic pendulum field for optimal table assignment
- Integrated software solutions for programming and operation

## Scalable performance

- Processing height of up to 500 mm
- Up to 3 processing units on separate Z-axes
- Tool change system with up to 99 slots
- Automatic parts handling — expandable to fully automatic production cell

## High performance with HOMAG unit technology

- Powerful 4 and 5-axis spindles with unit interface
- Spindle sensor to protect against overload and imbalance
- Encoder feedback for vector speed control — for full torque from machine standstill
- High-speed drill technology with spindle clamp and tool-free quick-change system

## The right table for any task

- Bracket table with LED or laser positioning aid
- Automatic table setup
- Aluminum grid table
- Range of clamping equipment with variable clamping heights

# SCHULER Consulting

## Lean production in timber work



Efficiently optimize workstations and processes in four days: that is the goal! The machinery and equipment are good, but actually using them efficiently is key. How much time is wasted each day on searching, asking questions, resorting, fetching carriages and materials or walking from machine to machine? In short workshops with our SCHULER coach, your team will learn to eliminate this wastage independently. After carrying out a detailed analysis of the current situation, participants determine what the target situation should be. Based on this vision, your employees develop their own solutions to make the required improvements. After two to four days, the team will have implemented most of the changes in one working area and they then present the improvements to the management team. And this solution works for all companies – not just Baufritz! It is easier to get a team engaged with changes if they develop the solutions themselves. Involving employees boosts motivation for everyone in the company, across the production team and stretching back to work preparation. You will be amazed at the savings you can make – and it's the little details and interfaces that make the crucial difference.



"In my 30 years as a Managing Director at Baufritz, the "Lean project" has been the project I've enjoyed the most. It was great to see how the enormous potential within our team came to the surface during this project. I wouldn't have been able to do it alone."

Helmut Holl, Baufritz GmbH & Co. KG, Germany



Before



After

### Process

- Workshops for employees to analyze activities and problems in the workplace
- Direct implementation of improvements and solutions in the workplace
- Documentation of the new workflows and optimized processes
- Your employees present the tried-and-tested solutions to the management team.

### Results

- Although each improvement looked at in isolation may appear simple—for example, keeping tools within easy reach, having materials prepared and ready for use and keeping travel routes short—their combined effect is significant
- Employees are more motivated as it is their own solutions that they are implementing
- This structure results in mini projects that are completed within a four-day timeframe
- You don't need to wait long to see the results of the improvements — you will notice improvements in the efficiency of your processes as soon as the changes are implemented
- You won't needlessly collect 100 general ideas that will never come to fruition — this approach is designed to analyze, optimize and improve a specific area. And that's fun.

www.SCHULER-Consulting.com

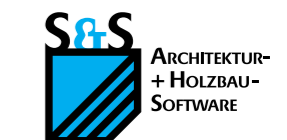
## Overview of partners

Our motto is "Building Trust" — so we value our working relationships with suppliers and project partners. To make it easier for you to find the right contacts for fastening units and CAD systems, here are some companies that specialize in these areas.

### Fastening unit manufacturers



### CAD manufacturers



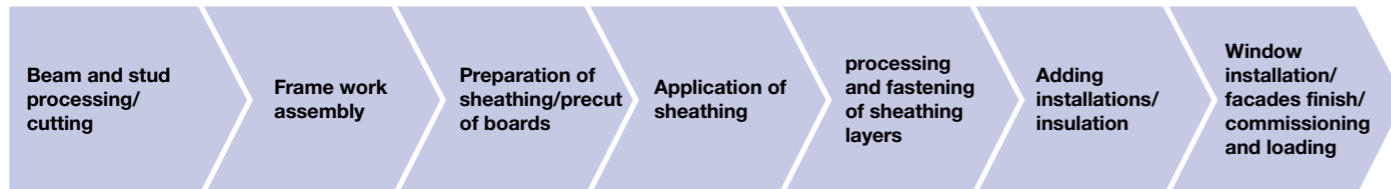
# WEINMANN machines at a glance

All machines from the WEINMANN range meet the highest standards in terms of quality, performance and reliability. However, the machines feature a range of different technologies and also differ in design -- so we have provided an overview of the key technical data below.



"In a world that is characterized by mass production, the demand for quantity, quality and design is ever-increasing. Thanks to our new WBS 140, which is tailored precisely to our needs, we can make significant improvements in our production process in terms of quality and design, ensuring that our customers are extremely satisfied."

Christian Hess, Holzbau Hess CC, Namibia



## House construction process chain

Machine type	WBS/WBZ	WEM	WEK	WTV/WTZ	WTW/WTD	WMS	WMP	WHP	WHM	WLW	WLV
<b>Workpiece dimensions</b>											
<b>Element types</b>	Beams	Wall elements		Wall, roof and floor elements		Wall, roof and floor elements	Solid wood and sandwich elements	Beams and boards	Windows and doors Beams and boards	Wall elements	
<b>min. length</b>	1,0 m   3'3"	2,0 m   6'6"	2,0 m   6'6"	0,4 m   1'4"	2,0 m   6'6"	-	-	-	0,7 m   2'4"	-	2,0 m   6'6"
<b>max. length</b>	6,1 m   20' 13,2 m   40'	6 m   20' 8 m   26' 10 m   33' 12 m   40'	6 m   20' 8 m   26' 10 m   33' 12 m   40'	6 m   20' 8 m   26' 10 m   33' 12 m   40'	6 m   20' 8 m   26' 10 m   33' 12 m   40'	> 70 m   > 230'	> 70 m   > 230'	2,5 m   8'2"	2,5 m   8'2"	project-specific	6 m   20' 8 m   26' 10 m   33' 12 m   40'
<b>Special lengths of up to</b>	30 m   98'5"	30 m   98'5"	30 m   98'5"	30 m   98'5"	30 m   98'5"	-	-	-	-   8'2"	-	-
<b>min. width</b>	50 mm   2"	1,2 m   4' 1,5 m   5'	1,2 m   4' 1,5 m   5'	0,4 m   1'4"	1,2 m   4'	-	-	-	-	75 mm   3"	1,2 m   4'
<b>max. width</b>	455 mm   18"	up to 3,2 m   10'6" up to 3,8 m   12'6"	up to 3,2 m   10'6" up to 3,8 m   12'6"	up to 3,2 m   10'6" up to 3,8 m   12'6"	up to 3,2 m   10'6" up to 3,8 m   12'6"	up to 3,2 m   10'6" up to 3,8 m   12'6"	5,6 m   18.4'	2,0 m   6'7"	-	500 mm   20"	3,2 m   10'6"
<b>Special widths of up to</b>	-	4,5 m   15'	4,5 m   15'	4,5 m   15'	4,5 m   15'	-	-	-	-	-	4,2 m   14'
<b>min. height</b>	20 mm   1"	75 mm   3"	75 mm   3"	75 mm   3"	75 mm   3"	-	-	-	0,7 m   2'4"	-	75 mm   3"
<b>max. height</b>	200 mm   8"	200 mm   8" 300 mm   12"	200 mm   8" 300 mm   12"	500 mm   20"	500 mm   20"	500 mm   20"	300 mm   14"	-	2,5 m   8'2"	3,2 m   10'6"	500 mm   20"
<b>Special heights of up to</b>	-	up to 350 mm   14"	up to 350 mm   14"	-	-	-	-	-	-	4,2 m   14'	-
<b>max. element weight</b>	750 kg   1650 lb.	1500 kg   3300 lb.	1500 kg   3300 lb.	3500 kg   7700 lb. extra up to 5 to 11000 lb.	3500 kg   7700 lb. extra up to 5 to 11000 lb.	-	-	85 kg   187 lb. 1000 kg   2200 lb.	300 kg   660 lb.	3500 kg   7700 lb.	3500 kg   7700 lb.
<b>Machine dimensions (depending on equipment)</b>											
<b>Length</b>	18,4 m   61' 32,6 m   107'	min. 14,5 m   47'7" max. 28,4 m   93'2"	min. 12,4 m   40'8" max. 28,4 m   93'2"	min. 6,2 m   20'4" max. 12,4 m   40'8"	min. 6,2 m   20'4" max. 12,4 m   40'8"	3,4 m   11'2"	4,1 m   13'6"	max. 40 m   131'	max. 40 m   131'	project-specific	min. 6,2 m   20'4" max. 12,4 m   40'8"
<b>Width</b>	4,2 m   14' 5,2 m   17'	min. 5,7 m   18'8" max. 5,9 m   19'4"	min. 6,5 m   21'4" max. 9,2   30'2"	min. 3,4 m   11'2" max. 4,0 m   13'2"	min. 3,4 m   11'2" max. 4,0 m   13'2"	6,4 m   21'	9,0 m   26'7"	max. 40 m   131'	max. 40 m   131'	project-specific	3,4 m   11'2"
<b>Height</b>	2,9 m   9'6"	3,4 m   11'2"	3,4 m   11'2"	1,2 m   4'	1,2 m   4'	3,4 m   11'2"	4,15 m   13'8"	project-specific	3,5 m   11'6"	4,5 m   15'	3,5 m   11'6"



WBS 140/13



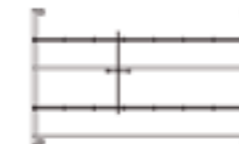
WEM 100/12



WTV 110/12



WMS 120



WHP 100



WLW 100/12 R



WBZ 160/13



WEK 100/12



WTW 110/12



WMP 240



WHM 100/14 DK



WLV 100/12

# Software – The foundations for efficient production

Software is becoming an increasingly important factor in the use of machines. Simple and ergonomic operating concepts mean that little training is required. We develop all work preparation and machine software entirely within the HOMAG Group, enabling us to ensure that the product meets your requirements and communication chains are kept short. So you benefit from powerful software modules that are optimally tailored to your machine.



"We're really impressed with the new powerTouch control technology. Operation via the large touchscreen monitor is not only extremely easy, but also guides the machine operator with a range of new help features and wizards."

Hans Volker Noller, Fertighaus Weiss GmbH, Germany



## The advantages at a glance

- One software package for all machines
- Uniform operation of each WEINMANN machine
- Exceptionally user-friendly
- Easy to understand programs with a simple structure
- Software in your local language
- Complete solutions for the integration of the machine into the manufacturing process
- Coordinated modules
- Modern software architecture
- Free software updates



### wupWorks

The wupWorks software automatically converts WUP/BTL files created in a CAD program to CNC programs, allowing the operator to operate the machine without manual intervention.

The files are displayed graphically as 3D models, and several optimization cycles ensure outstanding results.

The software also selects the correct tools automatically.

- Processing, tool, travel path and material optimization
- Filters out specific components, such as prefabricated beams or dunnage bars
- Utilizes remaining wood by filling space with standard components, such as lintels or spandrel beams, to prevent wastage
- Supports user profiles for individual processing strategies
- Generates a wide range of lists (wood list, planned production orders, parts list, production history, etc.)



### Tool database

The software is used to maintain all tool data, including dimensions, collision dimensions and permitted speeds. A graphical user interface supports the user during data entry, allowing the machine software to select the right tools for the task at hand.

### wupWorks AV/Wx

The wupWorks work preparation software allows you to start optimizing production orders before production even gets under way. The software creates timed simulations to help you determine processing times, enabling you to provide a more accurate quotation and check data more closely, as well as optimize the design at the work preparation stage. The software can generate unprocessed timber lists and automatically match tooling between the machine and the office.

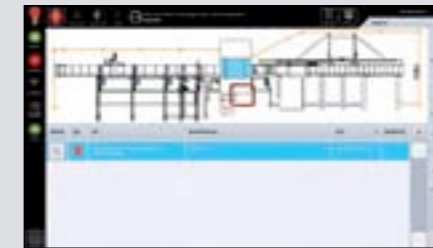
- Less machine downtime thanks to elimination of data record optimization
- Shortening of machine throughput times



### wupEditor Basic & Professional

In wupEditor, you can read a Wup or BTL file generated in a CAD program, convert it into a drawing and then edit this drawing. In addition, you can use macros to quickly and easily create or complete components and transfer components straight into wupWorks — without using a CAD system.

- Simple data checking
- Quickly adapt and expand components produced in a CAD program
- Easily create complete components using macro functions
- Create your own macro functions
- Minimal downtime during production; adjust the component directly at the machine
- Graphical 3D display



### woodScout

The woodScout diagnostic system displays warnings and errors for diagnostic purposes. The program enables systematic troubleshooting, which increases machine availability. You can also add your own comments to the expert information displayed. The integrated machine documentation automatically opens at the correct location for the fault description in question. The program provides information in a simple and user-friendly way, enabling the operator to resolve faults quickly and independently.

- Displays faults and warnings
- Quick and easy diagnosis and troubleshooting
- Reduces machine downtime



### MMR Basic, Professional & Office

The software module MMR (Machine Monitoring & Reporting) records all production data so that this information can then be evaluated centrally in the office. The software logs a wide range of important data, including the number of workpieces produced and the run time of the machine. The usage-dependent maintenance instructions ensure that the right maintenance is carried out at the right time.

- Manual recording option when machine is in standby mode
- Necessary service work is displayed as required in maintenance messages
- Logging and evaluation of shifts
- Analysis of key figures as day and shift values and via the machine operation counter
- Graphical analysis of machine status in intervals and in Pareto charts, Gantt charts and line graphs
- Error analysis of error messages on the machine
- Option to connect to MMR Office to analyze data centrally in the office

# Service — Always at your side

Customer satisfaction is our top priority. That is why we strive to provide a fast service, deliver replacement parts quickly and offer services that are tailored to your requirements. Being on the spot quickly when you need us—wherever you are in the world—is one of our core competencies. Thanks to our outstanding service network, which covers over 70 countries on all continents, a specialist from WEINMANN or the HOMAG Group is never far away.



"The service is fast and reliable, and spare parts are delivered on time. Also, WEINMANN stays in touch with its customers to consistently implement improvements."

Josef Wicki, Wicki Holzbau AG, Switzerland

## Financing & leasing



HOMAG Finance develops financing concepts that are exactly tailored to your specific needs. You benefit from professional advice and **quick and unbureaucratic processes**. Together with our partners, we provide you with competent and reliable support at every stage. You also have flexibility — both in the choice of the contract model and the contract term. This means that you are still able to act in **financial matters, and** your equity position is protected. As a customer, you will have a contact person who will take care of the whole process. This saves time and reduces the administrative burden, allowing you to concentrate on your actual business.

## Training



To meet high standards, you need to be highly qualified. Imagine how much potential remains untapped if no-one knows how a plant full of automatic machinery actually works. We can bridge any gaps in your team's knowledge with our modern approach to training, our outstanding technical equipment for **theoretical and hands-on seminars** and our experienced trainers. Our trainers all have practical experience in the fields in which they work, and are keen to share their knowledge of mechanical engineering, timber work and system applications. They work with you to develop **targeted solutions for work preparation and logistics**. In addition, our trainers will guide you through **machine operation and** maintenance. Our application engineers can provide advice on all interfaces, from CAD through to the finished product.

## Production assistance



In addition to training at WEINMANN, we can also offer production support on site. Our specialists support you during the startup phase, ensuring that your process runs smoothly. We can also provide production support at a later stage in the process, which will help to identify potential areas for improvement and **optimize your** processes. Our support is of particular benefit where changes are being made to existing production processes or product requirements. Our **specialists** all have practical experience and offer helpful tips based on their own comprehensive knowledge and experience.

## On-site service



**Close proximity to customers and availability for customers** are the core elements of a service fully tailored to your needs. We offer both — **wherever you are in the world**. We are the perfect partner for installation, commissioning, maintenance, repair and inspection tasks, and can support you on-site during the startup phase of production if required. Our in-house specialists from our Service Center are available for you around the world. As part of the HOMAG Group, we are supported by 22 HOMAG Group sales and service companies. You can call on the support of a dedicated contact who speaks your language **at any time**.

## Spare parts



Our decentralized spare parts inventory and customer-specific spare parts and wear parts ranges improve parts availability and minimize downtime. Our employees provide you with competent, helpful advice on all your spare parts requests. We create a **spare and wear parts package** for each machine to summarize all key components for you. We can draw on the services of our sales companies and sales partners, as well as all manufacturing companies in the HOMAG Group, for spare parts logistics, guaranteeing a **high level of series parts availability**. We provide machine-specific spare part recommendation lists to help you source parts in your local area, ensuring that you benefit from the highest levels of availability even for commissioned parts produced especially for customer-specific solutions.

## Remote service



Each WEINMANN CNC machine is delivered fully enabled for remote maintenance. More than 85% of service incidents can be resolved immediately via remote diagnostics without needing to send a service engineer to the site. To carry out remote maintenance, our Service Center establishes an **online connection** to the machine computer. Through this connection, your machine can **be controlled and diagnosed remotely** via TeleServiceNet — with access to exactly the same options as the operator on site. The process can even take place during production. Services carried out during remote maintenance can include program changes, updates for new developments or the backup of data on your machine. The service prevents unnecessary downtime and reduces service costs. It also means that we can support your operators and maintenance teams at any time. Our service team is available to support all customers, **providing a rapid and expert** response.



A HOMAG Group company



Videos:  
[www.youtube.com/WEINMANNHolzbau](http://www.youtube.com/WEINMANNHolzbau)



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