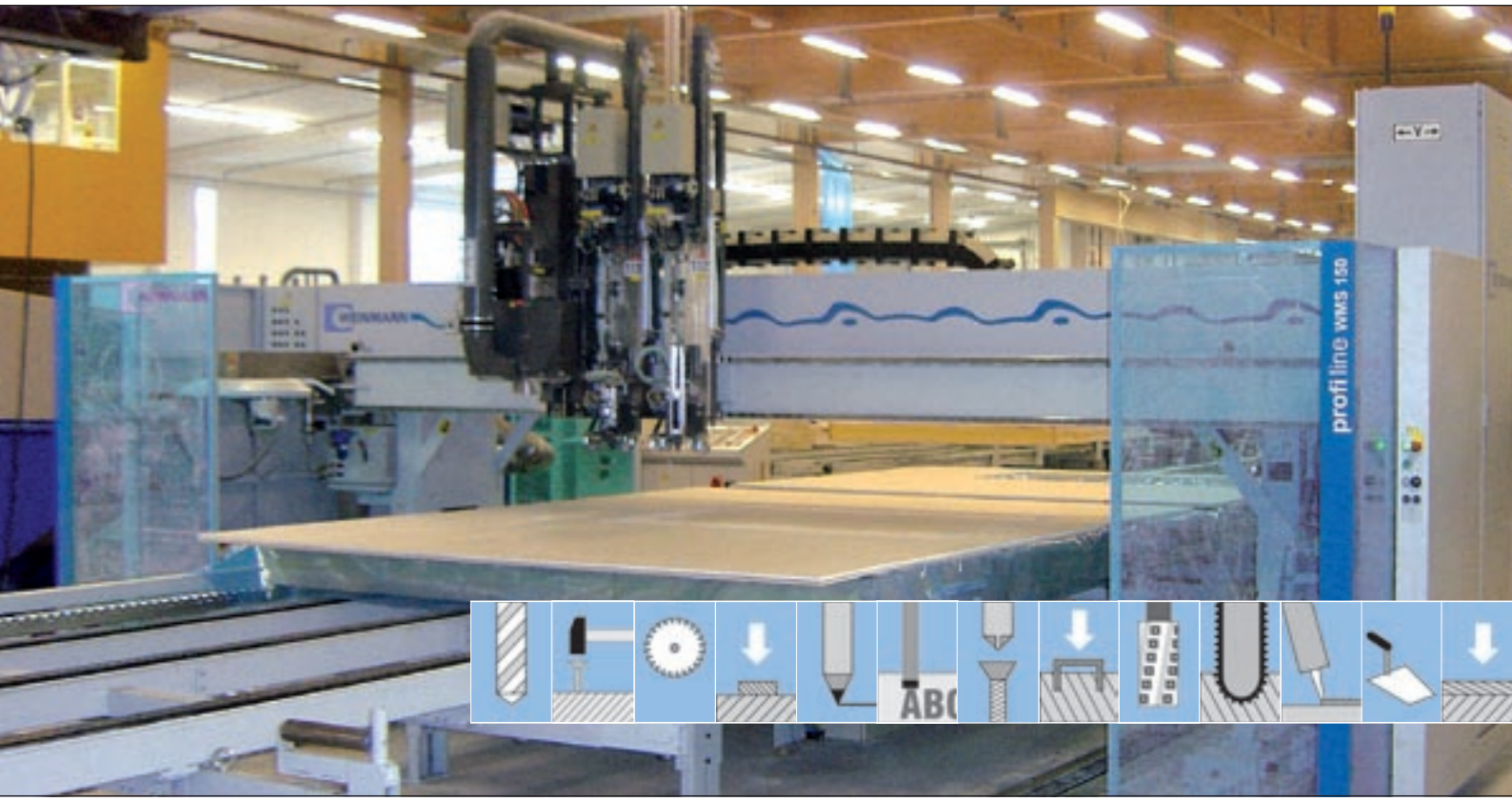
WEINMANN

Multi-function bridge WMS - your bridge to success



Optimat I **profi** line I **power** line

WMS multi-function bridge

The system WMS...

Weinmann - Your specialist for innovative solutions in the construction of timber houses
Our company's prime objective is solid and enduring partnership with our customers. Weinmann, in its capacity of a service partner, offers the full product range for economical, efficient and accurate production. Thorough, in-depth counselling forms the basis for successful cooperation. Benefit from our experience for over 20 years' standing in working with building material from the sector of timber house construction. Whether you are looking for solutions for small, medium-size or large carpentry workshops or whether comprehensive solutions for fully automatic production plant are required. Our action is geared to the individual objectives you specify.

Utility and profit - optimization with Weinmann
Each and every form of cooperation is preceded by optimal counselling with the objective of finding a solution for you with realistic and demonstrable utility and profit. The system solutions we offer mean that you benefit several times over. Our solutions are tailored to your requirements and your investment in one of our machines is an investment in your secured future. Production capacity can be increased economically without any difficulty and quickly leads to success. No reorientation or extra training is needed because the software connection is the same on all our machines.

Progress through innovation...
because the multi-function bridge is versatile and individually expansible. Permits new applications such as working solid wood, the use of new glueing methods or automatic application of plaster.

Competence and technology...
factors guaranteeing your success
Technology made by Weinmann
for the multi-functional bridge has proved itself to be mature, dependable and trend-setting, as you are accustomed

The design...
real German craftsmanship
The station is a stable steel profile construction that holds the unit support. It is possible to attach various aggregates at any time to expand performance levels. An adaptation to your growth in turnover is therefore immediately possible.

... a flexible system to meet tomorrow´s demands

Optimats	Profiline
Standard solutions optimised for cost for your universal applications	Modular machine components, which you can put together for your needs/requirements. (customized machinery)

WMS 100	WMS 110	WMS 120	WMS 150	WMS 160	WMS 170
Machine for special requirements, e.g. fastening and processing	The fastest machine for fastening	The most flexible machine, equipped with tool changer	Can be expanded with up to 6 aggregates for parallel processing, e.g. fastening or processing of solid wood	Specialist version for the processing of sandwich or SIP elements	Equipped for use as a plastering bridge for the application of base plaster or adhesive
2 aggregate carriers	Parallel nailing with 2 fastening devices.	12 tools with spindle +1 aggregate carrier for fastening tools	Up to 6 freely available units	12-fold tool changer and 20 kW spindle and special extraction	Aggregate unit to mount a spray nozzle

Producing walls
The future for automation in the manufacture of timber framed houses has begun. The multi-function bridge works efficiently and economically for automatically feeding, nailing, stapling or screwing sheating material and laths. Additional facilities may be provided for machining, window, and door openings as well as drilling or routing for sockets and wall outlets.

Producing roofs/ceilings
The multi-function bridge demonstrates its versatility also in the production of wall and ceiling panels. In the case of ceiling panels, laths are automatically taken from a magazine, fed, positioned and automatically fixed. That means for you new and cost efficient application ranges in the roof production.

The basic machine - ideal for production lines

WMS 100

The entry level into the future/CNC house building production
The WMS100 is the entry level machine into CNC house building production. Equipped with a fastening aggregate and a milling aggregate, almost all processes - nailing of panels, milling of window and door cut-outs, electric sockets and wall sockets - on a wall or ceiling panel are possible.

Stapling at up to 10 staples/sec

Sawing at max. approx. 30m/min

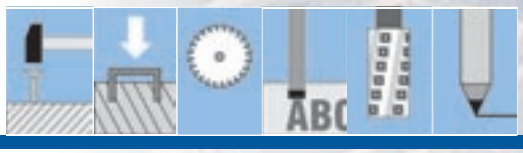
Main customer benefits are the reliability and simple operation of the machine. Irrespective of whether it is using a data set from the CD, or a data set generated by the WUP Editor on the machine, the transfer/further processing on the machine is dimensionally accurate and reliable.

Nailing at up to 8 nails/sec

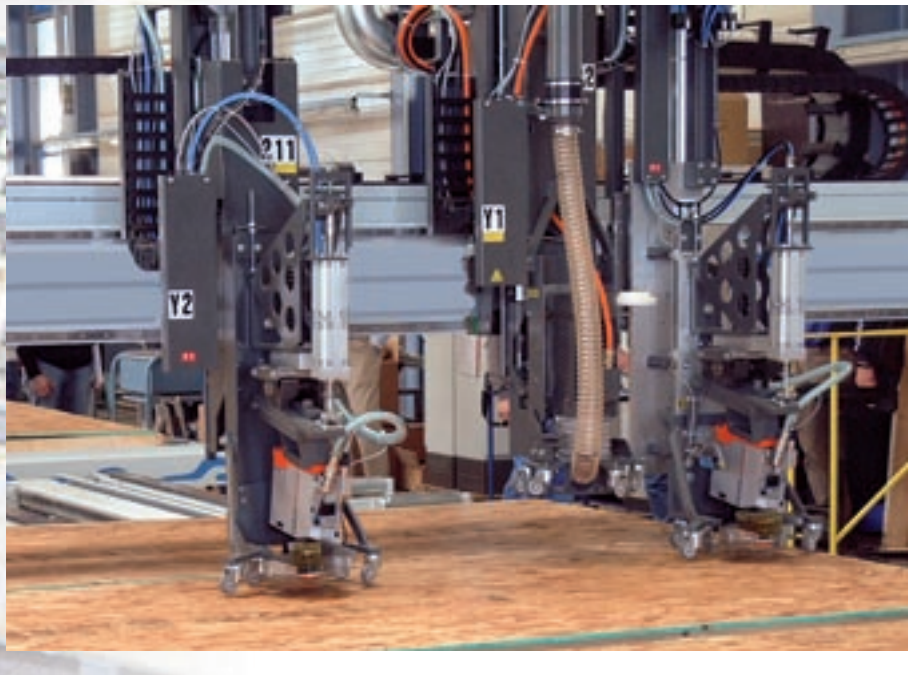
Milling at up to approx. 25m/min

Specialists for the best processing.
A further strength of the machine is its use in a production line. Here, it displays its speed and reliability and its individual equipment to meet your requirements.

Operation:
After the panel work has been inserted and aligned, and the planking panels have been positioned, the multi-function bridge moves over the panel and processes the planks with the aggregates on the bridge, stapling, nailing (different depending on specification).



WMS 110



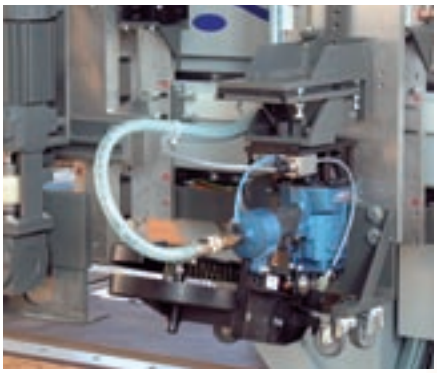
WMS110 The fastest multi-function bridge in the world
Equipped with 2 fasteners, the WMS 110 beats every speed requirement. 2 NC axes working in parallel, fitted with the fastening tools of your choice, make this advance over the competition possible. In addition, a further machining aggregate for milling, drilling or sawing and labeling can be used.

The universal machine - flexible for many requirements

WMS 120

The multi-function bridge WMS 120 - the system to meet tomorrow´s demands
Decision for the WMS-120 multi-function bridge is one for an all round talent. Whether for automatically nailing, stapling or screwing sheathing material and laths, or sawing and milling windows and door openings, drilling sockets and wall outlets, everything is fully automatic, optimized and exactly in line with the individual production processes.

Even more power from innovative ideas...
... as the multi-function bridge WMS 120 is a versatile allround talent and can be expanded to meet individual requirements. The additional tool changer means that the correct tool is always available to you fast. As the tool changer is fully automatic, setup times are reduced to a minimum and effectiveness is increased



Nailing with up to 8 nails/sec

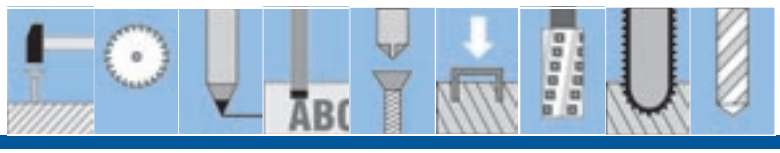
Sawing with the Flex 5

Marking/labelling with inkjet/colour pen or scriber

Sawing with up to approx. 350mm depth

Tool examples:
(left to right)

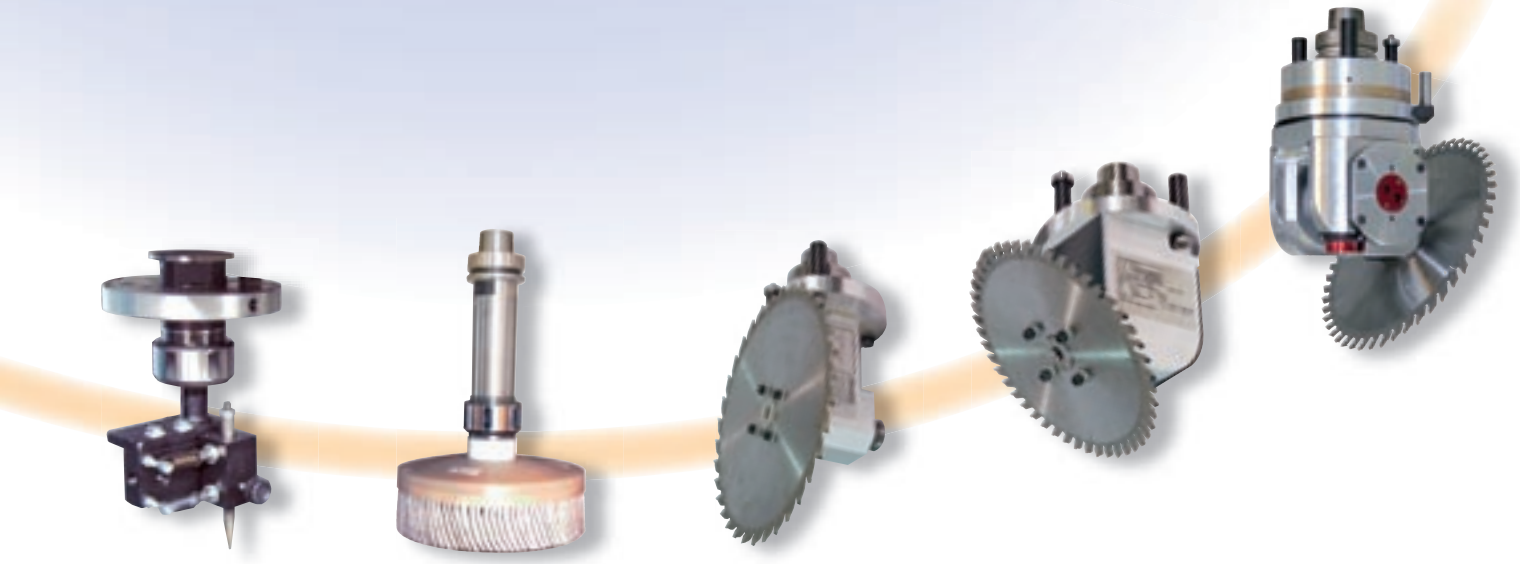
- finger router
- horizontal notching tool
- finger router
- drill-bit
- marking
- sanding
- 90° saw
- saw adjustable 0 - 90° (swiffle angle)
- Flex 5 head (5-axis processing)



Maximized multi-functionality

The optional tool magazine ensures the right tool is always available.

Advantages of the tool changer:
- reducing set-up time to a minimum
- numerous tooling options through its compact design
- 12 tool locations
- fully automatic tool change which allows additional tooling solutions to be added.



The individual solution - extendable for customer requirements

WMS 150

Stationary, yet versatile
the customized multi-function bridge. Next to the previously shown processings there are further innovative processings possible.
For example: automatic fedding with a vacuum lifter, placing laths and boarding with the Lattec option (see below). 4 devices allow different processings up to a width of 4,2 m!

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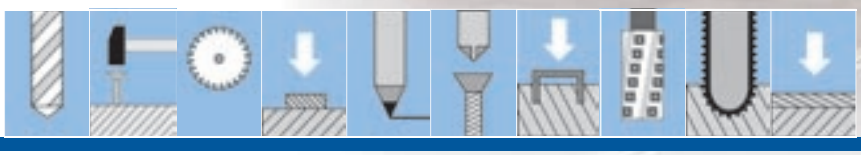
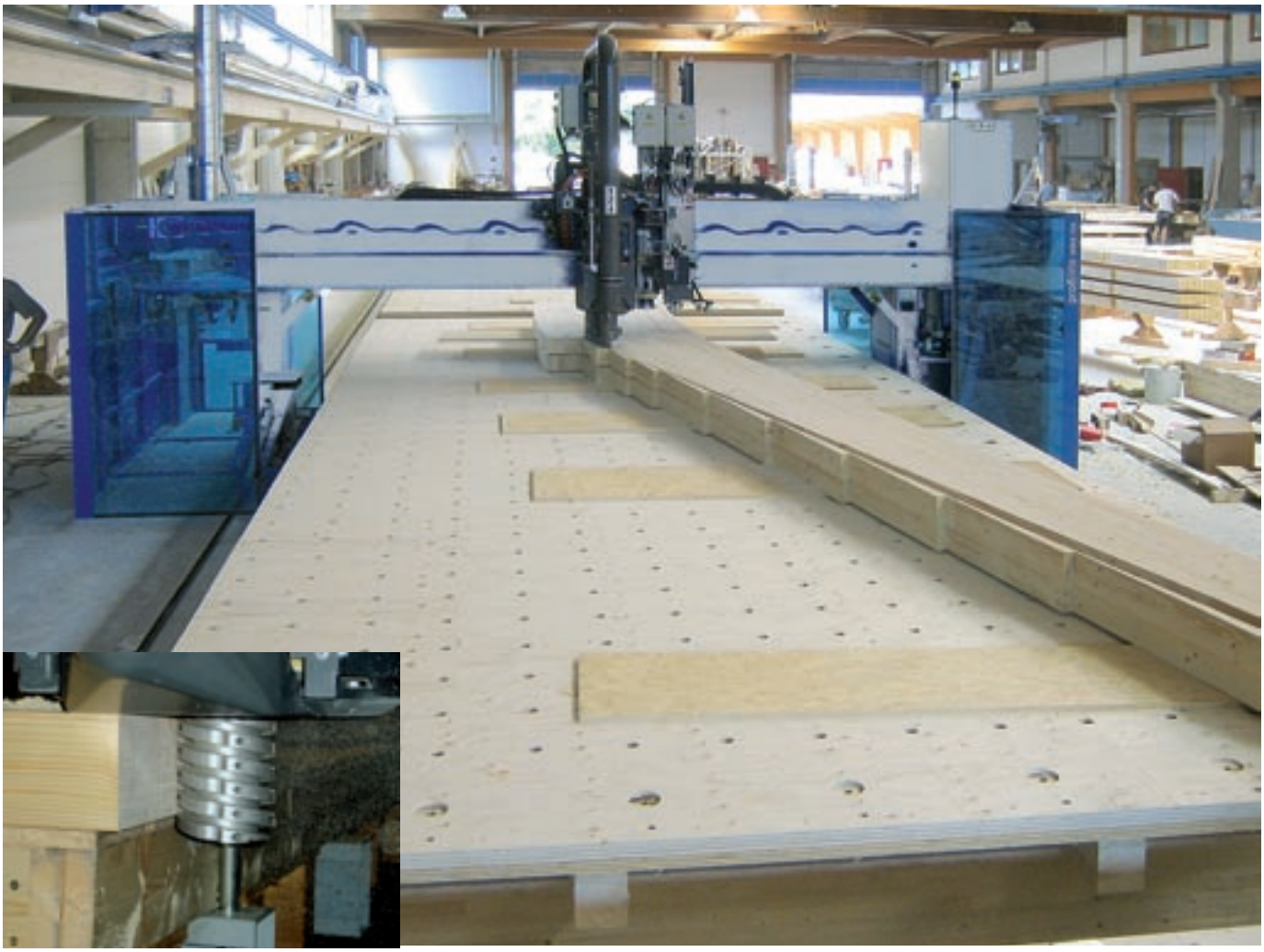
WMS 150 pure innovation - Multi-function bridge with Lattec
With the WMS 150 Lattec, you can place battens and casing boards of min. 24 x 48 mm to max. 60 x 150 mm fully automatically on a beam or rafter tier, and fix them at the same time.
The capacity of the traveling batten magazine is enough for a complete panel (12 m) economy casing, optical casing. The batten magazine can be filled by hand or automatically with a loading station. The fastening devices can be installed specific to customer requirements.



The WMS 160 - optimized for solid wood processing

WMS 160 solid wood processing



Equipped with 2 work spindles and 1 tool changer, the multi-function bridge WMS 160 for solid wood processing provides all advantages for the operator.

- flexibility through the application of various tools (max. 12 tools)
- reliability through verified machine components
- high performance with a 20 kW spindle.

The fix integrated saw blade allows the application of the 5 axis range.
The second work spindle guarantees the flexibility through the automatic exchange of various tools.

With a drive length of approx. 50 meters and a processing width of 3.20 meters, solid wood panels etc. are ideal to process.

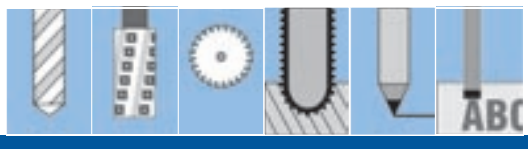
Our special systems - are „in good shape“

WMS 160 SIP processes

Special system for SIP processes
For the processing of sandwich panels (SIP), we offer the WMS 160 with a multi-function bridge designed specifically for these requirements. In detail, the machine is equipped with a tool changer for up to 12 tools. Furthermore, it is equipped with a 5-axis chain saw for diagonal and straight cuts up to a depth of 350 mm. As the machine is fully enclosed, this guarantees that the work environment is exposed to very little dust. Dust and waste are cleaned from the whole work table by special suction nozzles and a suction bar. Panels with 7,5 x 2,8 m length can be clamped on the vacuum table. The tools are protected by a wearing plate. Special flaps help avoid contamination of the machine‘s environment as much as possible.

Specific router tool for different requirements

5-axis chain saw for compount angled cuts



WMS 170 Plaster

Applying plaster and adhesive. Solutions previously not possible
The WMS 170 offers you a new technology - applying plaster or spraying on adhesive and then removing the applied mass, so that a homogenous and qualitatively even surface is created.
The multi-function bridge can be equipped with plaster application systems from various manufacturers, e.g. Sto/Inotec, Marmorit/PFT. The plaster or adhesive is applied onto the panel using a nozzle with a pump. There is also the possibility of unrolling and fixing a mash with the unroller device, and then removing the mass with a smoothing arm.

Gluing

Applying plaster

Power - Control - PC 85

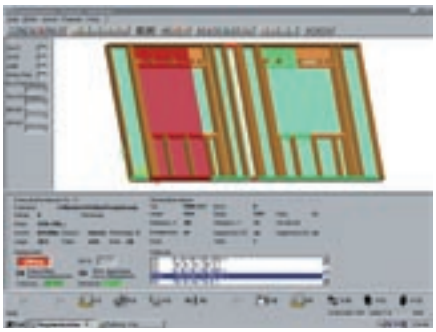
The new software generation with new Power control
The great advantage of our new software generation running under Windows, is simple operation, but also the common interface on all Weinmann machines. You, and your employees, are saved time-consuming training and familiarisation particularly when your system is expanded and complemented by further Weinmann machines.

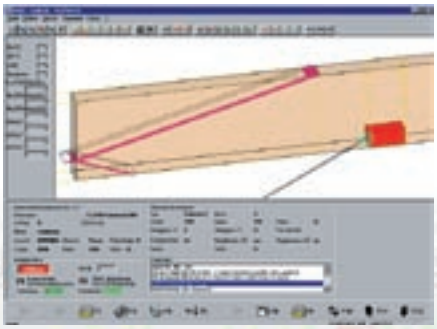
The Power Control with an online connection and integrated remote diagnosis (contact plan and diagnosis by telephone) are important and efficient features. They save the customer having to pay the technician‘s costly travel expenses. Of course, it is also possible to connect the interface to CAD/CAM systems. Other major performance features are the fieldbus technique, which allows fast access and therefore fast service, and a high level of data security. This means that there are no downtimes after loss of data.
The following software programs are included as standard in the scope of the Power Control:

- **Wup-Works**
- **Wup-View**
- **Wood-Scout I**
- **Schuler MDE Basic**

The connection to production control systems and MDE (machine data recording), SPS programming according to IEC61131 and CNC programming according to DIN 66025 also belong to our standard version.

Wup-Works
Wup-works changes your Wup files to machine data files and generates a link to the machine functions-display of a 3-D graph. The display shows, for example, the nailing lines, door/window cut-outs, markings and positions of planking, and much more. The process currently being carried out by the machine is always highlighted in a special color





Wood -Scout I (Optional II + III)
Wood-Scout is a multimedia diagnosis system for display of faults and machine status. This allows systematic troubleshooting and reduces machine breakdowns.
Wood-Scout III provides the possibility to save data (e.g. to a specific fault) with your own comments. If the same fault happens again this comment pops up automatically. The integrated machine documentation opens automatically at the right position showing how to eliminate the fault.
All these software systems are very user-friendly - you may eliminate many faults on your own without needing the help of our service team.

Benefits:
- “self-training” system
- your specific settings are saved and are available if necessary

Further software programmes you can find in our image brochure.

Software from Weinmann:
- Wup-Works
- Wup-View
- Wup-Editor
- Wup-Client
- Wup-Finder
- Wup-Server
- Wood-Scout
- MDE/BDE

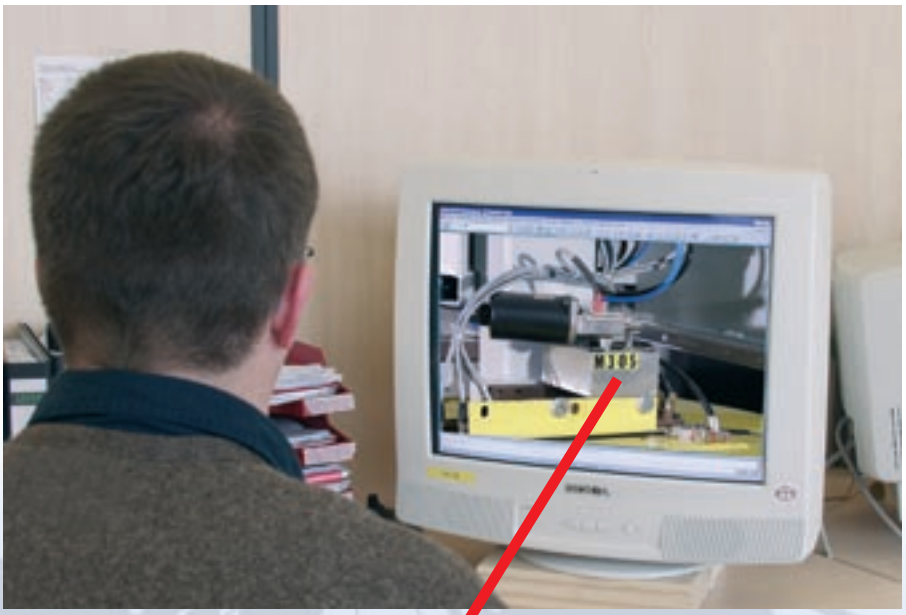
Advantages of the Weinmann software
- Optimization of processes
- Unprocessed part database for different wood dimensions
- Automatic generation of saw cuts for multiple walls
- Wide range of nail patterns possible

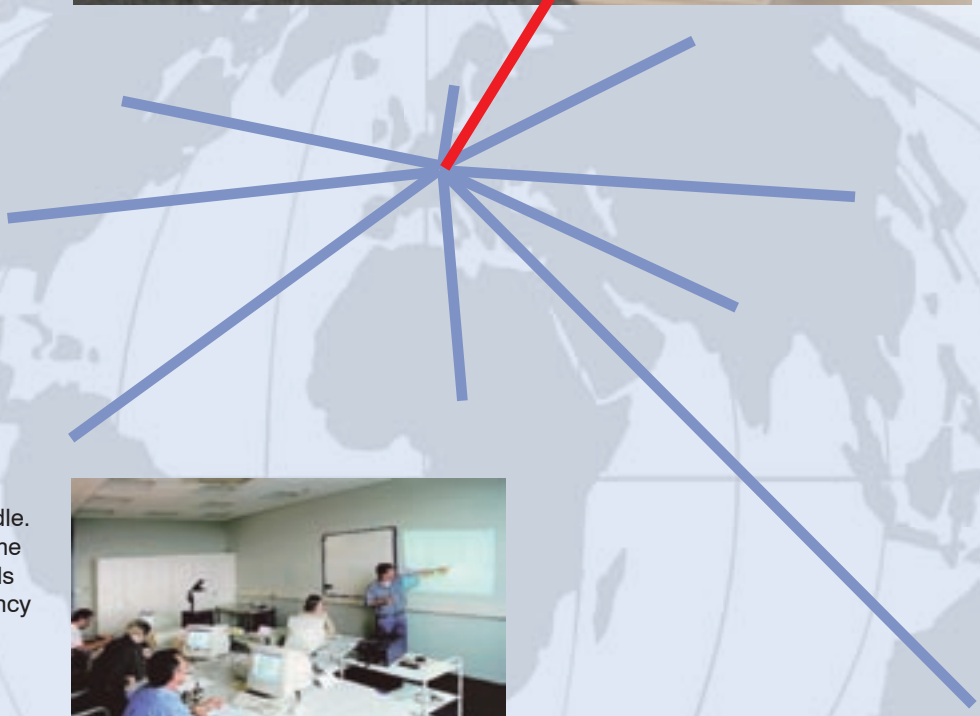
Service

Weinmann-Service:
prompt assistance worldwide

Worldwide service center
If you need assistance on site a specialist of Weinmann or another company of Homag group will be available. Being a member of the Homag group Weinmann can fall back upon a worldwide service network. This means short distances, promt action and intensive customer contact.

Efficient remote diagnosis
Possible causes for faults are detected, isolated and in most cases eliminated at once by the time and cost saving remote diagnosis of our service center.





Praxis-oriented training
Weinmann products are easy to handle. thorough training reduces start-up time - less unnecessary trial runs. The skills of the operators as well as the efficiency of the machines and production lines are increased as of the first day.

Consulting/Hotline/Project planning
Our employees will advise you competently and helpfully on all your queries relating to control/electrical equipment and process technology.

WMS

Technical data

	WMS 100	WMS 110	WMS 120	WMS 150	WMS 160	WMS 170
Product dimensions						
Width in mm ⑤ max.	3200	3200	3200	3200/4200	3200	3200
Length in mm ④	customized up to 50.000 mm					
Height in mm max.	500	500	500	500	305*/500	500

*with chainsaw

	WMS 100	WMS 110	WMS 120	WMS 150	WMS 160	WMS 170
Machine dimensions						
Width in mm ①	6100	6100	6370	6860/6330	6360	5820
Length in mm ②	3380	3380	3260	3300/3850	3660	4560
Height in mm ③	3000	3000	3000	3000	3300	3000
Weight in t	3,0	3,0	3,0	3,0/4,0	3,5	3,0
Drive way in m ④	up to 50 m					

	WMS 100	WMS 110	WMS 120	WMS 150	WMS 160	WMS 170
Connected loads						
Extraction capacity	installed on the machine 1850 m³/h	installed on the machine 1850 m³/h	installed on the machine 1850 m³/h	installed on the machine 1850 m³/h	central extraction	central extraction
Power supply	10-20 kW/400 V	10-20 kW/400 V	20-30 kW/400 V	20-40 kW/400 V	30-40 kW/400 V	20-30 kW/400 V
Compressed air consumption per aggregate	1500 Nl/min	1500 Nl/min	1500 Nl/min	1500 Nl/min	1500 Nl/min	1500 Nl/min
Pneumatic pressure	8 bar	8 bar	8 bar	8 bar	8 bar	8 bar
Costumized aggregates	Bea, Haubold, Max, Paslode, Senco, Duofast, etc. (Fastening tools are not part of our supply)					

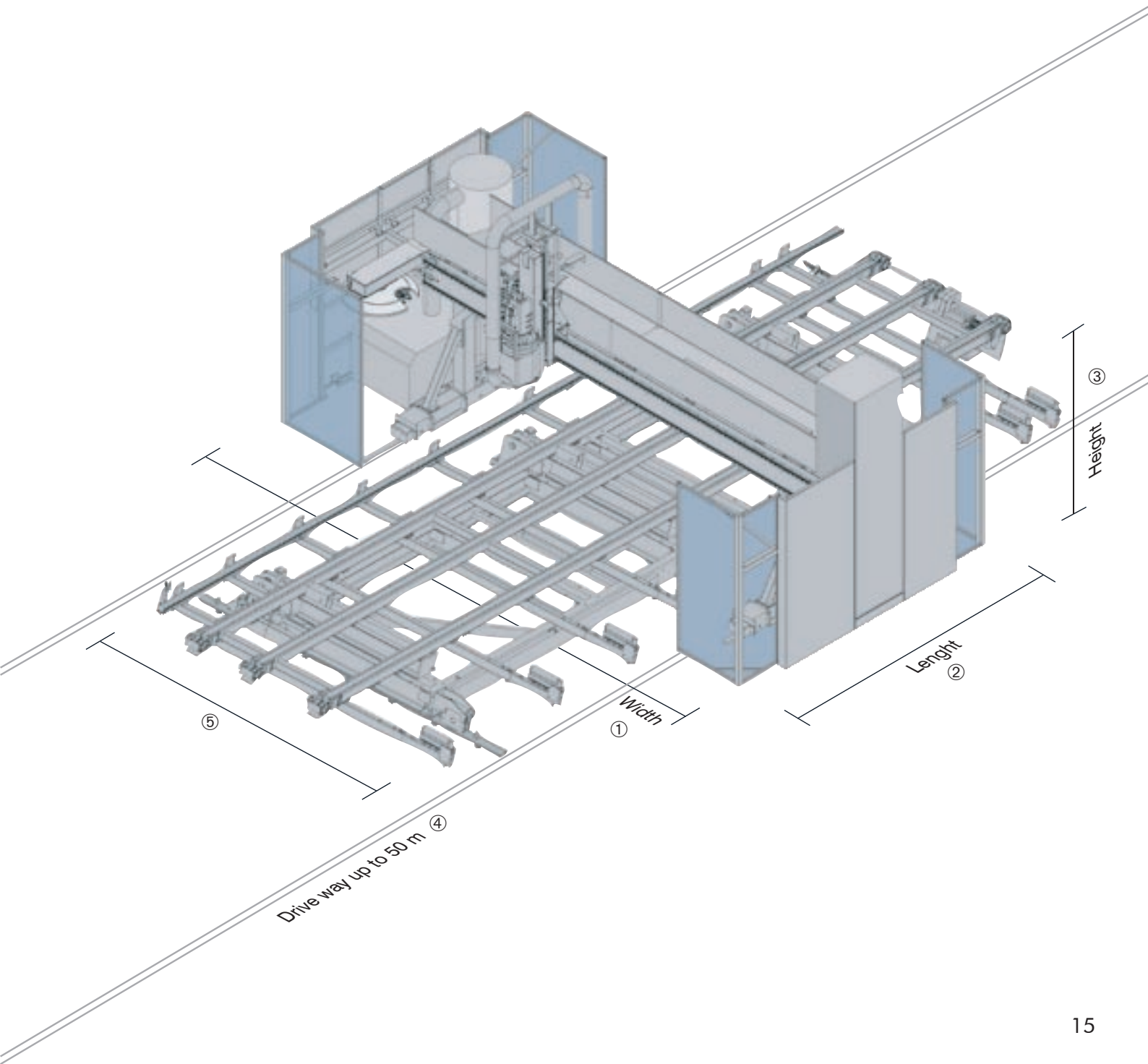
All values are approx. values

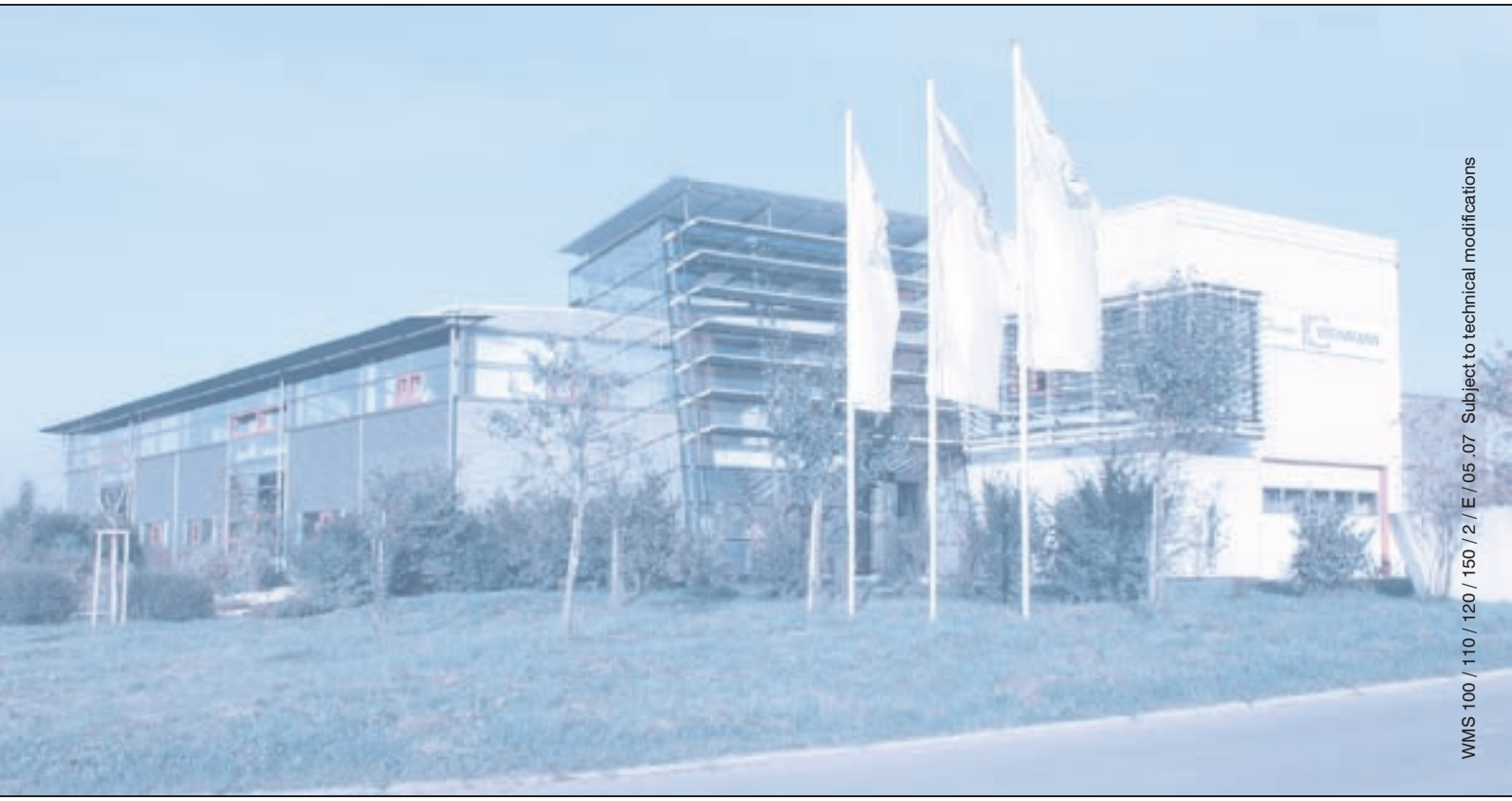
	WMS 100	WMS 110	WMS 120	WMS 150	WMS 160	WMS 170
Machine equipment						
Safety	extensive safety concept per CE-Norm start up safety system (Bumper) with safety light barrier, safety fence.					
Control	Power Control PC 85					
Software						
Wup-Works	for files transfer of a CAD-System e.g. Sema, HSB, CAD-Work, Dietrichs, Bocad, Keymark, S+S, Mitek, Eleco, Sitestream etc.					
Wup-View	for visualization of data files					
Wood-Scout I	the multimedia - based diagnostic system					
Schuler MDE Basic	for automated data entry and analysis of operating data					

Please note that all stated technical data, indluding photographs are not binding and are subject to periodic change in the course of product development.

Working options:

	WMS100	WMS110	WMS120	WMS150	WMS160	WMS170
Fastening	stapling, nailing, screwing				-	stapling
Processing	sawing,drilling, milling					milling/sawing
Marking	marking, labeling					
Type specified applications	the cost efficient entry level machine	High speed fastening (parallel faste-ning)	12x tool changer	customized equipment and placing of laths, sheating and boarding.	SIP, sandwich or solid wood processing	Placing of plaster and adhesive.





WMS 100 / 110 / 120 / 150 / 2 / E / 05 .07 Subject to technical modifications

A company of the Homag group

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