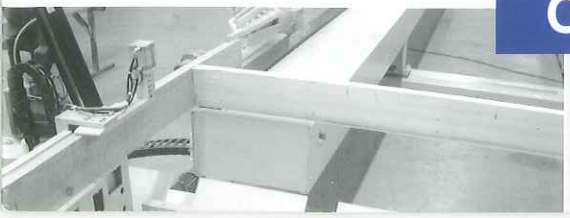
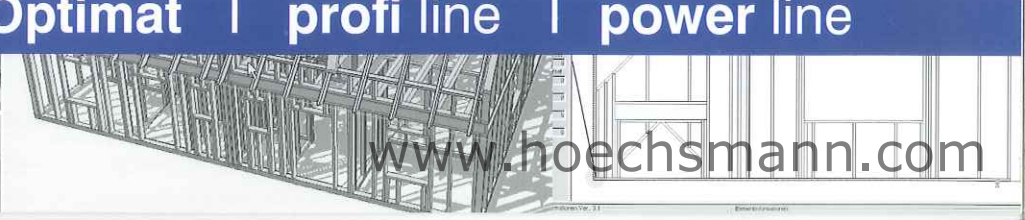
WEINMANN

Framing station
WEM 100/150/250

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





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The WEM System

Framing station

Modular structure
Weinmann extends its well-known, cleverly upgradable modular system by a new element: the framing station. It is available in three different types: – WEM 100, 150, 250 –, depending on the volume of the houses requested or planned. No matter which type of framing station you may choose, each type is of worldwidely-known Weinmann quality; in other words: a guarantee for precision and security.

Quality
The positioning of the studs and the clamping of the framing work is fully-automated; this assures permanent high quality. During the nailing process, the framing work is additionally pressed firmly by the stopping system.

Production according to order
The framing station WEM can produce with batch size 1.This enables an individual customer-tailored production. The feeding roller conveyor as well as the discharge gripper and the stopping system are automatically adjusted in width. That is why there are no setting-up times when your products have different dimensions.

Easy to handle
A clearly laid out screen design means much more effective work for the user. The framing station can be operated by one person.

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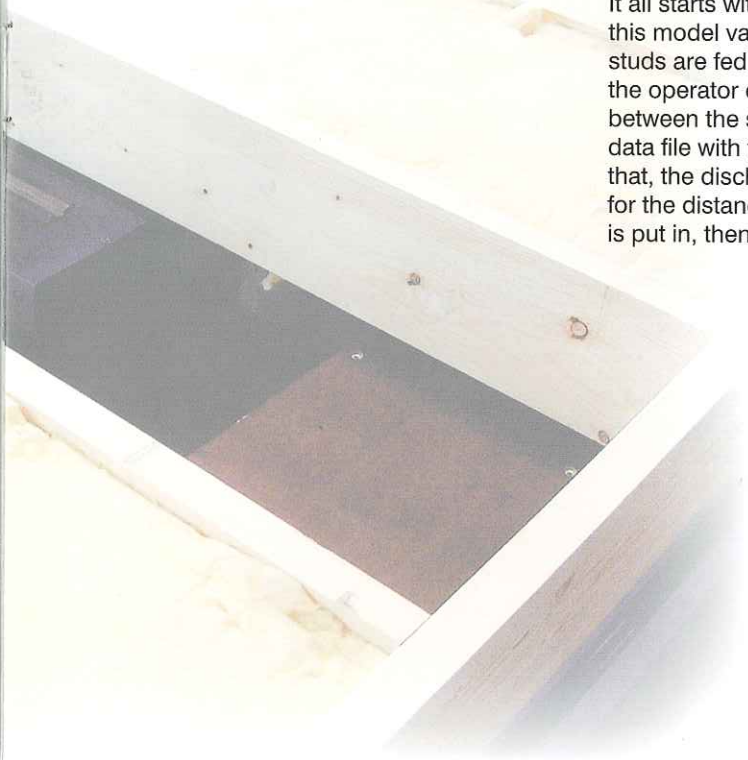
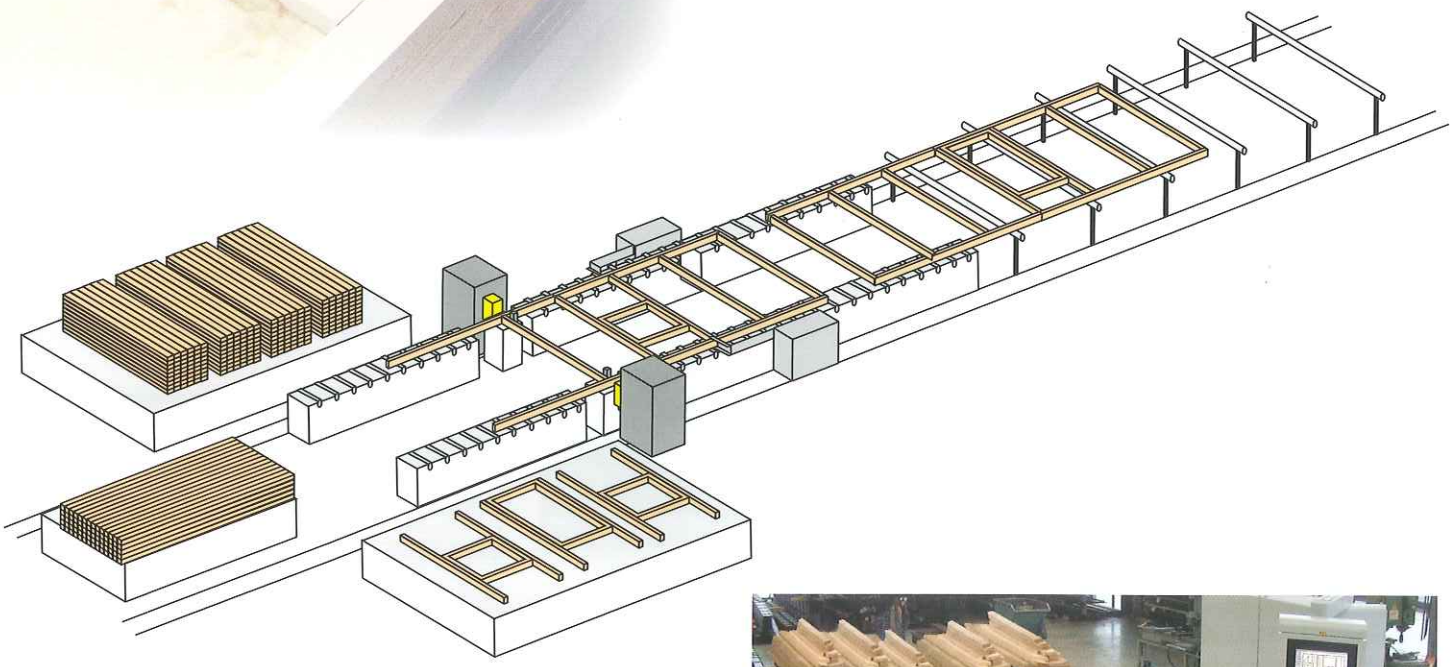
WEM 100



It all starts with the new WEM 100. In this model variation, the beams and studs are fed in manually. On a monitor, the operator determines the distance between the single studs or take the data file with the CAD connection. After that, the discharge gripper drives along for the distance given. The next stud is put in, then nailed, and the process starts again. This offers a convenient starting model for craftsmen's businesses or smaller industrial companies with a production capacity from 100 houses per year on. Optional supplementary modules such as a noggin station and studs in feed is possible.

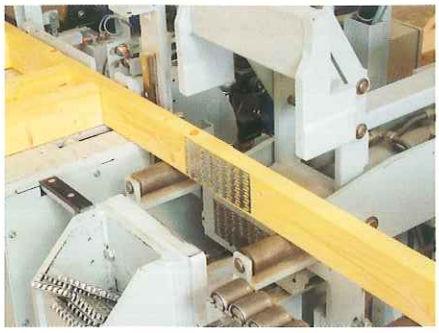


Complex frameworks – easy to produce

WEM 150

The model WEM 150 enables the semi-automatical production of complete frameworks. After the data record has been read, the element width is automically adjusted at the stopping system and at the discharge gripper. The roller conveyor is likewise automatically set. The top and the bottom plates are manually lead onto a roller conveyor and positioned at the stops. The plates are automatically tightened and expanded. The studs are loaded into the station manually and subsequently positioned, tightened and horizontally nailed down automatically. During this process, window and door modules can also be installed. Gable elements can be produced as well and can likewise be integrated into all automation segments without any problems. The corresponding element is automatically driven to

the NC-controlled discharge gripper which moves exactly to the single stud positions. Another innovation are the freely definable nailing positions for different stud types such as L, U, T or multiple studs.

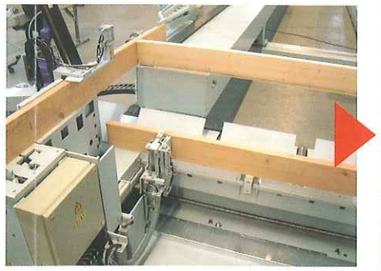


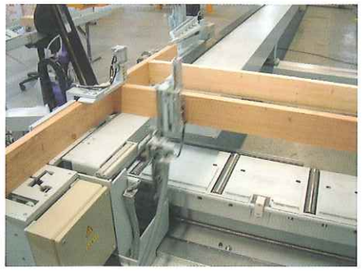
Nail plate press
Top and bottom plates can be extended endlessly. The pressing process is manually activated after the nail plates have been put into the press. The press is equipped with a 2-stage high performance hydraulic aggregat.
The optimisation software considers overcuttings and therefore optimises the timber consumption.

Cross cut saw unit
Suitable for the automated cutting of the plates and the sawing of a cross cut in multi walls. The plates are pneumatically tightened during the sawing process.

WEM 250

The WEM 250 model is similar to the WEM 150 type, but is additionally equipped with a fully-automated stud assembly. This means that the studs are fed and positioned by a feeding portal which takes timber of different dimensions from several stacks onto the roller conveyor. From there on, the studs are transported into the stud assembly station and fully-automatic assembled into the framework. A performance of 2 m per minute can be achieved; this means that, depending on the type of framing station, a production size from up to 1000 houses annually is possible.





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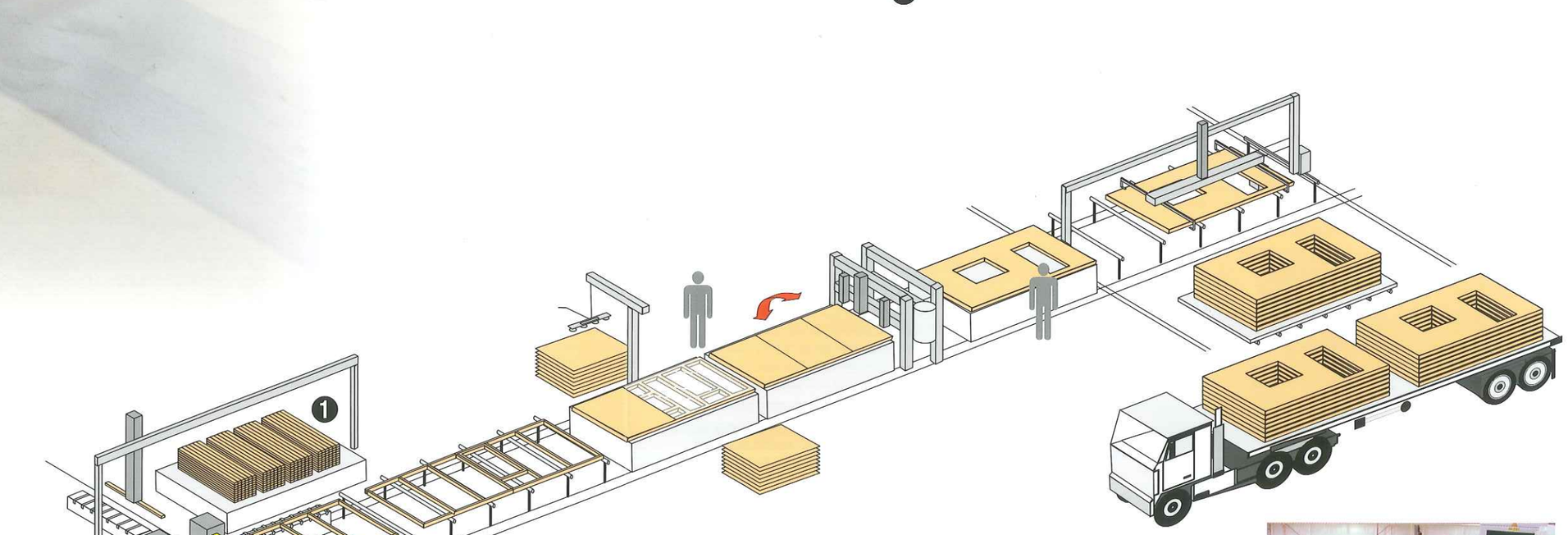
Complete production lines
From the budget-priced starting type to the standard model up to high-performance types, Weinmann offers an individual, customer-tailored solution for every budget and each batch size. The product range covers all the proceedings of modern, machined pre-fab timber housebuilding: feeding, beam processsing, assembly of frameworks, handling and transport systems as well as the space-saving storage of the elements.



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Noggin assembly station
It is a support station for the assembly of short longitudinal studs (noggins). The station is manually movable on linear guides and is located in between the framing station's stopping system. The noggins are assembled manually.

Additonal benefit thanks to clever optional features

Module production line/Isolation station

The module production line consists of a module table, a module transport way and a module support.

Module table
Window and door elements are manually produced on a module table.
The table consists of a working surface with a firm y-stop and a kneeling x-stop.
The table has a continuous opening to enable trouble-free access.

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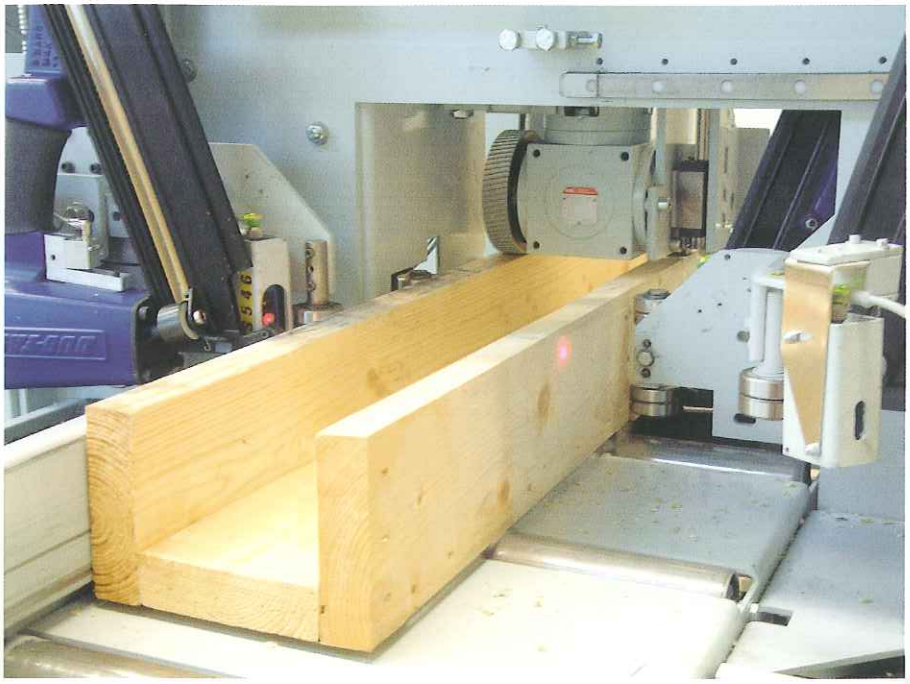
Module support
The module support consists of liftable and turnable rolls which are turning in automatically, either from one side (single support) or from two sides (dual support) of the feeding roller conveyor. A quick and swift assembly is achieved, especially with heavy and asymetrical modules, as the support unit simplifies the assembly of the modules into the framing station.

Isolation station
This is needed for the integration of the insulation material into the framework.
The insulation material (only plates) is transported to the operator via a gripper and a transport band conveyor. From the band conveyor on, the operator can easily assemble the insulation plate- which has automatically been cut into the dimensions requested-into the framework.

WES Component nailer



Functions of the maschine
The component nailer nails and clamps multiple studs, corners, channels as well as all other special shapes. The machine is equipped with 4 clamping or nailing units; two of them are adjustable in height with a motor, so that freely definable nailing positions can be chosen.

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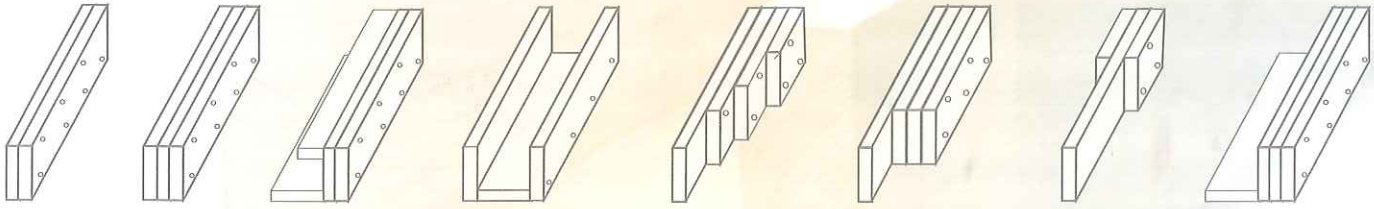
Your advantages
You will really appreciate the easy operating via touch screen monitor, the quick stud type determination, the high capacity in production- one stud each 10 seconds- and the broad processing range



Technical data

max length of the work piece:	3.800 mm
max cross section.:	300 x 380 mm
min. cross section:	38 x 38 mm
capacity:	approx. 10 sec./ stud

Noise-insulating cabin
The component nailer WES is equipped with a noise-insulating cabin. This corresponds to the latest safety regulations. You can profit from a smooth production, free of noise and spreading wood or metal splinters.

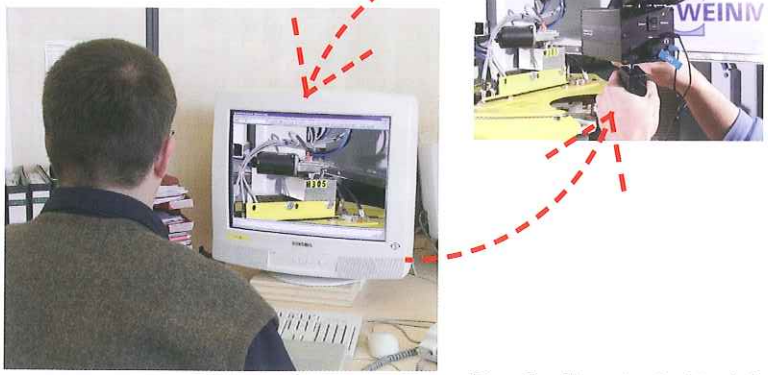
Service + Software

Framing station

Weinmann's service: Prompt assistance worldwide

Worldwide service center
If you need assistance on site, a specialist of Weinmann or another company of the 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, prompt action and intensive customer contact.

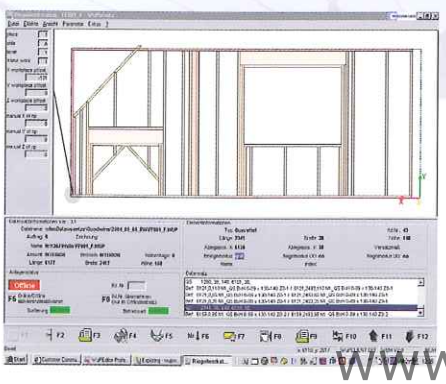
Efficient remote diagnosis
Possible causes for faults are detected, isolated and in most cases eliminated at once thanks to the time- and cost-saving remote diagnosis of our service center.



Practically-oriented training
Weinmann products are easy to handle. Thorough training however reduces start-up time – this means less unnecessary trial runs. The skills of the operator as well as the efficiency of the machines and production lines are increased as of the first day.

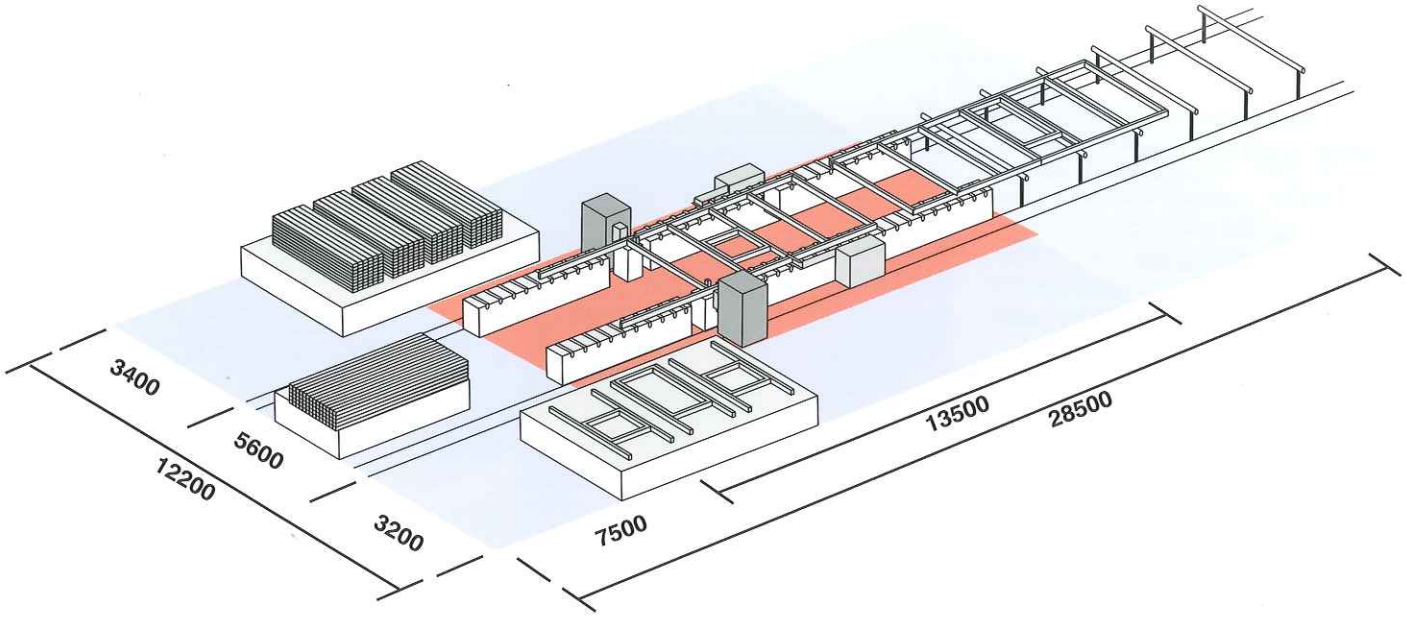
Advice/ hotline
Our people will give you competent and helpful advice in all your questions concerning control/ electricity and technology.

Advantages of Weinmann's software
- optimisation of the processings
- data bank for raw parts in different timber dimensions
- automated generating of sawing cuts at multi walls
- various nailing positions possible



Wup Works
Wup works changes your Wup files into machine data files and generates a link to the machine functions – with display of a 3-D graph. Wup-works is used for all Weinmann machines.

Technical data



	WEM 100	WEM 150	WEM 250
length of the element:	6/8/10/12 m	6/8/10/12 m	6/8/10/12 m
width of the element:	1,50 – 3,20 m	1,50 – 3,20 m	2,00 – 3,20 m
height of the element:	75 – 200 mm	75 – 200 mm	75 – 200 mm
timber thickness:	35 – 200 mm	35 – 200 mm	35 – 200 mm
performance:	0,5 – 0,8 m/min	0,8 – 1,5 m/min	0,8 – 2,0 m/min
capacity:	from about 100 houses on	from about 250 houses on	from about 800 houses on
CAD connection:	yes	yes	yes
module infeed:	manual	automatic	automatic
stud infeed:	optionally available	optionally available	automatic
auto. installation of studs:	no	no	yes
plates infeed:	no	no	optionally available
nail plate press:	no	optionally available	optionally available
sawing unit:	no	optionally available	optionally available
marking unit:	no	optionally available	optionally available
labelling unit:	no	optionally available	optionally available
drilling unit:	no	optionally available	optionally available
noggin installation:	optionally available	optionally available	no
height of nailing-/clamping position:	manually adjustable	automat. freely positionable	automat. freely positionable
adjustment in width:	manual/automatic	automatic	automatic

WEM 100/150/250 E 02/09.05 · Subject to technical modifications

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