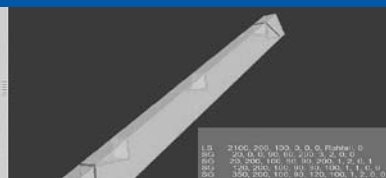


## WBS 120 High Speed Linear Saw



Optimat | profi line | power line



# WBS 120 High Speed Linear Saw

**The WBS 120 High Speed Linear Saw** for fast, efficient, accurate and flexible cutting.

The saw has been specifically designed for high speed and accurate sawing, labeling and marking for the entire scope of parts required for fabricating trusses and wall panel components.

As a cost-efficient linear saw with integrated, proven software, the saw meets all requirements of the truss and panel fabricator.

In addition, the WBS 120 is modular and upgradeable. For example, automatic material retrieval can be added (at any time) to further increase efficiencies, facilitate growth or handle market changes.



## Fast

- In feed speed-2,5meters/98 inches per second
- Multi-channel hardware for high speed communication and data processing
- Fully integrated optimization software
- High speed positioning of blade (utilizing 5-axis-technology) for sawing all angles



### Benefits:

- High number of parts per shift output
- Cost reductions and efficiencies gained through fast part production and time savings

## Accurate

- Precision positioning system (Accurate to +/- 0.1mm)
- Precise in feed and out feed utilizing NC grippers (with horizontal and vertical clamping) running on high quality linear bearings
- Computer control of all processes

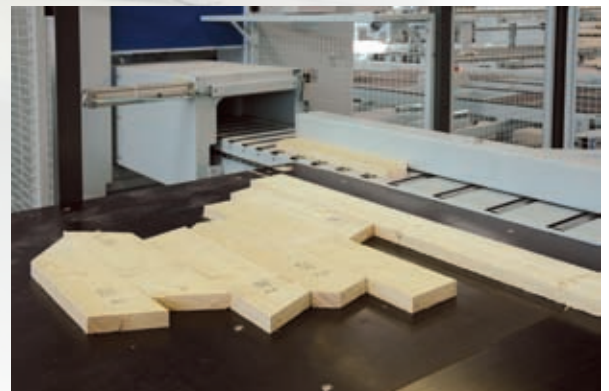


### Benefits:

- Precision sawing ensures accurate fabrication and improves jobsite installation
- Overall improvement to the quality of your building components

## Flexible

- Handles a wide range of materials for processing parts
- Minimum material section of 20 x 50mm (7/8" x 2") and maximum section of 200 x 420mm (7 7/8" x 16 1/2")
- Automated adjustment to material dimensions with little cycle time impact
- Data is automatically transferred to the saw by means of CAD program and can also be manually entered at the saw console



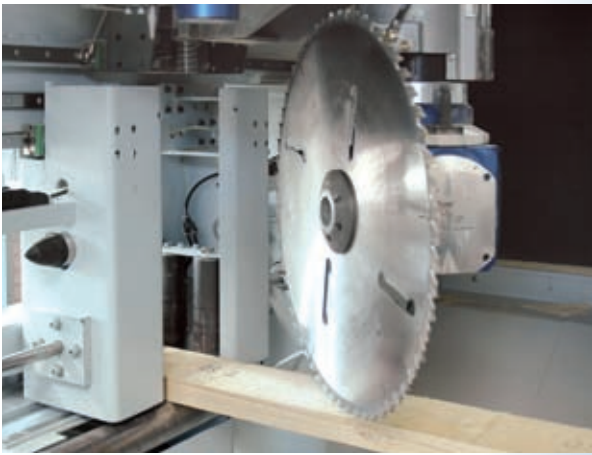
### Benefits:

- One operator achieving high production rates
- Automated, accurate (paperless) transfer of data to saw
- Errors are greatly reduced over manual data entry and saw set up

## ...sawing with flex 5

The 7.5kw (10 HP) spindle motor allows for highly dynamic, flexible and accurate sawing.

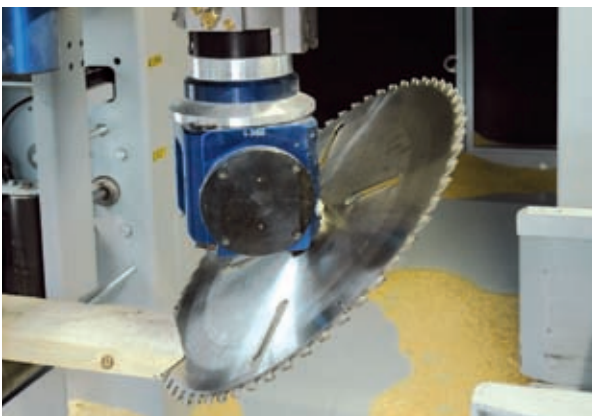
This sawing system is designed to perform every cut required by the truss and panel industry.



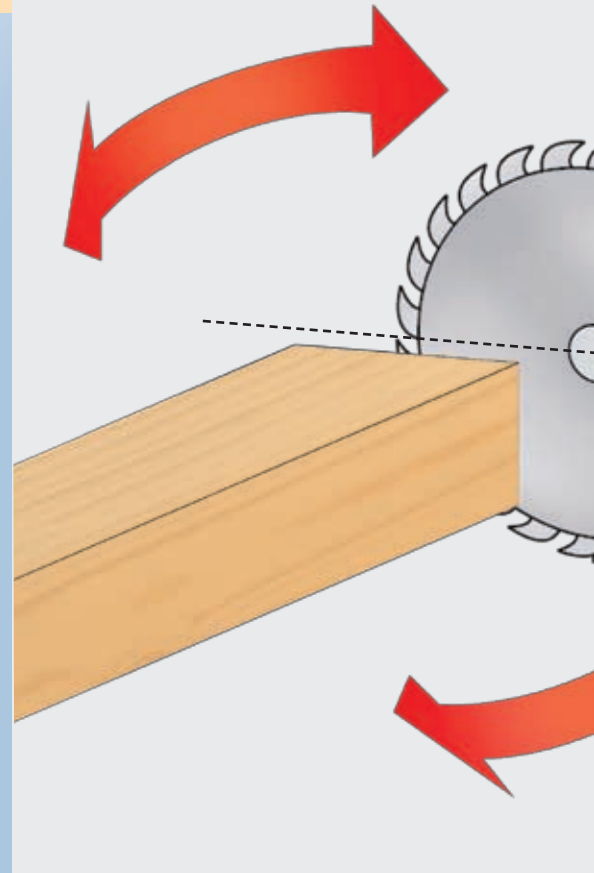
Single angles, multiple angles, birds mouth, cross cuts (0-360 degree cutting stroke C)

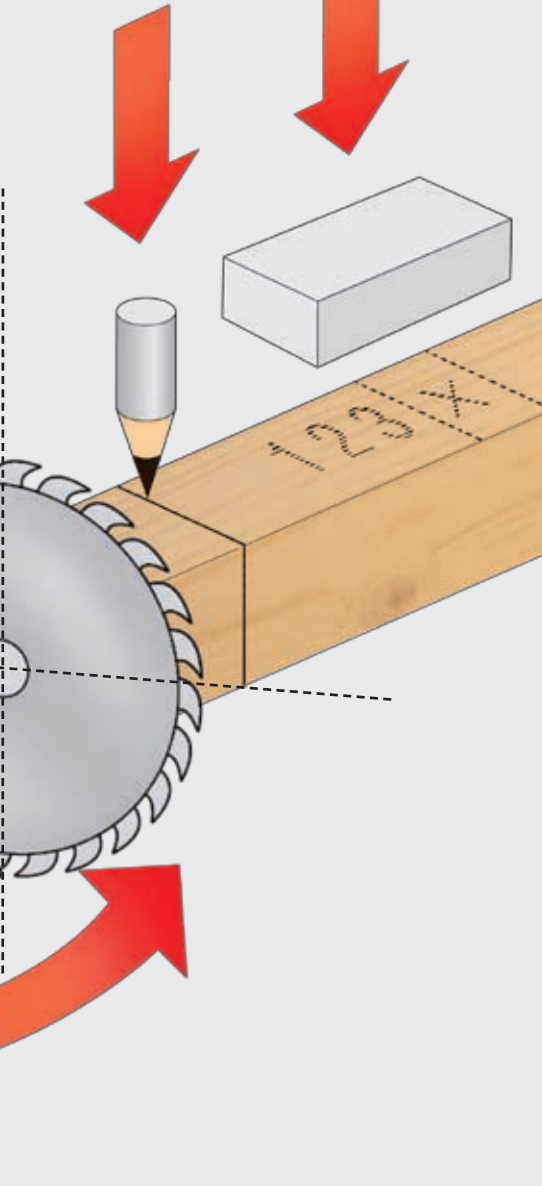


Rip and scarf cuts, beveling and slotting (0-90 degree rotating angle)



Compound angles

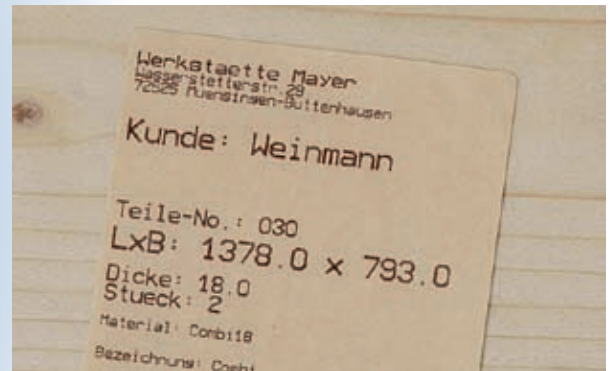




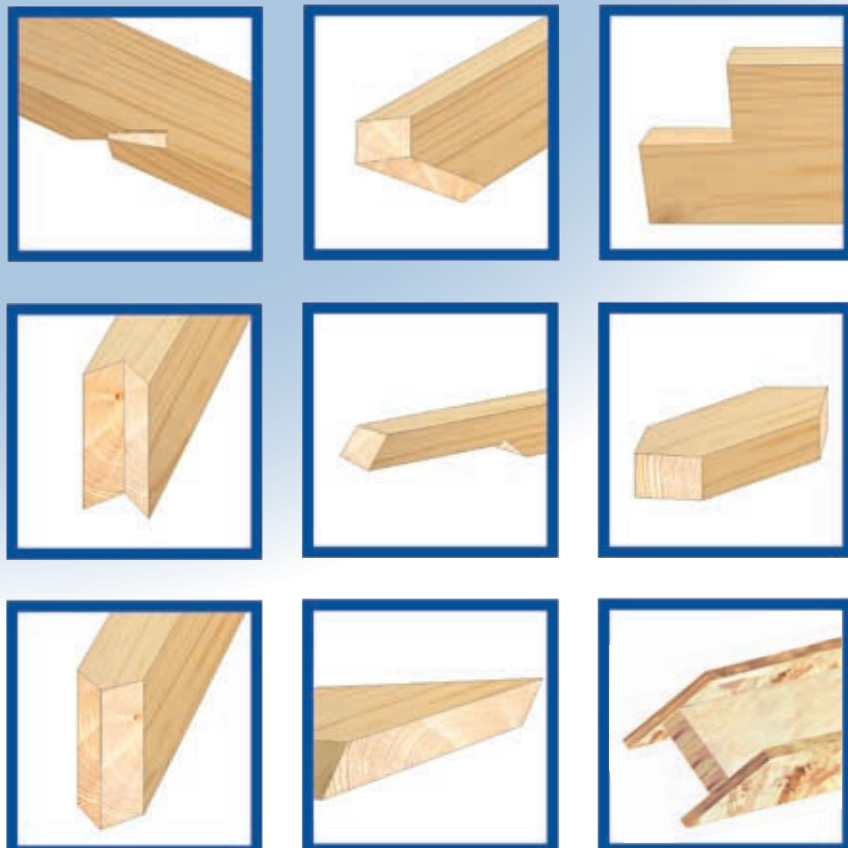
## ...labeling and marking



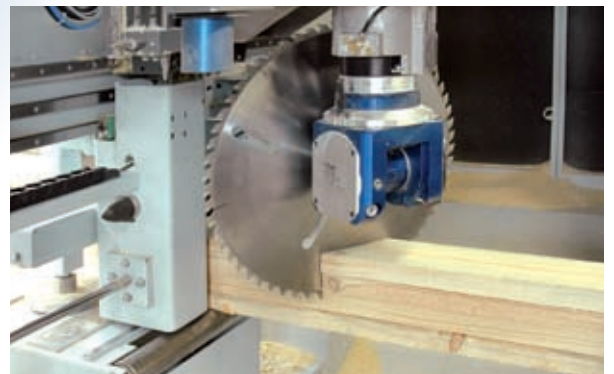
with a high resolution ink-jet capable of applying alpha-numeric characters as well as precise wall layout lines.



Paper label printer (for very small parts).



### Additional features:



Sawing of stacked lumber



Flexibility to handle I-Joist, LSL, LVL and solid sawn lumber

# 1 machine + 1 operator = result<sup>3</sup>

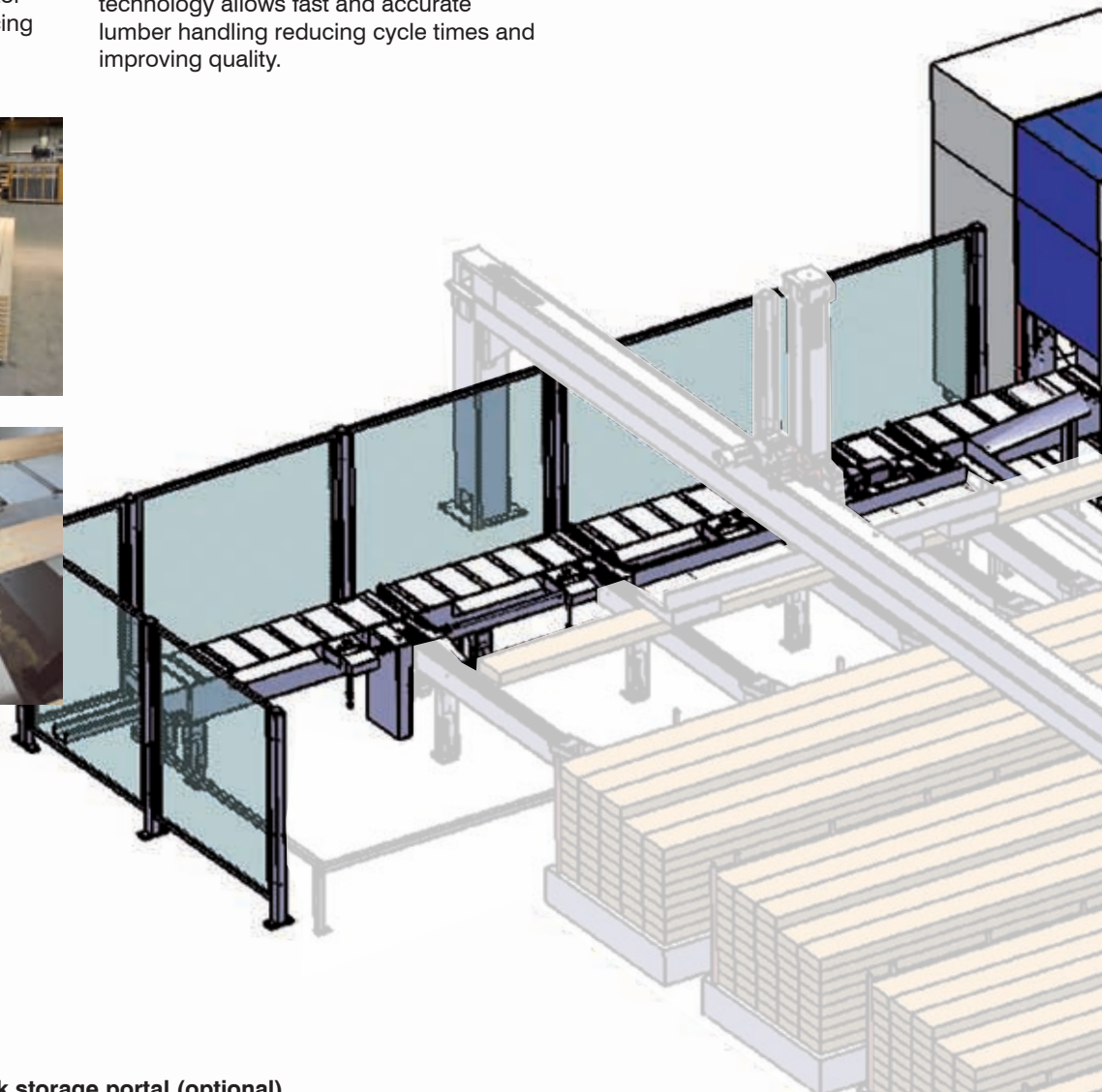
## Infeed

Automatic in feed of lumber materials and out feed of finished parts. Lumber can be manually or automatically loaded onto the live deck conveyor for automatic in feed into the saw. Sawing accuracy is maintained as the entire process is computer controlled and driven by precise servo technology. Finished parts are ejected and automatically moved crosswise to an outfeed table which serves as buffer space, providing the ability for one operator to load and unload without sacrificing overall production of the saw.

### Material live deck (optional)



Precise gripper and clamping/tensioning technology allows fast and accurate lumber handling reducing cycle times and improving quality.



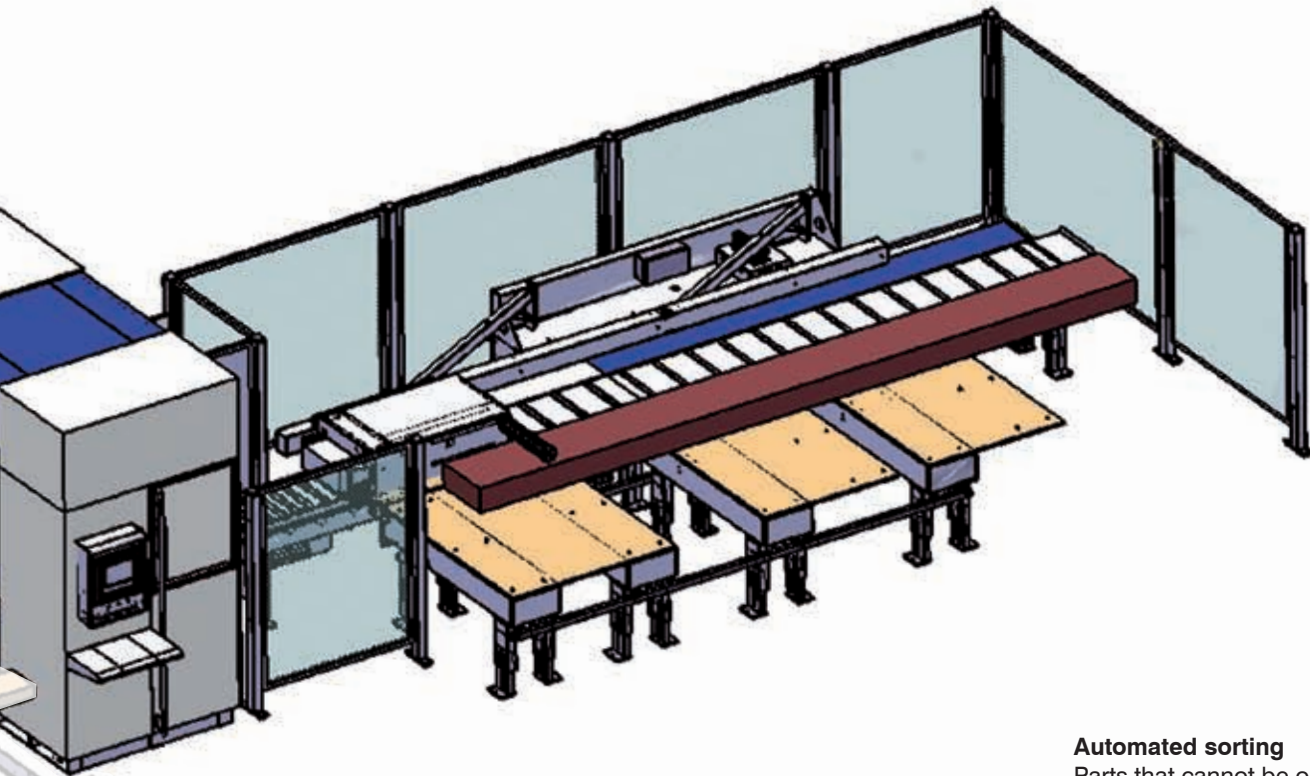
### Material retrieval robot and stack storage portal (optional)



### Material storage

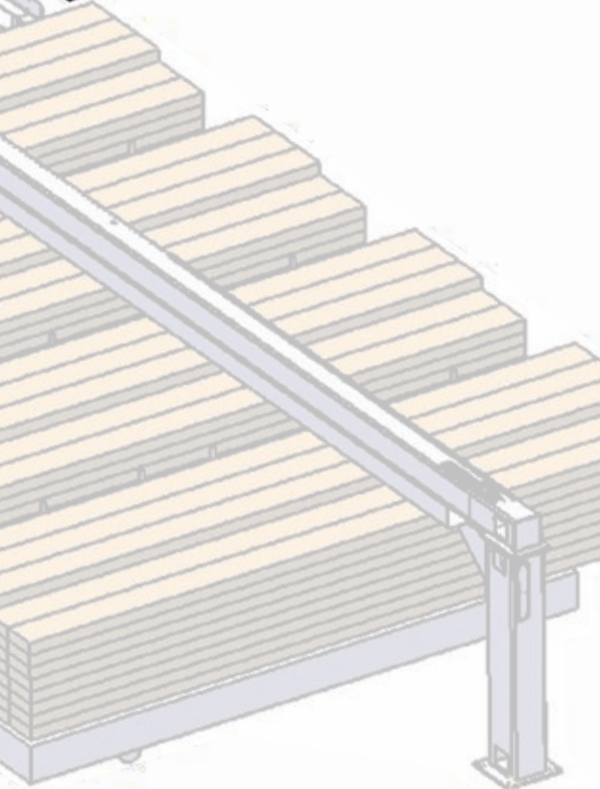
The material storage solution is designed to allow five full stack/bunks of raw materials to be stored and accessed by a state of the art robotic vacuum retrieval system. Stack/Bunk storage quantity can also be customized to handle customer requirements. The system safely and efficiently loads material (including solid header and heavy EWP materials) into the saw in a just in time manner.

## Out feed



### Automated sorting

Parts that cannot be outfed-less than 160mm (6 5/16") and waste parts are automatically separated within the saw cabinet and ejected at different locations of the saw for easy retrieval or disposal.



Available conveyor systems for small part retrieval and and waste removal (optional).



Automatic processed part sortation for pieces smaller than 160mm.



Cross transfer of finished parts.

# Operation and Service



## One man operation

Data is efficiently transferred to the saw by means of your CAD system. On the occasion changes need to be made at the saw, the Wup Edit-Professional software allows the operator to make adjustments to parts or the saw with little effort.



## Operator Safety

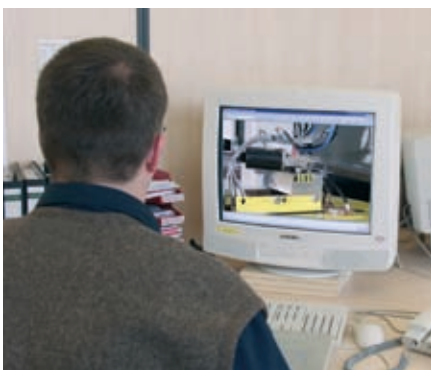
The ergonomic aspects of the saw were considered throughout its design. The saw cabinet is designed for safety, security and sound-protection.



## Touchscreen

Simple operation through use of the touchscreen panel.

# Service



## World-class service

If on-site service becomes necessary, our committed service network will produce results. Strategically located offices, parts departments and field service representatives backed by support from the Weinmann Company provide a level of service unmatched in the industry. This level of investment and commitment to service ensures customers are serviced by trained personnel traveling short distances, immediate action and intensive customer contact.

**Efficient remote diagnosis of the machine.** Possible causes for faults can be detected, isolated and often resolved by off-site technicians. Remote diagnosis decreases downtime and cost by allowing issues to be resolved quickly, without the need for on site service.

# Software

Weinmann offers a wide range of software programs ranging from simple part design to diagnostic and service programs for the machine.

## Wup-Edit Professional

Wup-Edit Professional allows the creation of macros that the machine can read and produce automatically without interaction from your CAD system. Macros become valuable for producing repetitive parts, such as blocking, that are used in large quantities in truss and panel operations. As information is entered into the macro, the construction of the piece is graphically depicted on the touch screen. The program reads the data and automatically produces the file used by the saw. The macro catalog can also consist of rafters, lumber, headers and posts etc...

## Benefits

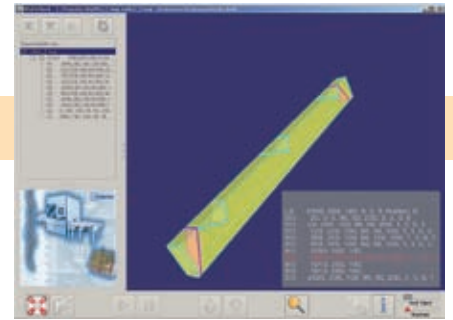
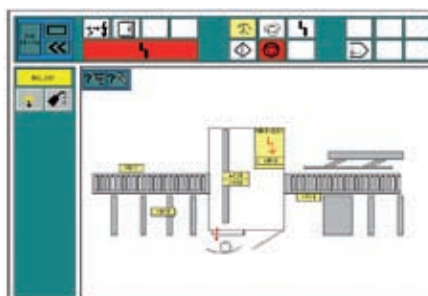
Easy operation-It is important to understand the saw is flexible. If it becomes necessary, parts can be created without use of CAD software and macro functions are defined by the customer.

## Wup Works

The Wup-works program converts Wup files (output files needed to run the machine), generates machine data files and a link to the machine display to show a graphic of all processes. The process currently being carried out by the machine is always highlighted by a special color providing the operator the

## Advantages of Weinmann Software:

- Optimizing of material
- Optimizing of sawing steps
- Generation of macros
- Graphic depiction of processes
- Storing of fault solutions



ability to know what the saw is cutting and where on the material the process is taking place.

## Wood-Scout

Wood-Scout is a multimedia diagnosis system for display of faults and machine status. This allows systematic troubleshooting and reduces machine down time.

Wood-Scout II provides the possibility to save data (e.g. 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 software systems are user-friendly – allowing you to eliminate many faults on your own without needing the help of our service team.

## Benefits

Learning the system-what you learn is not lost as customer specific knowledge can be archived and automatically made available future use.

## MDE

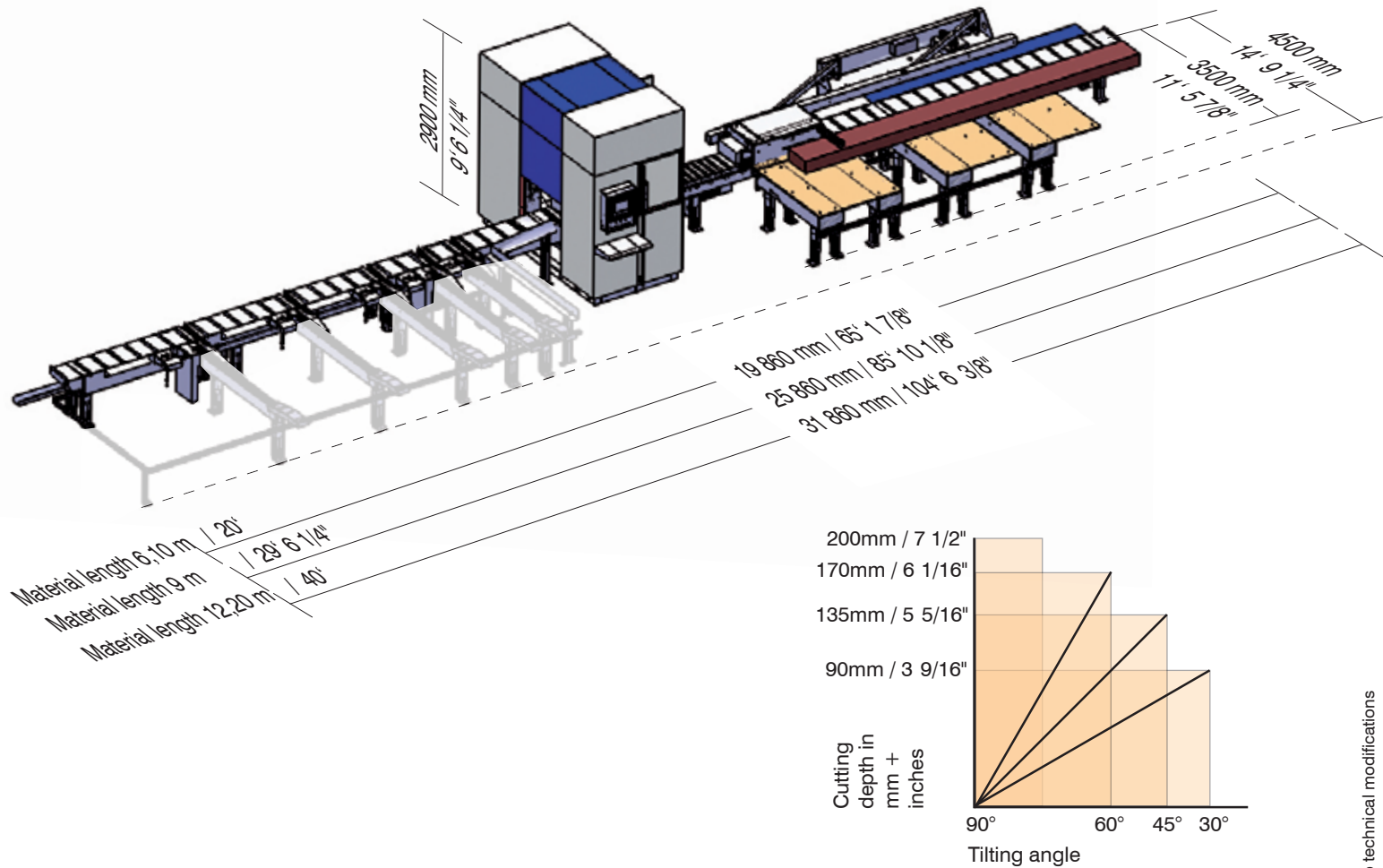
Schuler MDE Basic + Professional With the machine data entry you can save important data and use for yourself the relevant information. The following data can be analysed:

- Process times of machine
- User degree and tact time
- Production quantities
- Error times & error reason
- Actual service condition
- Necessary service requirements

This way Schuler MDE Professional makes your production transparent and helps you, to cover up gaps and weak positions in the production.

Schuler MDE basic is installed for free on every machine as a standard software.

# Technical data



|                          |                  |
|--------------------------|------------------|
| Diameter of saw blade:   | 550 mm / 21 5/8" |
| Cutting stroke C:        | 0 - 360°         |
| Rotating angle:          | 0 - 90°          |
| Saw Motor:               | 7,5 kW (10 HP)   |
| Speed / processing step: | 2 - 10 sec       |

## Working tolerances:

|                        |                                 |
|------------------------|---------------------------------|
| Min material section:  | 20 x 50 mm / 7/8" x 2"          |
| Max material section:  | 200 x 420 mm / 7 7/8" x 16 1/2" |
| Remaining length min.: | 160 mm / 6 5/16"                |

A company of the Homag Group



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