

OPTICUT S 90 SERIES

The fully automatic cutting center
for modern woodworking



WEINIG OptiCut S 90 DimterLine: Economical cutting including all options

High cutting accuracy, flexibility and maximum possible safety: the new automatic concept of the pushing saw OptiCut S 90 offers all this and moreover, it is highly productive. You can cut 4 times more with the OptiCut S 90 in comparison with a manual cross-cut saw - with half the staff. Or, you increase your timber yield by optimising. The defects marked by the operator are cut out and the maximum timber yield of the remaining quality timber is achieved according to the cutting list. Whether simple cutting solution or optimising, you decide on the degree of extension - now or later. Anyway the flexibility remains. For example with the function „Manual cutting“.



Whether packets, profiles, single boards or round dowels have to be cut, with the OptiCut S 90 all this is possible - almost without making adjustments on the machine. A wide model range meets every requirement: The all-purpose S 90, the S 90 XL - the powerpack for big cross sections, the S 90 Exact - for high-precision cuts, the S 90 Speed - with a capacity and speed that were, until now, only achieved by throughfeed saws. A machine concept that can be retro-fitted with many practically orientated options, and which is - with a moderate initial investment - upgradeable according to your requirements.



OptiCut S 90 - the best argument for automatic length cutting

- Reduced costs per piece due to 1-man-operation
- Up to 4 times more capacity than with a manual cross-cut saw
- Wide ranges of cross sections for the effective cutting of packets
- Maximum timber yield by optimising
- 120 m/min. feed speed with the S 90 Speed
- Absolute cutting accuracy and outstanding cutting quality
- Intelligent removal of waste
- Very easy to operate
- High flexibility from batch sizes of 1 upwards
- Robust and durable even in heavy-duty continuous operation
- Upgradeable to the optimising version
- Maximum operational safety

Feeding, positioning, clamping, cutting: WEINIG automatically secures safety

Adjustment of the stop, dangerous positioning, manual clamping and cutting – those times are definitely over. Each OptiCut S 90 carries out these steps exactly, fully automatically and totally effortlessly, even with unwieldy and heavy workpieces. A pusher feeds and positions the timber precisely. According to the model, traversing speeds of pusher of up to 300 m/min. are achieved – a considerable increase in productivity with maximum possible safety and highest convenience for the operator.



Automatic feeding, positioning and cutting

Workpieces with up to 150 kg are fed and positioned exactly and rapidly by a powerful pusher. The enclosed pusher guide is nearly maintenance-free and durable. The cut is released automatically.

High safety standard

With the OptiCut S 90 safe operation is possible: The complete saw area is clearly visible, but largely enclosed. The workpieces are automatically clamped during positioning, thus, it is impossible to reach into the cutting area.

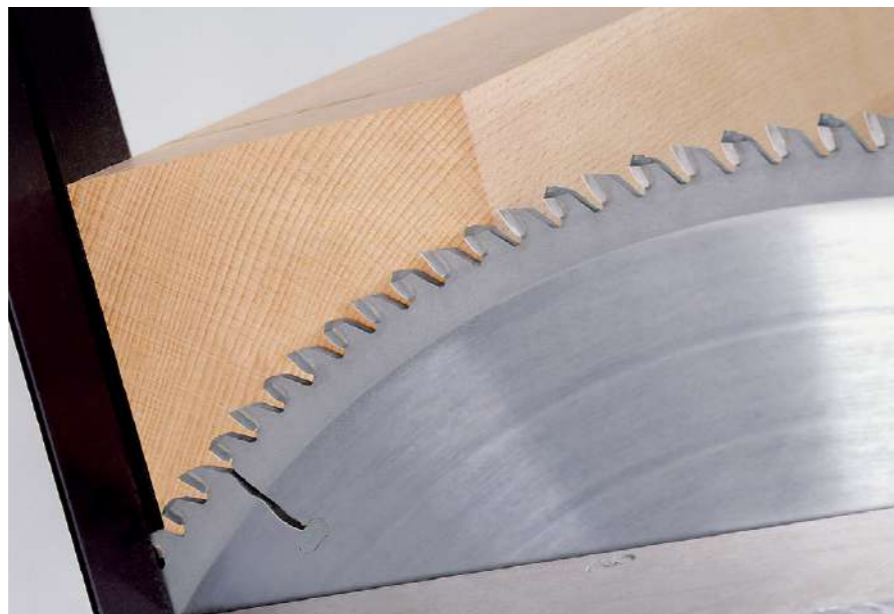
OptiCut S 90: The all-purpose starter model



The OptiCut S 90 captivates with its flexibility. Whether you want to cut packets, profiles, single boards or even round dowels – from individual cutting to series production – on the OptiCut S 90 all this is possible, almost without adjustments on the machine. One of the remarkable features of the starter model of the Vario Series is the handling of workpieces with weights up to 100 kg with a positioning accuracy of ± 0.5 mm. The cutting in packets results in a multiplication of the cutting capacity. We find the best solution for your production as many options are available for the OptiCut S 90 and most of them (e.g. optimisation, sorting, label printer, etc.) can be retro-fitted.

OptiCut S 90 Exact: Cut after cut with highest precision

The OptiCut S 90 Exact distinguishes itself by high-precision cuts. The controlled lateral pressure for high angularity, the pusher system with positioning accuracy of ± 0.1 mm, and a special precision saw aggregate provide for utmost accuracy. This capacity in cutting will satisfy even the highest requirements. Demands for exact lengths, angular cuts and a smooth cutting surface are completely met. And even solutions for a decrease of the tear-out are available.



OptiCut S 90 XL: Specialist for packets and big cross sections

The OptiCut S 90 XL is specially designed for the handling of packets and big cross sections. Workpieces with a weight of up to 150 kg and a maximum cross section of 280 x 180 mm or 420 x 40 mm can be processed on this saw. Even with big cross sections a surprisingly high cutting capacity and length accuracy are possible. It goes without saying that practical options are available for the OptiCut S 90 XL. Robust mechanisation and sorting solutions – also for big cross sections – make the handling of heavy workpieces easier.



OptiCut S 90 Speed: A solid performer that gets your production up to speed

The OptiCut S 90 Speed achieves as a pushing saw for the first time the breakthrough into the performance range of throughfeed saws. The top model Speed captivates with pure capacity and impresses with top speed in the production process – always keeping a sharp eye on the timber yield by means of full optimisation. The back stroke, the positioning and the cutting speed achieve in their combination a capacity that was only possible with throughfeed saws until now. Certainly, with all the advantages of a pushing saw: flexibility, accuracy and protection of the workpiece.



OptiCut + MillVision: The revolution in woodworking



MillVision simplifies your production process, maximises the yield, minimises the production costs and provides you with exact statistics: With different orders summarized in one cutting list, MillVision optimises the production process and ensures shorter production times. Producing more fixed lengths and less waste means lower investment in timber and therefore more profit. Higher productivity means lower inventory costs and less semi-finished products, improved material flow and reduced effort. MillVision compiles the whole production planning at a single blow.



MillVision deals with quite a lot of wood

Minimum batch sizes or series – with MillVision you work production orientated and optimise your production process. No matter whether you produce windows, floorings, furniture, kitchen cabinets, packing material, solid wood panels, etc.

MillVision simply works

MillVision is ready for immediate application anywhere. Without any problem, the data are picked up from existing programs or order lists. You decide about the raw material and the cross section to be treated on the machine – a push on the Touchscreen – and there you go.

OptiCut plus MillVision

Due to the perfect cooperation of OptiCut and MillVision, raw material of all qualities can be treated in a more economic way. Interim storage of residual pieces as well as the manual processing and entering of cutting lists become history which, in turn, prevents sources of errors. The operator is able to fully concentrate on the production process.

MillVision works automatically

From all customer orders that have to be processed, MillVision searches all workpieces of the chosen timber species with the corresponding cross section and profile and compiles the corresponding cutting lists that are directly transmitted to the OptiCut.

MillVision organises perfectly

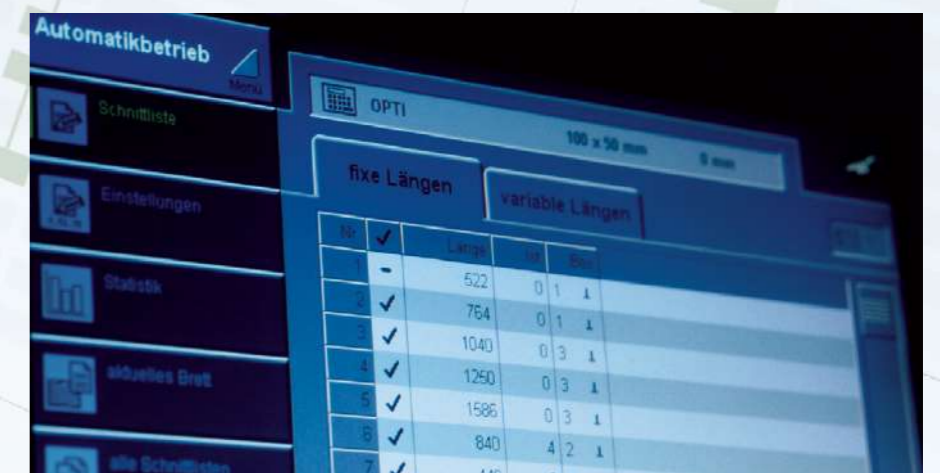
The cut pieces are marked clearly directly after the cutting process by means of an integrated label or inkjet printer. Furthermore, the OptiCut reports the status of cut pieces and additional information back to MillVision. Thus, all data of each single part can be identified always and at each point of the production process.

Certainly, further production machines like double-end profilers, Conturex, Powermat or Unicontrol can be integrated into the system. This will significantly reduce your organisational work and you always have a perfect overview.

OptiCom Pro: Easy operation, more profit

Simple user interface, clearly arranged and detailed production statistics, optimum timber yield and maximum profit – that is OptiCom Pro, the intuitive Touchscreen control of the OptiCut. All important operational controls at a glance and the ideal connection to MillVision.

Further advantages: Reliable operation without hard disk • Secure saving on flash card • Possibility of direct printer connection • Can be directly integrated in Ethernet networks • Easy generation of cutting lists and statistics evaluation in the office • The ideal solution for linking management and production • Possibility of integration into branch specific solutions and customer networks.



Cutting solutions by WEINIG: The ultimate turnkey package for the OptiCut S 90



The cutting solutions from DimterLine are automated cross-cut lines with peak performance coupled with a high safety. Cutting is one of the most important processes in the working of solid wood since already at this point the yield, and with it the quantity of material that is available later on, is determined. By means of the intelligent optimising software you always make the best of your timber – the maximum profit. The operator marks only the timber defects and/or different grades of quality, the rest is carried out independently by the machine: precisely, quickly, with a minimum percentage of waste.

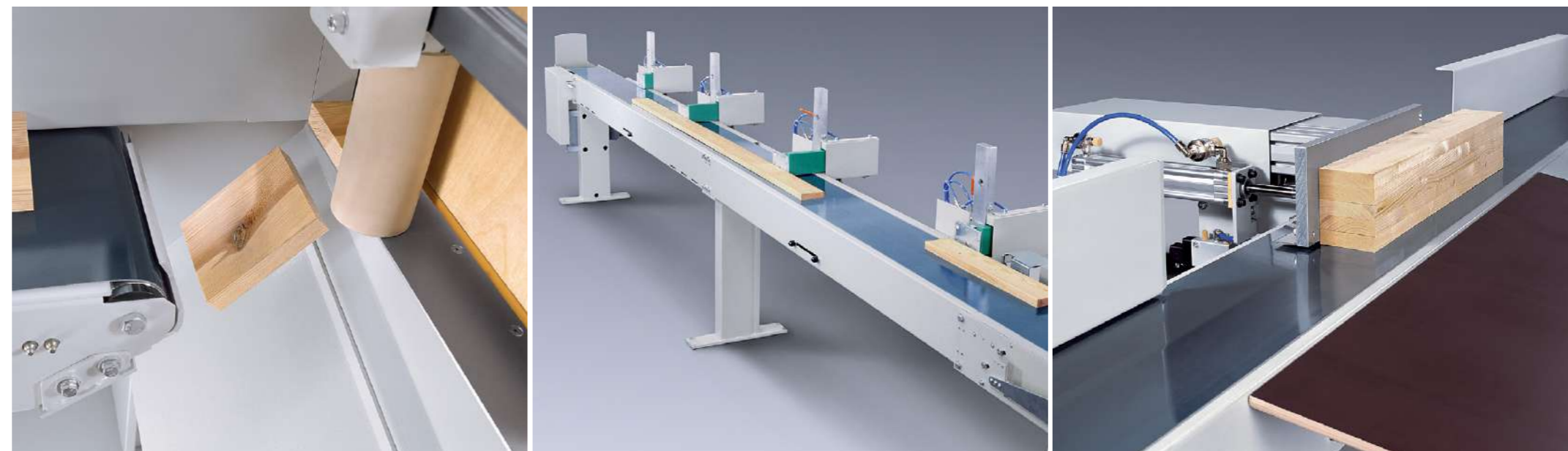
OptiCut cross-cut saws are designed for highly automated working so that you can deploy your staff for tasks that demand more. An enormous increase in capacity is provided by cross feeding devices, where the machine can feed itself automatically with material coming from a buffer magazine. Furthermore, for the OptiCut S 90 Speed a clamping device is available that makes the machine even more efficient. Thus, in combination with a cross feeder, reliable high daily performances are achieved.

WEINIG makes cutting perfect: Solutions after the saw

After the cutting, the precisely cut lengths are ideally controlled. Via the waste gate the pieces are delivered to an automatic sorting. The simple handling increases productivity and reduces your costs per piece. We offer complete solutions, specific to the customers' requirements, for a modern and future-orientated production.

Waste pieces are reliably discharged directly after the cutting by means of the **waste gate** – for highest safety in operation. In addition, the wide opening eliminates unnecessary cuts in long waste pieces. Nevertheless, shortest accepted lengths can be reliably sorted via the automatically closed gap.

Each model can be equipped with the **automatic sorting** directly behind the saw blade. The ejectors can be activated separately. Also for the cutting of packets that are put on top of each other, it is possible to do the sorting at any number of sorting stations since the boards are delivered directly, i.e. without a level difference between sorting belt and table.



WEINIG cross-cutting systems: Expandable investments in your future

The OptiCut is prepared for the future development of your factory: Many options can be retro-fitted at a later time. For instance, each OptiCut with "automatic length measuring" and "detection of defects" is an adequate optimising cross-cut saw. Intelligent options include, amongst others, printers for clear marking of the workpieces and the automatic stacker OptiCut Stacker.

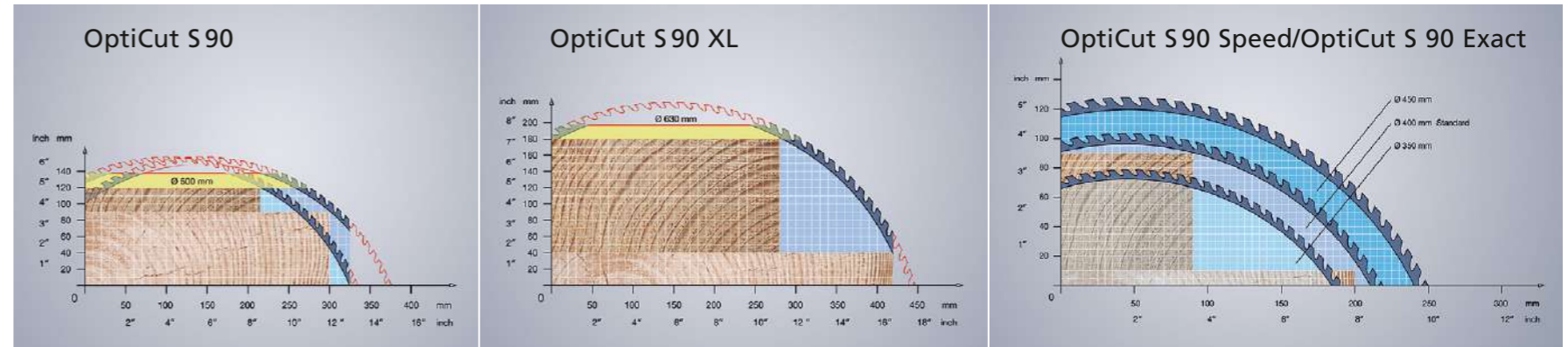


For the clear identification of the pieces after the cutting, inkjet or label printers are used.

The **inkjet printer** marks the material fully automatically with the requested data as e.g. length, quality or commission numbers. The workpiece can be marked from top, from the side or even on the face – without any loss in capacity on the saw.

With the **label printer** labels can be generated and applied fully automatically, with the printer being completely integrated into the control of the OptiCut S 90. Due to the bar code, the identification of the piece becomes even machine-readable and further machines in the production process can even adapt themselves correspondingly to the workpiece. Individual designs of the labels are no problem in this situation.

Turn your OptiCut into a fully automatic cross-cut line. We offer you the customised peripheral equipment in a modular system. Fully automated lines with **cross feeding** and a subsequent **OptiCut Stacker** for the automatic stacking of preferred lengths will enable you to cut more with less staff but with reliable high daily performances.



Attention! On determination of a possible timber cross section bends and differing timber dimensions have to be taken into consideration.

Overview table OptiCut S 90 Series: Standards and options

The matrix shows the basic technical data of the machine series. Your WEINIG expert will voluntarily provide you more detailed information in consideration of your individual requirements.

These are standard values for a better overview. Ask us if your requirements differ. Depending on the design of the machine the technical data may change () = optional

	OptiCut S 90 Series
Max. ingoing lengths	6.3 m
Max. weight of workpiece	100 kg (150 kg)
Max. traversing speed of pusher	60 m/min (300 m/min)
Min. fixed length with sorting	80 mm
Positioning accuracy	± 0.5 mm (± 0.1 mm)
Nominal power feed	2.1 kW (5.1 kW)
Transient / peak power	5.0 kW (8.0 kW)
Nominal power saw motor	7.5 kW (13.5 kW)
Durable, maintenance-free, robust pusher guide	●
Reduced stroke of down holder for increased capacity	●
Optimising with up to 4 grades of quality	○
Automatic cross feeding with automatic control of buffer	○
Waste gate	○
Automatic sorting	○

Subject to technical modifications. The information and illustrations in this brochure also include extras which are not part of the standard package. Protective coverings may have been removed for purposes of photography.

● Standard ○ Option

WEINIG quality: The sum of many properties



Not many companies succeed in becoming a brand. WEINIG has succeeded in doing so. Trust plays a central role here. And the ability to prove this trust on a daily basis with our customer. We do this with quality. From product development to our supply of spare parts, from materials used to our worldwide service network. Based on employees noted for their expertise and passion for the product. Utmost care in assembling machines is part of this, as is continuous training. In order to maintain WEINIG's high standards we focus on vertical integration and independent quality management. Based on the world famous kaizen method, our production undergoes a continuous optimization process.

But WEINIG quality also means aligning production for the future with open machine systems, energy efficiency and sustainability. All these characteristics blend to create a product praised by our customers around the globe as outstanding. We call it 100% WEINIG quality.



or more information,
go to film6.weinig.com

WEINIG service: Very close to customers



Customer relations are good. But we have a better word for it: WEINIG service. Supported by people who want to share their enthusiasm for wood with others. And when experts start talking together, a solution is not far away. This is why WEINIG service focuses on dialog with you, on outstanding training and a local support presence. The global WEINIG service network is so densely spread like no other in the sector. For you this means easy communication in your own language and rapid help. Whether by telephone or by a technician on site. We are here for you when you need it. You can order any spare part you need via the hotline for rapid delivery - even old models.

You will be advised in detail by a professional WEINIG expert in your country. In our individually tailored training programs you can find out how to optimally exploit the capabilities of your machine. Our specialists are always open to your production tasks.

- Subsidiaries in all continents of the globe
- Local WEINIG expert who speaks your language
- Mobile team of over 300 service technicians
- Spare parts via the hotline
- Professional advice by specialists via the hotline
- 6 day service
- Individually tailored training program
- Service agreements on request
- International ExpoCenter
- Financing to suit your needs

OPTICUT S 90 SERIES



WEINIG GROUP

sales@weinig.com
www.weinig.com