

OPTICUT S 90 SERIES.

THE FULLY AUTOMATIC CROSS-CUTTING CENTER
FOR MODERN WOOD PROCESSING.



WEINIG OFFERS MORE.



ONE SERIES – MAXIMUM PRODUCTIVITY, UNLIMITED APPLICATIONS.



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Even though the wood industry is receiving more orders every day and demand is constantly increasing, companies of all sizes are facing growing challenges. The shortage of skilled labor is just one of them. Almost all work processes are affected. In solid wood processing in particular, the heavy physical work and the associated health risks are making the job increasingly unattractive.

The optimizing cross-cut saws of the OptiCut S 90 series from WEINIG help to overcome precisely this problem with a high degree of automation and versatile mechanization components.

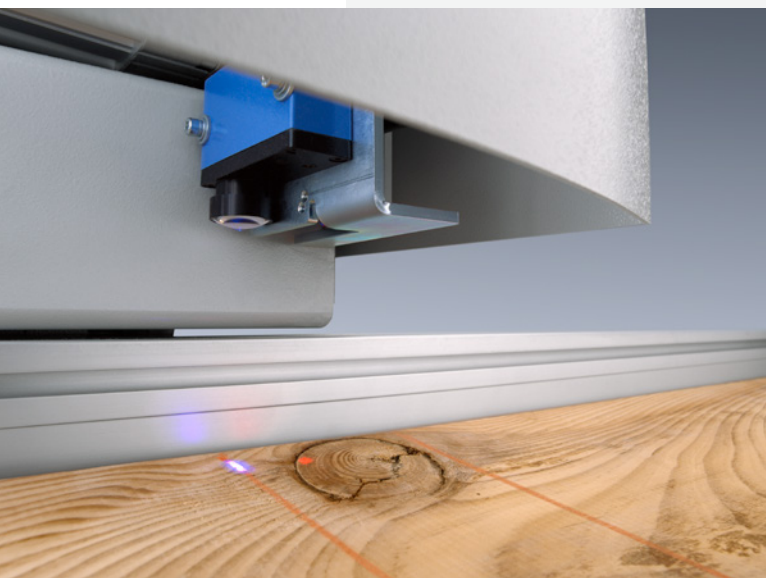
Cross-cutting is one of the most important processes in solid wood processing. This process determines the material yield and consequently the amount of material that will be available later. The OptiCut S 90 series impresses with its cutting precision, flexibility and maximum safety. It will take your production to a new level and will deliver more added value.



THE RIGHT MODEL FOR INDIVIDUAL REQUIREMENTS.

The models from the WEINIG OptiCut S 90 reflect a practice-oriented machine concept that provides the right product for every requirement. No matter whether you need to cut single boards, board packages, profiles from solid wood, panels or other materials, you can always decide on the equipment and configuration level of every machine flexibly.

WEINIG also offers numerous options for individual retrofitting of the individual models. This includes mechanization units, sorting devices and stacking options. This enables the saw itself and the processes in the infeed and outfeed areas of the machine to be precisely configured. For maximum flexibility in any production scenario – at any time.



OPTICUT S 90: THE ENTRY-LEVEL MODEL.

The OptiCut S 90 is defined by its universal application possibilities. Whether packages, profiles, single boards or even dowels – from individual cuts to series production – all this is possible with the OptiCut S 90. The S 90 model has been proving its worth in practice for around a quarter of a century. It is used when robustness, precision and speed are required to optimize material yield. The S 90 optimizing cross-cut saw forms the reliable basis for the other models in the series. Reliable and sophisticated, it takes your production to the highest level.

OPTICUT S 90 SPEED: INCREDIBLE PERFORMANCE FOR PRODUCTION AT FULL SPEED.

The OptiCut S 90 Speed is the high-speed model in the series. It impresses with maximum performance at breathtaking speed in the production process. Maximum material yield is ensured thanks to cutting pattern optimization and fixed-length cutting for different wood qualities. Return stroke, positioning and cutting speed combine to achieve a capacity that was previously only possible with through-feed saws. All the advantages of a push-feed saw are of course retained: flexibility, accuracy and workpiece protection.



OPTICUT S 90 EXACT: OPTIMAL PRECISION CUT BY CUT.

The OptiCut S 90 Exact is characterized by highly accurate cuts. Controlled lateral pressure for precise angles, a push-feed system that can be positioned precisely down to ± 0.1 mm, and a particularly precise sawing unit with servo-controlled saw stroke ensure outstanding accuracy. This cutting capacity meets the highest requirements. Solutions to reduce break out is also available.

OPTICUT S 90 PRECISE: CUTTING GUIDANCE WITH MAXIMUM PRECISION FOR THE MOST SENSITIVE MATERIALS.

Unlike all other models in the S 90 series, the OptiCut S 90 Precise is equipped with a sawing unit for a drawing cut and optionally with an additional scoring unit. This model-specific design of the saw makes it possible to cut not only solid wood but also fragile materials such as coated MDF or chipboard profiles without break out.





OPTICUT S 90 XL: THE SPECIALIST FOR PACKAGES AND LARGE DIMENSIONS.

The OptiCut S 90 XL is specially designed for package operation and large dimensions. It can also be combined with the Speed version and guarantees high cutting performance and excellent length accuracy, even with large cross-sections. It goes without saying that suitable options are available for the OptiCut S 90 XL. Robust mechanization and sorting solutions facilitate the handling of heavy workpieces.

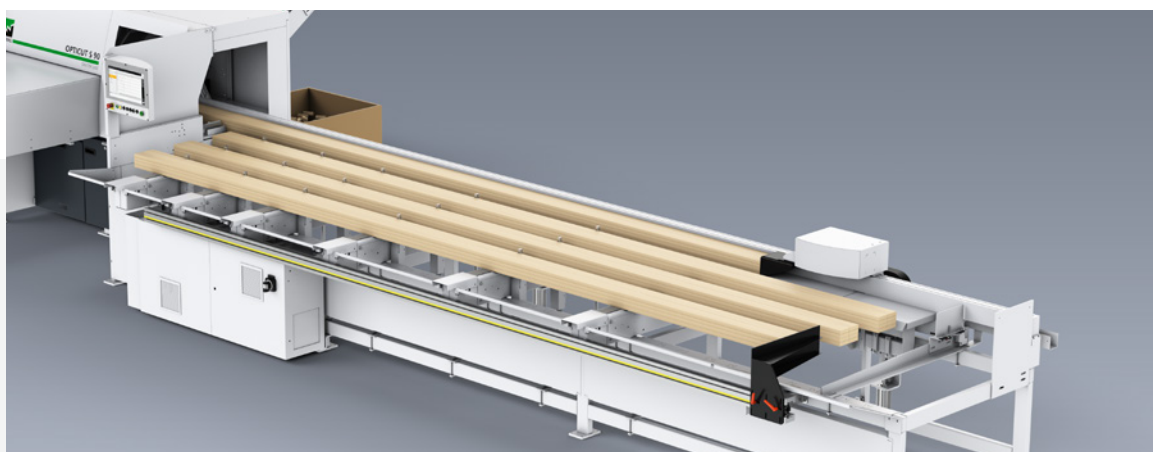
OPTICUT S 90 XXL: FULL POWER FOR HEAVY WORKPIECES AND EXTREME CROSS-SECTIONS.

The OptiCut S 90 XXL features equipment options for cutting unedged planks and boards as well as large board packages. With the special, segmented pusher, even material that has been cut to length at an angle can be cut almost at right angles for subsequent process steps. The large saw blade diameter, the spiked hold-down unit and the solid design of the infeed and outfeed form the perfect basis for demanding use when cutting hardwood and large cross-sections.



FLEXIBLE CONFIGURATION FOR ALL REQUIREMENTS.

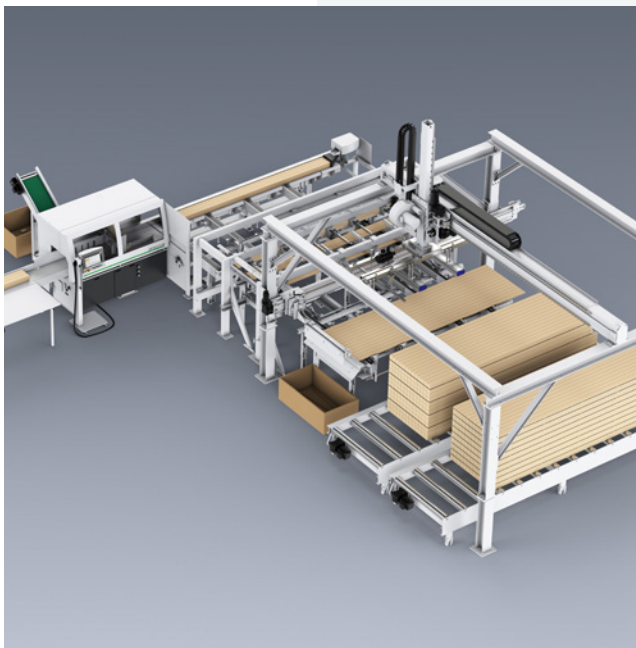
A high degree of automation and maximum flexibility are becoming increasingly important in companies of all sizes. With the complementary modular system, WEINIG offers customized peripherals for the OptiCut S 90. Depending on requirements and application, both the appropriate infeed mechanization and the supplementary outfeed mechanization are available. In this way, WEINIG enables the flexible configuration of a fully automated cross-cutting line – with outstanding performance capacity and maximum safety at the same time.



MAXIMUM INFEEED BUFFERING.

The cross-conveyor with catches not only automates the feeding process, but also increases the output. The plastic chains are intelligently controlled to achieve the maximum buffer effect. They have a smooth surface and require neither oil nor other lubricants for trouble-free operation. This also makes them suitable for transporting surfaces and qualities that need careful handling.

The buffer function creates ideal conditions for an uninterrupted sawing process. While the saw continuously processes the buffer, there is sufficient time in parallel to prepare the cutting list, replenish the raw material or move and stack the cut lengths. This ensures a smooth workflow and thus high efficiency.



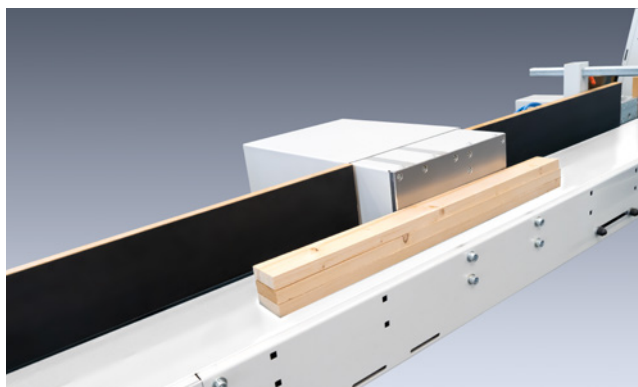
FULLY AUTOMATIC LOADING.

Manual loading of the OptiCut S 90 places high demands on the operator. Positioning and packaging the sawn goods by hand is particularly demanding physically. The automatic vacuum gantry with downstream packaging unit, which loads raw wood into the system, makes this a lot easier. The unit ensures continuous, unmanned feeding of the saw – both with individual board layers and with automatically formed board packages. The lifting capacity and the required buffer spaces under the gantry can of course be individually adapted to the each company's specific process.

BUFFERING OF THE CUT FIXED LENGTHS.

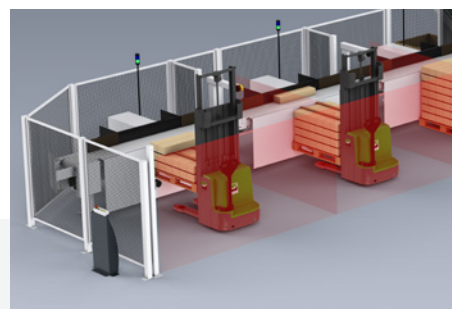
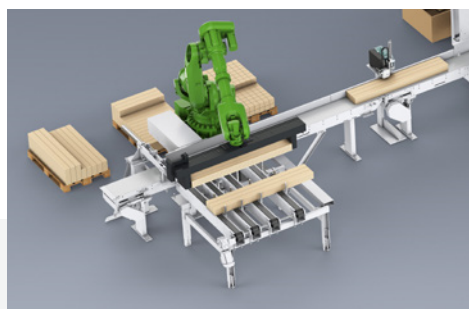
In addition to a standard table in the outfeed, the OptiCut S 90 can also be equipped with an additional lateral pusher table. The finished workpieces then lie in the outfeed of the machine according to the cutting sequence. This solution creates tremendous advantages for one-man operation. The very short distances allow the operator to perform destacking while the machine is processing the next workpiece.





SORTING OF THE CUT FIXED LENGTHS.

Each model can be equipped with a matching sorting system. Individually controllable pushers allow the workpieces to be ejected according to quality, length and/or customer orders at any number of stations. Automatic sorting saves a significant amount of time in the overall process, as manual sorting of individual workpieces is no longer necessary.



AUTOMATIC STACKING IN THE OUTFEED AREA.

WEINIG offers smart automation solutions for the OptiCut S 90 series to optimize the production process in the outfeed. The automatic OptiCut Stacker stacks preferred lengths in various dimensional configurations. Thanks to the use of modern robot technology, faster product changeovers become possible with several different fixed lengths, which ensures a high level of flexibility. Such solutions also ensure efficient production processes in smaller operations.

One of them is the EuroStacker, an extension for semi-automated operation of the OptiCut S 90. This pallet truck can be used both as a stacking system and for transporting the cut fixed lengths on the premises. The different stacking systems can of course also be used in combination with each other.

INDIVIDUAL CUSTOMIZATION. NO IFS OR BUTS.

Every company has specific requirements to ensure production with the highest performance. And that is precisely why the OptiCut S 90 series offers a versatile selection of options for maximum efficiency. Do you need to cut packages and individual workpieces, process raw material and finished material and/or handle exact lengths? WEINIG offers the right combination of options for each of these steps, so that the finished line exactly matches the needs of your business.



FEED MATERIAL SAFELY INTO THE SAW.

High production speeds require absolutely neat cutting quality for maximum efficiency. For this reason, WEINIG offers the option of equipping the OptiCut S 90 series with different pusher block widths.

It is possible to configure a version with a clamping device to maximize the forward and return stroke speed. This means that the material is in full contact with the pusher at all times, making the machine even more efficient.



THE RIGHT LEVEL OF PRESSURE FOR EVERY PRODUCT.

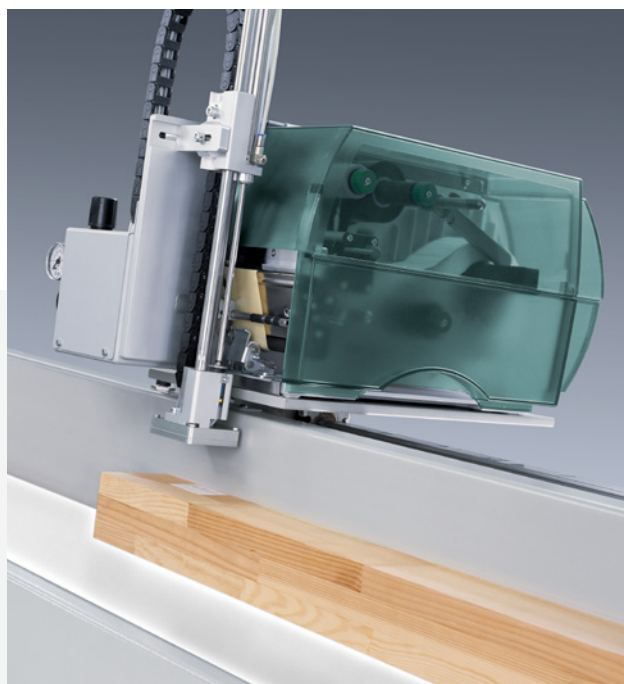
Only perfect pressure guarantees perfect squareness and a clean cut. A large selection of pressure rollers is available for the OptiCut S 90 series so that the right pressure can be used for every application. They can be used from above or from the side, both before and after the saw cut. Additional features, such as pressure shoes and side guides, can also be added.

REMOVE RESIDUES FROM THE PROCESS SAFELY.

Outward transfer of trim cuts and offcuts as well as cut out defects is an important process step that not only ensures a high level of operational safety, but also a trouble-free workflow. Waste parts can be reliably discharged via a servo waste gate or a waste flap directly after cutting. The ability to dispose of long waste parts via large openings reduces the need for time-consum-

ing cutting of waste parts. And even the shortest good lengths can be reliably sorted or pushed off via the automatically closed gaps. The waste parts are collected directly under the saw or transported to the next process via a waste conveyor belt.





MARKING FOR QUICK IDENTIFICATION.

WEINIG offers different types of marking for the clear identification of cut parts. A distinction is made between label printers and inkjet printers, which are fully integrated into the OptiCut S 90 control system. The fully automatic marking of the material includes numerous data elements, such as length, quality or commission numbers. Using individual print designs is no problem at all. Among other things, this allows you to print a barcode or QR code with data for part identification. These codes can be read digitally so that downstream machines, such as a Conturex processing center, can adjust to the workpiece in the next process. The printers can be variably positioned within the saw, which enables marking of the workpieces from above, from the side or even from the front.

DRILLING UNITS FOR A SMOOTH PROCESS.

WEINIG offers the Powerdrill or Superdrill drilling and drilling/milling units for the S 90 series. Depending on the application, the cross-cut system can be extended by up to two processing steps with these units. The integration of these units upstream of the sawing unit of the S 90 series enables drilling, milling and cross-cutting to be carried out in a single operation.



DRILLING WITH THE POWERDRILL.

The Powerdrill drilling unit is especially suitable for creating assembly and through-holes in the 4-10 mm range. This makes it the ideal addition for processing workpieces that need to be pre-drilled and cut to length before their final assembly, for example visible facades, supporting elements for upholstered furniture and cladding.

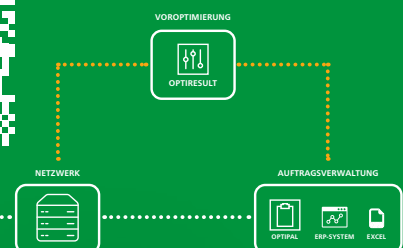


DRILLING AND MILLING WITH THE SUPERDRILL.

The Superdrill drilling and milling unit has a servo-controlled drilling and milling module with variably adjustable speed. The drills and milling cutters are clamped backlash-free via an HSK shank mount for various additional machining operations. An optionally available tool magazine provides the right tool at any time and can therefore be used for dadoes and trench cuts, chamfered edges, through holes and blind holes.

THE RIGHT SOFTWARE FOR EVERY SYSTEM.

WEINIG offers a comprehensive portfolio of intelligent software solutions - for greater efficiency, higher profitability and maximum productivity. The complete range and information on which version is suitable for your application, can be found at cutting-software.weinig.com



THE OPTICUT S 90 SERIES – WHICH MODEL IS THE RIGHT ONE?

You have only **very limited space**, but don't want to compromise on performance and precision?

Then the OptiCut S 90 is highly versatile in a table/table configuration. It can be retrofitted with numerous options as required.

What matters to you most during processing is **accuracy, squareness and neat machined surfaces**?

The OptiCut S 90 Exact with a precision sawing unit fulfills precisely these requirements. Additional options enable cutting without any break out.

You do not have much personnel for processing particularly **heavy workpieces** or simply want to increase your capacity?

All models in the OptiCut S 90 series have robust mechanization solutions that facilitate the handling of heavy workpieces, ensure operation even with limited personnel and increase output.

You need a cross-cut system that is suitable for processing **extremely heavy workpieces in large dimensions** on a regular basis?

Then the OptiCut S 90 XXL with a large saw blade diameter, spiked hold-down unit and solidly constructed infeed and outfeed is ideally suited for this application.

You not only process solid wood, but also use your cross-cut system for cutting **fragile materials** such as coated MDF or chipboard profiles?

In this case **the OptiCut S 90 Precise** with a sawing unit for a drawing cut is the machine that allows you to achieve neat and tear-free cuts.

Do you regularly process a **high volume of raw material and need direct length or customer-specific sorting**?

Then you should choose the Opticut S 90 Speed. It can be flexibly combined with an automated stacker for package cutting and offers many sorting options in the outfeed. The high capacity of the OptiCut S 90 Speed is achieved by the perfect interaction of return stroke, positioning and cutting speed.

Do you regularly process **large dimensions** such as beams or large packages of boards?

The OptiCut S 90 XL with its large sawing unit and powerful pusher motor is the perfect equipment for this task.

Do you need personal consultation?

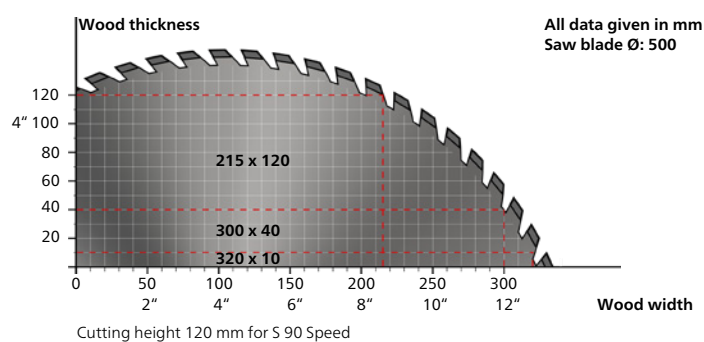
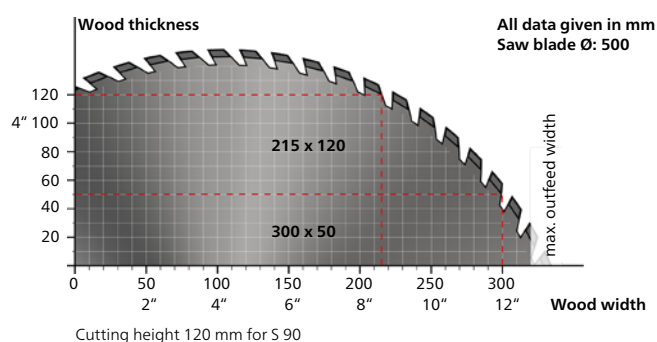
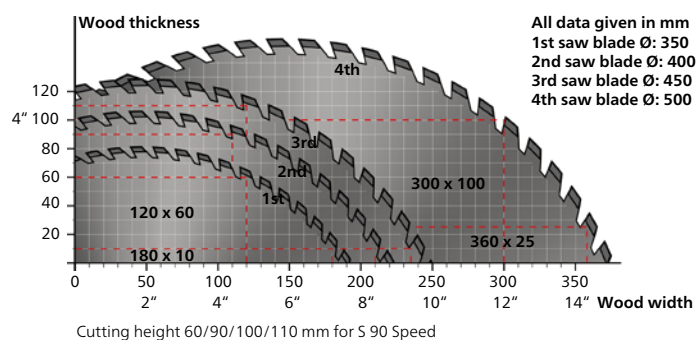
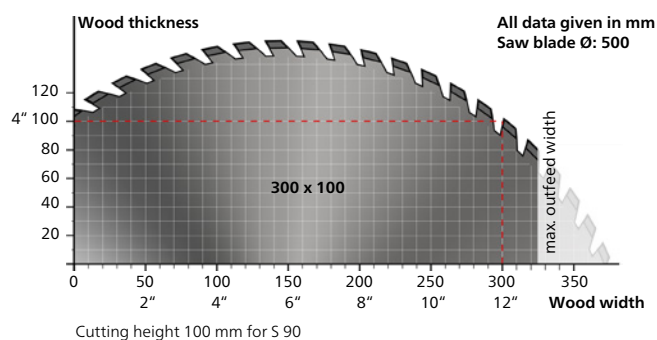
Contact your WEINIG expert or send an e-mail to sales@weinig.com

TECHNICAL SPECIFICATIONS OF THE SERIES AT A GLANCE.

	OptiCut S 90	OptiCut S 90 Speed
Wood ingoing lengths 2700 / 4500 / 6300 mm	✓	✓
With Powerdrill drilling unit	○	
With Superdrill drilling and milling unit	○	
Saw motor performance	7.5 / 13.5 kW	7.5 / 13.5 kW
Saw blade Ø	500 mm	350 / 400 / 450 / 500 mm
Min./max. cutting height*	8–100 / 8–120 mm	8–100 / 8–120 mm
Min./max. cutting width*	20–300 mm	20–360 / 20–320 mm
Max. workpiece weight	100 / 150 kg	100 kg
Pusher travel speed	60–120 m/min	up to 240 m/min
CE-compliant, BG-tested	✓	✓

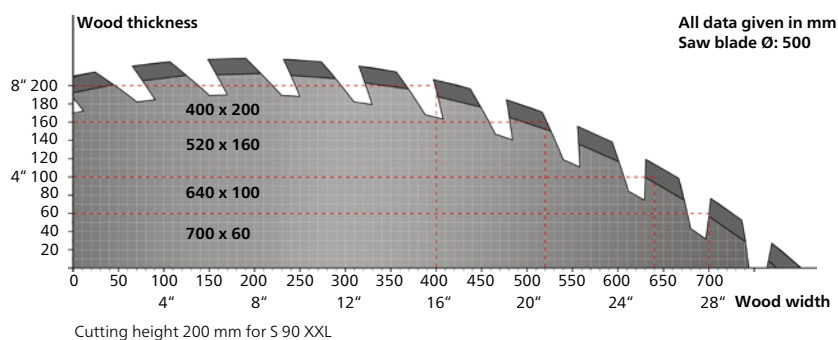
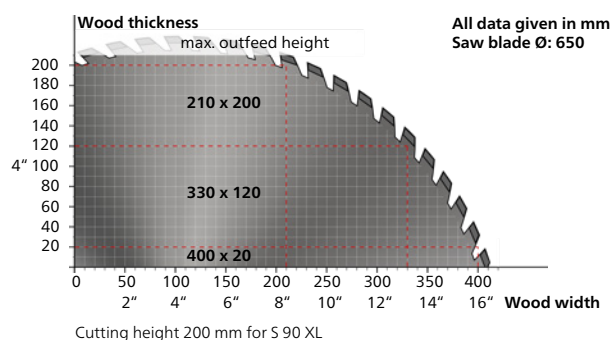
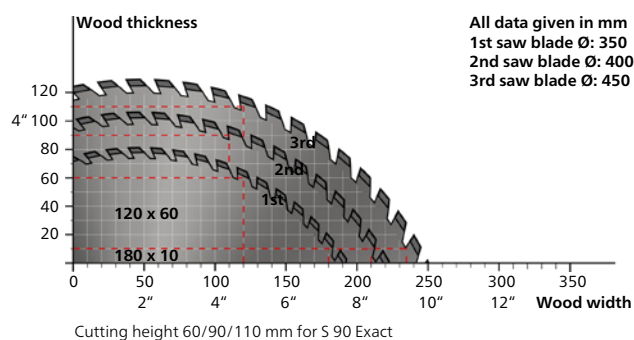
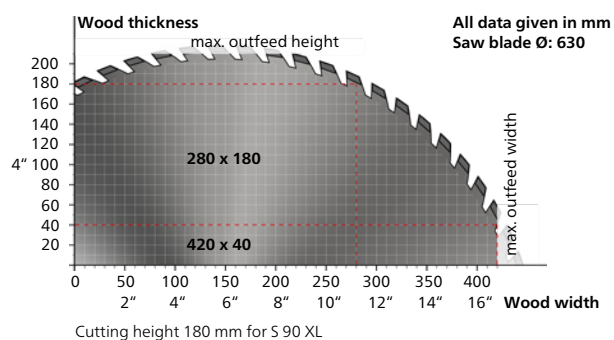
✓ Standard

○ Optional





OptiCut S 90 XL	OptiCut S 90 XXL	OptiCut S 90 Exact	OptiCut S 90 Precise
✓	✓	✓	✓
○			
○			
13.5 / 18.5 kW	13.5 kW	7.5 / 13.5 kW	6 kW
630 / 650 / 700 mm	650 mm	350 / 400 / 450 mm	500 mm
10–180 / 10–225 mm	10–200 mm	80–110 mm	10–70 mm
20–400 / 20–420 mm	20–700 mm	20–235 mm	20–340 mm
150 kg	150 kg	100 kg	100 kg
60–120 m/min	60 m/min	60–120 m/min	60 m/min
✓	✓	✓	✓



* The cutting height and width may vary depending on the machine configuration. Subject to technical alterations. Statements and pictures in this brochure may contain items that are not included in the standard scope of supply. Some protective covers were removed for photographing.

WEINIG OFFERS MORE.

Those who buy a WEINIG machine today know that they are optimally equipped for the future of their business.

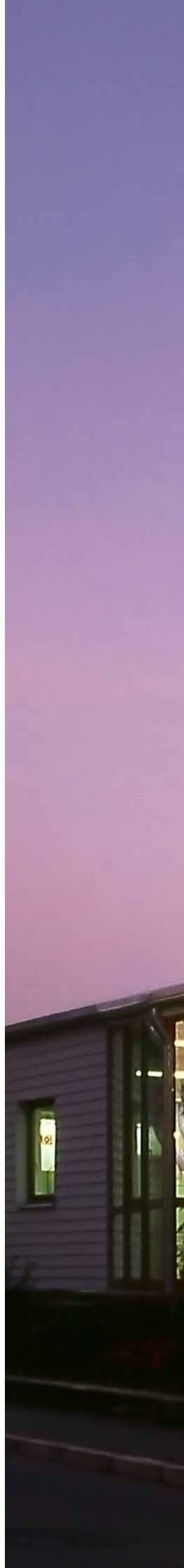
100% Quality – WEINIG machines must satisfy the highest standards. That is why the greatest care in development and manufacturing is a traditional virtue at WEINIG. You benefit from this by the long service life of your valuable investment.

Reliability – The availability of a machine determines how profitable your business is. WEINIG's systems are known for their high standard. More than 80,000 machines from WEINIG are operating around the globe to the utmost satisfaction of our customers.

Expert advice – Whether you need the expertise of WEINIG for turnkey solutions or the know-how of a WEINIG expert at your door – you can always rely on our committed sales team. Ultimately you will have a customized solution that offers you maximum added value.

Everything from a single source – With WEINIG you have an experienced full service provider as your partner. From rough cutting to stacking, from a stand-alone machine to a fully automated turnkey production system. And, of course, including a comprehensive service package.

LifeTime services – Reliability is reassuring. If worse comes to worst, our trained service engineers will be quickly on site. WEINIG maintains a unique closely woven service network worldwide. It is so closely woven that no customer can fall through!





Contact us!

We will be happy to determine with you in a personal conversation which version of the OptiCut S 90 series fits your individual requirements and which useful options are exactly right for you.

Your WEINIG experts

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WEINIG OFFERS MORE.

