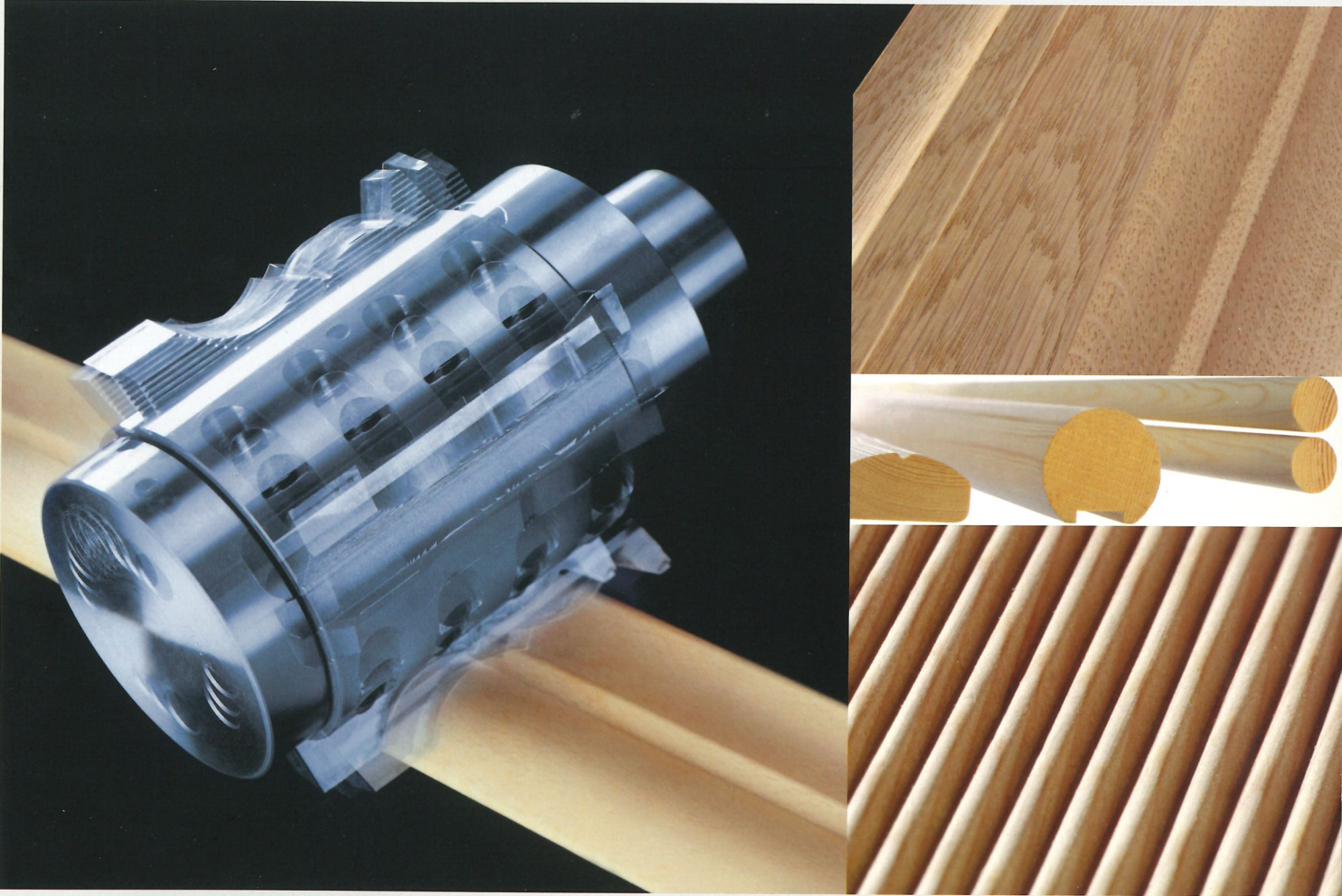


Powermat-Series

The Revolutionary New Moulder Concept



WEINIG presents: The New Moulder Generation

Super-fast processing of solid wood and composite materials, such as MDF and even plastic. Designed to produce large and small runs. Efficient and profitable. Sets up in virtually no time. Easy-to-use, compact tooling. As simple to operate as a push-button telephone. And at the end, quality superior to anything you have seen before! Someone's dream? No, it's the new WEINIG Powermat Series. Revolutionary new technology for the woodworking industry.



What are your requirements? It's up to you. Make your choice from our wide range of moulders. From the Powermat 500 to the fully automatic moulder, the Powermat 3000. Then build the support system around the moulder. Cutter heads, measuring systems, setting aids, grinders, and material handling. Everything from one source. Everything from WEINIG. Productivity without limits. Intelligent and practical technology oriented to simple and easy operation.



- The Powermat –**
Holding all the high cards:
- excellent performance
 - unsurpassed surface quality
 - shortest set-up times
 - repeatability of set-up
 - optimal solution for every demand
 - fast, easy adjustments
 - comfortable, simple operation
 - maximum safety
 - easy integration into existing, productivity-increasing WEINIG system solutions



WEINIG

POWERLOCK

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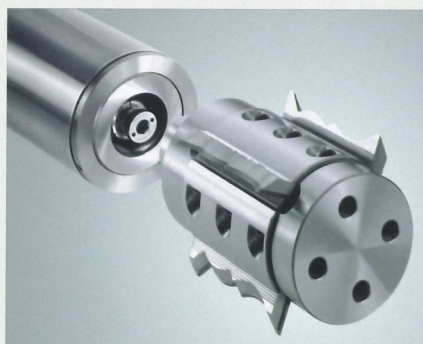
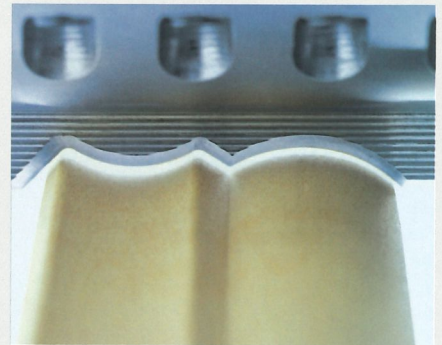
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WEINIG PowerLock System: Short set-up times and simple operation

Forget the old-fashioned spindle! Now, there is the new patented WEINIG PowerLock System that incorporates the "spindle" into the cutter head. The easy-to-use, compact cutter heads are changed in a matter of seconds. No spindle. No spacers. No spindle nut. No wrenches. No mistakes. Cutter-head speeds up to 12,000 rpm (only feasible with PowerLock) make it possible to double the feed rates in comparison to conventional machines. With PowerLock, the higher feed speed significantly reduces the cost per unit and cuts delivery times. The WEINIG PowerLock System opens up opportunities never before dreamed of in moulding operations.

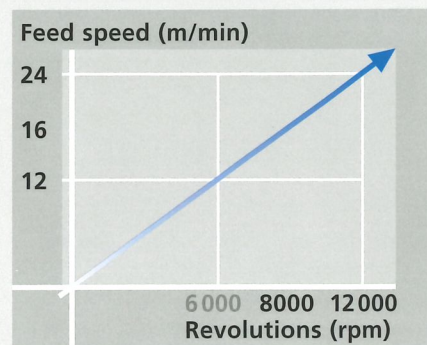


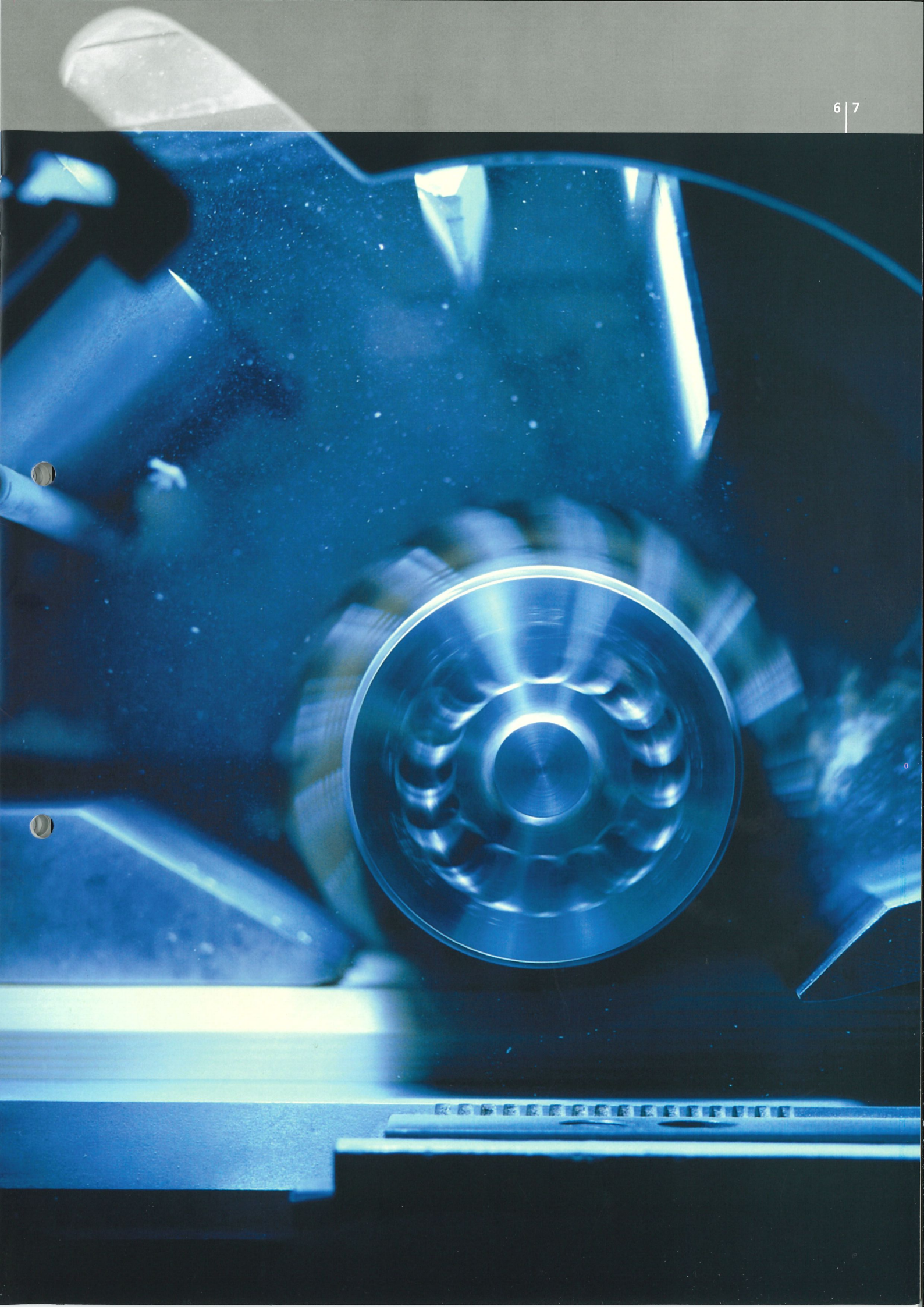
Change a cutter head by pressing a button

Unclamp tool by pressing a button, remove. Insert new tool, clamp in place by pressing a button. Done! It makes no difference whether it is a Weinig PowerLock tool, a cutter head with PowerLock clamping, your conventional cutter head, insert tool or saw blade with a PowerLock adapter – so fast, easy and comfortable with the WEINIG PowerLock System. Never before has a cutter head on a moulder been so easy to change. And by the way, PowerLock tooling is not only available from WEINIG; it is offered by most of the leading tool manufacturers.

WEINIG Powermat: Our formula for first-rate surface finishes and fast, simple set-ups

Competition is getting tougher and tougher, delivery time demands shorter and shorter, and the need for higher quality ever increasing. WEINIG Powermat moulders successfully address all your requirements. Cutter-head speeds up to 12,000 rpm are possible with the Powermat. When top quality is demanded, this performance is simply not possible with conventional machines. Tool and tool holder clamp solidly with tremendous rigidity, no imbalance, no vibrations! Add in the advantage of a lighter cutter head, and the end result is a moulder that will outperform any conventional moulder in any market on any product.



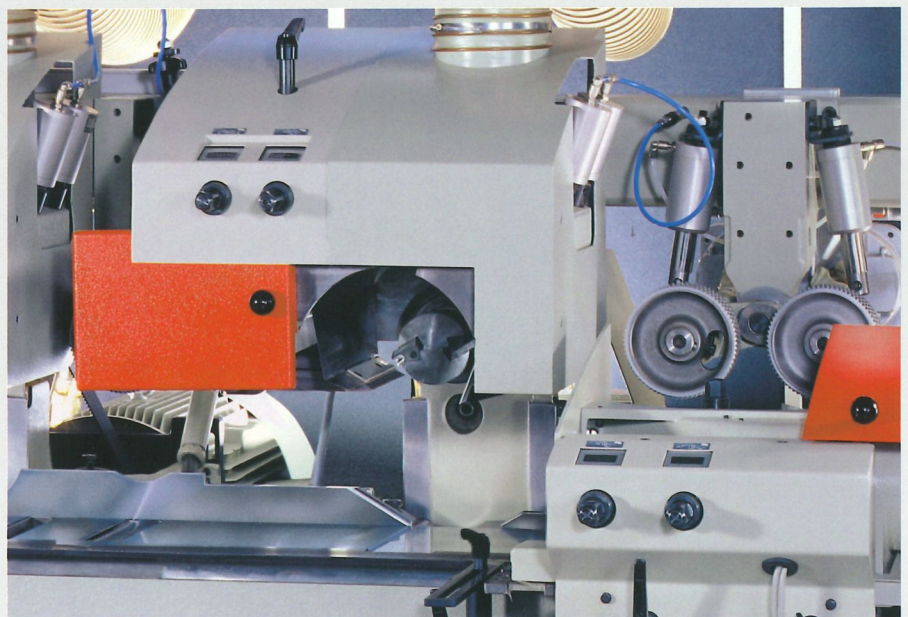


WEINIG Powermat 500: Your entry into the Powermat revolution

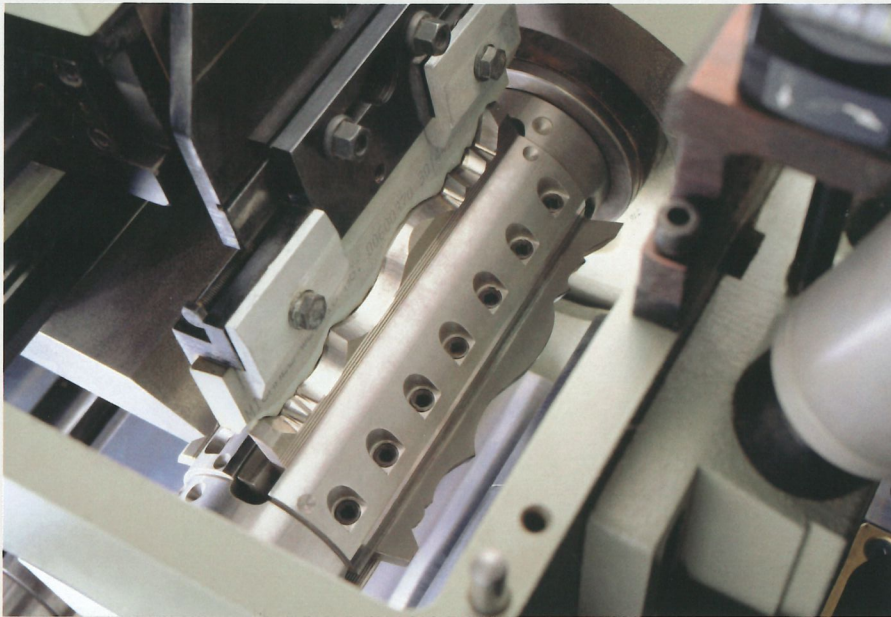
Welcome to the world of WEINIG advanced moulding technology! With the Powermat 500 you move by leaps and bounds into a higher performance moulder. Superior change-over technology and tool speeds of 8,000 rpm result in 33% more productivity with outstanding surface finish. Shortest toolchanging time because of the PowerLock tool system and "memory" of all your setting and profile data. Very simple to operate and available with many options. With the ability to use both PowerLock AND conventional cutter heads, the Powermat 500 is the ideal entry into the new technology.

WEINIG Powermat 1000: A new definition of "perfection"

The Powermat 1000 has all the advantages of our new moulder generation and offers great performance with ample flexibility. Well equipped in standard, and with many available options, you are prepared for the future. With up to 11 cutter-head positions, this moulder can be customized to handle the most ambitious demands of your operation. Simple operation using the PowerCom touch screen gets your production started in seconds. And the new "Easy Set" hood technology puts the finishing touches to quality and set-up time. All this, plus the ability to utilize the new PowerLock cutter heads AND conventional tools.

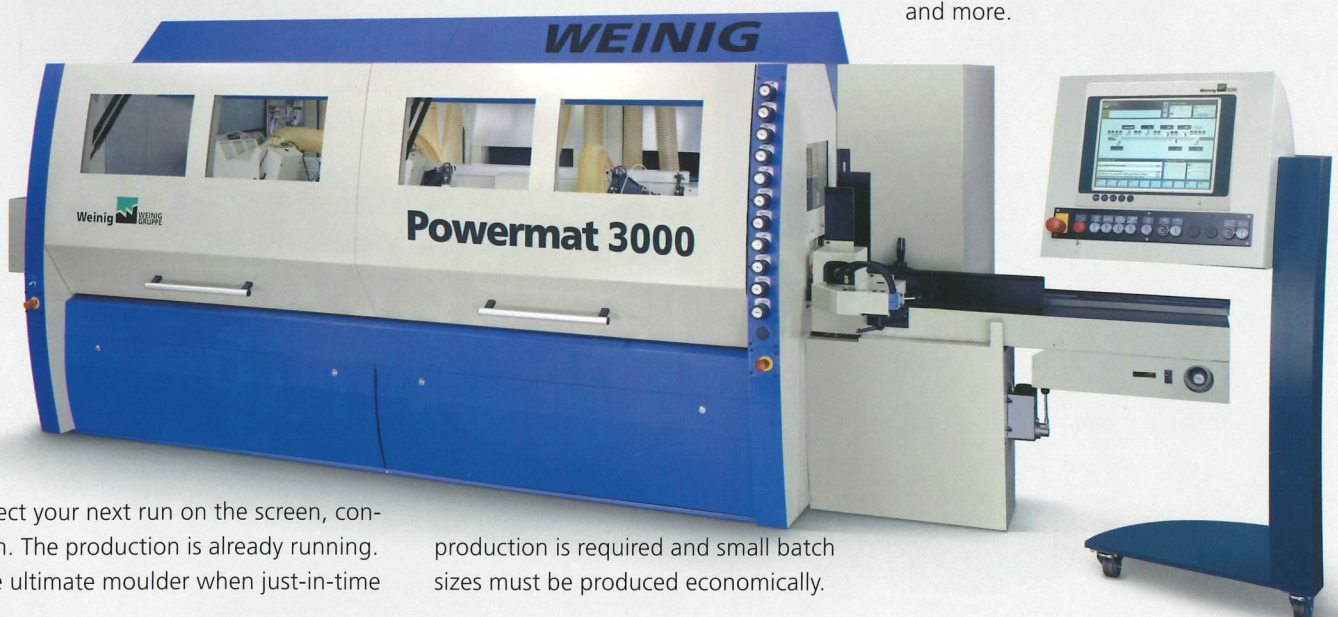


WEINIG Powermat 2000: High speed and flexibility



Efficiently handles both large and small runs. One after the other... and profitably! With conventional spindle moulders, you really need two different machines, one for long runs and one fast-change moulder for short runs. Now, a Powermat 2000 is all you need. It can handle the most different tasks without effort. Fast and economically with short set-up times. Thanks to the PowerLock system and PowerCom production organization software. As an option, the Powermat 2000 is available as a jointed version with 10,000 rpm cutter-head rotation. Only available with Powermat. Outstanding workpiece quality up to 80 m/min with only 4 knives.

WEINIG Powermat 3000: Fully automated profile center



For today's highest demands for short change-over time. The Powermat 3000 automatically positions cutter heads, fences, chip breakers, pressure shoes, and more.

Select your next run on the screen, confirm. The production is already running. The ultimate moulder when just-in-time

production is required and small batch sizes must be produced economically.

The intelligent Powermat controls: It is easy to master high-tech

The times when only specialists were able to operate an advanced machine are gone. WEINIG controls are simple and at the same time extremely efficient. On-screen guidance and large memory storage for tool and profile data. The perfect control center for your Powermat.

Memory System

With the Memory System you set up conventionally, store your profile data, and retrieve them again by pressing a button when you want to repeat a profile. No long set-up. No trial and error. The moulder is set up fast and efficiently because chip-breaker and pressure-shoe positions are part of the Memory System. It's as easy as using the re-dial on your phone.



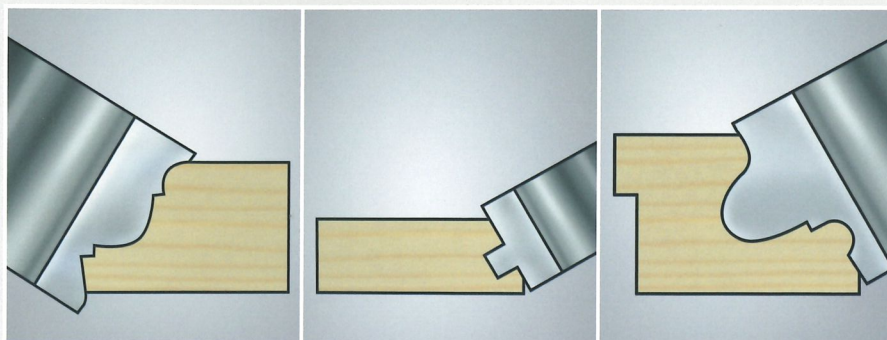
PowerCom-System

The PowerCom System offers the advantages of the Memory System plus almost unlimited memory for profiles and tooling measurements. With the easy-to-use touch screen, you are guided through every decision. Best of all, Weinig has solved the problem of making a fast AND accurate set-up of a profile you have never run before. Enter the tooling measurements and the dimensions of the new profile. The PowerCom software calculates where the cutter heads should be positioned and displays this on the electronic readouts. Move your cutter heads into position manually or use the optional motorized spindle system to position automatically. Electronic DigiSet on all tool positions!



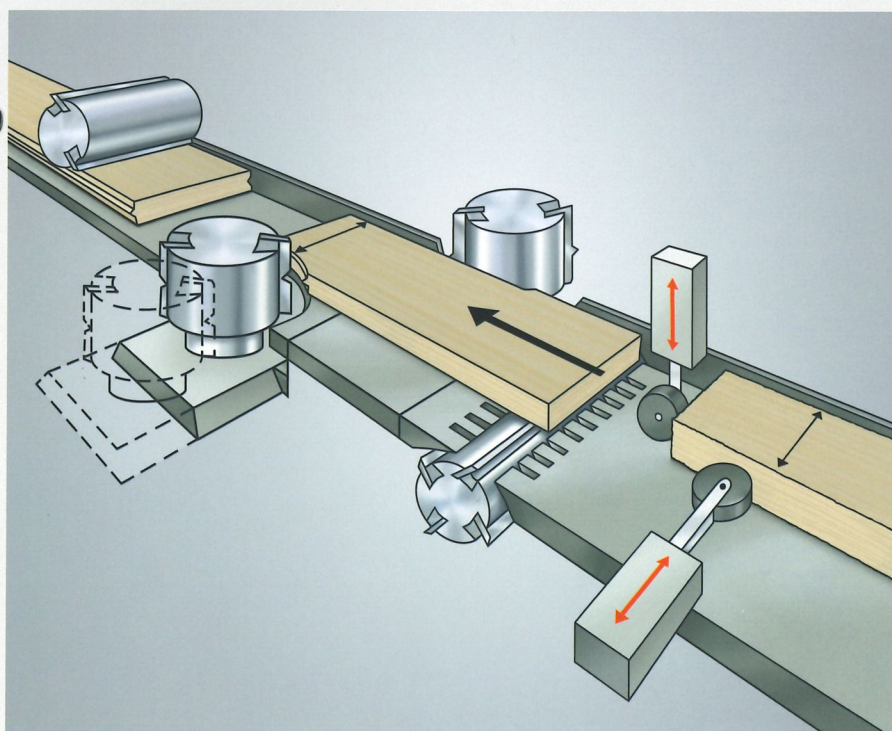
Additional options for the Powermat: Our clever solutions help create profits for you

Modern production means more and more small batches and requirements for fast deliveries. We can show you how to customize your Powermat to match your market requirements.

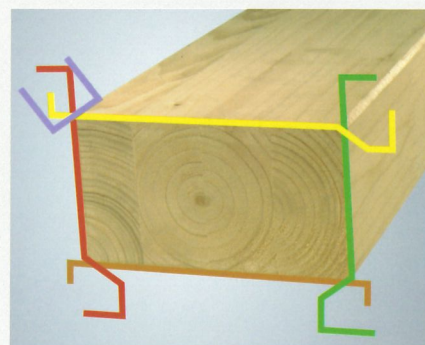


The universal spindle is needed for certain profiles and kerfing work done by saw blades. Useable a full 360°, this enables you to produce even the most complicated profiles in one run.

The mobile spindle makes your work considerably easier if you wish to prepare raw material of random widths for edge gluing. A unique option that can automatically sense the new incoming material width, adjusts itself to the new width, and processes the workpiece.

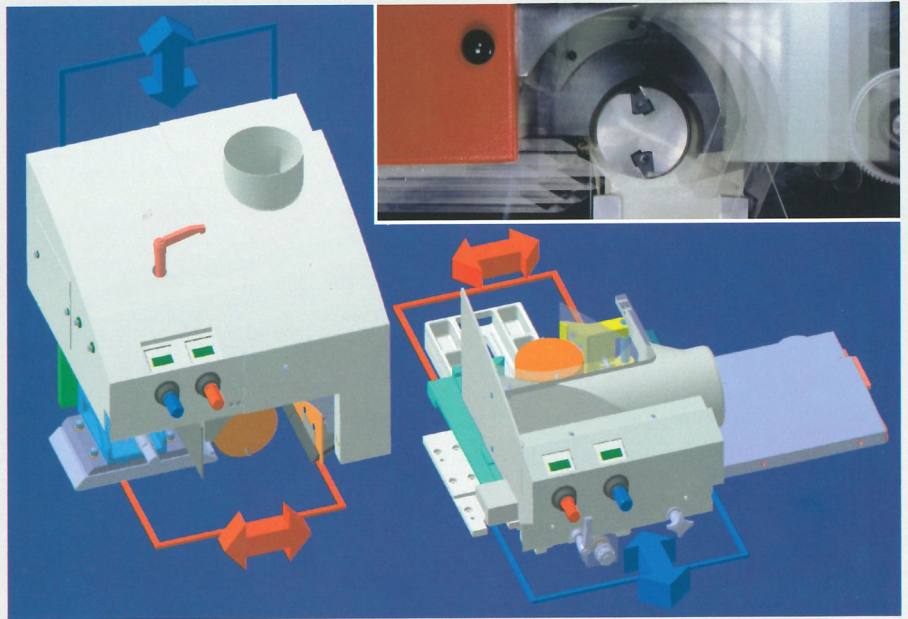


The chamfer unit is used if you want to chamfer workpieces of different dimensions in one pass on four sides. No tool change or set-up change necessary!



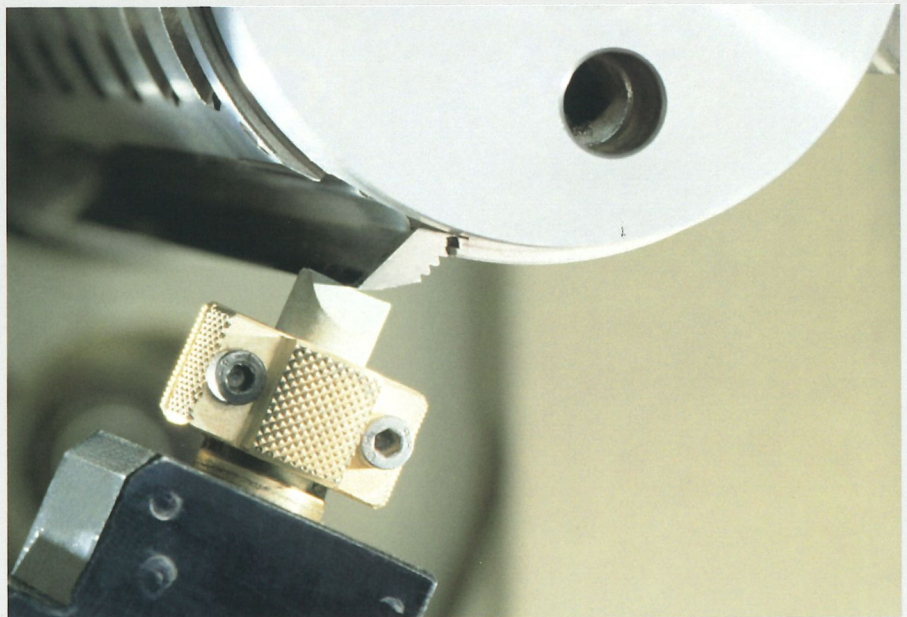
Powermat with WEINIG Vario Hoods: A powerful improvement to quality and set-up time

Forget the elaborate and time-consuming adjustment of the chip breaker and pressure shoes. As you enter the new tool diameter on the top and left spindles, you simultaneously adjust the position of the chip breaker and pressure shoes – accurately, fast, and "right the first time"! When the pressure elements are set correctly, surface quality is first-rate and chip removal is improved.

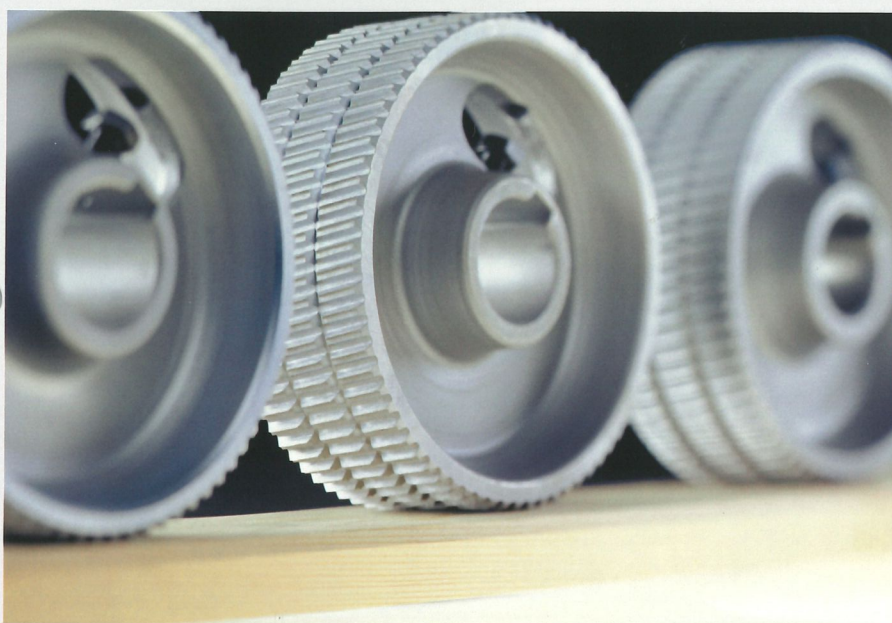


Powermat with a Jointing System: Top quality with high feed speed

All knives in the cutter head must be in exactly the same cutting circle for a superior surface finish at high feed speeds. The WEINIG Jointing System makes this happen. The PowerLock System with its extremely precise tool clamping works with Weinig's superior jointing technology to produce the best surface finish in the industry.



Powermat with WEINIG Feed System: Consistent, positive feeding

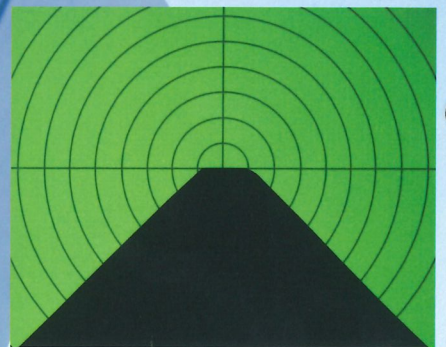


Whether you process solid wood, MDF or plastic, the WEINIG Feed System feeds your material strongly and smoothly to ensure your product is top quality. Our patented tooth design using hardened and chromed feed wheels above and the adjustable, driven table rollers in the table helps ensure smooth feeding. The chainless cardan feed is strong, long-lasting, and almost maintenance-free.

Powermat with 200 mm working width: Top quality! No outboard bearing!



The highly rigid clamping force of the PowerLock System eliminates the need for outboard bearing support. This Powermat option makes it the most flexible machine for moulding both narrow and wide profiles. All with quick set-up.



Measuring tools

By pre-measuring your cutter heads you save set-up time. Determine the tooling measurements with WEINIG OptiControl measuring stand. Then the machine can be set up with one of WEINIG's control systems (Memory or PowerCom). It's as easy as 1...2...3!

WEINIG offers you a complete package: The right accessories to get the maximum return from your Powermat investment

WEINIG'S concept consists of more than just the Powermat moulder. We offer toolroom and moulder accessories to increase productivity and reduce the chance for mistakes. All together, the result is a complete solution that increases production and prepares you for the challenges of the future.



Pre-setting the pressure shoe

To produce high quality profiles, you need control and solid support of the wood. Usually, this means a counter profile pressure shoe. WEINIG offers a cassette system that enables you to pre-set the counter profile in the toolroom and then quickly lock it into position in the moulder. Fast, simple, and accurate.



Grinding, sharpening, profiling with the Rondamat

If you are able to offer quick delivery, you have a clear advantage. Custom-make and maintain your own profile or straight knives quickly. WEINIG has the right grinder for every requirement, from manual to fully automatic.



Jointer presetting

With this fixture, you are able to pre-set the jointing stones for the next run in an easily removable cassette in the toolroom, while your Powermat continues to run on the current profile. When ready, take this cassette, with the pre-set jointing stone, to the moulder, secure it in place, joint the head. Fast, simple, and accurate!



Material handling with WEINIG HighMech

You need efficient material handling to maximize the enormous potential of the Powermat. We have the optimal solution for every requirement, from the feeding of the boards to the packaging of the final product.

Technical Data

Standards and options

This table shows the essential distinguishing features between the individual models. Your WEINIG expert will be pleased to provide you with even more detailed information when taking your individual requirements into consideration.

	Powermat 500	Powermat 1000	Powermat 2000	Powermat 3000
Working height	120 mm	160 mm	160 mm	160 mm
Working width	230 mm	230 mm	230 mm	230 mm
Number of spindles	5 – 8	5 – 11	5 – 11	5 – 11
8,000 rpm	●	●	—	—
12,000 rpm	—	○	●	●
4,000 – 12,000 rpm	—	○	○	○
Joining system in connection with 10,000 rpm	—	—	○	—
Memory System	●	—	—	—
PowerCom	○	●	●	—
PowerCom plus	○	○	○	—
CAS-LogoCom	○	○	○	●
Electronic readouts	●	●	○	—
Fully automatic set-up	—	—	—	●
Motorized spindle adjustments	○	○	○	●
Suction hoods with conventional chip breaker and pressure shoe	●	—	●	—
"Easy-Set" hoods with centrally adjustable pressure elements (1 axis)	○	—	—	—
"Easy-Set" hoods with centrally adjustable pressure elements (2 axes)	—	●	—	—
"Easy-Set" hoods with automatically adjustable pressure elements (2 axes)	—	—	—	●
1 PowerLock tool holder, position of choice	●	●	—	—
Completely equipped with PowerLock tool holders	○	○	●	●
300 mm working width without outboard bearing only in conjunction with PowerLock and max. 8,000 rpm	○	○	—	—
Frequency-controlled feed speed (standard)	5 – 30 m/min	5 – 30 m/min	6 – 36 m/min	6 – 36 m/min
Frequency-controlled feed speed (option)	6 – 36 m/min	6 – 36 m/min	8 – 80 m/min	6 – 36 m/min
Chrome-plated bed plates	○	●	●	●
Max. motor HP of vertical spindles	5,5 – 15 kW	5,5 – 15 kW	7,5 – 15 kW	7,5 – 15 kW
Max. motor HP of horizontal spindles; first bottom spindle max. 18,5 kW	5,5 – 37 kW	5,5 – 37 kW	7,5 – 37 kW	7,5 – 37 kW

Subject to technical modifications. Statements and pictures in this brochure may also include optional extras which are not included in the standard serial equipment. Some of the photos show the machine with the protective covers removed.

● Standard

○ Option



You can expect a lot from us: WEINIG GROUP – Your partner for the future

You can concentrate on your business, let us do everything else! The WEINIG GROUP is not only the leading manufacturer for the solid wood processing industry, we lead this industry in technology and ideas! WEINIG offers comprehensive services and system solutions – all the way to complete turnkey production plants – making the WEINIG GROUP the all-around ideal partner where the focus is always on flexible, profitable production.



The WEINIG ExpoCenter

In our ExpoCenter we can demonstrate to you how our top technology can benefit your operation. Here you can get a close-up view of all our machines.



Training

We want to ensure you get the maximum benefit from your investment as fast as possible. World-class WEINIG training takes care of that. Effective operator training classes taught by experienced WEINIG experts make sure that the machine will be fully productive within the shortest time frame.



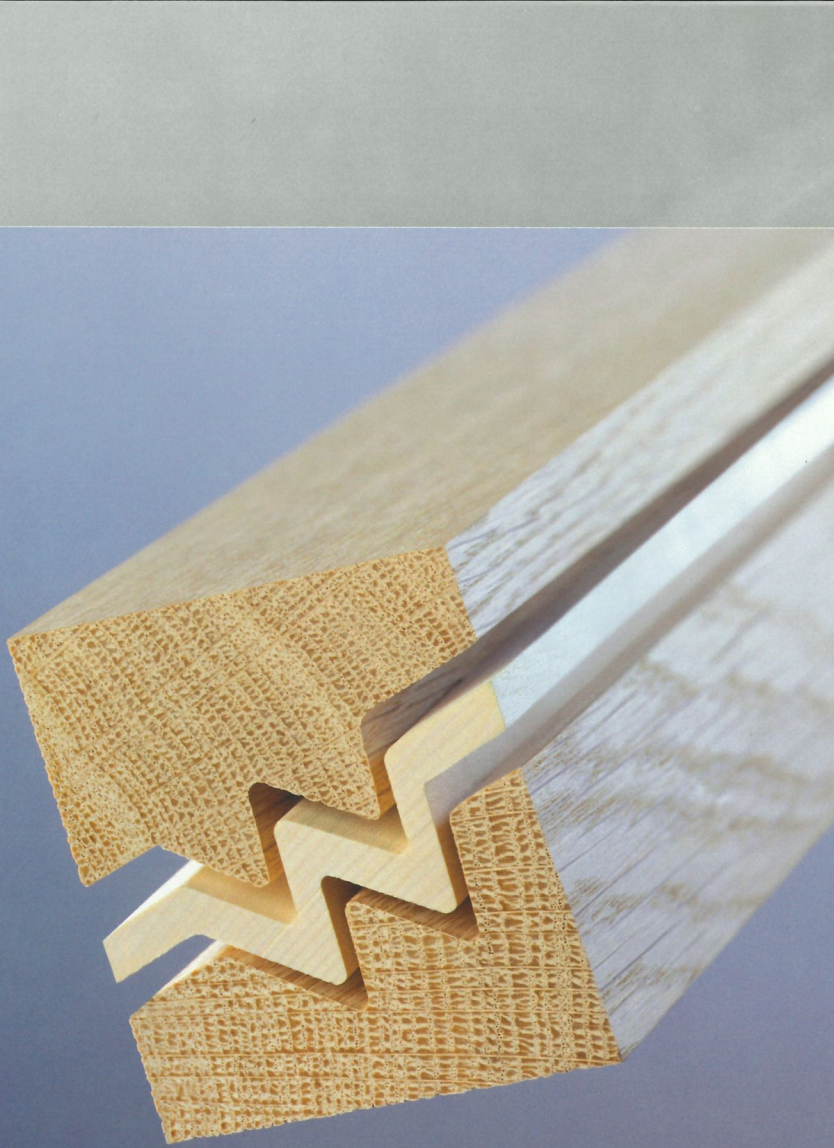
Kaizen

WEINIG's own manufacturing process is successfully organized according to the Kaizen method. In a continuous improvement process, quality and efficiency are increased step by step. You can benefit from this at your plant. We will gladly pass on to you our many years of experience.



Service

With sales and service companies located on all continents and a large, mobile team of service technicians, we guarantee a worldwide standard of service that is unique in the industry. Fastest spare parts delivery everywhere and employees who speak your language are part of our reputation for the finest customer support anywhere.

**WEINIG**

World market leader
for moulders

WACO

No. 1 for high-speed
moulders and planers

GRECON

High-performance finger
jointing lines

DIMTER

Specialist for optimizing
cross-cut saws and gluing
presses

RAIMANN

Top technology for
rip optimization

CONCEPT

Your competent partner
for complete system
solutions

The WEINIG GROUP: We seamlessly combine all components of solid wood processing

Including full turn-key production plants

To build innovative machines is one thing, to offer system solutions is something else. More and more, our customers want the entire factory. That's a case for our team at WEINIG CONCEPT. Here the competence of the WEINIG GROUP combines in a special way. From planning to the turn-key production plant, our professionals handle it all. Worldwide. For you.

A strong team

Every member of the WEINIG GROUP is a leader in their product specialty. This creates valuable synergy that ultimately benefits you and your business.



Powermat-Series



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