

Hydromat 45



With wood into the future

The natural feel and noble look of wooden products makes them very desirable. This renewable, eco-friendly raw material is highly valued in society. Good times for wood workers. Good times for you.

The increasing importance of wood is characterized by an ever growing field of application: Traditional fields of activity such as interior fittings, commercial furnishings and window manufacturing have been joined by imposing wooden architecture. Sophisticated façade and bridge constructions, glulam or cross laminated timber elements are enjoying increasing use in construction. Textured surfaces and creative lightweight construction are setting popular trends.

As a company active in this industry, you can benefit from this development towards increased use of wood, the only CO₂ neutral material. Make your decision for sustainable technology as well when choosing production machinery. WEINIG is the only manufacturer who is fully committed to solid wood processing. With passion and dedication, like yourself. The ideal partner for innovative concepts to help you conquer tomorrow's market. WEINIG's machines have an especially long service life and offer exceptional reliability. An investment in WEINIG's production technology has long term benefits and means security for your company. Very short set up times and maximum material yield are built into every solution. Naturally with perfect accuracy of dimensions and excellent surface quality for your products.

Planing, profiling, texturing. Whatever you do – you will always make the right choice with machines from WEINIG.



WEINIG offers more

WEINIG's successful path in wood processing is characterized by listening to our customers and the demands of the market place. Born from many years of experience, WEINIG's R & D department never fails to create new practical solutions for industry and small shops. Whoever buys a WEINIG machine today knows that they are optimally equipped for the future of their business.

100% quality – WEINIG's machines have to satisfy the most difficult requirements. That is why great care in product development and manufacturing is a tradition 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 is known for their high standard in technology. More than 80,000 machines from WEINIG are operating around the globe to the utmost satisfaction of our customers.

Expert advice – Whether you need expertise of WEINIG Concept for turn-key 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 value for your investment.

Everything from a single source – In 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 line. Including, of course, a comprehensive service package.

Service – Safety is reassuring. In the case of need, 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!

Hydromat 45: The robust planer for large timber dimensions

The Hydromat 45 is the new entry level model from WEINIG for 4-sided planing of CLT and lam-wood. The principal of the pillar mounted feed system combined with high quality WEINIG spindles guarantees you a machine worthy of the highest quality expectations. Through this technology the legendary WEINIG surface quality can now be experienced on wide planed products as well. Of course, in addition to the planer we also offer you the passing infrastructure: mechanization, tool grinder, tools and tool measuring equipment – all from a single supplier.



Floating vertical spindles

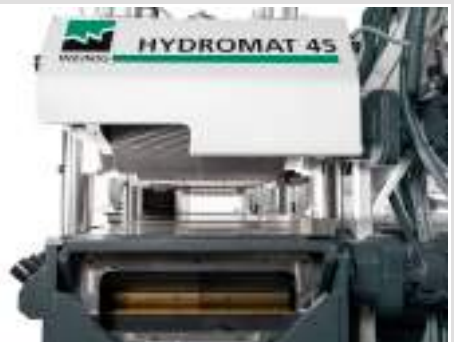
The vertical spindles follow the contour of the workpiece producing clean surfaces on bowed material with minimal stock removal.

Memory Plus

Clean operating procedure and quick setting of workpiece dimensions with touchscreen.

Pillar system

The robust and stable machine construction with a pillar supported feed system ensures smooth transport of material resulting in high surface quality.



Highlights in standard

The Hydromat 45 at a glance

- Reliable transport of workpieces with high degree of smoothness due to elaborate feed system
- Quick and accurate positioning of spindles due to CNC adjustments and of feed system using ball screw
- High surface quality due to high-precision spindles for hydro tools
- Long intervals between tool changes due to wide axial setting range of horizontal spindles
- High yield due to floating vertical spindles for minimal stock removal

1 Electronic digital readouts

Electronic digital readouts on the front side of the machine display the target and actual value for each spindle position. The specified values come from the control system allowing quick and accurate spindle positioning. This saves time and ensure accurate dimensions for the finished products.

2 Axial adjustment of the horizontal spindles

The horizontal spindles allow an axial range of adjustment up to 200 mm. When producing narrow products the tool can be adjusted in steps behind the fence line. As a result knife wear can be distributed over nearly the full length of the tool and the running life is increased accordingly.

3 Tandem pressure elements in the area of the horizontal spindles

The pressure elements above the bottom spindle and in front of the top spindle are two separate units; one after the other. The result: the pressure element above the bottom spindle can be set independent from the element in front of the top spindle. In this manner the workpieces are ideally controlled and guided with a high degree of smoothness which is the basis for high surface quality.

4 Tools and sharpening

Irrespective of which products you want to produce on your planer, we have the matching tools for your requirements. The tools for the Hydromat 45 are fitted with a hydraulic clamping system. The Rondamat series offers you the ideal model for grinding these tools. With the Rondamat 980 you will achieve perfect results when sharpening planing cutterheads.



Useful extras

4-sided chamfering unit

The 4-sided chamfering unit is coupled with the feed system and the vertical spindles for fastest possible dimensional changes. In addition to this each chamfering aggregate has its own riding shoe which follows the contour of the workpiece. This ensures that the chamfer dimension is consistent over the full length of the workpiece.



Side driven feed rollers at the infeed

A machine designed for planing wide material must have a powerful feed system capable of transporting wet and deformed timber through the machine without stopping. The Hydromat 45 has additional opposing side driven feed rollers at the infeed which transport the workpiece into the machine until the first top feed roller and opposing driven table roller come into action. In this manner a continuous transport of the workpiece is guaranteed.



Jointing system

To gain the full potential from the machine without sacrificing quality a multiple knife finish is required. The basis to achieve this is a high degree of concentric runout on the spindle and precision ground tools. The WEINIG jointing system will eliminate remaining tolerances resulting in high productivity and excellent surface quality.



Oscillating horizontal spindles

In addition to the large axial adjustment on the horizontal spindles they are also capable of oscillating. The oscillating movement prevents points of wear on the knife due to the effects of glue joints. This minimizes knife wear and increases running time when processing lam-wood.



Standards and options

Working width min./max. (spindle clamping length 470 mm)	60/450 mm
Working height min./max. (value in brackets when using chamfering unit)	20(40)/220 mm
Working height 300 mm	○
Spindle speed	6,000 rpm
Conventional spindles for hydro tools	●
Axial adjustment for horizontal spindles	200 mm
Cutting circle for horizontal spindles	170 - 180 mm
Cutting circle for vertical spindles	170 - 180 mm
Vertical spindles with cutting circle 250 mm	○
Floating vertical spindles	●
Oscillating horizontal spindles/ vertical spindles	○ / ○
Straight jointer, horizontal/ vertical	○ / ○
4-sided chamfering unit	○
Memory Plus	●
PowerCom Plus	○
Electronic digital readouts	●
Radial CNC adjustments for left spindle, top spindle and feed height	●
CNC adjustments for other axes	○
Feed speed, frequency regulated (value in brackets is optional)	6–36 (60) m/min
Feed direction from right to left	●
Feed roller diameter	250 mm
Direct motor drive for feed rollers	●
Feed height adjustment by ball screw	●
Side driven feed rollers at infeed	○
MarathonCoating for table plates and fences	●
Max. motor power for vertical spindles (standard – option)	22–45 kW
Max. motor power for horizontal spindles (standard – option)	22–45 kW
Sound and safety enclosure	○

Subject to technical alterations. The statements and pictures provided in this brochure also include optional equipment that is not included in standard delivery. Some protective covers were removed for photographing.

● Standard ○ Option



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