

RONDAMAT SERIES.

PUTS YOU IN CONTROL
OF QUALITY AT ALL TIMES



WEINIG OFFERS MORE.



THE WEINIG GRINDING SYSTEM: THE PRECISE ANSWER TO EVERY REQUIREMENT



Regrinding of planer knives in the head

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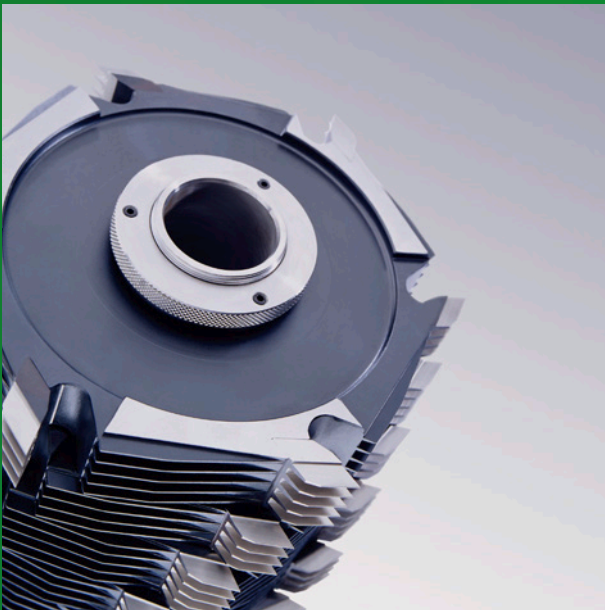
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WEINIG's Rondamat Series includes a full range of tool grinders specially customized to meet individual needs and conditions, from manual units through to fully automatic CNC-controlled machines.

All the models display exceptional precision, and they are all built to the same high quality standard as the WEINIG moulders. This explains, why a lot of tool sharpening services now work with WEINIG Rondamats.

Regardless of whether you work hard or soft-woods, chipboard, MDF or plastic – you can always rely on a Rondamat. Using the appropriate grinding wheels you can produce and sharpen HSS, Stellite or carbide knives.

Regrinding tools has been a part of our business for decades.



Regrinding of finger jointing tools



Creating and regrinding of profile knives

RONDAMAT 980: GRINDS STRAIGHT CUTTER HEADS FULLY AUTOMATICALLY

The surface quality of the final product is decided in the moment that the cutting edge meets the workpiece. That is why it is essential to have tools that are always optimally prepared and ready to regrind whenever necessary. The Rondamat 980 is a very efficient, fully automatic solution for this problem. All you need to do is clamp the tool onto the grinding machine and enter the processing parameters using the control terminal. The Rondamat 980 does the rest – all by itself.

YOUR BENEFITS:

- Perfect results when regrinding straight planer knives in the cutter head with conventional, Hydro- or PowerLock clamping
- Regrind finger jointing tools and brazed tools with the optional "Solid cutter package"
- Unmanned operation after setting up the machine
- Number of grinding revolutions and material removal freely programmable
- Direct input of the processing parameters via the control terminal
- Fully automatic dividing head for up to 36 teeth



THE MOST IMPORTANT TECHNICAL DATA:

Max. tool width	330 mm
- extended (optional)	460 mm
- in conjunction with PowerLock	322 mm
Min./max. tool diameter	100 / 300 mm
- extended (optional)	140 / 340 mm
- in conjunction with PowerLock	100 / 250 mm
Max. tool weight	100 kg
- in conjunction with PowerLock	80 kg
Mounting arbor diameter	by choice
Fully automatic dividing head, number of knives	1 - 36
Clearance angle grind, radial on the knife back	15 - 35°
Grinding wheel diameter	
- for cutter heads	125 mm
- for milling cutters	200 mm
Grinder spindle drive	1.5 kW (2 HP)
Grinder spindle speed	4,600 rpm
- frequency controlled (optional)	1,500 - 4,600 rpm
PowerLock system	optional
Solid cutter package	optional
Total connected load	2 kW (2.7 HP)

1. OPERATING TERMINAL

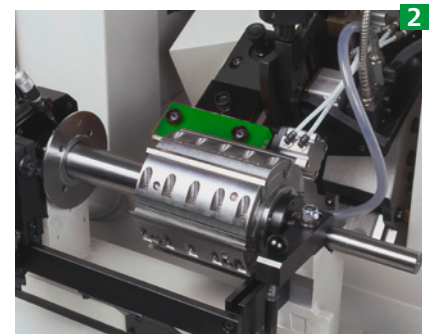
for easy entry of all grinding parameters, e.g. number of knives and grinding cycles

2. STRAIGHT KNIVES

are sharpened in the cutter head. This guarantees the best possible running accuracy.

3. SOLID CUTTER PACKAGE

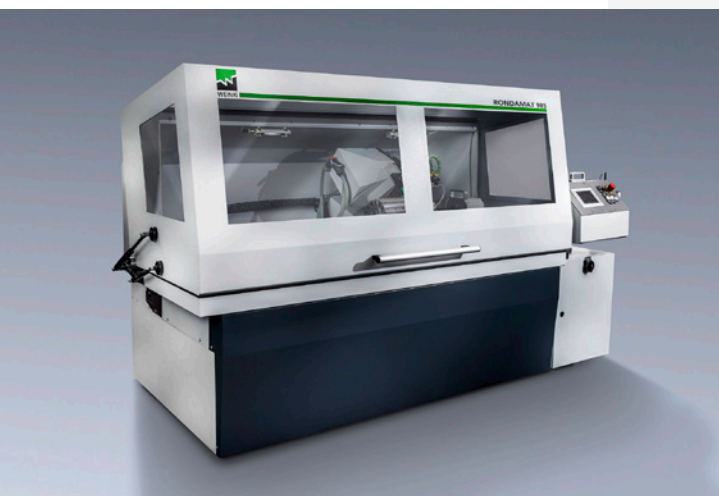
Finger jointing and brazed tools are ground from the face of the tooth. The independent positioning of the grinding wheel combined with automatic measuring of the outside diameter ensures superior precision.



RONDAMAT 985

AUTOMATIC GRINDING OF WIDE TOOLS

The Rondamat 985 offers you unmanned sharpening of planing cutter heads up to 720 mm wide – regardless of whether it be a conventional cutter head, hydro cutter head or a shaft cutter head. Resharpener of finger jointing tools and cutters can be done with the optional solid cutter package. The basis for the high precision of the machine is the massive spindle carrier. The machine operator must only enter the working parameters and start the machine. While the tool is being sharpened the operator can pursue other activities, because the machine works completely independent.

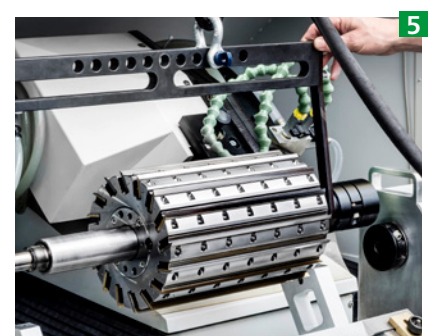
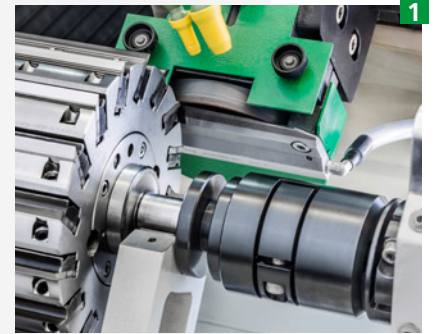


YOUR BENEFITS:

- Fully automatic grinding of conventional or hydro clamped tools, as well as right and left rotating shaft cutter heads
- Resharpener of finger jointing tools and milling cutters (optional)
- Reduced setup time and highly accurate tool concentricity due to grinding the knives while clamped in the cutter head
- Unmanned operation after setting up the machine
- Quick setup of the machine by a well arranged touch screen control
- Consistent high quality grinding results
- Time savings due to integrated tool radius measuring device
- Setup time reduction on the planer and dimensionally accurate finished products due to known tool dimensions
- Safe and simple lifting of heavy cutterheads with a bore and shaft cutter heads by use of the optional lifting device
- Very safe due to full enclosure

THE MOST IMPORTANT TECHNICAL DATA:

Max. tool width	
- for cutter heads	720 mm
- for brazed (tipped) tools	850 mm
Tool diameter	
- for cutter heads	100 - 310 mm
- for brazed (tipped) tools	100 - 350 mm
Max. tool weight	300 kg
Mounting arbor diameter	by choice
Fully automatic dividing head, number of knives	1 - 32
Clearance angle grind, radial on the knife back	15 - 35°
Grinding wheel diameter	
- for cutter heads	125 mm
- for brazed (tipped) tools	200 mm
Grinder spindle drive motor	4 kW (5.5 HP)
Grinding spindle speed, frequency-controlled	1,800 - 4,600 rpm
Integrated tool radius measuring device	standard
Solid cutter package	optional
Total connected load	4.5 kW (6 HP)



1 FULLY AUTOMATIC GRINDING

The precision guides of the grinding aggregate ensure a consistent high quality finish as well as accurate tool concentricity. In addition to this there is a tremendous reduction in setup time because the knives are ground in the cutter head.

2 INTUITIVE OPERATION

The control unit is simple and easy to understand with descriptive graphics so that the machine can be set up quickly and safely without errors.

3 INTEGRATED RADIAL TOOL MEASURING

Measuring the tool while mounted in the grinding machine results in great time savings on its own. In addition to that, with the low measuring tolerance of 0.01 mm the planer can be set up precisely.

4 SELF-CONTAINED COOLANT TANK

The coolant fluid is filtered through fleece paper before returning to the tank for re-use. This greatly reduces the coolant consumption and maintenance requirement.

5 TOOL LIFTING DEVICE

With the optional lifting device it is possible to put heavy tools into the machine easily and safely. This not only saves time but also improves ergonomics and operator safety.

RONDAMAT 960: DO-IT-YOURSELF TOOL GRINDING

Become independent! Optimum use of the fastest moulders and the most streamlined tool set-up systems can only be obtained if the tools you need are always available and ready to use. Only by producing your own tools can you gain full control over all factors: time, quality and tool costs. The Rondamat 960 enables you to start grinding your tools yourself. You can resharpen straight knives as well as create and resharpen profile knives with a template.

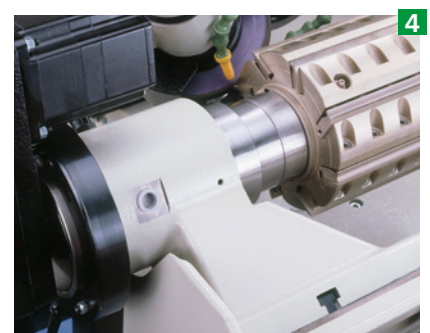
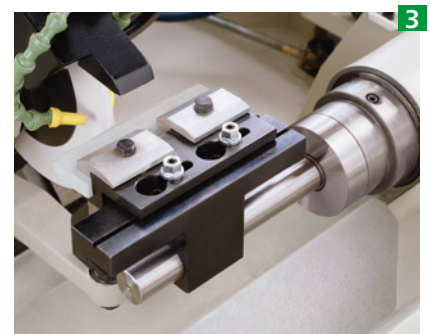
YOUR BENEFITS:

- Precise, quick and independent by producing profile tools according to customer requirements
- Supreme profile accuracy by copying the profile from a template
- Reduced setup time on the moulder with axial-constant system
- Massive machine table and linear cross roller table for high precision and ease of use
- Solid spindle carrier with precise guides for running concentricity below 0.005 mm
- Grinding spindle with cone adaptor for quick and precisely repeatable grinding wheel changes
- Cooling system
- With the optional equipment packages the machine can be customized according to your needs



THE MOST IMPORTANT TECHNICAL DATA:

Max. tool width (standard)	240 mm
- extended (optional)	350 mm
- in conjunction with PowerLock (optional)	322 / 360 mm
Min./max. tool diameter	100 / 300 mm
Max. tool weight	80 kg
Mounting arbor diameter	by choice
Clearance angle	
- radial at knife back	10 - 30°
- lateral in manual operation	0 - 20°
- straight cutter heads	60°
Min./max. grinding wheel diameter	150 / 225 mm
Grinder spindle drive motor	1.1 kW (1.5 HP)
Grinding spindle speed (standard)	1,700; 2,000; 2,400; 3,000 rpm
- frequency controlled (optional)	1,500 - 3,000 rpm
PowerLock system	optional
Carbide knife grinding	optional
Straight cutter head grinding (automatic)	optional
Total connected load	2 kW (2.7 HP)



1 COPYING DEVICE

with template cross support with axial constant system for profile template.

2 COOLING FROM ABOVE BY PVC FLEXIBLE HOSES AND FROM BELOW BY THE KNIFE REST DIRECTLY AT THE GRINDING POINT

prevents overheating of the knives, even if a great amount of metal is removed.

3 "JOINT STONE PROFILING" PACKAGE

Joint stones can be ground with the aid of a template.

4 "STRAIGHT CUTTER HEAD GRINDING, AUTOMATIC" PACKAGE

Quick and precise automatic resharpening of straight knives in the head, especially with a high number of teeth. With automatic dividing head for up to 16 teeth.

RONDAMAT 1000 CNC: FULLY AUTOMATIC HIGH PRECISION TOOL GRINDING

The efficient organization of the work area plays an ever increasing role in optimizing manufacturing processes. Ultimately, the full performance potential of your moulders can only be achieved when the tools are sharpened, measured and available when needed. The Rondamat 1000 CNC grinds and sharpens tools fully automatically according to a CAD drawing created by Moulder Master providing the basis for producing accurate profiles on the moulder. In respect to efficiency and added value, the Rondamat 1000 CNC will raise your tool room to a new level.

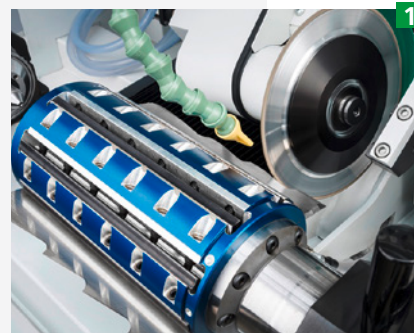


YOUR BENEFITS:

- Fully automatic grinding of a profile from a straight knife blank
- Fully automatic resharpener of straight and profile knives in the head
- Unmanned operation after setting up the machine
- Consistent high quality independent of the operator
- Enormous time savings due to automatic import of data from Moulder Master
- High precision due to grinding on the basis of CAD-data
- Manufacturing and storing templates is eliminated
- Graphic display of tools for better clarity and prevention of errors
- Suitable for right and left rotating tools with HSS and carbide knives
- Very safe due to full enclosure
- Independence from tool suppliers

THE MOST IMPORTANT TECHNICAL DATA:

Max. tool width	360 mm
Max. tool diameter	300 mm
Max. tool weight	50 kg
- incl. HSK centering point	80 kg
2 PowerLock tool holders for one left-handed and one right-handed tool	standard
Clearance angle grind, radial on the knife back	10 - 30°
Clearance angle grind, lateral	0 - 20°
Min./max. grinding wheel diameter	150 / 200 mm
Grinder spindle drive motor	4 kW (5.5 HP)
Grinding spindle speed, frequency-controlled	1,500 - 4,800 rpm
Full machine enclosure	standard
Automatic measuring of grinding wheel diameter	standard
Grinding spindle with HSK receiver	standard
Grinding wheel magazine for 3 wheels	standard
Self-contained coolant tank with filter	standard
Total connected load	5.5 kW (7.5 HP)



1 FULLY AUTOMATIC GRINDING

Independent from manual skills, consistent high quality profile knives are produced from a straight blank. The requirement to produce a template is completely eliminated.

2 MANAGEMENT OF TOOL DATA

All tool data is managed at the centrally located operator terminal. Operating errors are reduced through clear menu guidance and graphic display of the tools.

3 GRINDING SPINDLE WITH HSK RECEIVER

The HSK receiver allows grinding wheels to be changed quickly during the grinding process which reduces the setup time. In addition to this a high degree of tool run out accuracy is ensured.

4 GRINDING WHEEL MAGAZINE

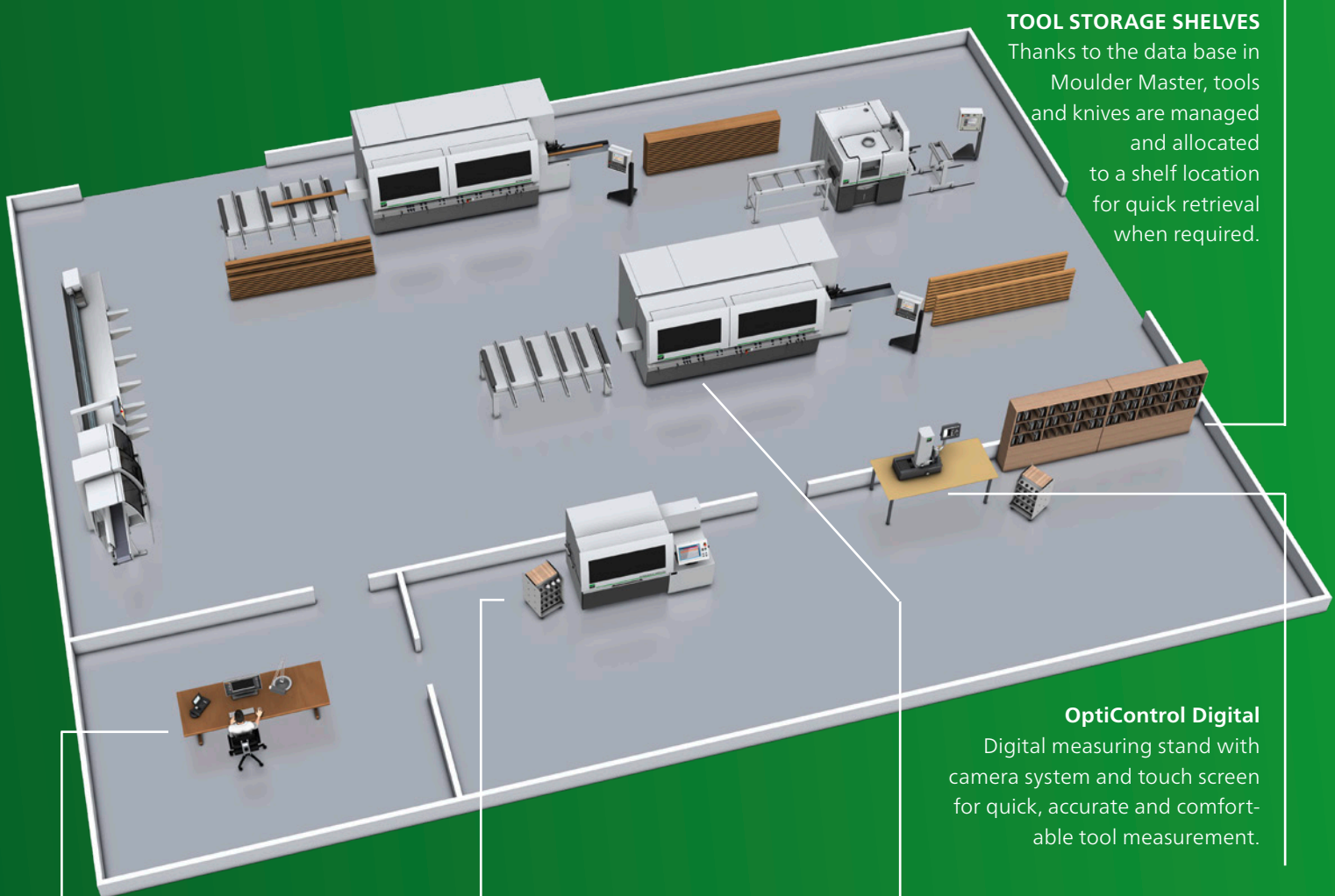
The grinding wheel magazine with three holders makes automatic wheel changes possible. With this capability a profile knife can be completely ground without operator intervention. This reduces idle time and increases operator safety.

5 SELF-CONTAINED COOLANT TANK

The coolant fluid is filtered through fleece paper before returning to the tank for re-use. This greatly reduces the coolant consumption and maintenance requirement.

THE COMPLETE SYSTEM FOR PRODUCING MOULDINGS

WEINIG's competence and innovative strength are evident in challenges such as short delivery times, small batch sizes and customer-specific products – not only with regard to machine technology, but also taking into account the entire working environment. With the WEINIG system for production of mouldings you will meet these daily challenges with ease. The perfect coordination of individual work steps within the process chain guaranties highest quality and efficient use of resources.



WORKING AREA WITH MOULDER MASTER

Software for use in production planning to draft profile and tool drawings as well as to define production requirements.

RONDAMAT 1000 CNC

Fully automatic Grinding Machine for grinding cutter heads with CAD data from Moulder Master.

TOOL STORAGE SHELVES

Thanks to the data base in Moulder Master, tools and knives are managed and allocated to a shelf location for quick retrieval when required.

OptiControl Digital

Digital measuring stand with camera system and touch screen for quick, accurate and comfortable tool measurement.

POWERMAT WITH POWERCOM OR WMC

The moulder for the most demanding quality requirements with quick setup by using information from Moulder Master and tool measurements from OptiControl Digital.



STANDARD FEATURES AND OPTIONS IN COMPARISON

	Rondamat 980	Rondamat 985	Rondamat 960	Rondamat 1000 CNC
Straight knife grinding	✓	✓	✓	✓
Profile knife grinding			✓	✓
Brazed (tipped) tool grinding	○	○		
Manual operation			✓	
Fully automatic operation	✓	✓		✓
PowerLock tool holder	○		○	✓
Full machine enclosure	✓	✓		✓
Max. tool width (standard)	330 mm	720 mm	240 mm	360 mm
- extended (optional)	460 mm	850 mm	350 mm	
- in conjunction with PowerLock	322 mm		322 / 360 mm	
Min./max. tool diameter	100 / 300 mm	100 / 310 mm	100 / 300 mm	100 / 300 mm
- extended (optional)	140 / 340 mm			
- in conjunction with PowerLock max.	250 mm		250 / 300 mm	300 mm
Max. tool weight	100 kg	300 kg	80 kg	80 kg
- in conjunction with PowerLock	80 kg			
Grinding wheel diameter	125 / 200 mm	125 / 200 mm	150 - 200 mm	150 - 200 mm
Grinder spindle speed	4,600 rpm		1,700 / 2,000 / 2,400 / 3,000 rpm	
- frequency-controlled	1,500 - 4,600 rpm	1,800 - 4,600 rpm	1,500 - 3,000 rpm	1,500 - 4,800 rpm
Total connected load	2 kW (2.7 HP)	4.5 kW (6 HP)	2 kW (2.7 HP)	5.5 kW (7.5 HP)

✓ Standard ○ Option

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 line. 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!

Let us determine with you in a personal conversation which Rondamat model fits your individual requirements and which useful options are the perfect additions to your grinding system.

We will be happy to advise you!
Your WEINIG experts

NOW AT RONDAMAT.WEINIG.COM

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