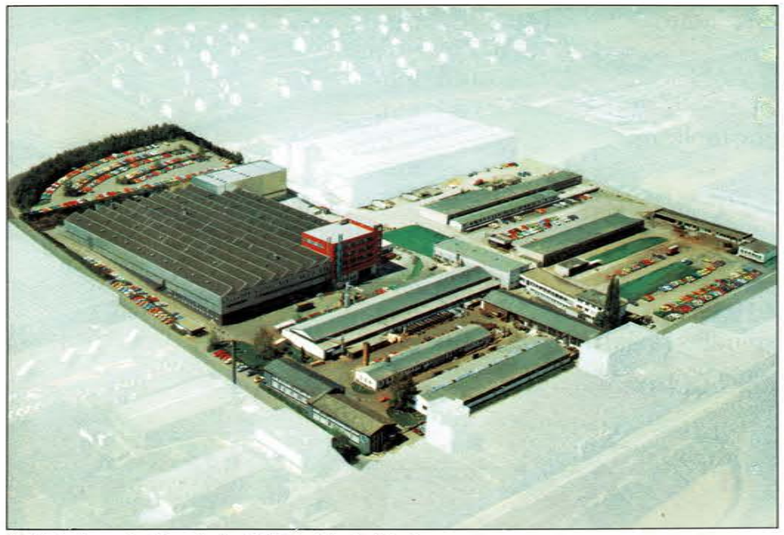
Michael Weinig GmbH

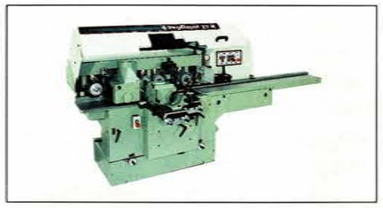
Weinigstrasse 2/4, Postfach 1440
D-6972 Tauberbischofsheim
Telephone (0)93 41/86-0, Telex 6 89 511
Telefax (0) 93 41/70 80
West Germany



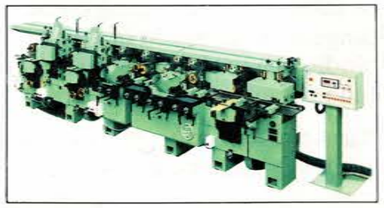
Aerial photograph of our factory in Tauberbischofsheim
(publication approved by Reg. Präs., No. 9/54 571)



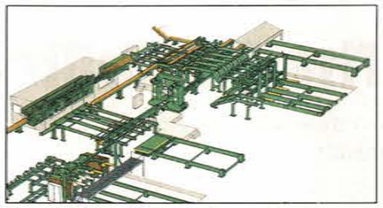
Large-batch production on a production line



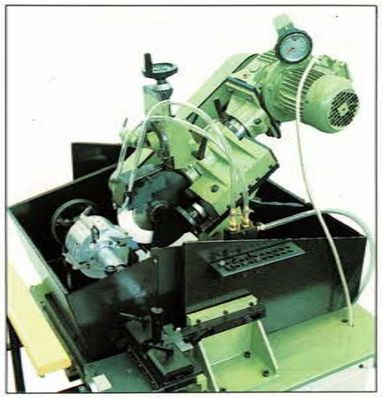
Profimat



Hydromat



Material handling equipment

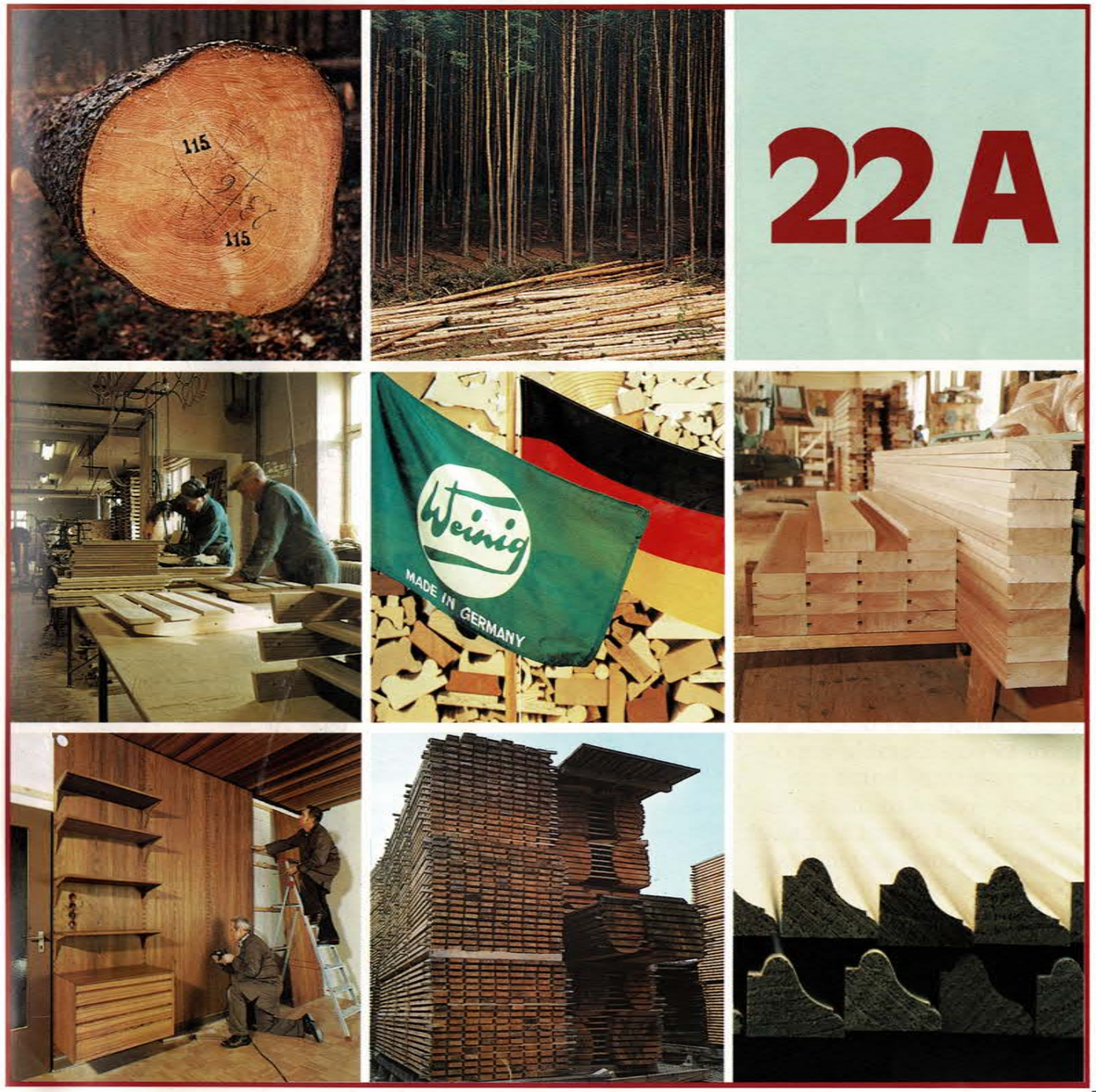


Knife grinder Rondamat

Subject to technical alterations.

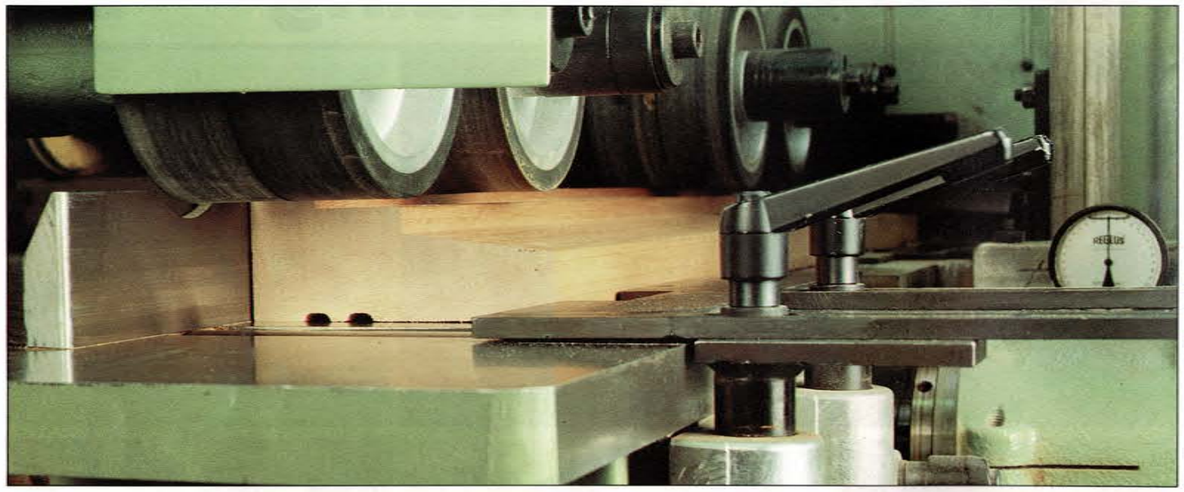
Unimat

High-tech moulding

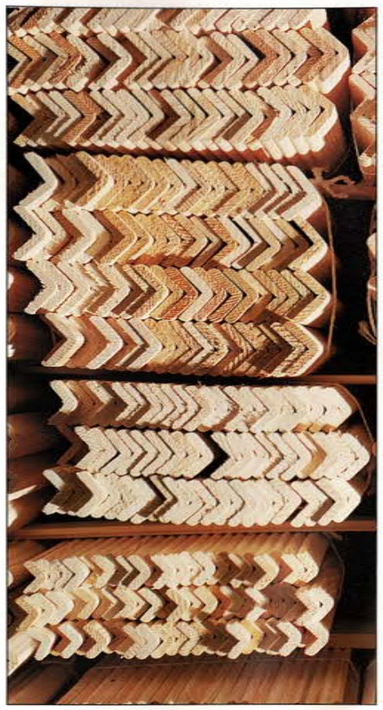


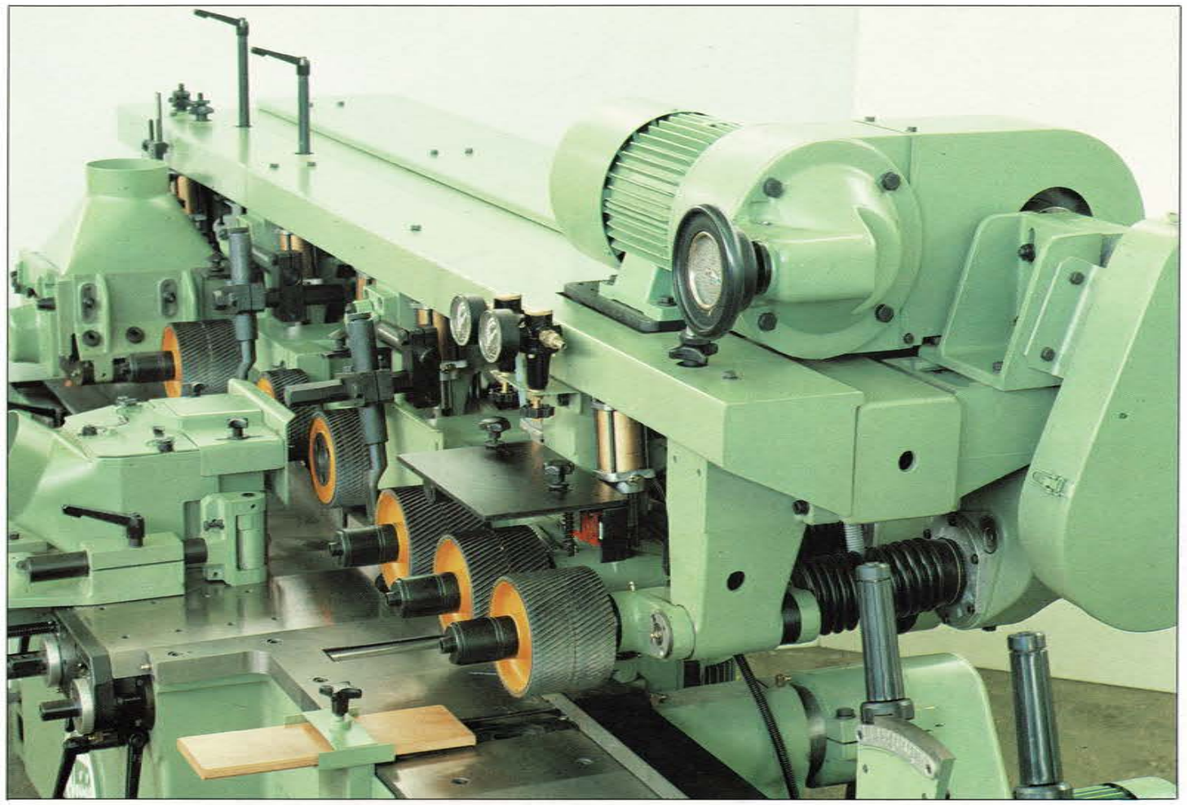
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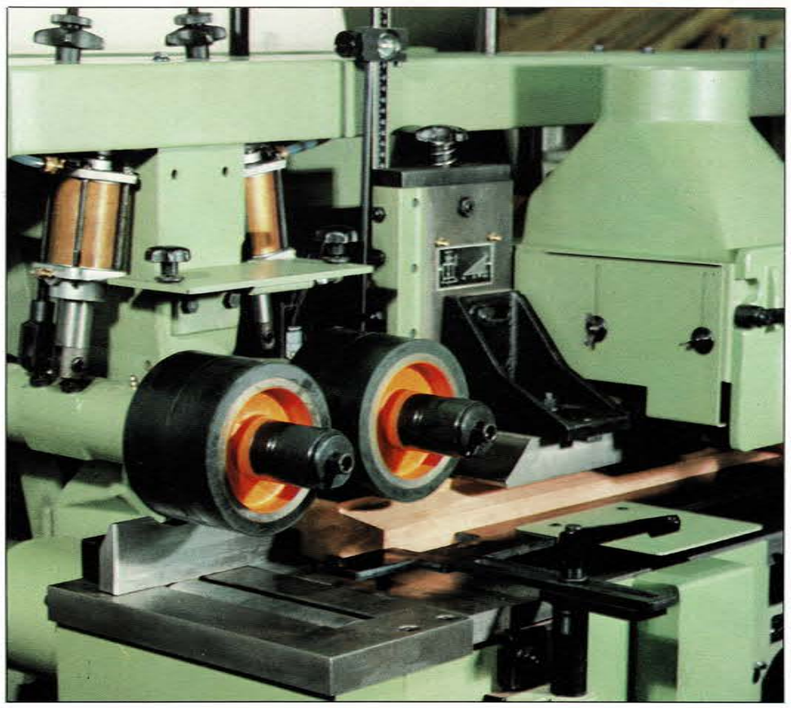
You know you needed a new moulder – and now you know which one.



The Unimat series is the most successful and widely used moulder range in the world. The Unimat 22 A offers you an introduction to high-tech moulding, increasing your output, and providing a surface quality which customers had only dreamt of in the past. Set-up times are also reduced to a few minutes, a factor of considerable importance with small batch production. Added to this is the fact that the Unimat helps cut production costs and increase operating profits. In short, the ideal piece of machinery to help your company face the next decade with optimism.

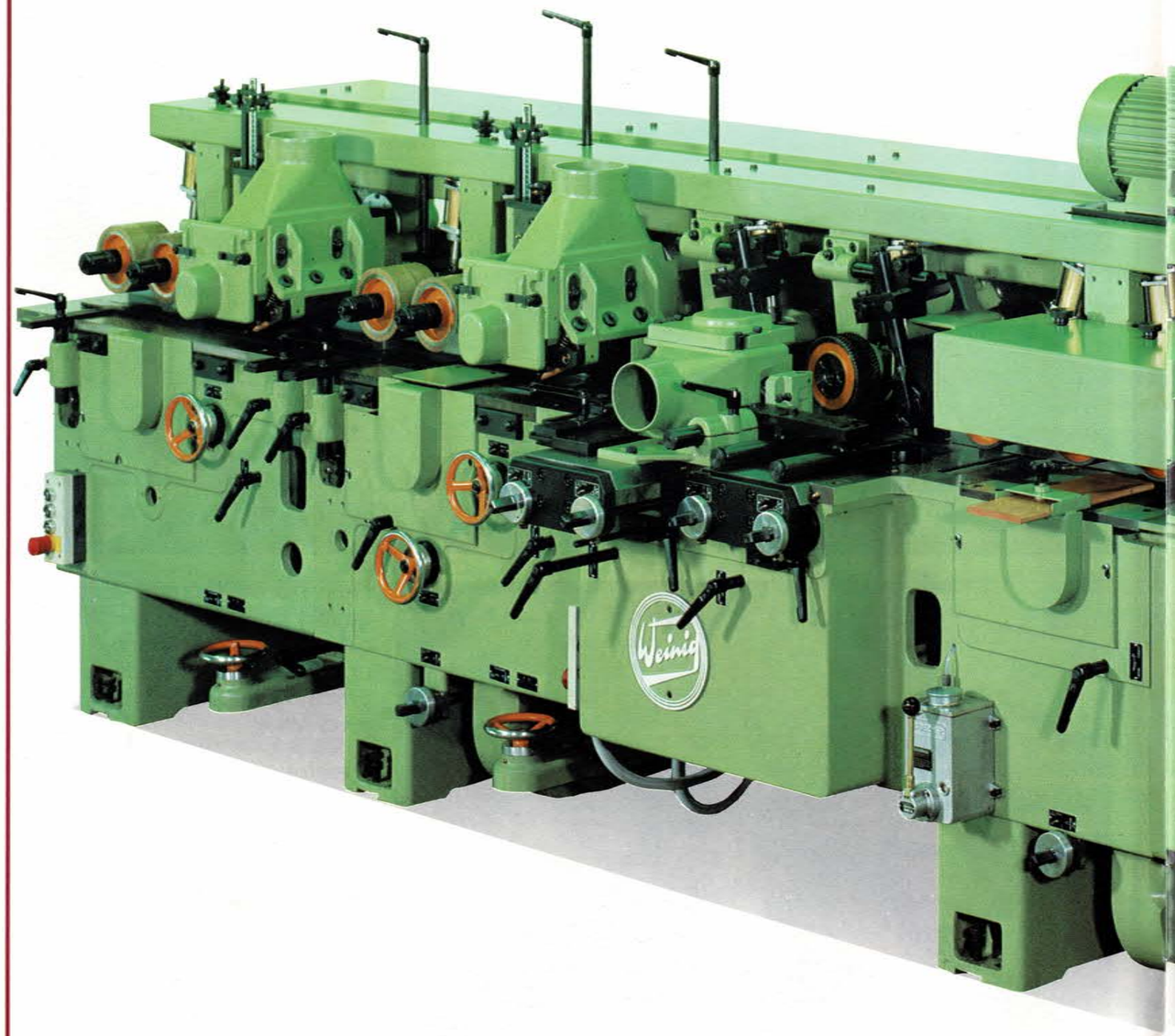






Heavy-duty, German-made quality on a cast frame with clear design and future-oriented high-tech standards, precision machining for top products.

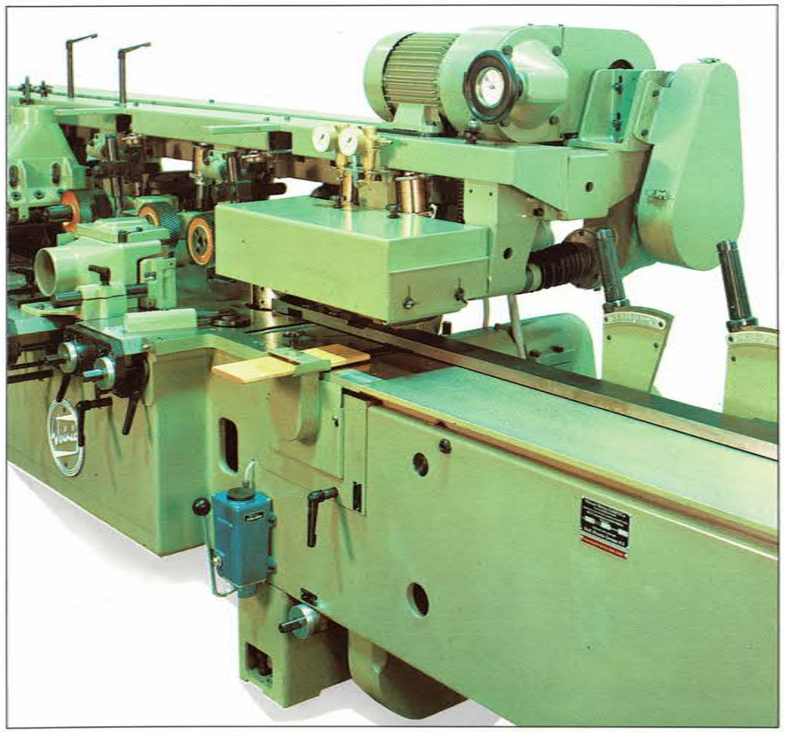
Unimat 22 A – the high-tech system.

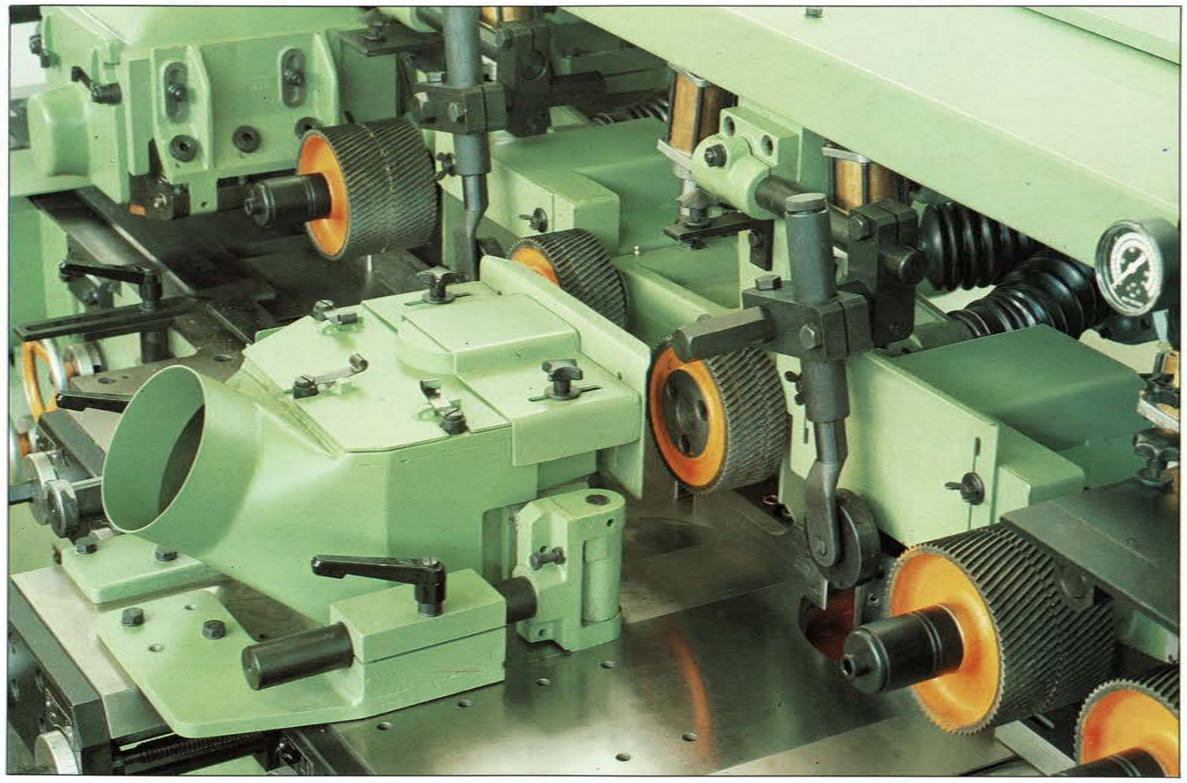


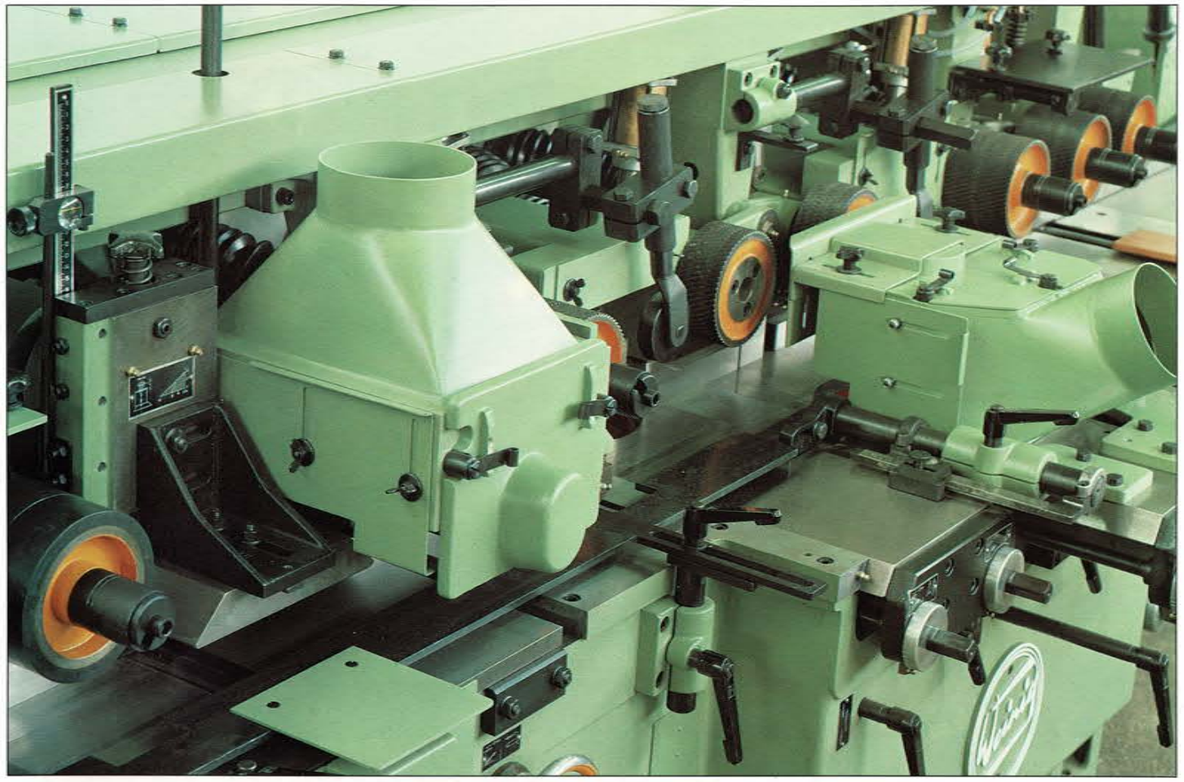
From the most successful moulder range in the world.



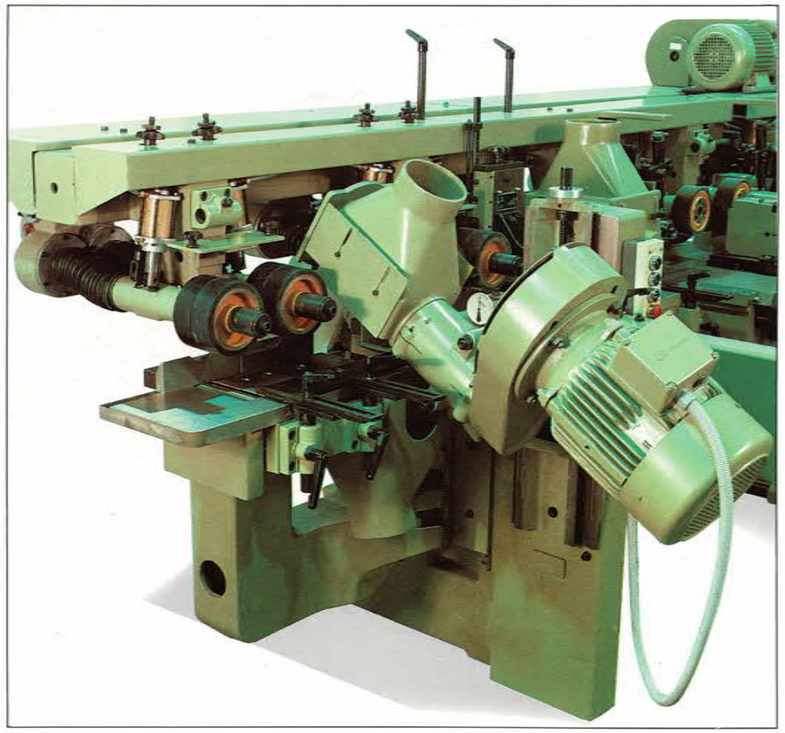
It takes years of experience to design a moulder like this – with conveniently arranged operating elements, for example, or quick adjustment of the straightening and edge jointing spindle, infinitely adjustable feed speed, spindle adjustment for both axes on the front side of the machine and the heavy (hard-chromed) steel rollers. Further features include the pressure rollers for short workpieces with small cross-sections and the heavy chip breakers in front of the left-hand and top spindle which enables you to set the tool cutting circle precisely.







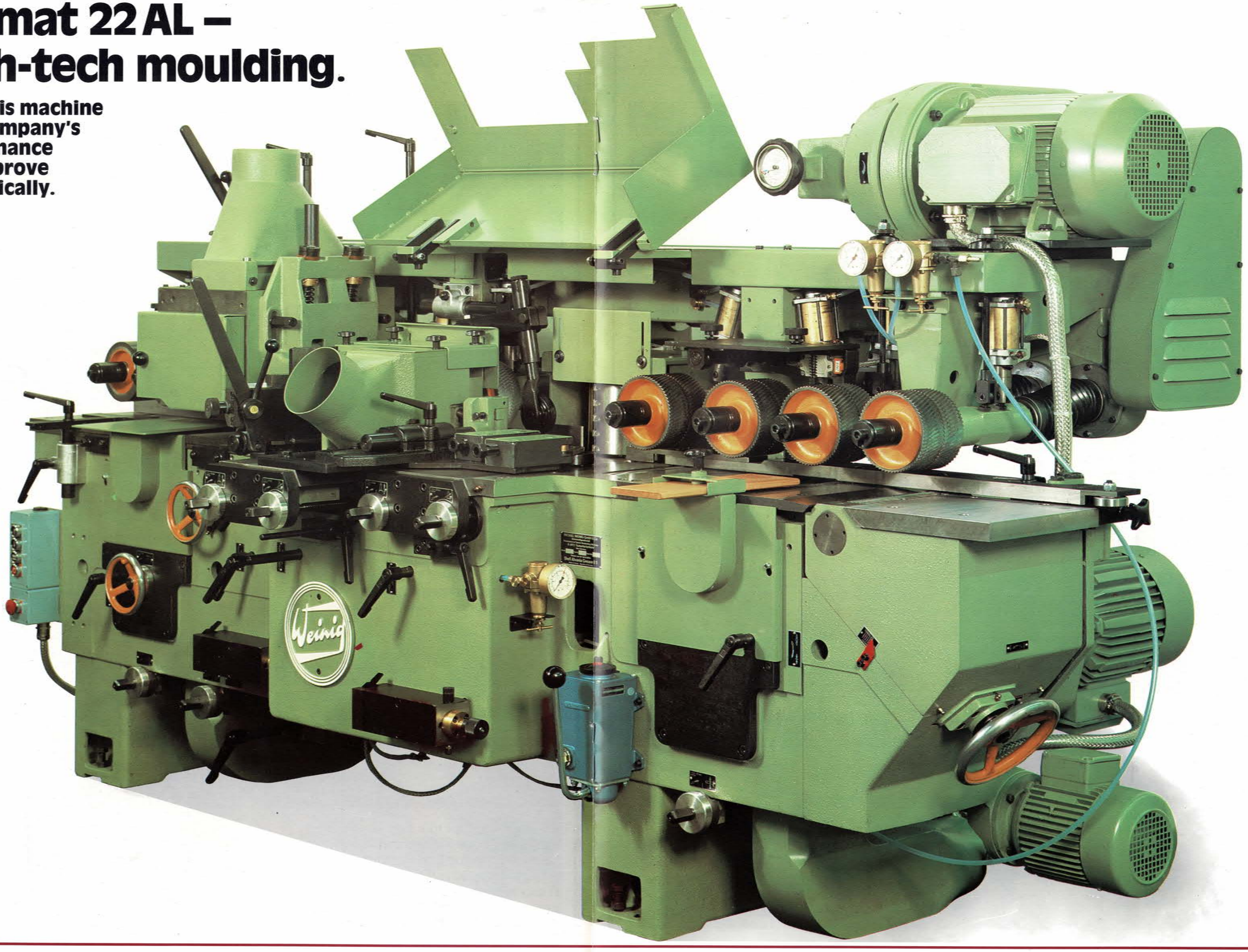
Pressure bar after the top spindle is extremely sturdy and adjustable in all planes to provide the workpiece with reliable support.

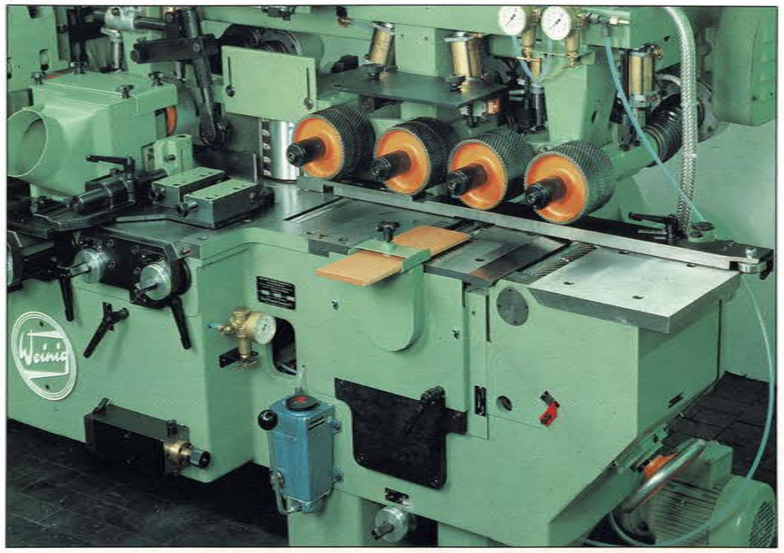


The universal spindle is extremely versatile and can be used from top and bottom or from left and right.
It can also be tilted 90° upwards from the left and 20° downwards from the right.

Unimat 22 AL – high-tech moulding.

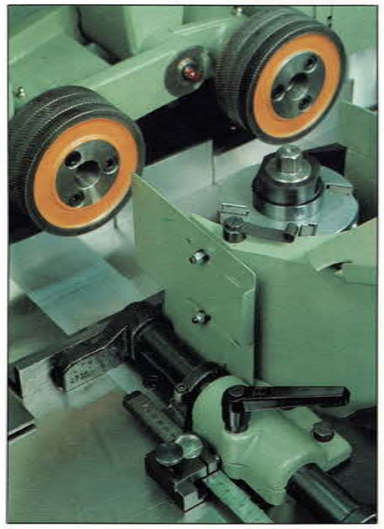
With this machine your company's performance will improve dramatically.

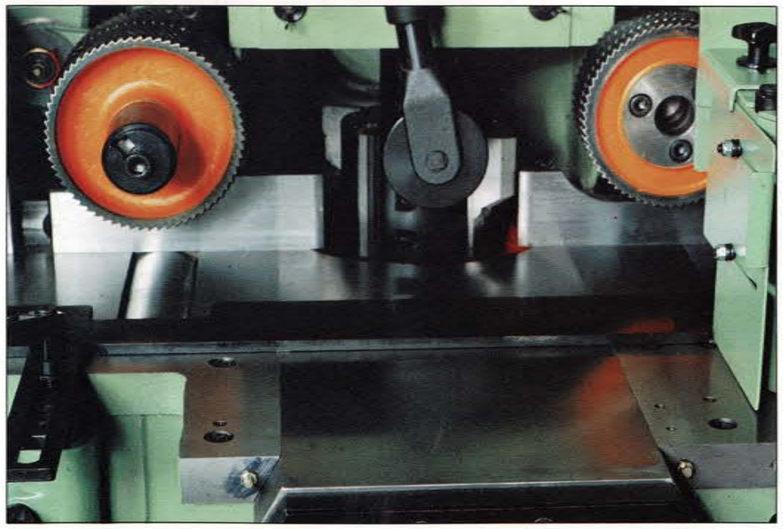




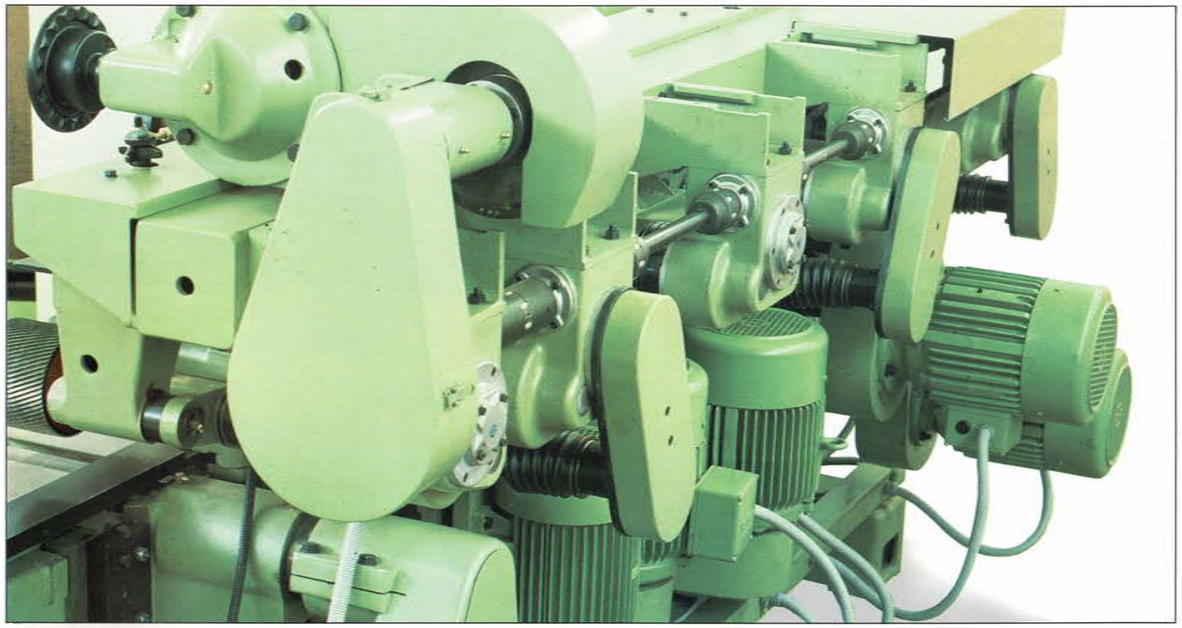
With the Unimat 22 AL the long straightening table of the 22 A is replaced by a short machine infeed.

This heavy-duty infeed device is particularly popular in saw- and planing mills and for making mouldings. A power-driven serrated table roller can also be provided.

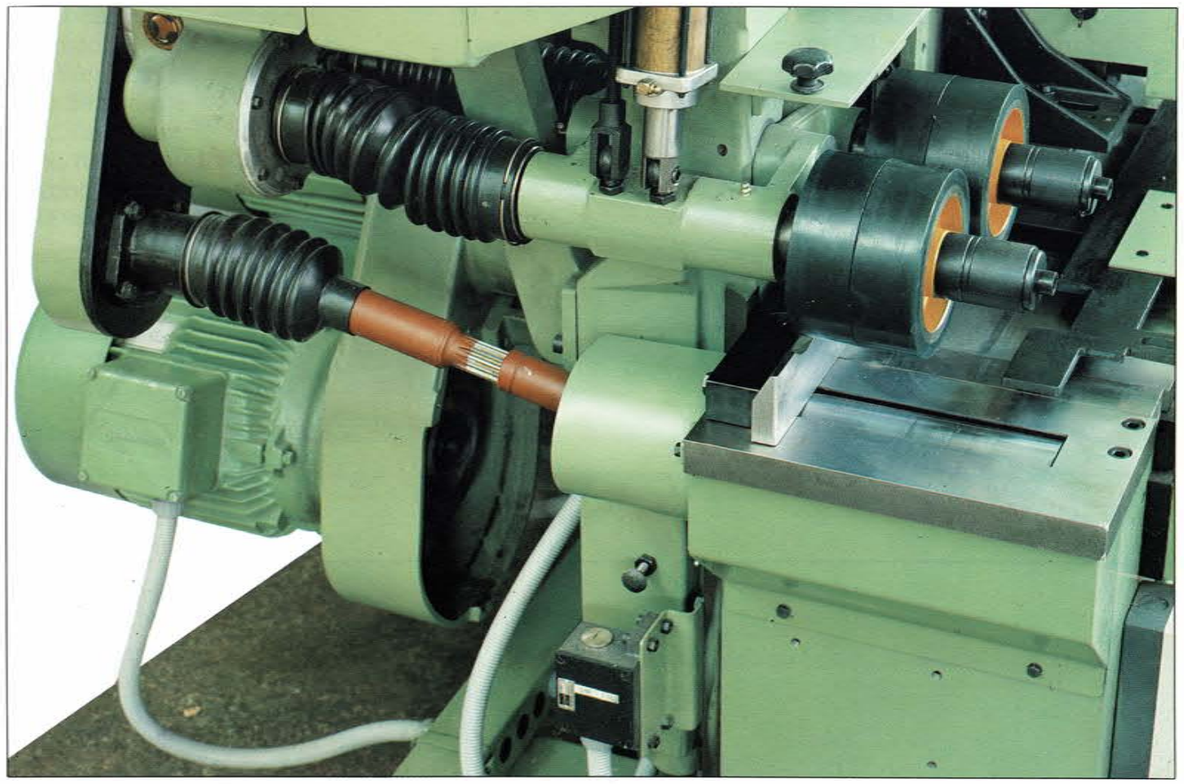




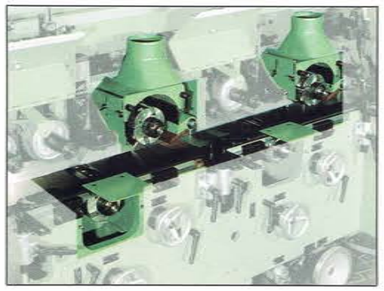
With the large cutting circle of up to 250 mm and the adjustments of right and left fences to the tool, a large number of different tooling systems can be used. The spindle slides running in dovetail guides can be positioned to an accuracy of 0.1 mm.



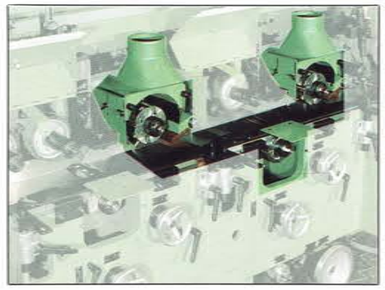
The Unimat 22 A is fitted with a cardan feed as standard: a shaft connects the gear boxes which run in an oil bath while the universal joints transfer the full power without any loss to the feed- or table roller.



The addition of further top and bottom horizontal spindles turns your standard Unimat into a customised machine for your own specific requirements.

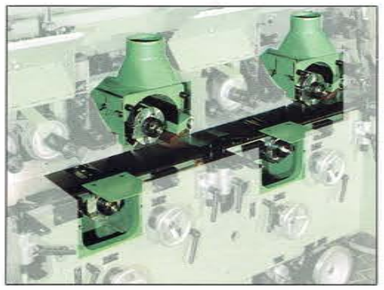


Spindle arrangement:
top – top – bottom

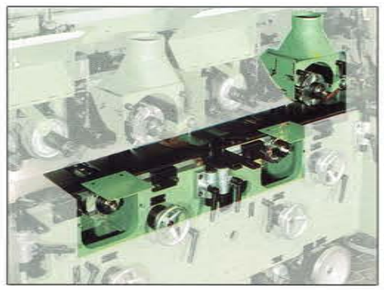


Spindle arrangement:
top – bottom – top

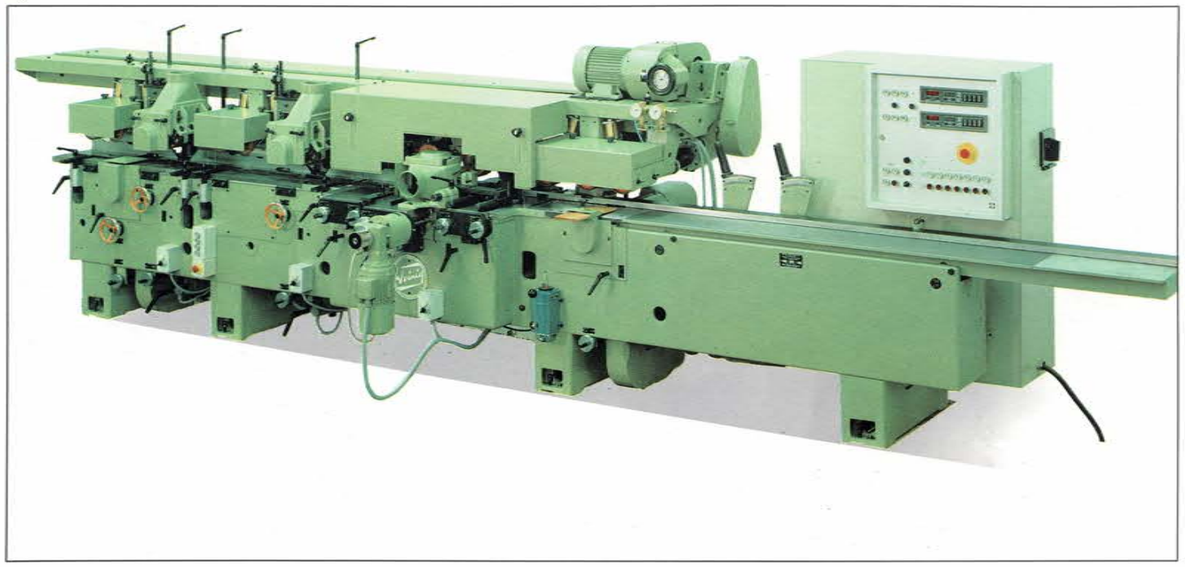
A flexible Unimat design looks like this:
Straightening table 2.5 m long, infinitely adjustable feed with 7.5 kW, (10 hp) motor and a spindle arrangement: bottom – right – left – right – top – top – bottom.
A further spindle can be retrofitted at any time. Left and top spindles are electronically controlled.

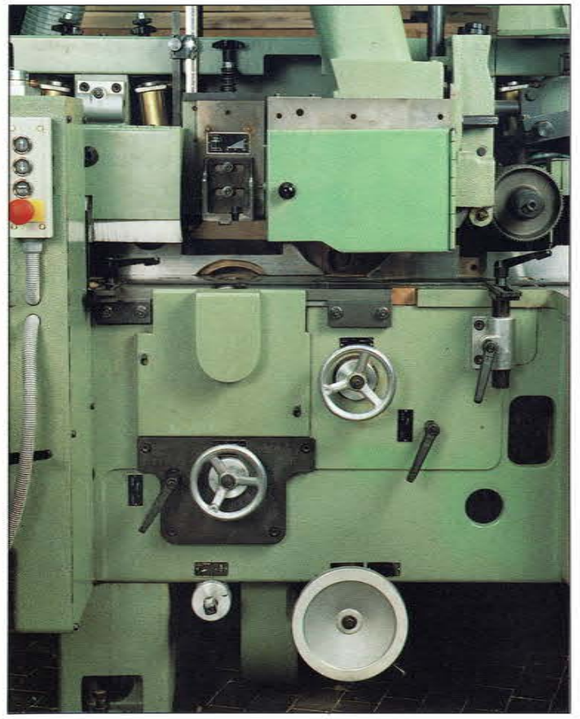


Spindle arrangement:
top – bottom – top – bottom

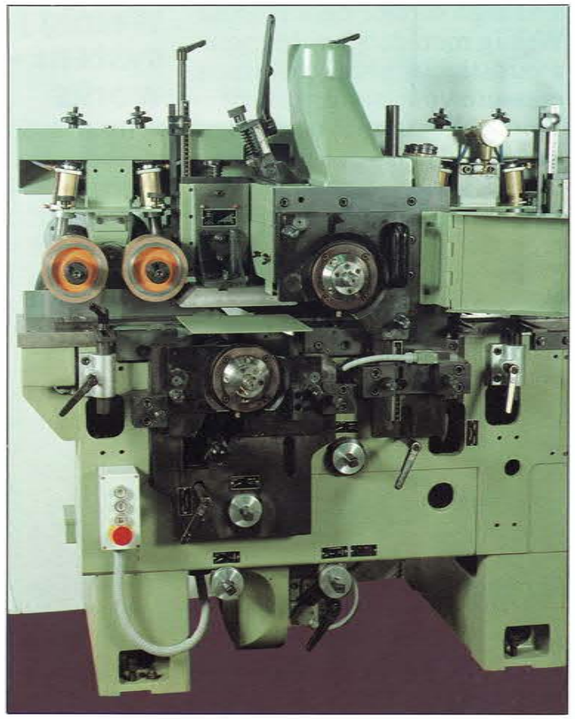


Spindle arrangement:
top – bottom – bottom



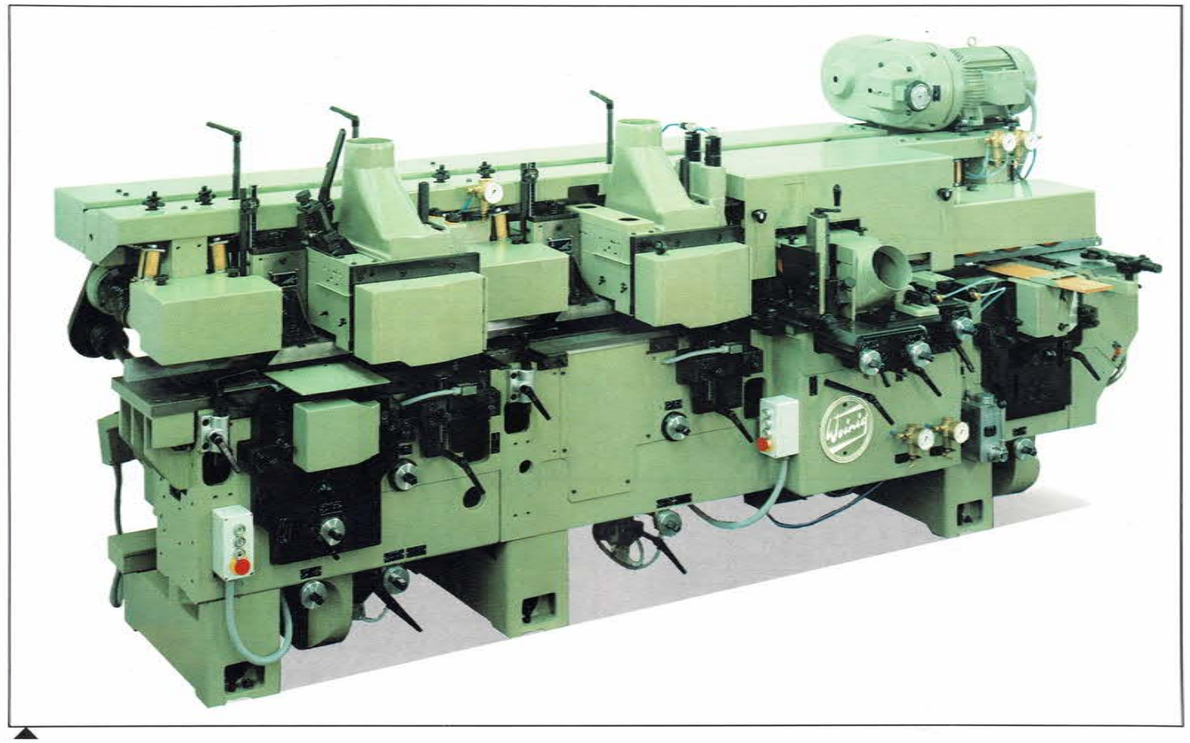


The heavy-duty and high precision spindle design of the Weinig high performance spindles allows jointer to be used on the horizontal shafts even for machines without outboard bearings. In this case working widths of up to 130 mm can be handled.

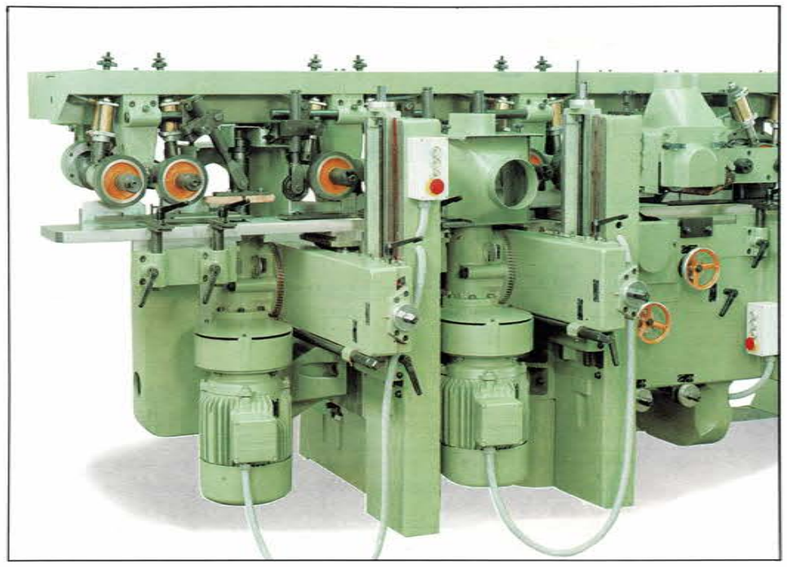


At working widths in excess of 130 mm the hydraulically clamped outboard bearing in conjunction with the built-in jointer ensures perfect surface quality even at high feed speeds.

Up to 60 m/min.!



The Unimat 22 AL has a maximum feed speed of 60 m/min.



Two universal spindles enable you to produce profiles for which you won't find skilled people any more if you stick to conventional production methods.

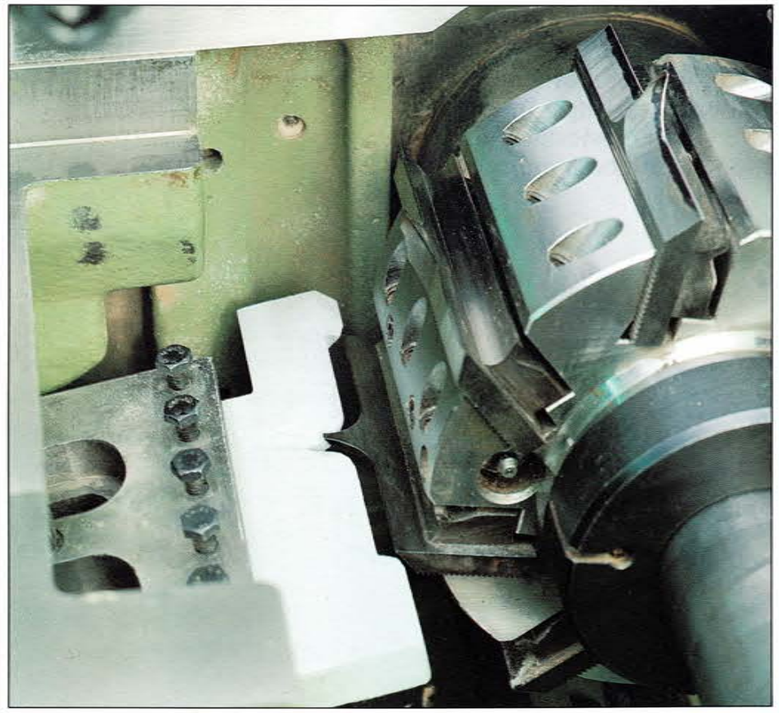
The high surface quality from Weinig moulders has become a yardstick by which customers measure your performance! This quality cannot be allowed to depend on the experience of individual workers or their mood of the day. It must be reproducible day in day out by any employee. The Weinig jointing system is the answer.

Weinig jointing system – how it works

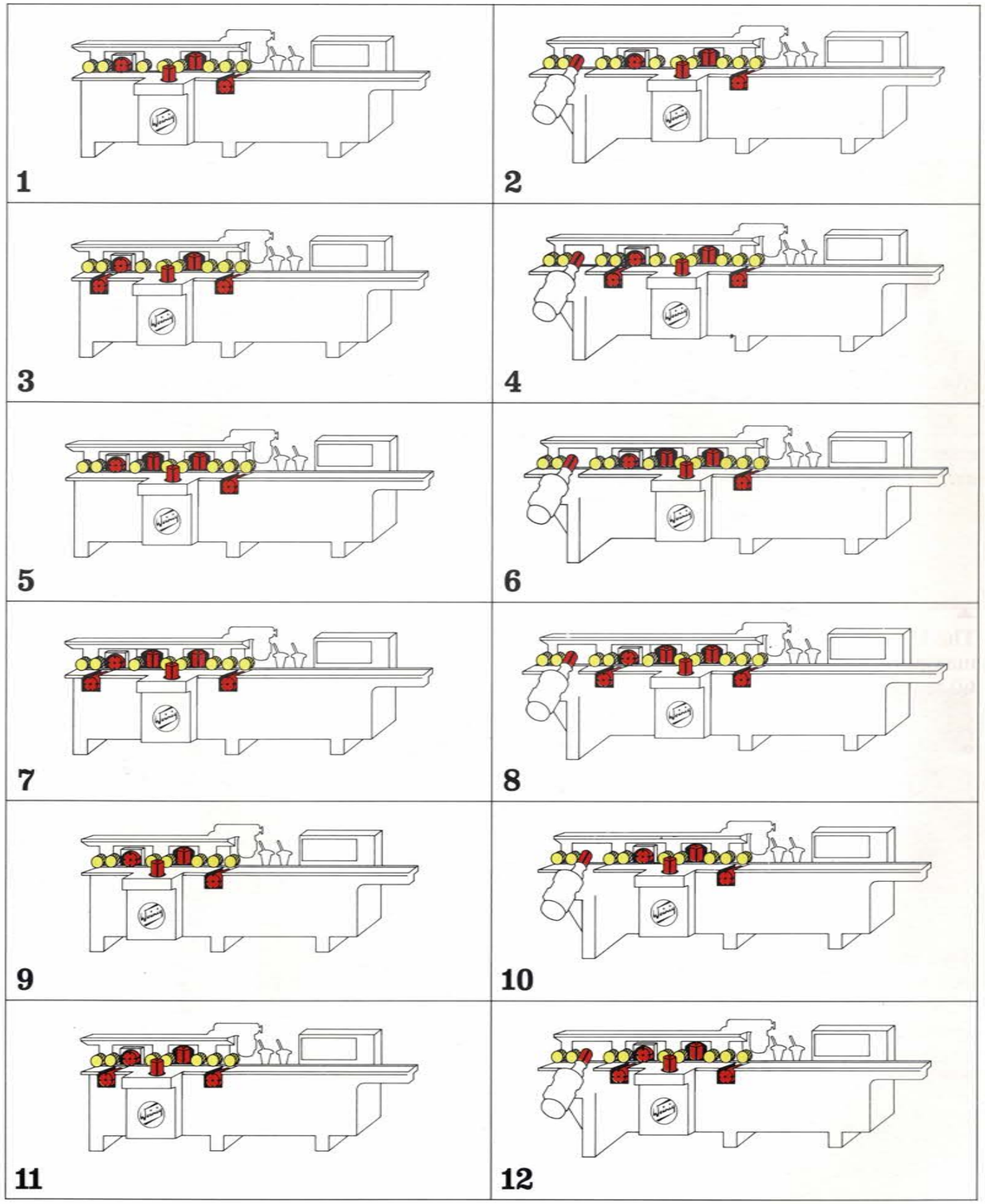
With conventional production methods the quality is influenced by unavoidable tool and machine spindle tolerances and the surface quality is determined by a single knife. With the Weinig jointing system all the knives are surface determining, and this is the secret behind the increased precision and quality.

Pre-requisites for this are heavy machine design and high performance spindles which reduce the tolerances to a minimum and the Weinig Hydro tooling which eliminates the tolerances between the spindle and tool bore. To avoid concentricity discrepancies when grinding the cutter heads are ground on Weinig Rondamat tool grinders.

These components are required before the Weinig jointing system can be used. At the maximum spindle speed (6,000 rpm) the knives in the cutter head are dressed by specially developed, extra-soft jointing stones.



The 12 basic models of the Unimat 22 A.



red = working spindle
yellow = feed roller

Technical data of the Unimat 22 A.

Standard equipment:

Working width*	220 mm
Working height*	120 mm
Feed motor	4 kW (5.5 hp)
Spindle motors	4 kW (5.5 hp)
Spindle revolution	6000 r.p.m.
Spindle diameter	40 mm
Minimum cutting circle dia.	120 mm
Maximum cutting circle dia. of spindles 2 and 3	180 mm
Maximum cutting circle dia. of 2nd right spindle	195 mm
Maximum cutting circle dia. of top spindle	200 mm
Maximum cutting circle dia. of bottom spindle	250 mm
Cutting circle dia. of the first bottom spindle	140 – 180 mm
Feed stepless adustable	6 – 36 m/min
Diameter of feed rollers (hardened)	140 mm
Width of feed rollers	2 x 50 mm
Range of adjustment for straightening table and edge jointing fence	10 mm
Length of straightening table	2 m
Range of adjustment of vertical spindles below the table at a tool cutting circle dia. of 180 mm	40 mm
Range of adjustment of 2nd right vertical spindle at a tool cutting circle dia. of 195 mm	15 mm
Range of adjustment of horizontal spindles (axial)**	30 mm

* at a tool cutting circle dia. of spindle of 140 mm
** not for 1st bottom spindle

The flexibility of the Unimat 22 A.

No moulder can be adapted more easily to your specific production requirements than the world leader.

1. Spindle motors increased up to 37 kW (50 hp)
2. Mobile spindle for workpieces of random widths
3. Electronic or mechanical spindle brakes
4. Special profile guides, table plates and fences
5. Pneumatic feed rollers
6. Anti-kickback device for splitting operations
7. Lateral roller pressure for short work-pieces and small cross-sections
8. Straightening table length extended to 2.5 meter
9. Hard-chromed machine tables and fences
10. Idle and powerd table rollers
11. Groove guide for short, untrimmed and twisted workpieces
12. Additional feed rollers for extremely short workpieces
13. Motorized tiltable feed system for angled timber
14. Safety covers for feed rollers and pressure elements
15. Setting and measuring stands
16. Feed magazines
17. Digital read-outs for shorter set-up times
18. ATS system – new set of dimensions at the touch of a button
19. O.M.A. and C.M.A. systems: measure tool and set up machine in a matter of minutes
20. CNC system: computer-controlled with memory for profile and tool data: spindles set simultaneously to new profiles at the touch of a button and with 100% reliability
21. Outboard bearings for horizontal spindles for high-speed machinging
22. Jointing system for super surface quality at high feed speed
23. Reinforced feed systems – up to 40 m/min or 60 m/min, mechanical and hydraulic
24. Pneumatic pressure rollers and bars
25. Tool cutting circle dia. up to 250 mm, max.
26. Sound enclosures

Subject to technical alterations.
Illustrations with some special equipments and in part without covers for feed rollers.