

Technical data

“What happens when you build on 10 years of experience with four-sided planers?”

“What happens when over 80 years of experience in crafts are also carried over into industrial applications?”

“What happens when a solid machine concept and concentrated user knowledge merge perfectly with each other?”

“It’s quite simple: MARTIN builds the moulder T92.“

MARTIN

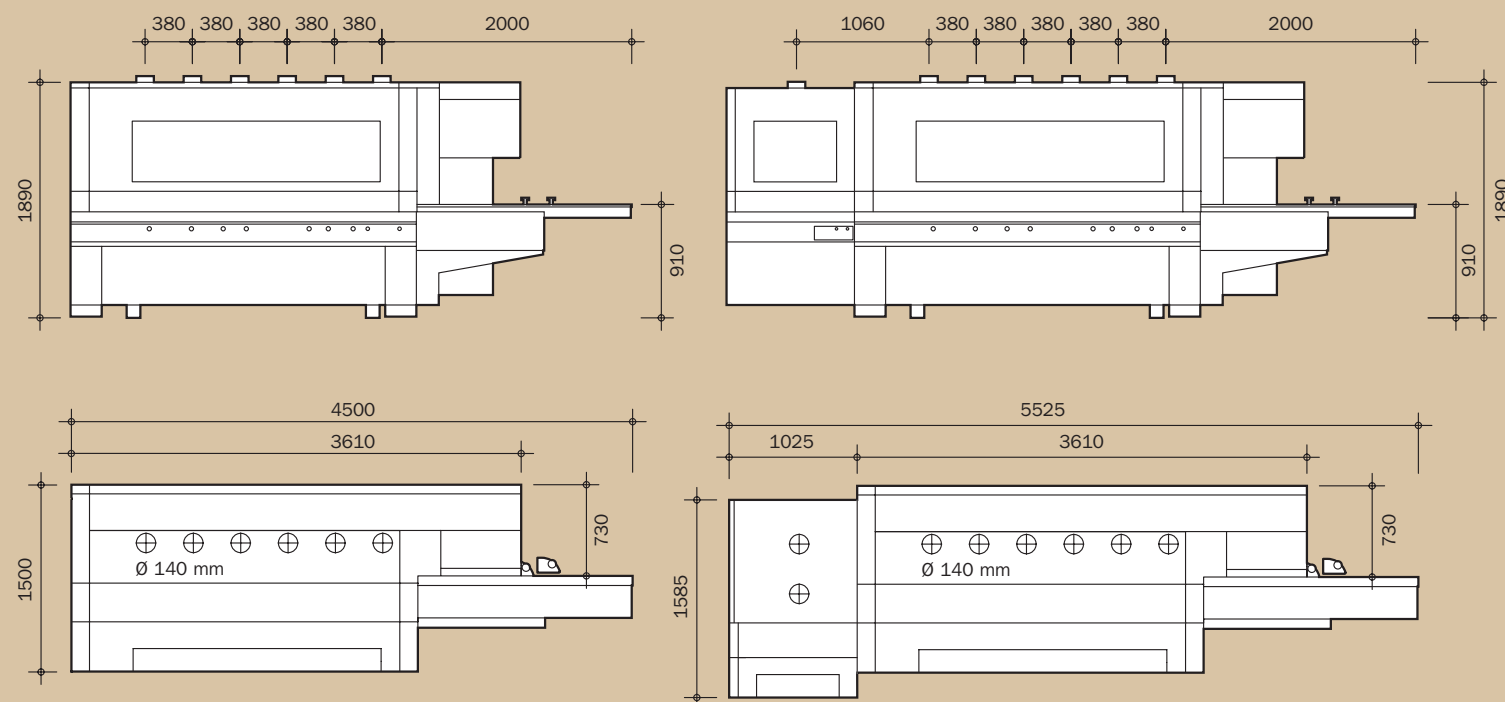
When a leading manufacturer of high-quality woodworking machines takes over 80 years of experience as the basis for a new innovation, these are ideal conditions for creating something great.

And when this results in a flexible machine concept which, thanks to these many years of experience, can be perfectly designed and realised with the highest level of quality by virtue of great depth of production, then we’re optimally equipped to meet the customer’s individual needs.

Because at MARTIN, we’re not satisfied with a good solution if there’s a better one. After all, it’s about making your machines easier for you to use, achieving better machining quality, opening up new areas of use and ultimately being able to produce more rationally. In short: that you achieve optimum results for your customers.

A job for MARTIN – and for the new moulder T92, which offers solutions long after others just give up.

Profiling machine T92



Technical data

Working width	22 – 230 mm (0.86 – 9.05 in)
	22 – 260 mm (0.86 – 10.24 in) (Option)
Working height	5 – 140 mm (0.2 – 5.12 in)
	5 – 180 mm (0.2 – 7.08 in) (Option)

Belt-free tool direct drive (spindle motors)

Adjustment range of the vertical spindles (axial)	max. 85 mm (3.34 in)
Adjustment range of the horizontal spindles (axial)	max. 45 mm (1.77 in)
Number of spindles	min. 4 – max. 7
Motor power per spindle (horizontal)	5.5 – 18.5 kW (7.5 – 25 HP)
Motor power per spindle (vertical)	5.5 – 11 kW (7.5 – 15 HP)
Speed of the spindles	6000 rpm
	1500 – 9000 rpm variable (Option)

Spindle diameter	40 mm (1.575 in)
	50 mm (1.969 in) (Option)

Cutting circle:

Cutting circle 1st lower spindle, min. - max.	125–145 mm (4.92 – 5.70 in)
Cutting circle, vertical spindles, min. - max.	100–225 mm (3.93 – 8.85 in)
Cutting circle, horizontal spindle, min. - max.	100–200 mm (3.93 – 8.85 in)
Cutting circle, universal spindle, min. - max.	100–250 mm (3.93 – 9.84 in)

Motor power of the feed unit	2.2 kW – 5.2 kW (3 – 7 HP)
Feed speed, continuously variable frequency-controlled	5 – 25 m/min (16.5 – 82 ft/min)
	6 – 36 m/ min (19.5 – 118 ft/min) (Option)

Pneumatic pressure of the feed rollers	max. 6 bar
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Adjustment range for infeed table and jointing fence	0 – 10 mm (0 – 0.4 in)
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Infeed table length	2 m (6.5 ft)
	1.3 m (4.26 ft) (Option)
	3 m (9.85 ft) (Option)

Weight of basic machine M4000	approx. 4800 kg (10600 lbs.)
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- Electronic control for machining height and width, also feed bar
- Memory capacity for 200 programs and 200 tools (incl. tool billing)

Warranty

Please consult your responsible dealer if you have any questions on the warranty.

Dimensions and technical data are subject to technical innovation and can change without prior notice.

All dimensions are in millimetres (inches).

Made in Germany.

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Sägen
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Moulder T92

Englisch



A flexible machine concept is one thing.

But a machine concept is only as flexible as the brains behind it

Your customers' needs are changing all the time – and so are their demands. In the future, they won't just be demanding first-class quality, but also greater flexibility and individuality. A challenge to you, but one that will give you the opportunity to set yourself apart from the competition.

In practice this means fast and accurate production of larger and above all smaller batch sizes "just in time", as the customer demands.

Unproductive set-up time costs a lot of money, and anyone wanting to make optimum use of their possibilities in the face of competition has

to meet deadlines, as well as work flexibly and economically.

With this in mind, our developers have bundled together all the MARTIN know-how and have developed a highly efficient machine concept: The moulder T92.

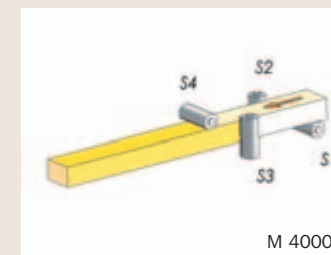
The T92 is built in our state-of-the-art production facility in Germany with very great depth of production.

This guarantees not only consistently high product quality, but in particular the possibility of reacting very flexibly to your requirements and in

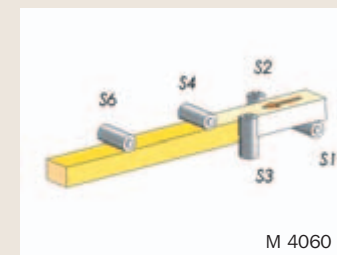
realising the right individual solution for you. Together with close proximity to our customers, this forms the basis for the high degree of solution competence that MARTIN offers you.

Consistently robust technology

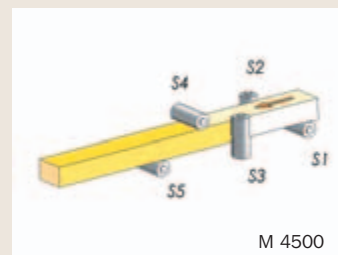
At a solid 2.3 tonnes, the frame manufactured as a composite structure is the ideal basis for a machine that can handle workpieces up to 260 mm wide and 180 mm high. Depending on requirements, the machine can be fitted with 4 to 7 spindles, and even the basic stand has space for a maximum of 6 spindles. This enables you to react to changing situations at any time, and investment security is built in right from the start.



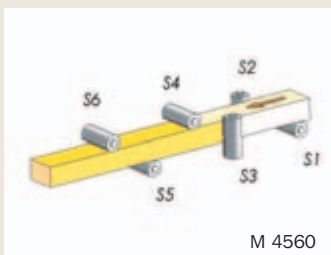
M 4000



M 4060



M 4500

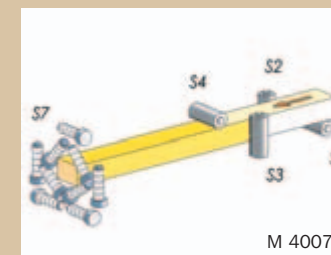


M 4560

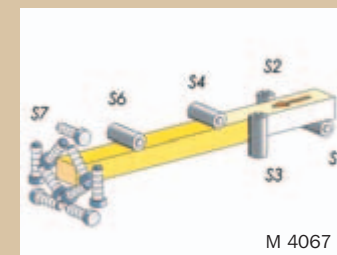


Universal thanks to the universal spindle

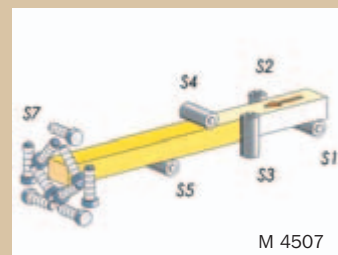
Whichever spindle profile you use with the universal spindle, your productivity and flexibility will greatly increase. Tools of up to \varnothing 250 mm can be used on each side of the workpiece and thanks to the electric motor, the angle adjustment is easy to perform. Of course, the T92 not only conforms to the CE directives, it also carries the German test mark "BG-PRÜFZERT".



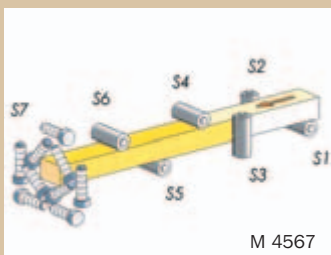
M 4007



M 4067



M 4507



M 4567

Optimum adaptation to new challenges is another thing.

Versatile in use

The T92 performs convincingly in both industrial and craft use. Due to the ideal combination of a flexible machine concept, high efficiency and realised application know-how, the T92 is suitable for all requirements in production that demand a high output capacity combined with maximum quality and flexibility.

Built-in smooth running

The belt-free direct tool drive is a quantum leap inside the T92: The motors developed and built by MARTIN enable tools to be attached directly onto the motor shafts, which are configured as spindles. A technology that has a long track record of success in modern CNC machining centres.

Decisive advantages of this technology are that the spindles run quietly as they are not influenced by a belt, and almost complete freedom from maintenance. This ensures perfect smooth and quiet running of the spindles and decisively reduces the amount of maintenance work involved.

Reducing set-up times at a stroke

The unusually large 85 mm stroke of the vertical spindles enables stacked tooling. Simple axial movements of the spindles allow you to change complete profiles in a very short time without any tool changes and thereby considerably reduce costly set-up times.

Cutting circle adjustment made easy

Perfect adaptation of the table and fence openings to the tools is an important pre-requisite for clean surfaces.

By a simple turn on the star knobs, it is possible to adjust the S2 and S3 table inlays continuously variable to the cutting circle of the tools.

Full productivity right from the start

Even the basic machine of the T92 has a modern Programmable Logic Controller with a large LCD display. The working width (S3), working height (S4) and feed bar are moved via the PLC by servo motors – either with a defined target value or simply by pushbutton. The electronics correct the radius of the tools used, with the result that you can work with real dimensions.

The controller has the right tool

Up to 200 profiles that you have already produced and saved can easily be set step by step based on the machine's entries. All details – from the tools required to the adjustment dimensions – are displayed. You can store up to 200 tools and their reference data in the controller's tool pool. When you reset a profile, the controller calculates the necessary settings based on the specifications and displays them clearly.

Safety for operators and the machine itself

The T92 has electronic collision protection. Even incorrect inputs are intercepted so that no serious damage can occur. The entire pressure unit opposite to S2 is designed so that there is no possibility of collisions with the feed system. This ensures that the machine can be safely operated by any trained worker.

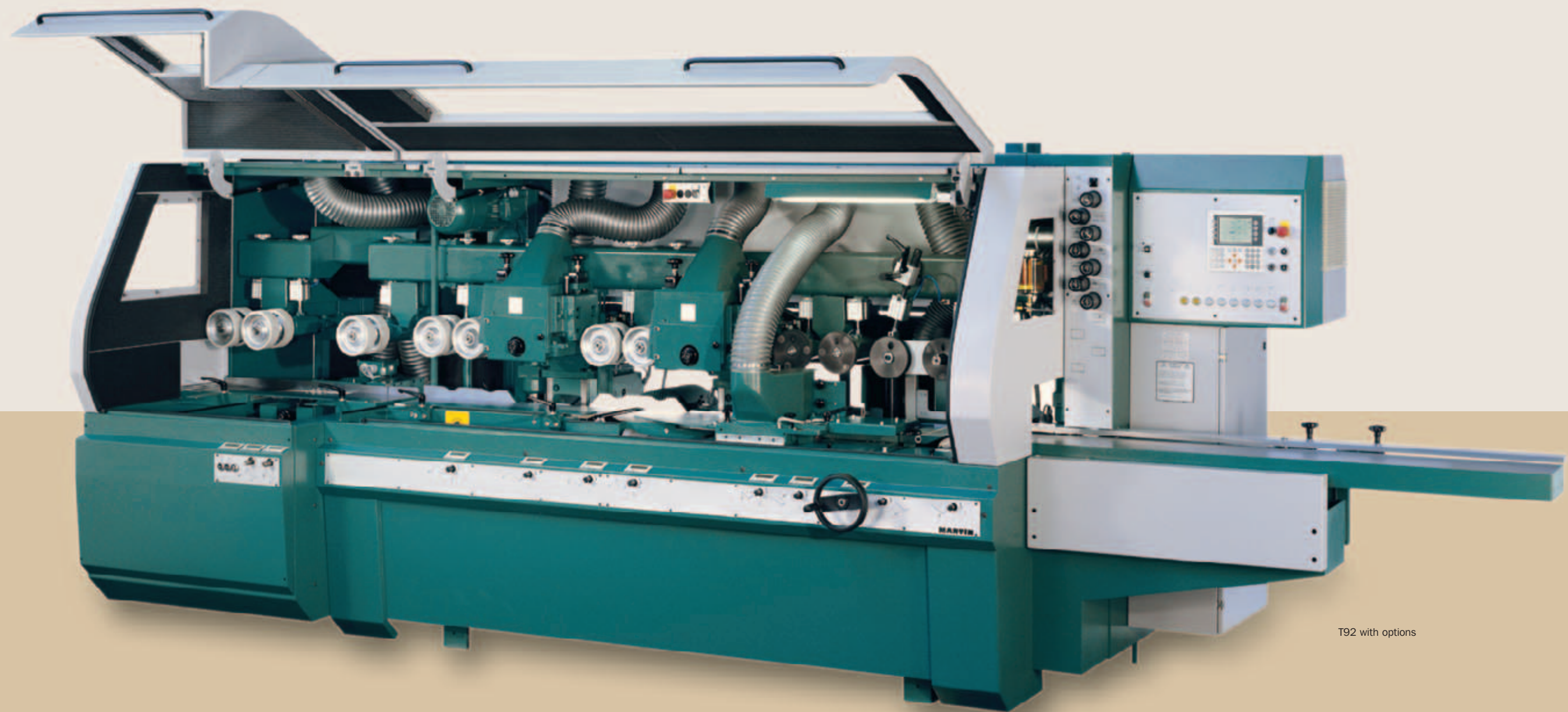
The latest bus technology makes it possible

Thanks to modern technology, control modules such as the continuously variable speed control for the spindle motors can be retrofitted at any time. This gives you a possible speed range of 1500 – 9000 rpm, opening up all possibilities right through to sanding. The "load display" control module allows efficient use of the available capacity: The clear display shows the capacity reserves for increasing your production.

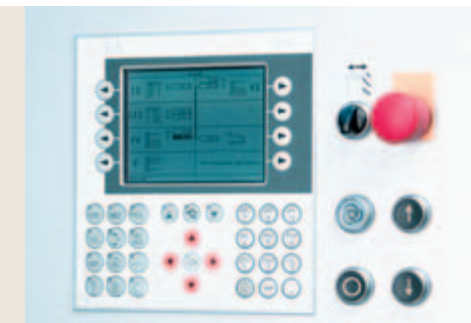
Sometimes narrow – sometimes wide

The mobile spindle allows four-sided machining of lumber of the same thickness but different widths. The machine scans the width of the incoming board and positions the left vertical spindle to the machining dimension in rapid feed mode. This eliminates time-consuming pre-sorting of the materials being machined. An appropriate option for all those who glue a lot of solid wood.

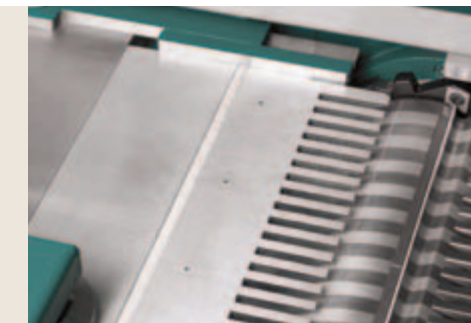
T92



T92 with options



Modern technology at a glance



Everything running smoothly



Transport as required

Besides just controlling the moulder, the PLC is also the central source for information and service. You are constantly kept informed about all important machine operating states. The messages are displayed in comprehensible plain text – even adhering to the recommended maintenance cycles is no longer a game of chance, because the machine reminds you in good time.

When very wet lumber is being machined, the standard synchronised table lubrication may not be sufficient. In such cases, it is recommended to use the optional air cushion table, which is electronically monitored and works only where the workpiece is currently located.

The powerful chainless feed drive ensures safe workpiece transport – continuously variable via an inverter in the range 5 – 25 m/min. If required, a faster feed speed of 6 – 36 m/min is available and motor powers of 2.2 – 5.2 kW can be selected.



Where the pressure is generated



Unique solutions for current problems



Everything synchronised

Opposite to S3, the pendulum axes can be telescopically adjusted with a stroke of 50 mm in order to quickly adjust the feed rollers from narrow to wide workpieces. With a diameter of 160 mm, the large rollers ensure a high transport capacity.

When the moulder is ordered with the second lower horizontal spindle (S5), an intelligent solution enables the table to be exactly adapted to the cutting circle of S5, while keeping the table surface gap-free. This ensures a high surface quality at all times.

The synchronised glass stop output is an important option for window construction. Whether you prefer finished or non-profiled glass stop separation, the T92 does both with style. And the controller also allows you to run several different styles without major efforts. The large 85 mm stroke of the vertical spindle is ideal for this.