

ARGUMENTS for S45 all in one

1. Versatility

- The **S45 all in one** covers all areas of work of conventional panel beam saws
- In addition mitre cuts up to 45,5° can be carried out
- In combination with an angle cut device compound mitre cuts up to 45,5° can be achieved.
- As opposed to panel rip saws it is possible to cut the visible corners (inner or outer corners) in such a way that the saw blade always enters the material on the visible side. This way even the smallest gap from the scoring saw can be avoided at the mitre joint.
- Absolutely accurate mitre cuts are possible due to the workpiece being clamped down by the pressure beam
- Sections up to 4,2 m in length can easily be cut to any required mitre
- Depending on the mitre angle and the thickness of the board these sections can be made to a minimum width of only 50 mm
- It is possible to cut counter grooves onto the mitre surface.
- Veneered parts can be trimmed and cut to mitre in one operation
- The **S45 all in one** positions and cuts the board material via CNC control in automatic and self supervision modus

2. Economicalness

The most important factor : The machine pays off

- Due to its versatility the **S45 all in one** proves to be very interesting from an economical perspective. The **S45 all in one** is able to substitute expensive and highly mechanised panel rip saws in connection with wall saws or horizontal saws. There is no need for an advanced sliding table saw, as most of the operations can be handled much quicker and more accurately with the **S45 all in one**
- The cutting costs per running meter are about three times as high when using panel rip and vertical saws as opposed to the **S45 all in one**
This is mainly because of the low variable costs. The pressure beam saw **S45 all in one** is a ONE MAN – saw. Panel rip and vertical saws always need two employees during the operation, not considering the transport of the boards to the saw

Further advantages are: - minimal waste thanks to optimized cutting.
- no clean cuts necessary due to deviations in measure, etc

3. Control

- Clearly designed user panel
- TFT – Display
- Easy operation due to dialogue controlled surface
- Mitre cuts are possible in all areas of the cutting process
- Integrated labelling programme
- Integrated maintenance programme

4. Printer positioning

- The printer is mounted to the right hand side of the control panel and is therefore especially user friendly for right handed people. Short items can be labelled.

5. Cutting direction

- The cutting direction away from the fence ensures that saw dust does not collect at this point. This means that work pieces can be positioned at the fence area without laborious cleaning of the area. It is also not necessary to enter the strip width during the manual operation modus.

6. Cut quality

1. Saw unit guide

~ Hardened guiding bars ensure life long wear and tear free operation
~ A large distance between the guiding shafts enables an especially quiet run of the saw unit ~
Hardened and profile ground rollers ensure smooth operation of the saw unit ~ A cleverly thought out wipe off system prevents dust from building up on the guiding bars

2. Vertical guide of the saw unit

- Hardened guiding shafts ensure live long wear and tear free operation
- Saw and carriage guides are positioned on the same level, therefore giving optimal stability during the cutting process for all cutting height areas

3. Saw Drives

- The saw shafts are driven via a rib belt resulting in an absolutely vibration free run of the blades

4. Table surface

- The table plates are calibrated on both sides which ensures 100% smoothness of the surface and therefore even scoring throughout the entire cutting length

5. Pressure Beam

- Even pressure in front and behind the work piece are ensured via a pressure beam over the entire pressure area as well as balancing shafts. Wear free rubber coating balances both irregularities of the board and any pressures within the material.
- The electronically controlled offset of the pressure beam is a constructive design. The pressure beam opening is only marginally bigger than with regular beam saws.

7. Compact construction

~ The machine is impressive because of its small outer measures (SL 3,2m = 5020 mm, SL 4,2 = 6020 mm)

8. Clamps

- The clamp levers close onto the cutting material with a rotating movement, therefore pulling the material to the clamps

9. Touch free measuring system to regulate the pusher fence

- A magnetic measuring system with a resolution of 0,01 mm guarantees exact cuts according to measure, is free of mechanical wear and not sensitive to dust.

10. Operational safety

- The operational safety is far higher with the S45all in one when compared to panel rip saws
- The entire cutting area is covered by the pressure beam throughout the sawing process. It is not necessary to use hands to hold and move the boards, therefore eliminating any possibility of injuries to face and eyes caused by splinters.