

Proven technology and ongoing innovation in the field of throughfeed saws

HOMAG Holzbearbeitungssysteme AG offers not only saws for flooring production but also solutions for other manufacturers of panel-shaped materials.

Using proven components such as rolling chains, which also feature in double-end tenoners, or flexible saw blade adjustment, HOMAG is able to successfully supply optimum solutions to wide-ranging different requirements.

The company's saw concepts are in successful application across wide-ranging fields such as flooring, furniture, batten and chipboard production. Using independently controllable upper and lower sawing units, HOMAG saws are also capable of producing flexible cutting patterns.

In the field of sawing technology, HOMAG makes a general distinction between rip and crosscutting saws. In rip saws, the raw panel is fed through the saw using transport rollers and cut into strips. Crosscutting saws, in contrast, use block link chains to guide the ripped panel strips through the saw, where they are divided and sized in the transverse direction. Precise cross cutting is ensured by resting the workpieces against the cams in the block link chain.

The dual-lane rip saw FSL 420 features individual dust hoods for the lower flexibly adjustable saw blades and a low-wear cardan drive for the panel feed. The dual-lane structure allows panel sizing in the first lane and a minimal cutting dimension of only 95 mm to be produced in the second lane, made possible by the use of polygon shaft technology. This technology permits the saw blade to be flexibly positioned when in an activated status, saving set-up times and increasing productive time. The

large 140 mm diameter of the transport rollers guarantees a long service life. The basic version features a user-friendly durable contactor control system, with the option of an upgrade to PC control. The FSL 420 is mounted on rails to allow the entire machine to be moved out of the production line, so simplifying tool changes and servicing work on the complete machine.

For crosscutting, HOMAG offers a saw which combines high throughput with extreme feed precision in the form of the FSQ 380. This model benefits from the use of proven technical features derived from double-end tenoners, such as its rolling block link chain. The processing width is around 4,000 mm, with feed rates variable between 15 and 60 m/min. Fully automatic unit width adjustment is also an available option.

Continuous further development work in the field of throughfeed saws over recent years involving collaboration between plant operators and the company's project processing and development departments has produced a number of concepts offering a wide range of benefits, particularly for integration in production lines.

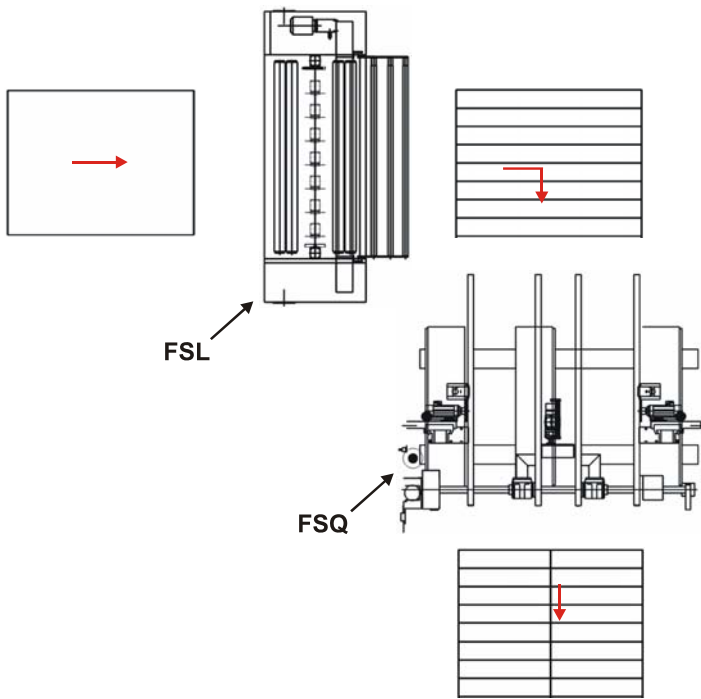


Fig. 1:

Schematic sketch of rip saws with rollers and cross-cutting saws with cam chain



Fig. 2:

Precise sawing position adjustment by motor-controlled spindles (FSL 420)



Fig. 3:

Traversing rails permit convenient tool change and machine servicing (FSL 420)



Fig. 4:

Unit structure for crosscutting furniture panels (FSQ 380)

For more information, contact

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