

Axioma 105



Innovative machine for professional sizing

Axioma 105 is the ideal machine for those who don't want to give up the flexibility of a single blade panel saw while still producing the high volumes that only an "angular system" can guarantee. Axioma 105 represents a minimum investment for a maximum increase in production



Technical data

Cut dimension

Axioma 105
mm 3200x2200
4500x2200 - 4500x2440

main blade protusion

mm 105

main blade motor

kW 11.25 - 15

Saw carriage max speed

m/min 60 - 135

Pusher speed rip section

m/min 50

Pusher speed cross section

m/min 80

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Gabbiani Axioma 105: a new concept in Angular Panel Sizing.

Ideal for small and medium-sized companies, who have to manage their business growth in a challenging and changing market environment, where the best results are achieved by a swift response, and the ability to make changes at short notice. The requirement to meet the needs of its own customers, who no longer want to hold inventory, demand smaller lot sizes, on shorter lead times, necessitates a totally different approach that will produce a competitive advantage in the marketplace. Investment choices in new equipment are, therefore, extremely critical. Typical equipment solutions, designed to meet these challenges, usually require very high capital investments, which are not always feasible or produce quick returns.

The Gabbiani Axioma 105 Angular Saw, thanks to its extreme flexibility, productivity features, and very competitive pricing, is the solution to meet these needs.

The Gabbiani Axioma 105 Angular Saw does not take up much space, and provides new opportunities to those companies who need to replace their own single-blade saw without significant changes to their existing factory layout. In a 100m² area, only 20% more than a normal single-line rear-loading saw, you can have a sawing system able to double, or triple, the productive capacity of a single-blade saw for small and medium batch sizes.

In fact, the Gabbiani Axioma 105 has many flexible features, unusual for a specialized angular saw, combined with high output capabilities. It facilitates single-blade type machining such as post-formed cross cutting, grooving and narrow strip control.

The cross cut saw can also be used in single axis mode for the execution of unique cutting patterns or unplanned small orders. These panels are loaded directly from the cross-section, and automatically the panel stack is transferred to the rip-saw for cutting, and then subsequently transferred to the cross area for cross cutting. This can all be done without having to remove the stack of material already on the lift-table, thus saving considerable time, and providing maximum flexibility, especially for urgent and immediate cutting needs.

A further example of how the Gabbiani Axioma 105 combines high productivity with maximum flexibility is the capability of executing head-cuts. The operating sequence is that the panel is moved from the lift-table onto the crosswise cutting axis where the head-cut is made, then the "master" piece is automatically moved back into the rip axis to be processed, while on the crosswise axis the head-cut piece can be cut at the same time. This simultaneous machining of the two panel pieces, the master and head-cut piece, ensures reduced processing times, and optimum material yields.

Standard equipment

Compact Type	209	309	409	509	609	709	809	420	520	620	720	820
Gluing station, 9 mm lippings (3 pressure rollers)	x	x	x									
end trimming unit (10 or 5 degree)	x	x	x									
flush-radius milling/chamfering unit	x	x	x									
Gluing station, 9 mm lippings (6 pressure rollers)				x	x	x	x					
Gluing station, 20 mm lippings (6 pressure rollers)								x	x	x	x	x
Double end-trimming unit (0-25 degrees)				x	x	x	x	x	x	x	x	x
pre/flush milling unit				x	x	x	x	x	x	x	x	x
radius/fine milling/chamfering unit				x	x	x	x	x	x	x	x	x
frequency changer 200 cycles				x	x	x	x	x	x	x	x	x
mounting space reserve approx. mm	○	1000	2000	1000	2000	3000	3800	○	1000	2000	3000	3800
Feed speed m/min.	10			10-20								

optimal accessories

Heavy duty guillotine for 3 mm PVC & and large coil table	x	x	x	x	x	x	x	x	x	x	x	x
Pre-melt tank & automatic granulate top-up system	x	x	x	x	x	x	x	x	x	x	x	x
profile scraper (top and bottom)	○	x	x	x	x	x	x	○	x	x	x	x
scraper unit controlled (top and bottom)	○	x	x	x	x	x	x	○	x	x	x	x
buffing unit (top and bottom)	○	x	x	x	x	x	x	○	x	x	x	x
sanding unit	○	x	x	x	x	x	x	○	x	x	x	x
Radius sanding 08.063 upper & lower max. R=7 (each 450 mm*)	○	x	x	x	x	x	x	○	x	x	x	x
Contour milling unit (manual)	x	x	x	x	x	x	x	x	x	x	x	x
Contour milling unit (thru-feed) 08.46 or 08.47 (each 1600 mm*)	○	○	x	○	x	x	x	○	○	x	x	x
Support rail or counter pressure device	x	x	x	x	x	x	x	x	x	x	x	x
Dust collection unit	x	x	x	○	○	○	○	○	○	○	○	○

*] = Mounting space
○ = not possible

**] = removes residual glue only in case of plastic edges

other versions possible