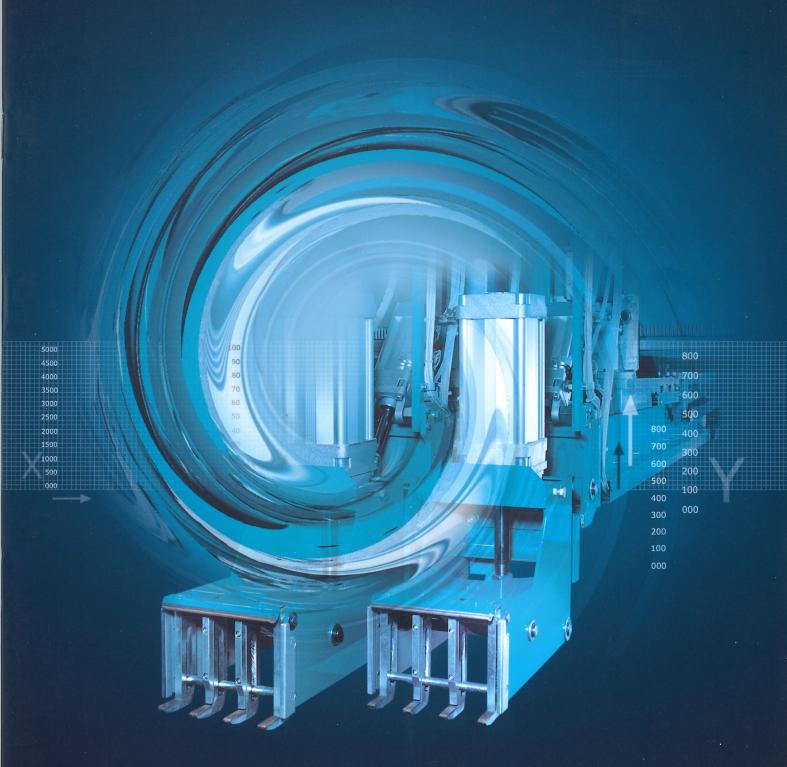
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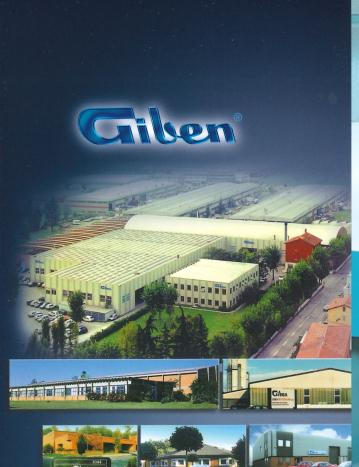




A new technology. A new look. A new era.







Having focused its efforts totally on panel sizing for more than five decades, Giben has accumulated an immense amount of knowledge and expertise.

This enables the company to provide design and solutions which anticipate customer needs rather than simply responding to current demand.

Today Giben is an industrial group strong of four manufacturing plants and nine distribution subsidiaries. Giben International, Giben America, Giben Australia, Giben Canada, Giben do Brasil, Giben Deutschland, Giben de España, Giben Scandinavia, Giben UK, testify the commitment of our company to those demanding customers that place their trust in Giben's products, service, and support.











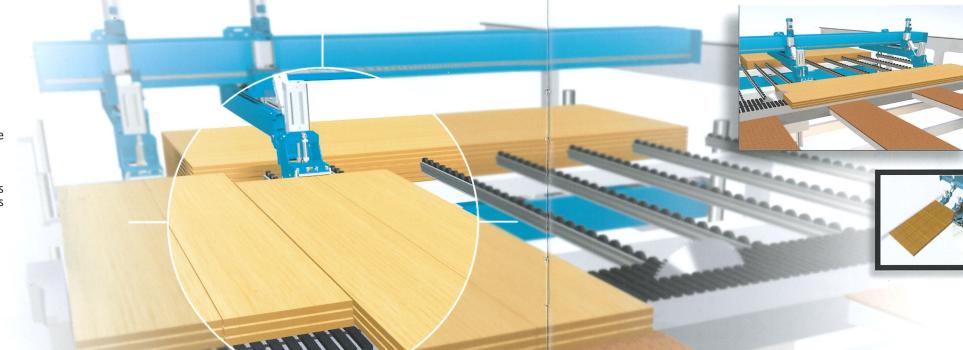
With the solution of controlled positioning by G-Drive (3), it is possible to secure, with just a few grippers, a positive grip for several panels side by side, bound to be sized and moved together.





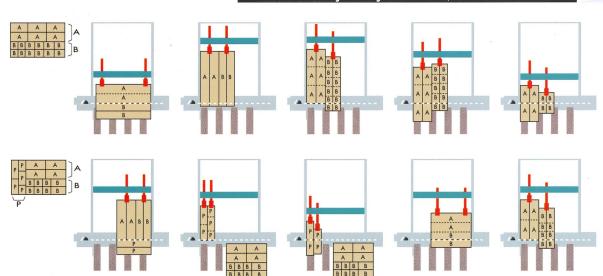
A new technology. A new look. A new era.

The PM System allows to always optimize the grip of the grippers based on the actual dimension of panels (length cutting) or groups of strips to be cut (cross cutting).



The PM System allows avoiding the inconvenient position of a gripper pinching the corner of a stack, a situation leading to the damage of an edge already cut and finished.

GIBEN PM System yields more, better and fast



With the combination of "XY" type grippers full stacks of panels in a staggered pattern can be cross cut in one single cycle as if it were a checkerboard pattern. A single line panel saw Formula XY can now match outputs that in the past were reserved to angular sizing plants only.

PM SYSTEM

THE REVOLUTIONARY CHANGE IN THE WAY PANEL SAWS OPERATE!

New system of moving grippers with automatic positioning. PM System makes the panel saw suitable to work with panels or groups of strips of any size. Its basic tools, the grippers, have been made adaptable to different formats and to the type of different panels or groups of strips. The gripper has been conceived as a robotized device, controllable in its movements along the length axis (X) and the cross axis (Y) of the pusher.

Optimization without limitation

There is no limitation as to the patterns that the machine can process, because the "danger" areas of fixed position grippers have been eliminated by the PM System. Cutting of rests even of small size can be optimised.

Long term solution

There is no need to replace or modify the machine as the panel format needs change. PM System is the solution which allows the machine to meet the needs of today and tomorrow.















A new technology. A new look. A new era.

Saw carriage and "triangle shaped" guiding system that has been in use for more than 30 years on all GIBEN machines, guaranteeing sturdiness and maximum stahlity

Split and independent pressure beam.
Besides blocking the stack and applying equal pressure even during the last trim cut, the beam guarantees optimum dust extraction.

lent Automatic side aligning.
This device keeps the stack of strips constantly aligned during the forward and reverse movement of the pusher and during the whole cross cutting cycle until the last trim cut.

The new series **GIBEN FormulaXY** represents the most advanced technology in panel sizing.

Its look, its technical features and the technical innovation PM System make it truly unique.

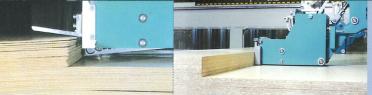
PM System is the innovative system of moving grippers using computer controlled positioning, integrated in a process of high automation to add the maximum flexibility to the production environment.

FormulaXY-SP

The SP version features front loading of the stacks and pusher with grippers.









The picture shows a FormulaXY with two"XY" type



A new technology. A new look. A new era.

On request, a special device is available for automatic loading of thin and wavy material.

The grippers for FormulaXY-SPT are fitted with a disappearing lower finger that allows quick infeed from the lift table.

FormulaXY-SPT

The SPT model features a lift table for automatic back loading and a pusher with grippers.











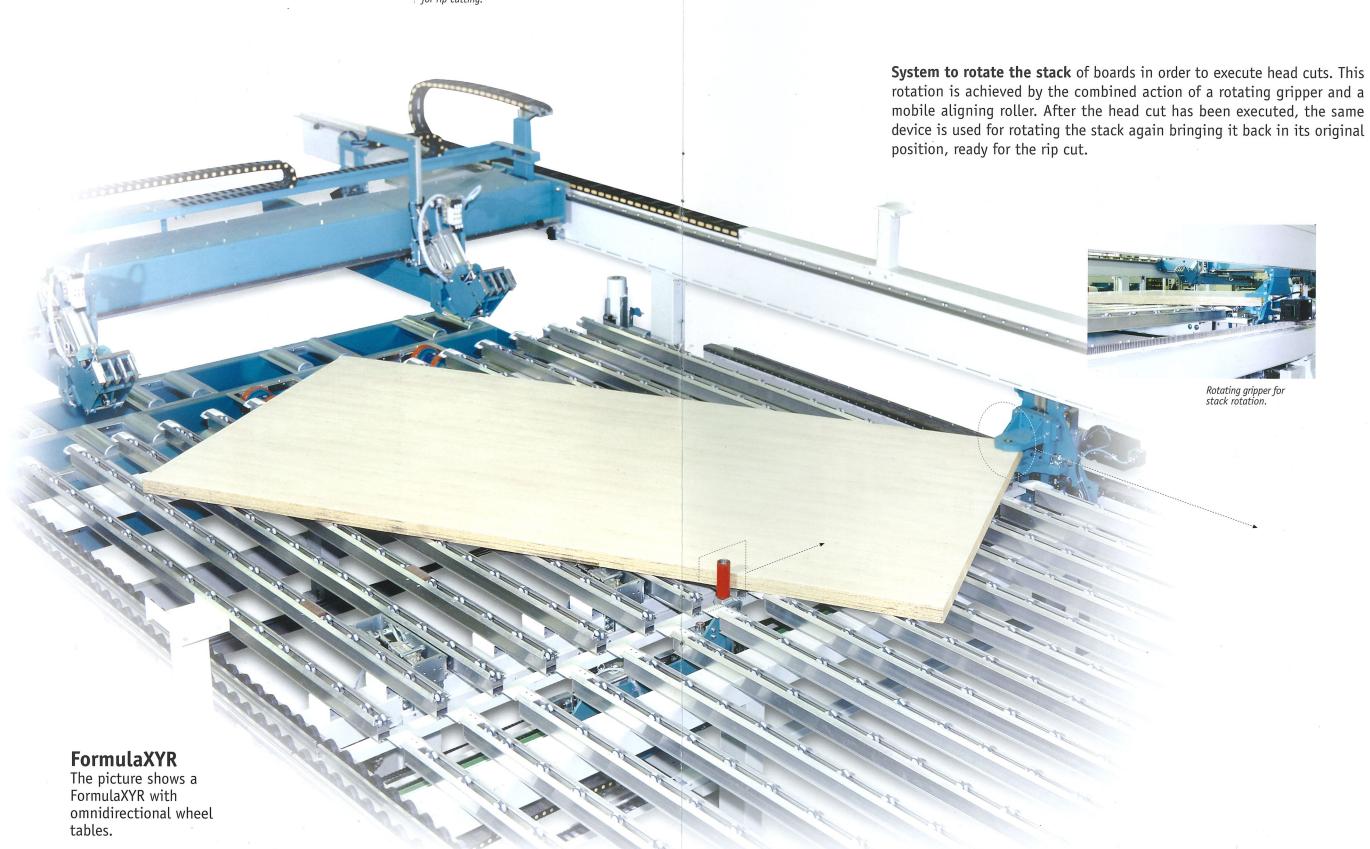




90° stack rotation for execution of one or more head cuts.

90° rotation of the main part of the stack to transfer it to the starting position ready for rip cutting.

A new technology. A new look. A new era.

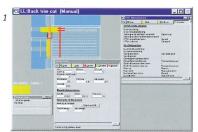








A new technology. A new look. A new era.



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- 1) Real-time graphic of various operation phases.
- Pattern graphics shown on scale.
-) Johs library
-) Menu selection.
-) Modifications of user defined

G-Drive machine control software has been developed by GIBEN to run within the Microsoft[®] Windows NT[™] multi-tasking operating system. **G-Drive** controls all the machine movements directly. The machine layout and cutting patterns are displayed, to scale, on the screen. During job execution or simulation mode, all machine operations, panels and parts movements are displayed on the screen in real time.

Direct control by **G-Drive** of all the machine functions facilitates the

ultimate in diagnostic and troubleshooting, enabling fast and efficient problem solving. This is achieved, from the operator's perspective, by a combination of detailed error message descriptions, suggested help solutions, short video help sequences, photographs, and drawings. Furthermore, the Windows NT[™] operating system allows the easy editing and/or upgrading of the diagnostic system library as necessary.

The input of data is made simple in a number of different ways, manually at the machine, by floppy disk or via a network. Dynamic label printing, as the parts are being cut, is also available. All of the above is installed on the machine controller, which is a standard office type PC equipped with a 17" color screen. The main three elements making up the controller i.e. keyboard, computer and screen are completely interchangeable with







The best off-loading solution equipped with G-ROBOT

In the past, operators had to do repetitive and strenuous off-loading jobs manually, but now the use of robotized equipment has made life easier for them, optimizing output in the process.

In practice, entrusting the perpetual repetition of identical movements to a robot has the effect of securing greater freedom to program for constant quality and profitability.

Once again Giben has shown the way forward in panel-sizing, confirming its credentials as a dependable partner in the development of innovative solutions.

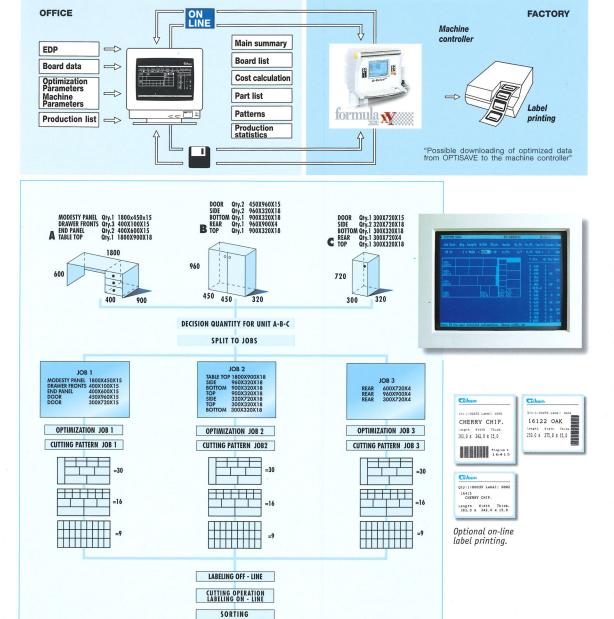


The picture shows a solution of sorting and unloading of the parts.

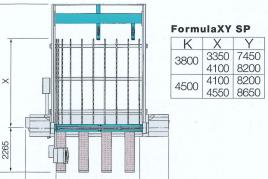
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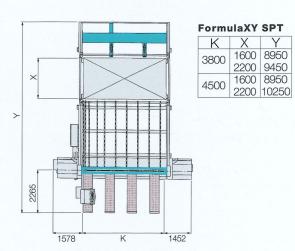
OPTISAVE, Giben's optimization software, is the perfect answer to the requirements of panel sizing that uses Giben decades long expertise and advanced technology. Windows driven menus make Optisave provide the best panel yields, the best cycle times, and useful cost analysis. The results can be organized in batches, can be downloaded by modem or network, can be copied to diskette, can generate labels with or without bar codes, can manage and re-utilize rest parts. All this in a multitude of situations, from traditional panel sizing to strip line technology.











Technical	FormulaXY		
specifications	Hz 50	Hz60	
Saw projection	132 mm	5,2"	
Saw carriage • feed speed • return speed	1÷130 m/min. 130 m/min.		
Main saw • motor	Ø 470 mm. 15 - (18) kW	Ø 18,5" 18 - (22) kW	
Scoring saw • motor	Ø 215 mm. 2,2 kW	Ø 8,4" 2,6 kW	
Pusher speed • fast feed (*) • return (*)	1÷60/min. 60 m/min.	3÷197 ft/min. 197 ft/min.	
Dust extraction air speed dust extraction outlets	30÷35 m/sec. Ø 200 mm Ø 115 mm	98÷115 ft/sec. Ø 7,8" Ø 4,5"	
Compressed air pressure consumption	5÷6 bar 20÷30 l/min.	5÷6 bar 20÷30 l/min.	

(*) The feed speed of the pusher can be modified. The value stated above corresponds to a parametric data set during running tests. The data may vary country by country in relation to safety requirements.



FormulaXY is equipped with devices which ensure that European safety standards (CE mark) are respected completely. In order to meet european safety standards the machine must be supplied with safety guards.

MACHINES AND TECHNICAL DATA MAY VARY COUNTRY BY COUNTRY IN RELATION TO SAFETY REQUIREMENTS.

TECHNICAL DATA AND MACHINE CONFIGURATIONS MAY VARY, GIBEN RESERVES THE RIGHT TO MAKE MODIFICATIONS TO THE DATA AND TO THE REPRESENTATIONS MADE IN THIS BROCHURE AT ANY TIME AND WITHOUT PRIOR NOTICE.



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PANEL SIZING MACHINES AND SYSTEMS
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