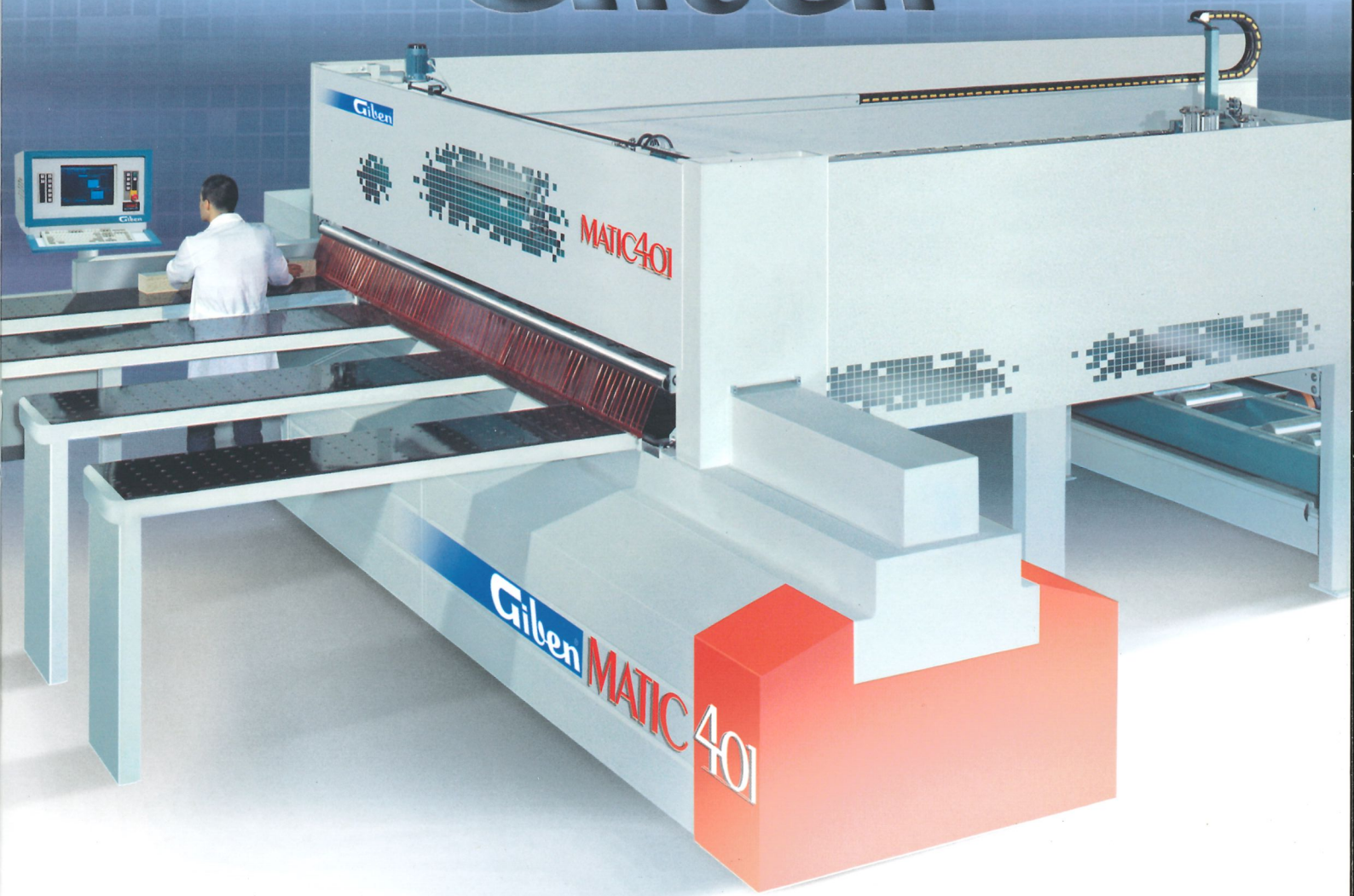


The New Matic

# MATIC401

## Giben®







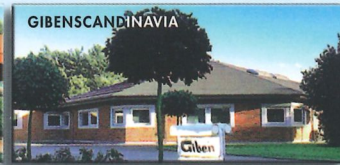
GIBENdoBRASIL



GIBENDEUTSCHLAND



GIBENAMERICA



GIBENSCANDINAVIA



GIBEN U.K.

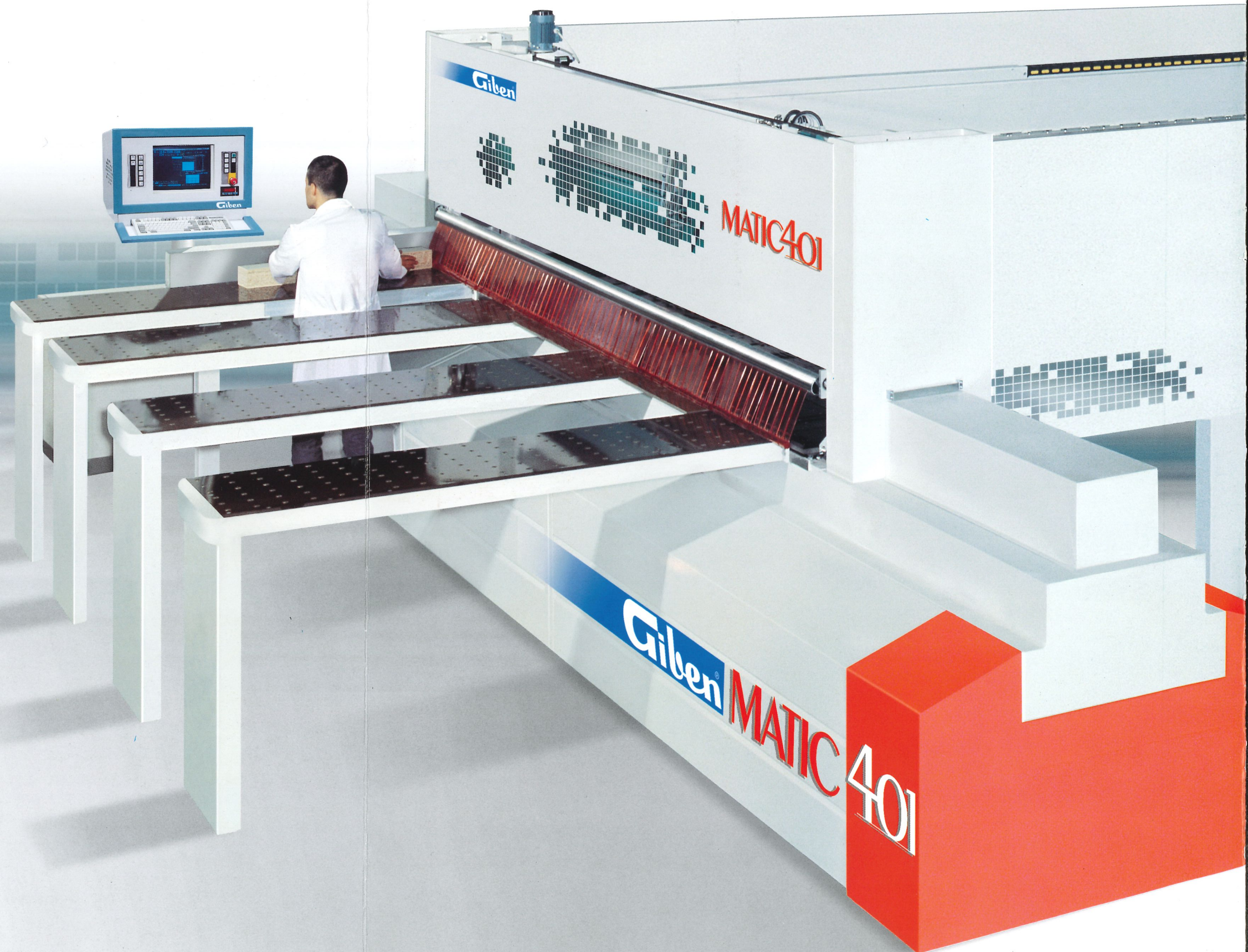


**GIBEN, the advantage of being a specialist.**

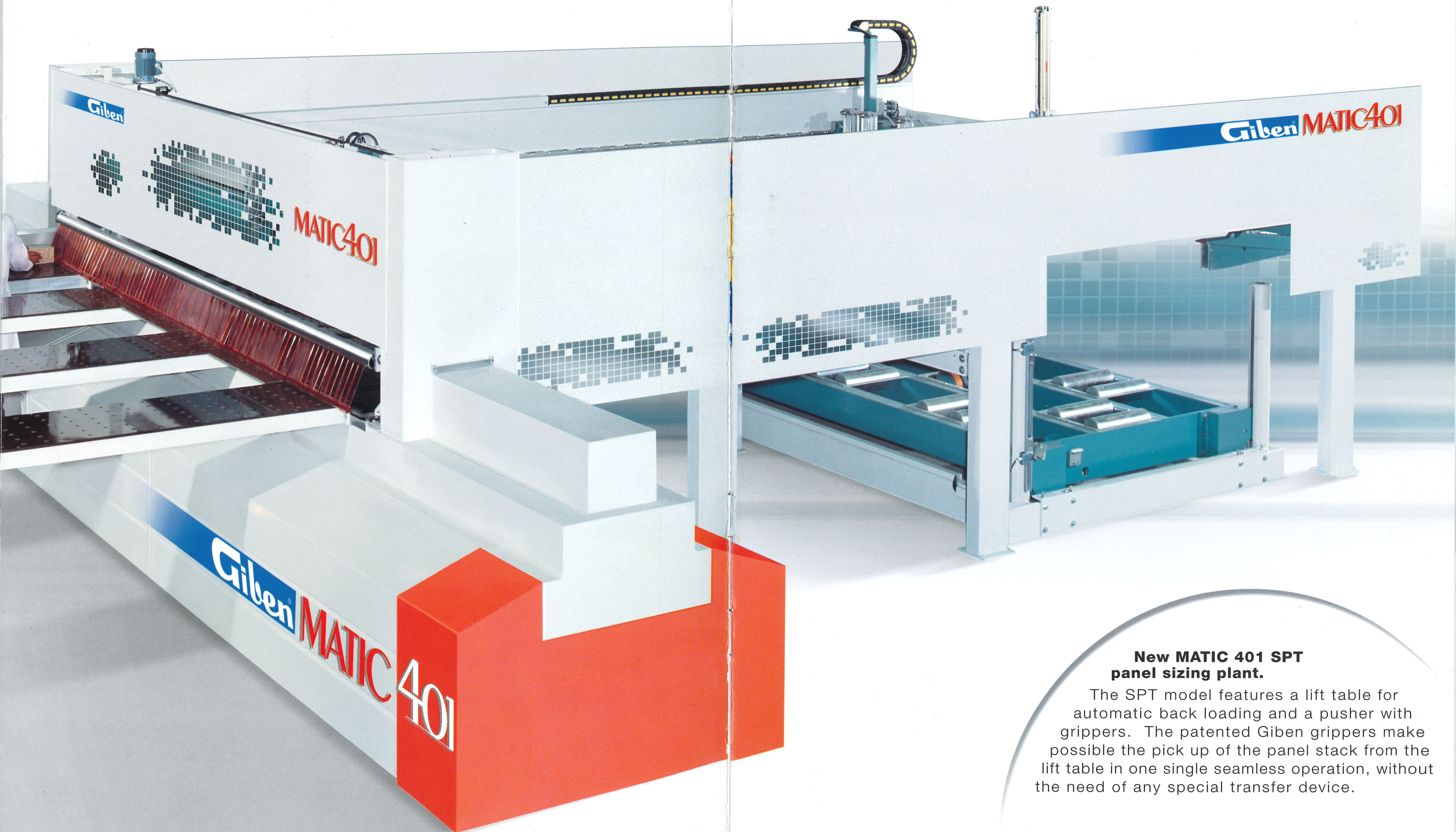
Having focused its efforts totally on panel sizing for more than five decades, Giben has accumulated an immense amount of knowledge and expertise. This enables the company to provide design and solutions which anticipate customer needs rather than simply responding to current demand. Today Giben is an industrial group strong of four manufacturing plants and nine distribution subsidiaries. Giben Impianti, 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.



The picture shows a  
**MATIC 401 SPT**  
**G-DRIVE 2D** with covers on  
pusher guides and pressure  
beams.



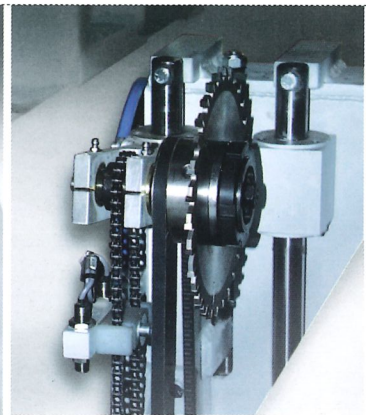
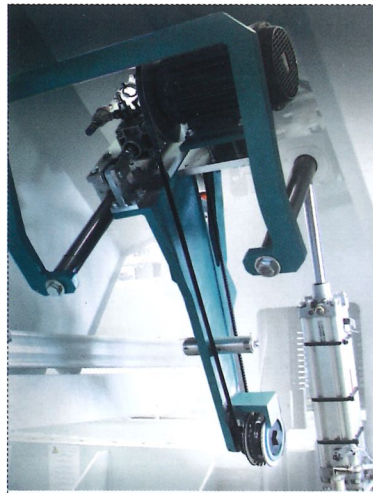




**New MATIC 401 SPT  
panel sizing plant.**

The SPT model features a lift table for automatic back loading and a pusher with grippers. The patented Giben grippers make possible the pick up of the panel stack from the lift table in one single seamless operation, without the need of any special transfer device.

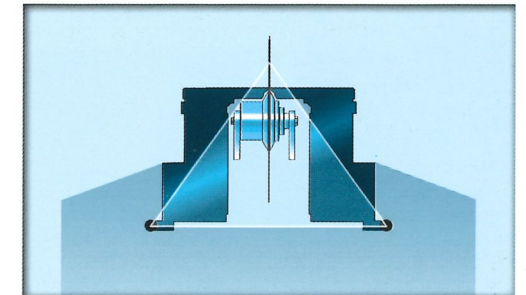




Electro-mechanical remote adjustment of the scoring blade. The blade can be incrementally adjusted, horizontally and vertically, directly from the control and with the blade running (optional).

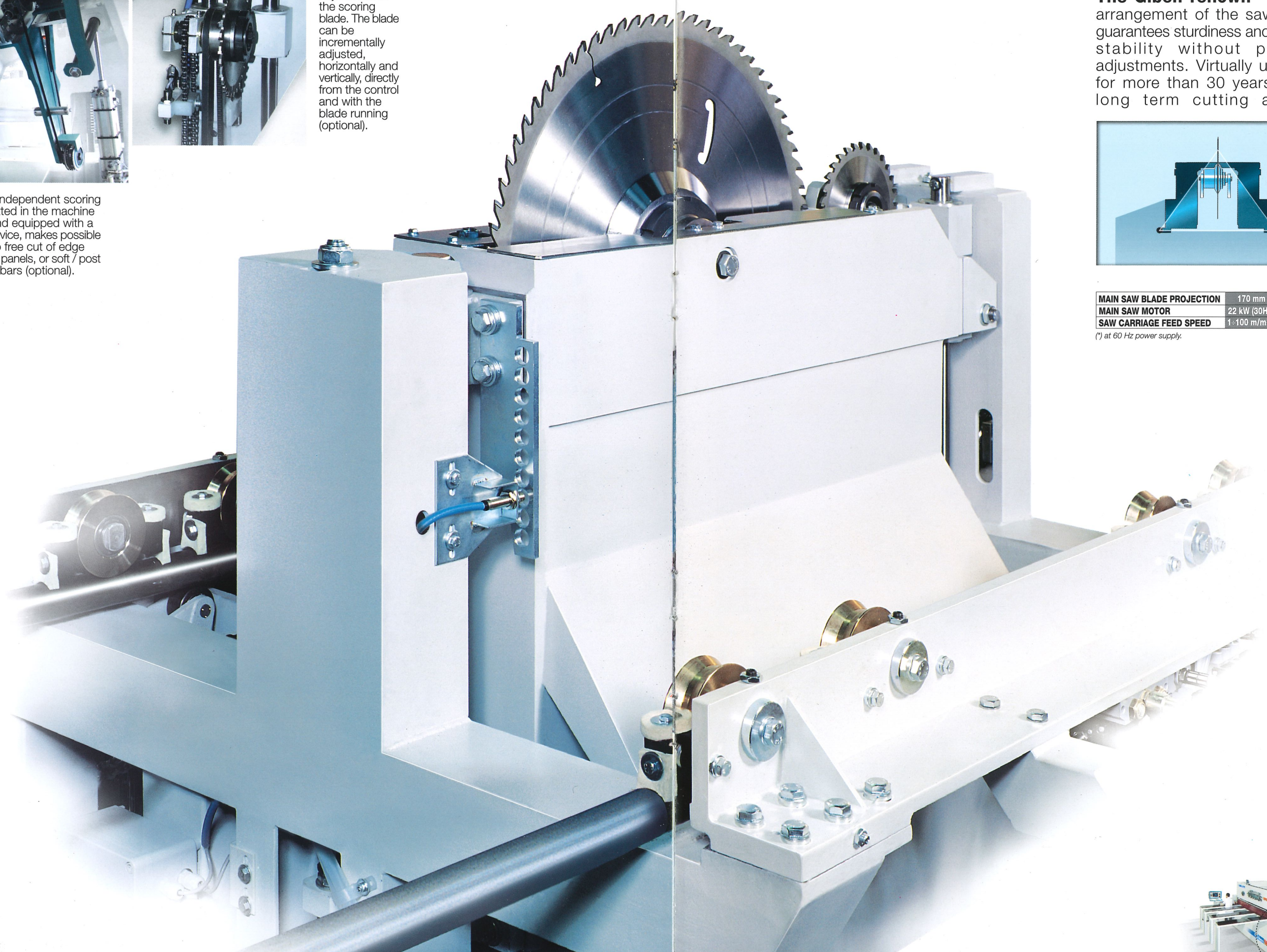
A third independent scoring blade fitted in the machine head and equipped with a copy device, makes possible the chip free cut of edge banded panels, or soft / post formed bars (optional).

**The Giben renown "triangle"** arrangement of the saw carriage guarantees sturdiness and maximum stability without periodical adjustments. Virtually unchanged for more than 30 years, delivers long term cutting accuracy.



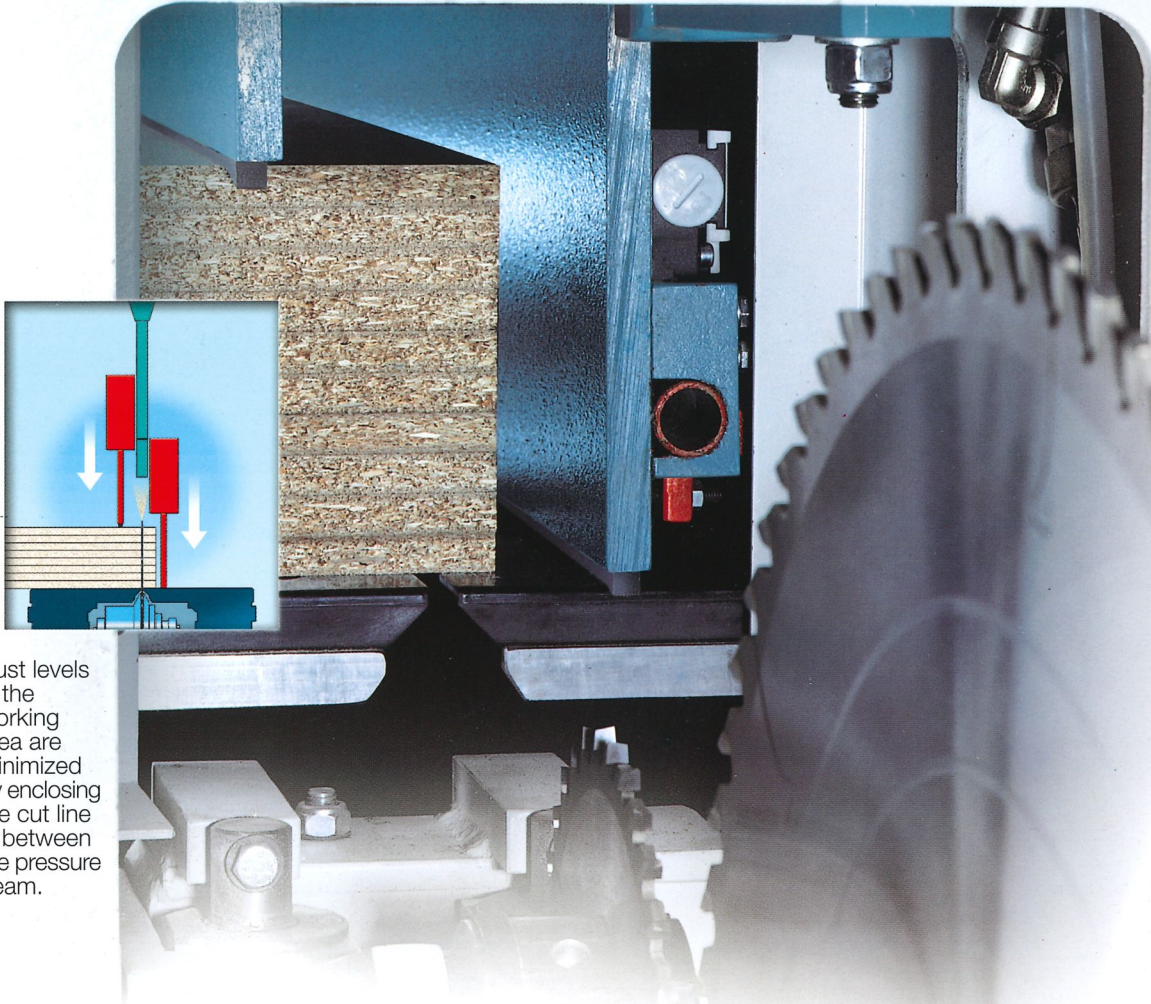
<b>MAIN SAW BLADE PROJECTION</b>	170 mm	6 11/16" (*)
<b>MAIN SAW MOTOR</b>	22 kW (30HP)	27 kW (36HP) (*)
<b>SAW CARRIAGE FEED SPEED</b>	1-100 m/min.	3-328 ft/min (*)

(\*) at 60 Hz power supply.

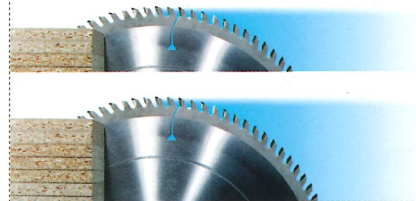




**Split independent pressure beam.** The unique Giben split pressure beam allows total stack control in every phase of the sizing, applies an even pressure along the cut line, and optimizes dust collection even while taking trim cuts.



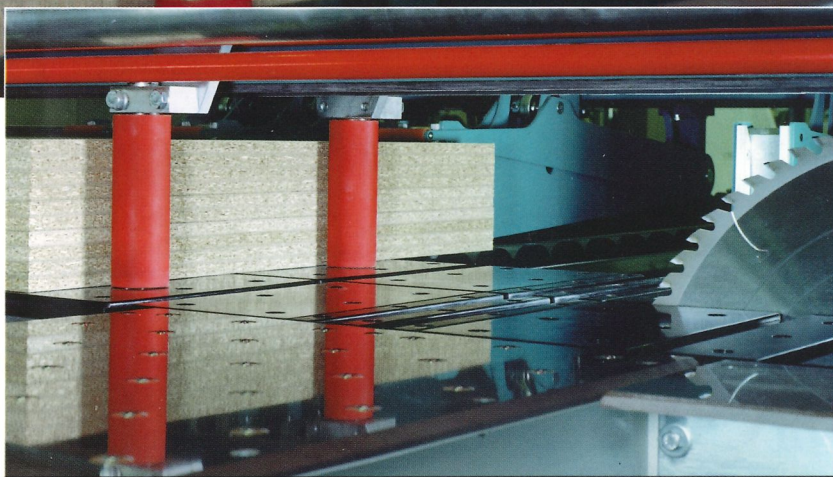
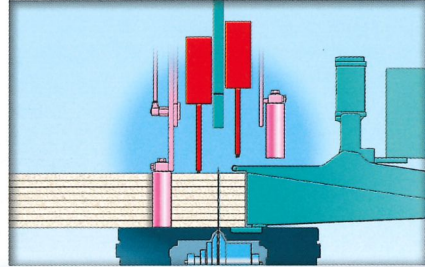
Dust levels in the working area are minimized by enclosing the cut line in between the pressure beam.



Electronic saw blade projection adjustment according to the stack height.



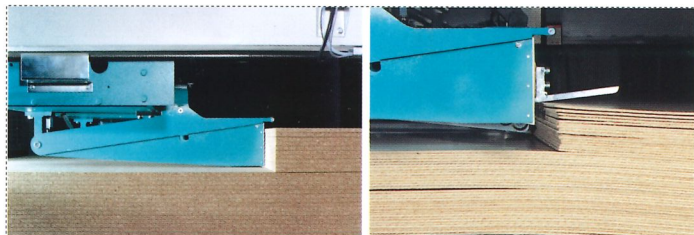
**Side aligning device with two independent and "disappearing" rollers.** The device constantly aligns the stack against the squaring fence, during forward and backward movements, and during the whole cross cutting cycle up to the last trim cut.



No mechanical limitation to the minimum trim size. The gripper pushing points can travel beyond the cut line and position the stack for a "dust cut" if needed.







Upon request, a special device is available for the infeed of thin and wavy sheet stock.

The grippers of Matic 401 SPT feature retractable lower clamps that allow fast and simple infeed from the lift table without the need of additional devices.

**Perfect rising and lowering movements,** even with off-centered loads. Thanks to four synchronized screw jacks the lift table moves perfectly parallel to the pusher table.

**Side or back loading.** The lift table is equipped with roller modules that can be rotated 90 degrees.

**Power feeding** of the pile of panels (optional).

**Lift table.**

High precision lift table uses synchronized screw jacks for the accurate infeed of the panels' stack.

**Electronically controlled pusher,**

runs on overhead side guides and positions the stack with the highest degree of accuracy thanks to its direct reading encoder system. The grippers on the pusher beam, equipped with retractable lower clamps, maintain firm control of the stack during the entire sizing cycle, up to the last trim cut.



**Front alignment.**

Pneumatically actuated front aligners spring forward to perfectly dress the stack before the rip cutting cycle begins.





**The G-Drive control works within a multitasking environment and it runs on a standard PC.**

G-Drive's innovative feature is that the PC is not simply used as the operator's interface for the programming and the display of cutting patterns, alarm signals, and diagnostics. G-Drive is indeed the direct control in real time of all the complex machine functions. The PLC acts as a tool, merely executing the instructions of G-Drive. The advantages are many: maximum automation, easy programming, short cycle times, simulation, troubleshooting, PC networking, with downloading of jobs, cutting patterns, and even machine instructions from the Giben optimizing software

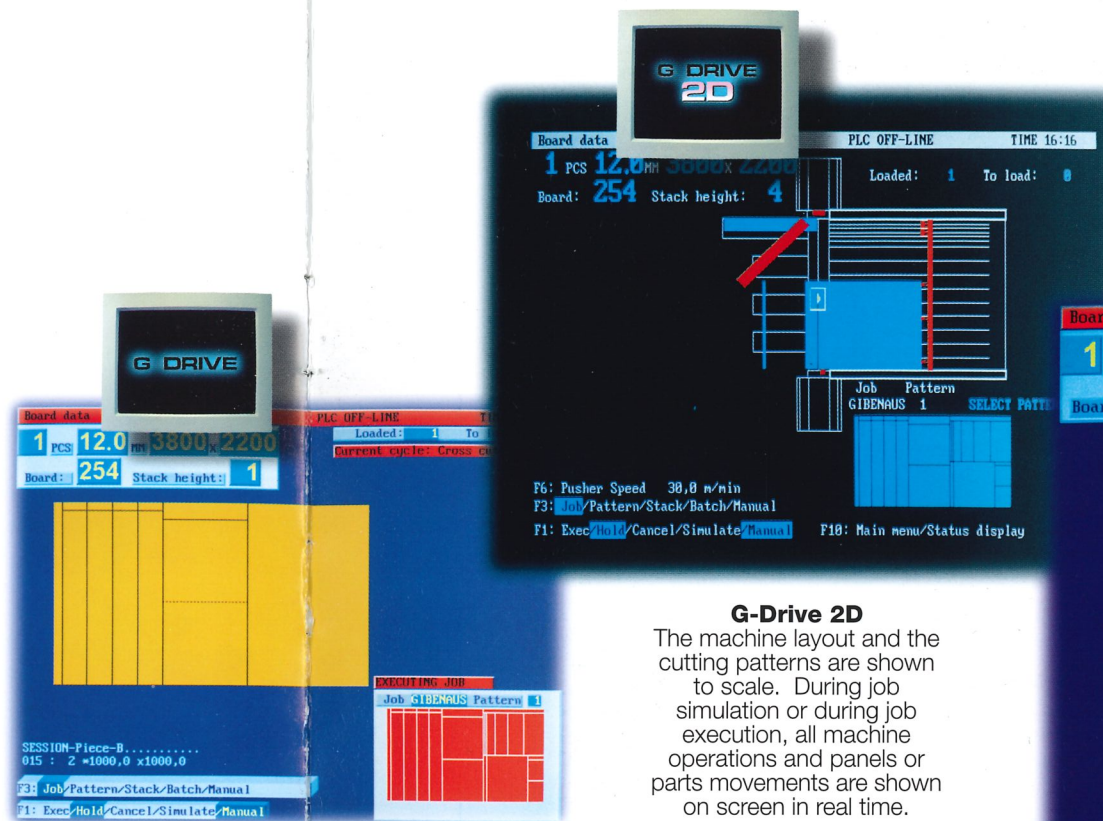
Optisave, or from other well known panel processing software.



Accessible control panel. The monitor and the keyboard are mounted on a swiveling arm at the left of the machine for maximum accessibility.



The cycle START and STOP commands can be sent via remote control (optional).



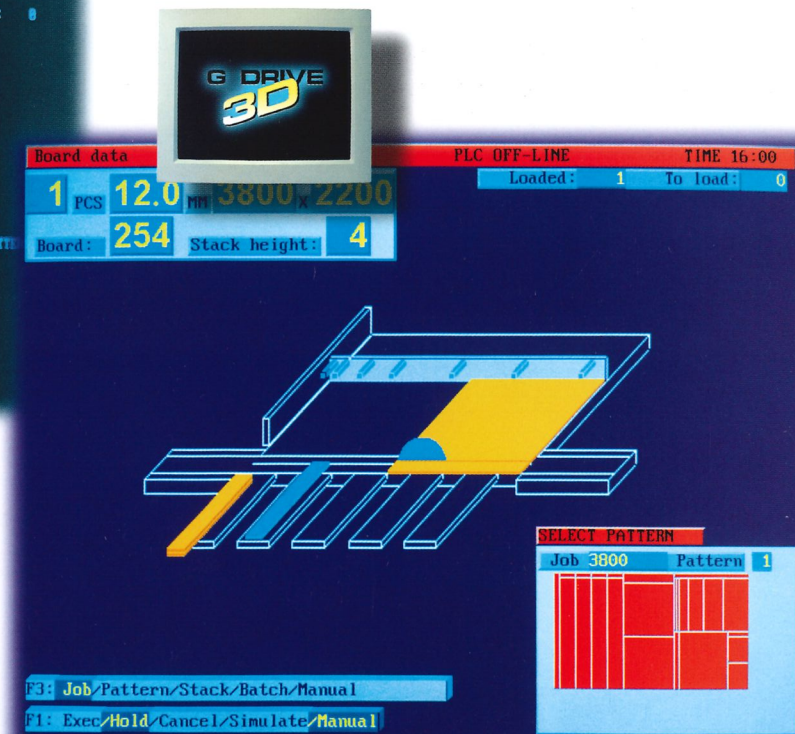
**G-Drive 2D**

The machine layout and the cutting patterns are shown to scale. During job simulation or during job execution, all machine operations and panels or parts movements are shown on screen in real time.

**G-Drive**

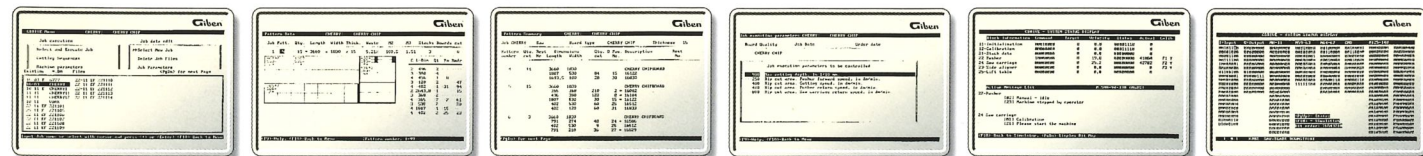
Cutting patterns are shown to scale with the parts being cut highlighted.

**R.T.G.**  
The unique real time graphics (R.T.G.) of Giben.



**G-Drive 3D**

It offers a three dimensional visualization of the machine on the display that uses an isometric representation of the machine parts and its movements, as well as of the stack and the parts being cut. All movements are in real time and can also be simulated.



Job's library.

Patterns shown to scale.

Pattern by pattern summary.

Entering of user defined parameters.

Clear text diagnostics in run time.

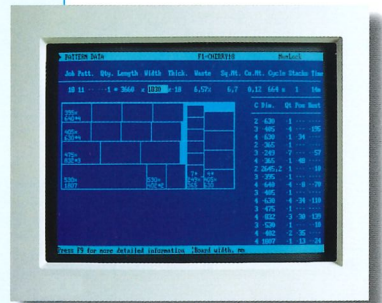
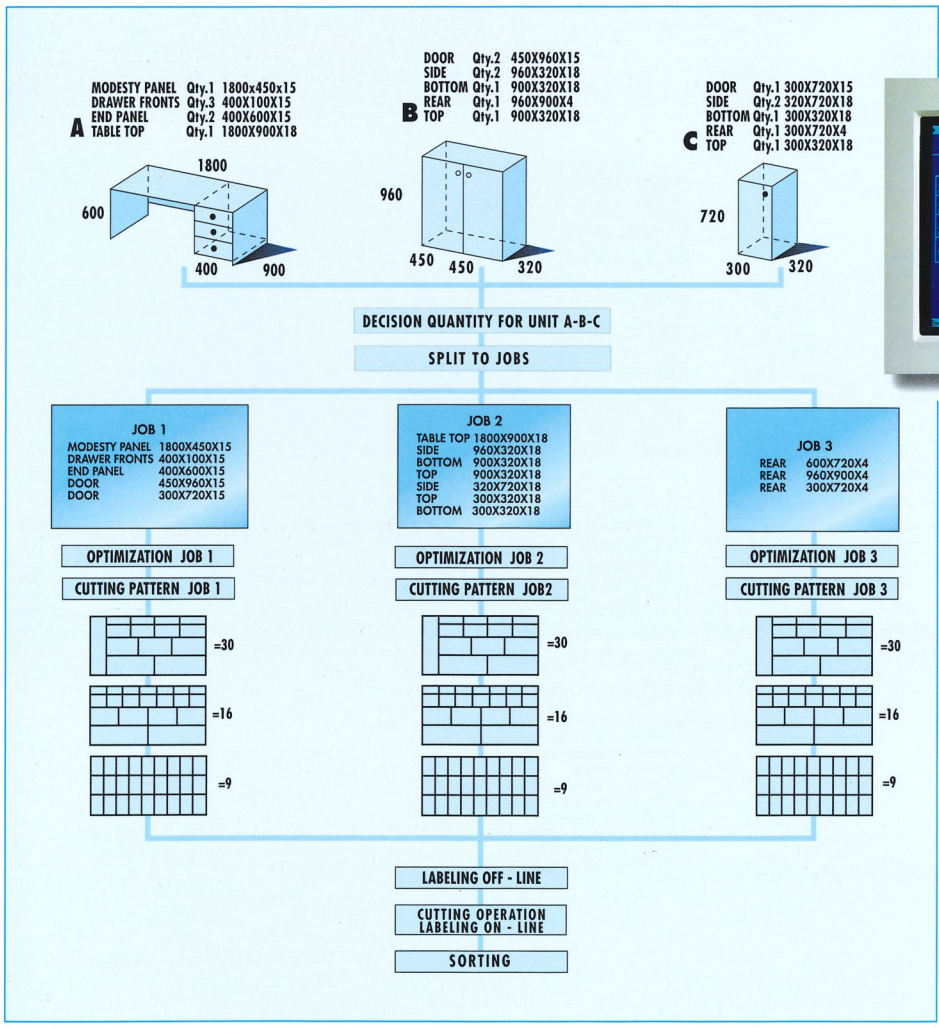
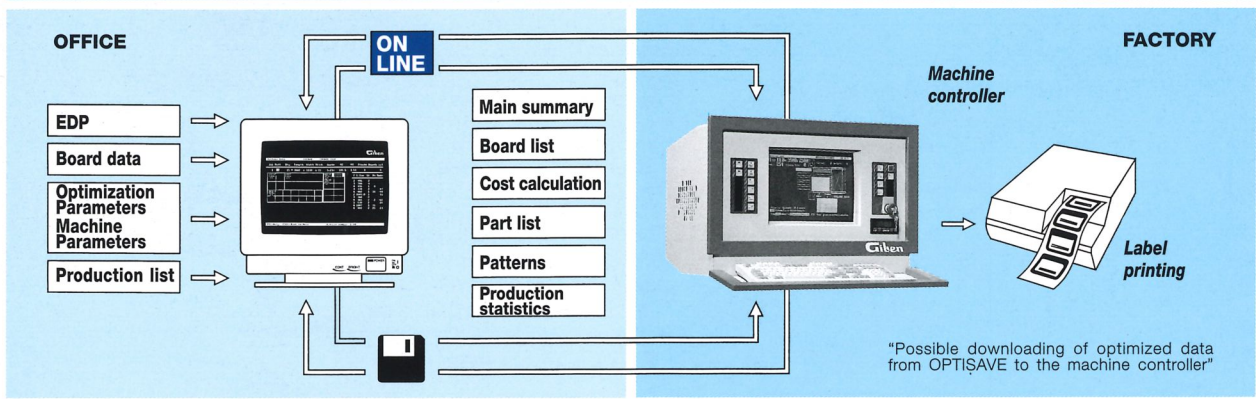
Input/Output device status.





# OPTISAVE

**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.

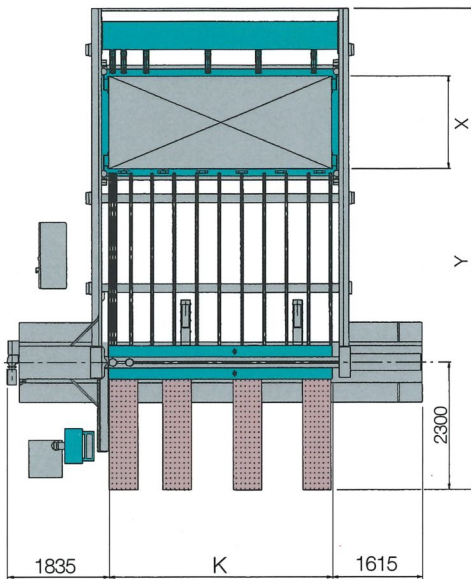


Optional on-line label printing.



# MATIC401

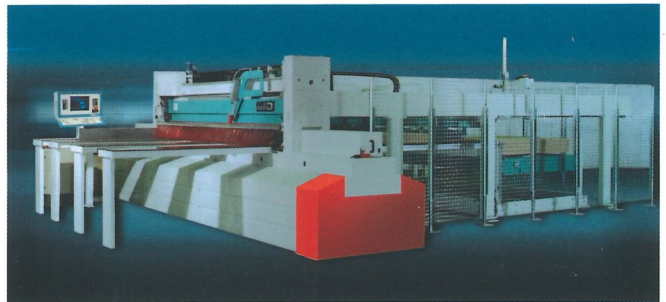
## Giben®



	K	X	Y
4000		1600	8685
		2200	9285
4500		1600	8685
		2200	9285

Technical specifications	MATIC 401	
	50 Hz	60 Hz
Saw projection	170 mm	"6 11/16"
Saw carriage traverse		
● feed speed	1÷100 m/min	3÷328 ft/min
● return speed	100 m/min	328 ft/min
Main saw	565 mm dia	22.2" dia
● motor	22 kW	27 kW
Scoring saw	180 mm dia	7" dia
● motor	1.5kW	1.8 kW
Pusher speed		
● fast feed (*)	1÷60 m/min	3÷197 ft/min
● return (*)	60 m/min	197 ft/min
Dust extraction		
● air speed	30÷35 m/sec	98÷115 ft/sec
● dust extraction outlets	250 mm dia 140 mm dia	9.8" dia 5.5" dia
Compressed air		
● pressure	73÷88 psi	73÷88 psi
● consumption	0.7÷1.0 CFM	0.7÷1.0 CFM

(\*) The pusher speeds shown above are those achieved during test running the machine. Actual speeds can vary from Country to Country in compliance with local safety standards.



**MATIC** 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.



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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