



gabbiani p

Automatic single-blade beam saws

Strictly reserved to the sales network of SCM

April 2023

THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA



Maestro active cut

A revolutionary approach to interact with your machine

Integrated help and recovery procedures that reduce the possibility of error from the operator's side.

• **SMART**

The creation of customizable reports by operator, shift, program (and much more) allows to improve the production performance.

• **CUSTOMIZABLE**

Maestro active allows to record the times related to setup, maintenance, training and other events, tracing all the activities in a database.

• **TROUBLE-SHOOTING**

It allows to create different users with different roles and to define the work shifts on the machine and then detect activities and productivity

• **PLANNING**

Graphics have been redesigned for simple and comfortable navigation

• **EASY TO USE**

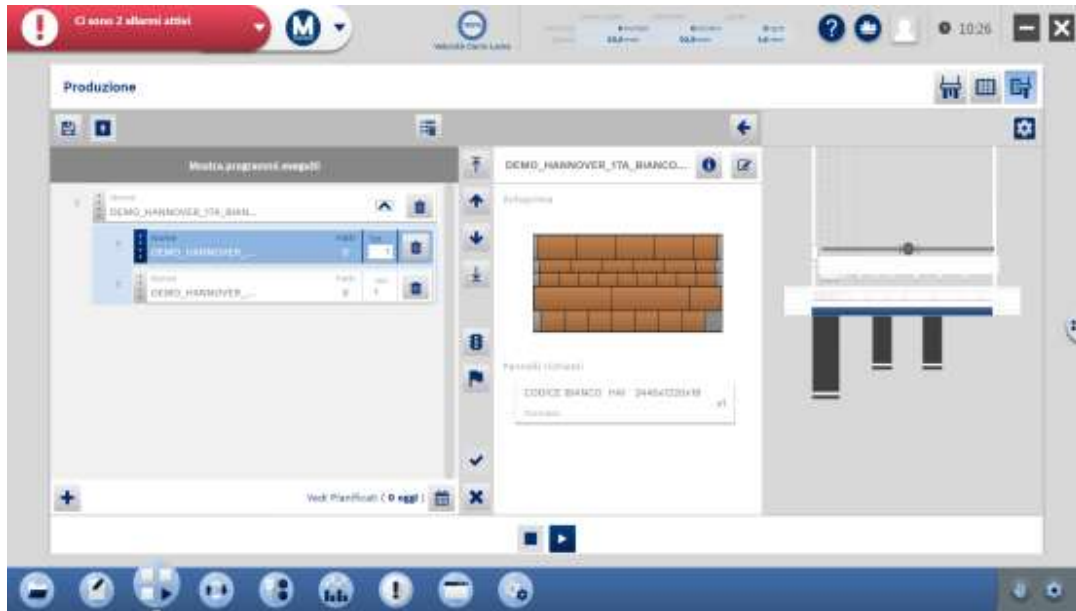


New console:
simple and elegant design
16/9 21" touch screen

SUPPLEMENTARY MODULES TO INCREASE THE MAESTRO ACTIVE CUT POWER:



Maestro cut editor



Labels printing software

Cutting schemes graphic editor

Panels editor

Cutting editor for grained panels (flame cut)

Editor for Macro machining operations

SUPPLEMENTARY MODULES TO INCREASE THE MAESTRO ACTIVE CUT POWER:



Maestro cut utility



Cuts editor for panels de-tensioning

Editor for cutting diagrams and trims modifications

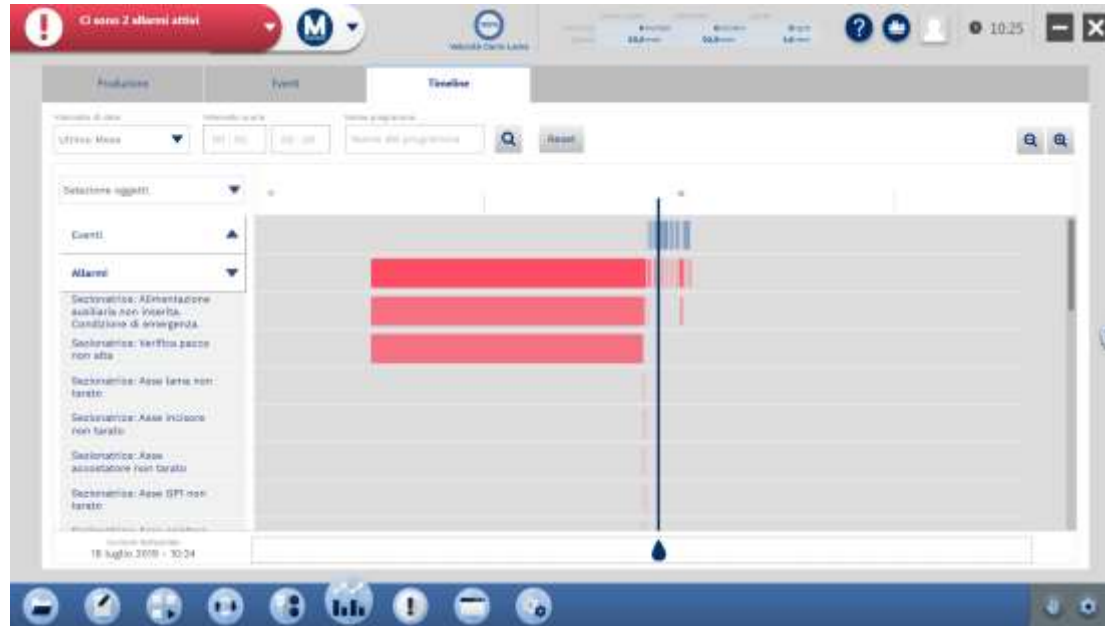
Automatic panels EDITOR (FILLER)

Off-cuts stock management

SUPPLEMENTARY MODULES TO INCREASE THE MAESTRO ACTIVE CUT POWER:



Maestro cut manager



Simulator for cycle time calculation (It includes the instantaneous simulation in 2D mode)

Priority-based and date-based scheduling of the order

Advanced report



Maestro pattern

Optimisation program installed on the machine

Simple and efficient creation of optimized cutting programs



Fast configuration of a simplified number of parameters



Off-cuts reduction due to the creation of an overproduction for each element



Off-cuts stock creation with the most used parts

Maestro optiwise



Maestro
optiwise

The best sizing formula

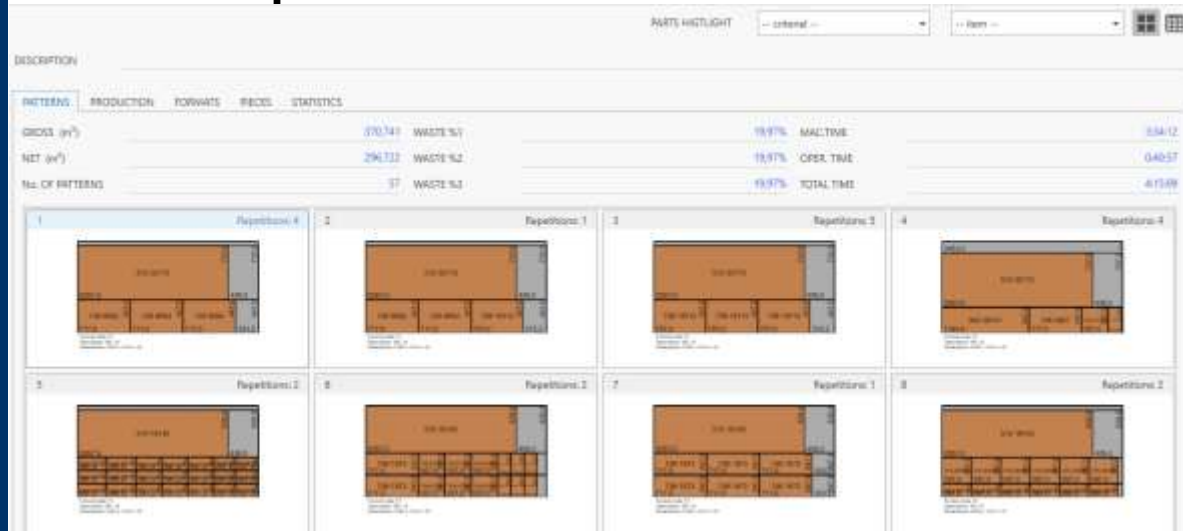


NEW SOFTWARE

NEW ALGORITHM

- **BEST RESULTS**
- **ACCURATE TIMING SIMULATION**
- **SHORT PROCESSING TIME**
- **SMART CONCEPT**
- **EASY TO USE**

Maestro optiwise



Maestro
optiwise

The best sizing formula



Labels with integrated graphic editor

Editor to customize cutting patterns

Connection with the business management software

Custom reports

Dynamic machine connection

Material, pieces and edges stocks management

Grained panels management

Orders and Multi-orders

Preventive calculation of costs and machining time

Excel integrated



Maestro
optiwise

The best sizing formula



Maestro
optiwise

The best sizing formula





Maestro converter cut

EasyCut Plus Rel. 2.00 - Lista Pannelli.xls

File Modifica Visualizza Inserisci Formato Strumenti Dati Finestra Traduzione

A2 Disegno

1 Pianificazione lavori settimanali

2 Disegno

	A	B	C	D	E	F	G	H	I	J	K	
		Codice	Descrizione	Length	Largh.	Spess.	Colore	5 GG.	IGR.	Nota	Boyd	Loop
3		3844112BB	ANTA SOF 364X448X18 BIANCO	364	448	18	18BB	180	36	0	PVCM034G	
4		3844113BB	ANTA SOFT 364X598X18 BIANCO	364	598	18	18BB	180	36	0	ABSM022	
5		3844122BB	ANTA SOFT 732X448X18 BIANCO	732	448	18	18BB	175	35	0	SFTM048	
6		3844123BB	ANTA SOFT 732X598X18 BIANCO	732	598	18	18BB	190	38	0	PVCM034G	
7		3844132BB	ANTA SOFT 1100X448X18 BIANCO	1100	448	18	18BB	60	12	0	ABSM022	
8		3844133BB	ANTA SOFT 1100X598X18 BIANCO	1100	598	18	18BB	10	2	0	SFTM048	
9		3844142BB	ANTA SOFT 1468X448X18 BIANCO	1468	448	18	18BB	85	17	0	PVCM034G	
10		3844143BB	ANTA SOFT 1468X598X18 BIANCO	1468	598	18	18BB	35	7	0	ABSM022	
11		3844152BB	ANTA SOFT 1836X448X18 BIANCO	1836	448	18	18BB	50	10	0	SFTM048	
12		3844153BB	ANTA SOFT 1836X598X18 BIANCO	1836	598	18	18BB	30	6	0	PVCM034G	
13		3844162BB	ANTA SOFT 2204X448X18 BIANCO	2204	448	18	18BB	50	10	0	ABSM022	
14		3844163BB	ANTA SOFT 2204X598X18 BIANCO	2204	598	18	18BB	25	5	0	SFTM048	
15		3844172BB	ANTA SOFT 2572X448X18 BIANCO	2572	448	18	18BB	60	12	0	PVCM034G	
16		3844173BB	ANTA SOFT 2572X598X18 BIANCO	2572	598	18	18BB	25	5	0	ABSM022	
17		3844472BB	ANTA ANG 2572X463X18 BIANCO	2572	463	18	18BB	50	2	0	SFTM048	
18		3844672BB	ANTA SOFT 2572X463X18 BIANCO	2572	463	18	18BB	5	1	0	PVCM034G	
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20		3844123BP	ANTA SOFT 364X448X18 BLU	364	448	18	18BP	50	2	0	SFTM048	
21		3844123BP	ANTA SOFT 364X448X18 BPFG	364	448	18	18BP	100	20	0	PVCM034G	
22		3844133BP	ANTA SOFT 364X598X18 BLU	364	598	18	18BP	100	20	0	ABSM022	
23		3844123BP	ANTA SOFT 732X448X18 BLU	732	448	18	18BP	60	12	0	SFTM048	
24		3844123BP	ANTA SOFT 732X448X18 BPFG	732	448	18	18BP	60	12	0	PVCM034G	
25		3844123BPN	ANTA SOFT 732X448X18 BPINC	732	448	18	18BP	20	4	0	ABSM022	
26		3844123BPN	ANTA SOFT 732X598X18 BPINC	732	598	18	18BP	5	1	0	SFTM048	
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30		3844123BPF	ANTA SOFT 1100X598X18 BPFG	1100	598	18	18BP	50	2	0	PVCM034G	
31		3844123BPN	ANTA SOFT 1100X598X18 BPINC	1100	598	18	18BP	50	2	0	ABSM022	
32		3844173BB	ANTA SOFT 1468X448X18 BIA	1468	448	18	18BB	18	3	0	SFTM048	

Lista pannelli

GENERIC SOFTWARE
OPTIMISER



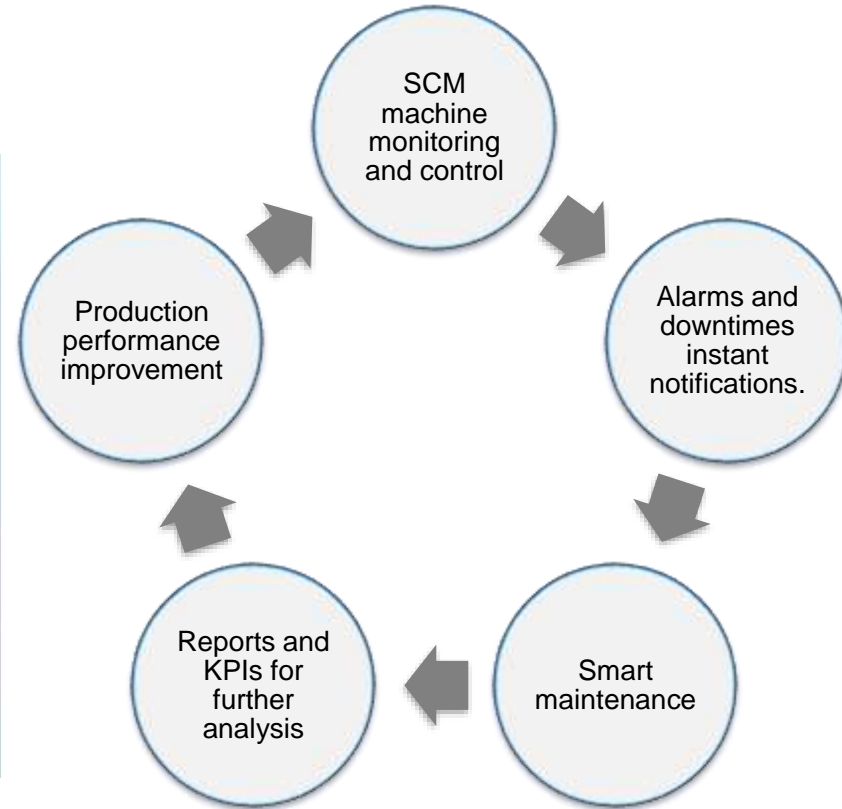
EXPORT OF THE RESULTS IN
PTX (minimum release 1.14)



CONVERSION PTX → SCM
MACHINE LANGUAGE

Maestro converter cut is the module that allows to integrate any type of cutting optimization programs with SCM beam saws through PTX file (minimum release 1.14).

Maestro connect



Maestro connect





***gabbiani p** automatic single blade beam saw born to be at the forefront.
The unique entry level machine having all the features of a top range one.*

gabbiani p 60/80 – technical data

		gabbiani p 60	gabbiani p 80
Cutting length	mm	3200/3800/4300	
Cutting depth	mm	2100/3200/3800/4300	
Blade projection	mm	60	80
Variable saw carriage speed	m/min		
Variable pusher speed	m/min	70	
Saw blade motor (S6 -40%)	kW (hp)	7 (9)	7 (9 - 11)

gabbiani p 60/80 – general features

CUTTING AXIS

- The base is equipped with 2 openings for moving the cutting axis through the forklift and to ease the machine installation
- Alignment adjustment of the horizontal and vertical blades which are positioned close to the working area
- Integrated electric cabinet inside the cutting axis, cables do not need to be discontinued for the shipment

PRESSURE BEAM

- Steel structure with openings for the clamps passage
- Uniform pressure on panels and an optimum extraction of shavings and sawdust with the triple dust conveying system
- Driven by rack and pinion on both sides
- Pressure adjustment for clamps locking by manometer

SIDE ALIGNMENT DEVICE

- On/Off from control
- Minimum width 60 mm
- Maximum width equal to 1200 mm
- Alignment pressure can be set by manometer

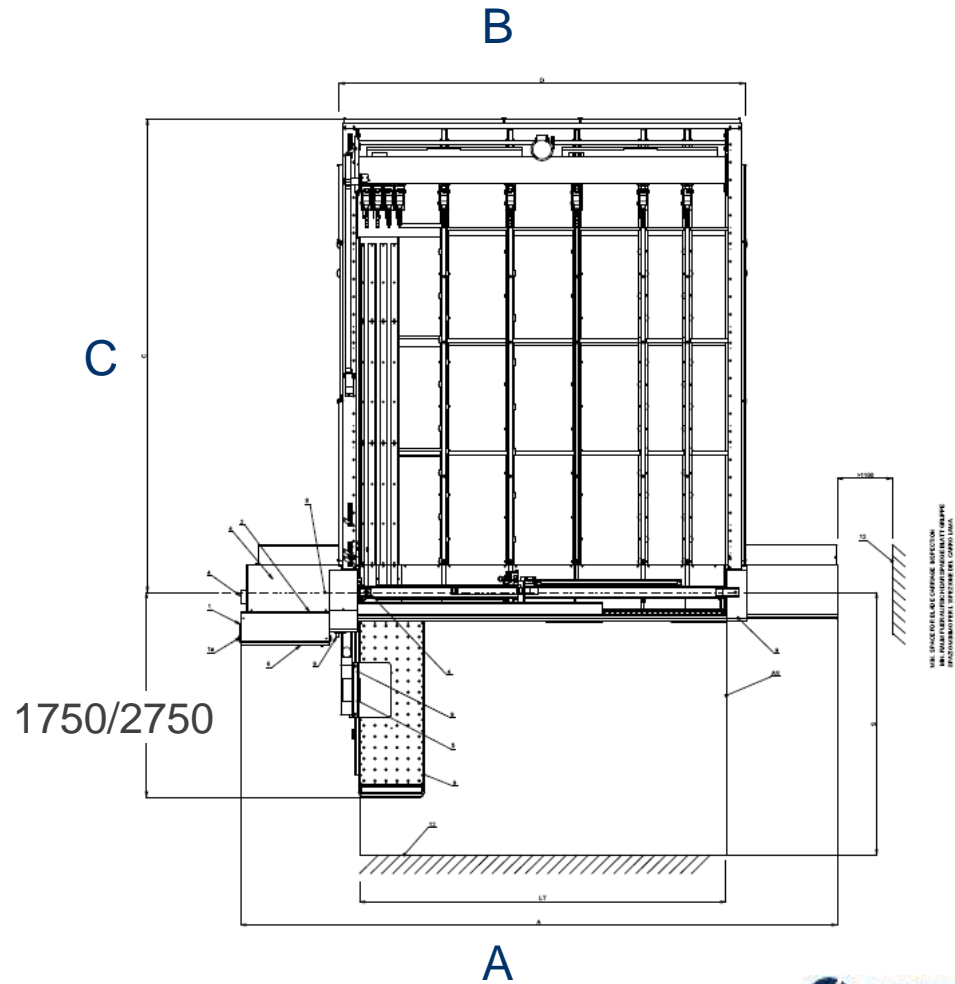
PUSHER

- Steel structure
- Movement with BRUSHLESS motor
- Floating and independent clamps
- Automatic exclusion of the pieces beyond the cutting axis



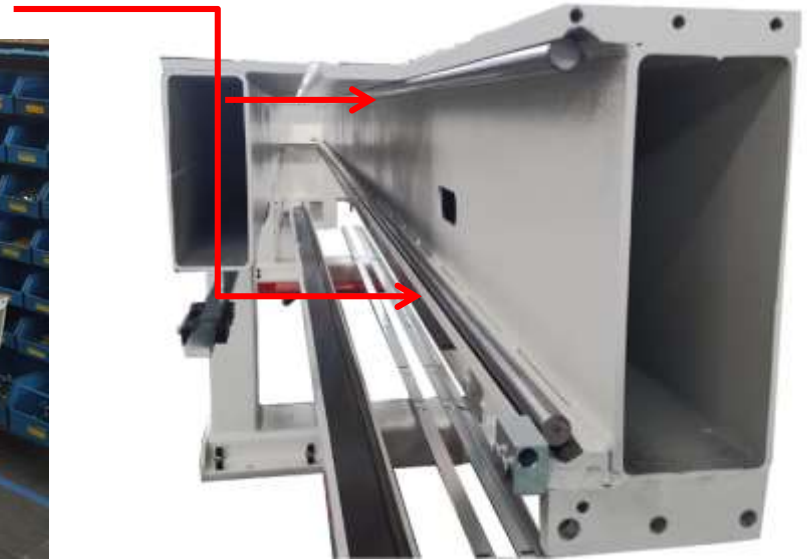
gabbiani p 60/80

Cutting dimensions	A	B	C
3300 x 2100	5663	3700	3200
3300 x 3200	5400	3700	4260
3800 x 3200	5900	4200	4260
3800 x 3800	5900	4200	4860
4300 x 3200	6400	4700	4260
4300 x 4300	6400	4700	5360



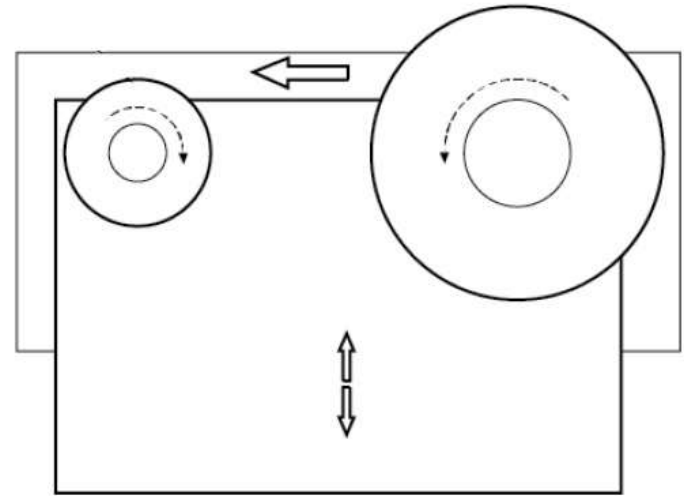
Base:

- Base with a reinforced ribbed steel structure with a “closed” ring shape → deformations are irrelevant even with high loads
- Saw carriage slides on cylindrical guides



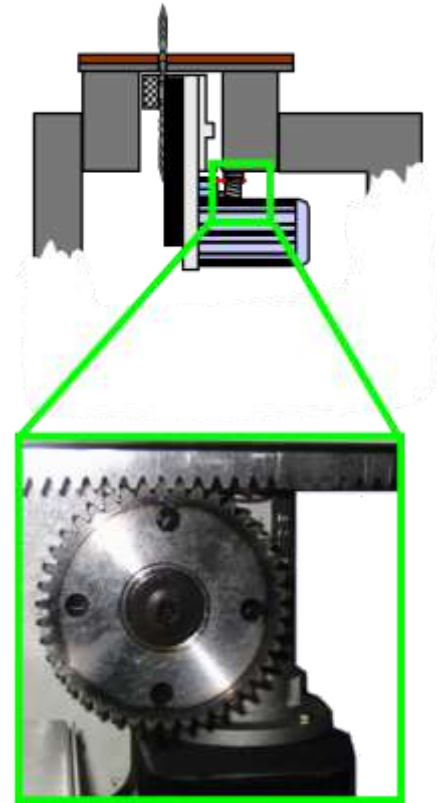
Saw carriage single plate:

- Sliding on linear guides with recirculating ball screws



Saw carriage feed speed driven by rack and pinion

- Fluid feed speed
- Continuous traction (there are no mechanical plays involved)
- No maintenance
- Highly-reliable system
- Excellent speed



Automatic side alignment device

- Precision on cross cuts due to the sliding on prismatic guideways



Slotted pressure beam

- This device dramatically reduces material wastes



The pusher speed is powered by brushless motor:

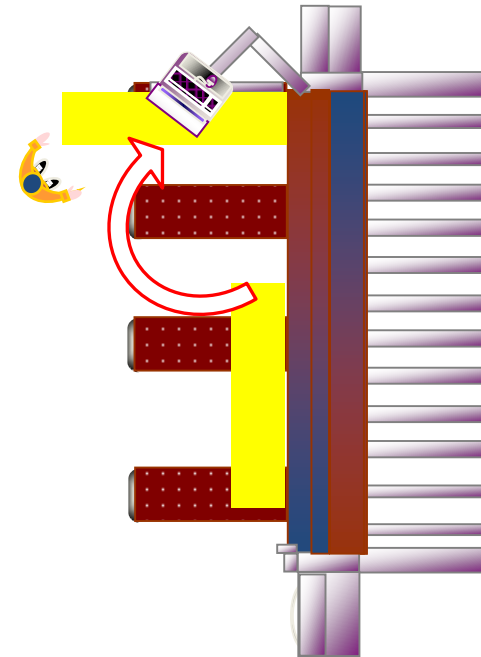
- Electronic control by PLC (accuracy of positioning)
- Maximum torque for every speed (constant torque)
- High acceleration
- No noise
- Long-life brushless motor
- Sliding on HEB beams, 120x120



Fixed air floating table with feeding rollers (1500 – 2500 – 3000 x 600/800 mm)

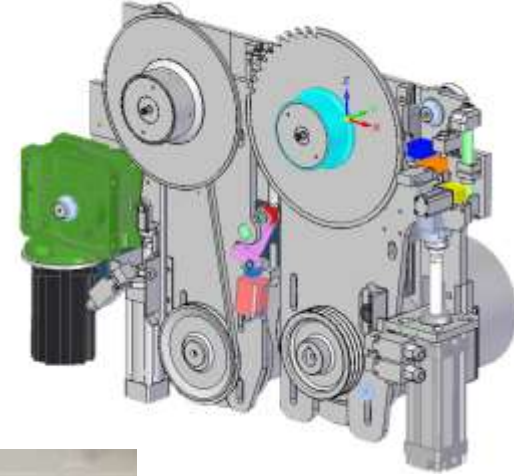
Mobile air floating table with feeding rollers (1500 – 2500 – 3000 x 600 mm)

- Optimal sliding in all working conditions due to the independent fans which ensure an always effective movement with panel stacks of every type and weight.
- Maximum protection against risks of friction



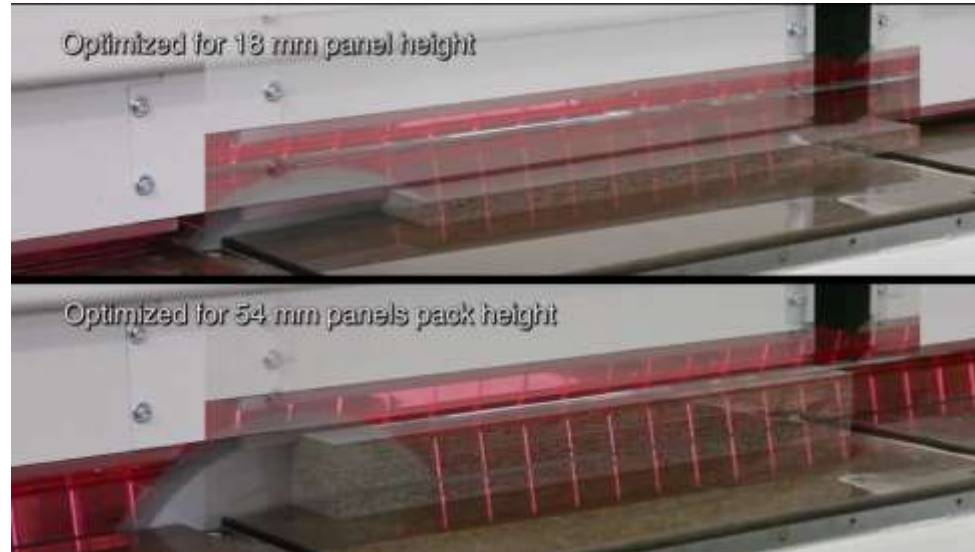
Saw carriage with independent rise of blades

- Sliding on linear guides with recirculation ball screws
- Compulsory for: post-formed panel sizing (**40 mm max height**), slots, grooves (**35 mm max height**).



Optimised main blade lifting on 2 levels (intermediate/maximum):

- Time optimization
- Costs reduction for tools maintenance
- Better finishing quality



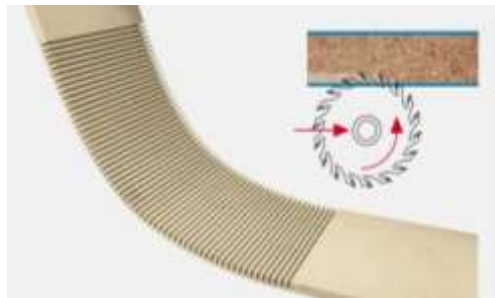
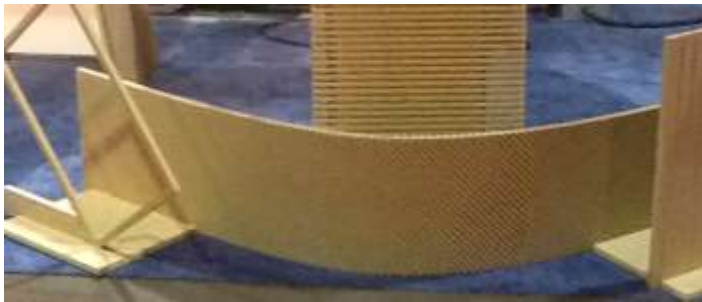
Optional device for advanced building materials

- Cooling and lubrication of main blade (air/oil mix)
- Reduction of friction during the cutting process
- Improving cuts finish quality



Multi grooves execution

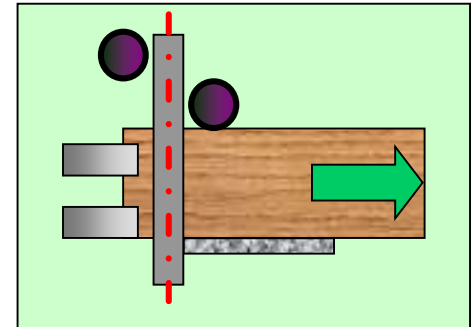
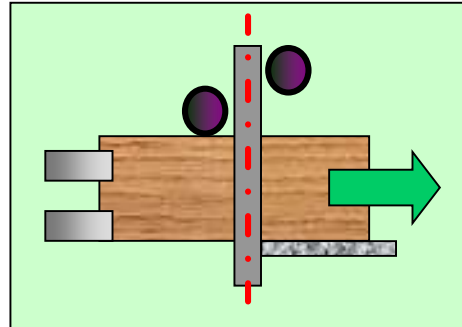
- The minimum groove width is the thickness of the main blade
- For more widths, saw carriage will execute several passes with the pusher up to the required width



Double automatic side alignment device

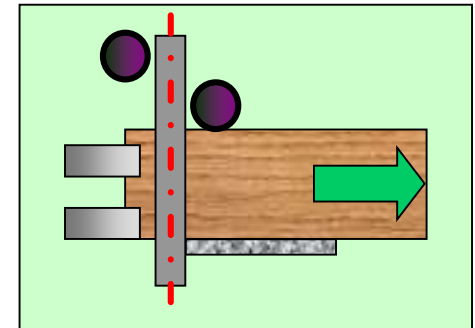
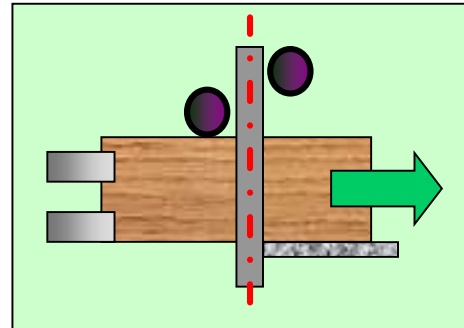
(width 60 - 1200 mm)

- The device slides on guides with recirculating ball screws
- The device is equipped with pneumatic cylinder
- Manual adjustment of the alignment pressure

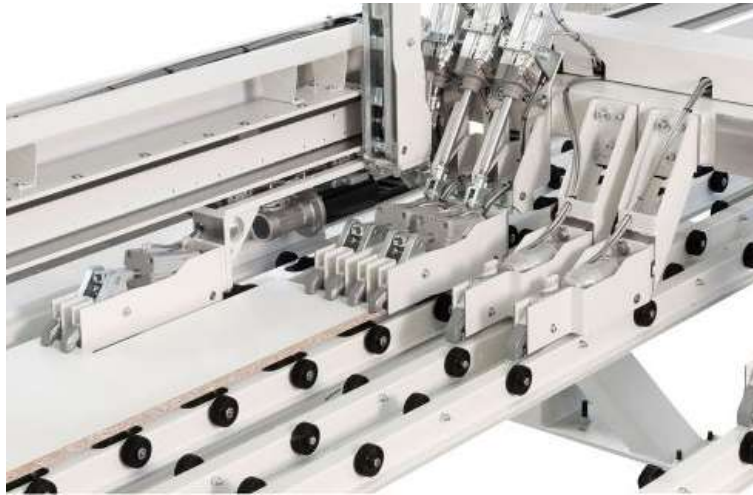


Double powered side alignment device (60-2200 mm width)

- The device slides on guides with recirculating ball screws
- The device is equipped with brushless motor driven by rack and pinion
- Total control of the alignment pression on the workpiece



FlexCut 1: single clamp unit 1/3

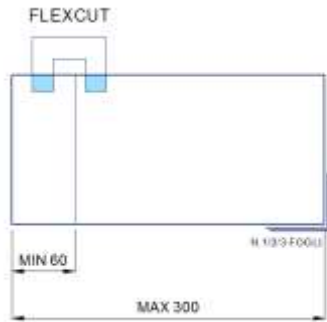


FlexCut 1: single clamp unit 2/3

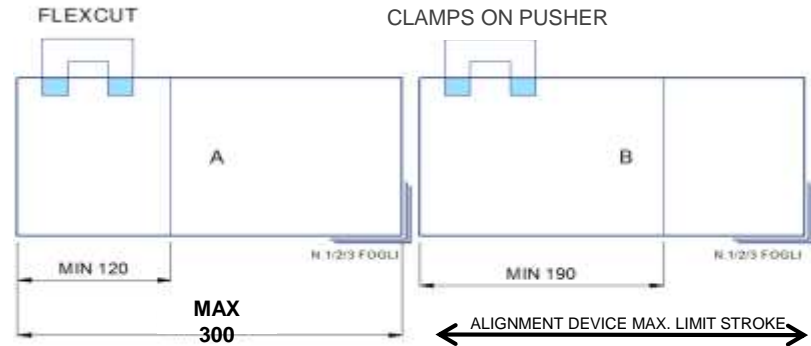
- Mobile unit independent from the main pusher:
 - ✓ 1 clamps with double fingers with independent stroke on the entire depth of the machine
 - ✓ 3 clamps with double finger with pneumatic exclusion
 - ✓ 4 std fixed clamps with single finger
- Sliding on prismatic guideways with recirculating ball screws under the shoulder
- Brushless motors for the positioning (100m/min return)
- **The powered double side-alignment device is compulsory**

FlexCut 1: single clamp unit 3/3

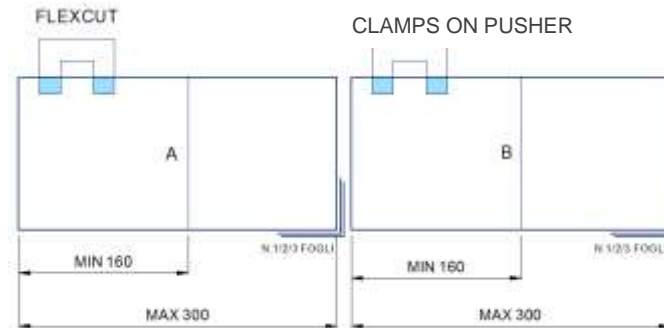
- Single panel



- Double panel A and B with different size



- Double panel A and B of the same size



Manual device for panel clamping with overhanging material:

- Selected manually by moving back the stop plate applied to the clamp when processing panels with overhanging material
- Thicknesses compatible with the application: 18-20-40-50
- Maximum stack: 1 panel



- **Rear table with wheels for delicate materials (flocked wheels)**



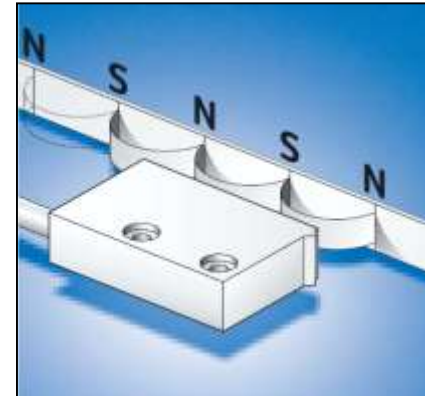
High Speed (brushless motor equips saw carriage)

- 70 m/min pusher speed
- 0-120 m/min saw carriage speed



Magnetic band (pusher positioning is controlled by a magnetic band and a magnetic sensor)

- The position reading is linear and direct, high accuracy (0,02 mm)
- Independent system and free from mechanical stress
- Improves the reliability and robustness of components

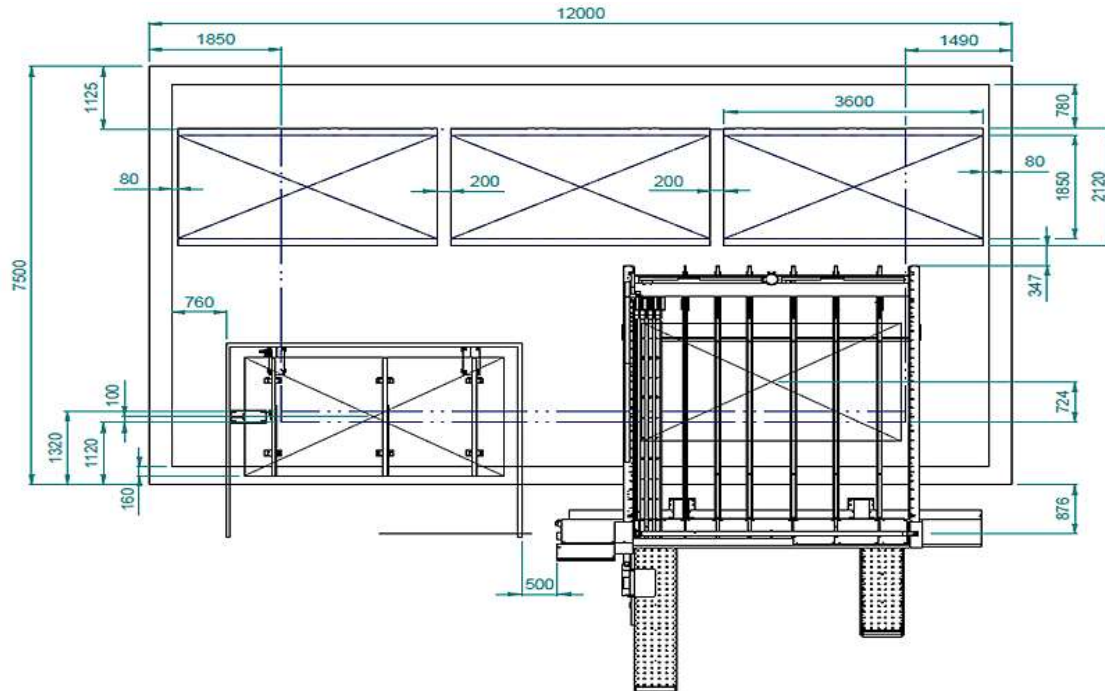


Integration with flexstore elr storage system for direct loading inside the beam saw

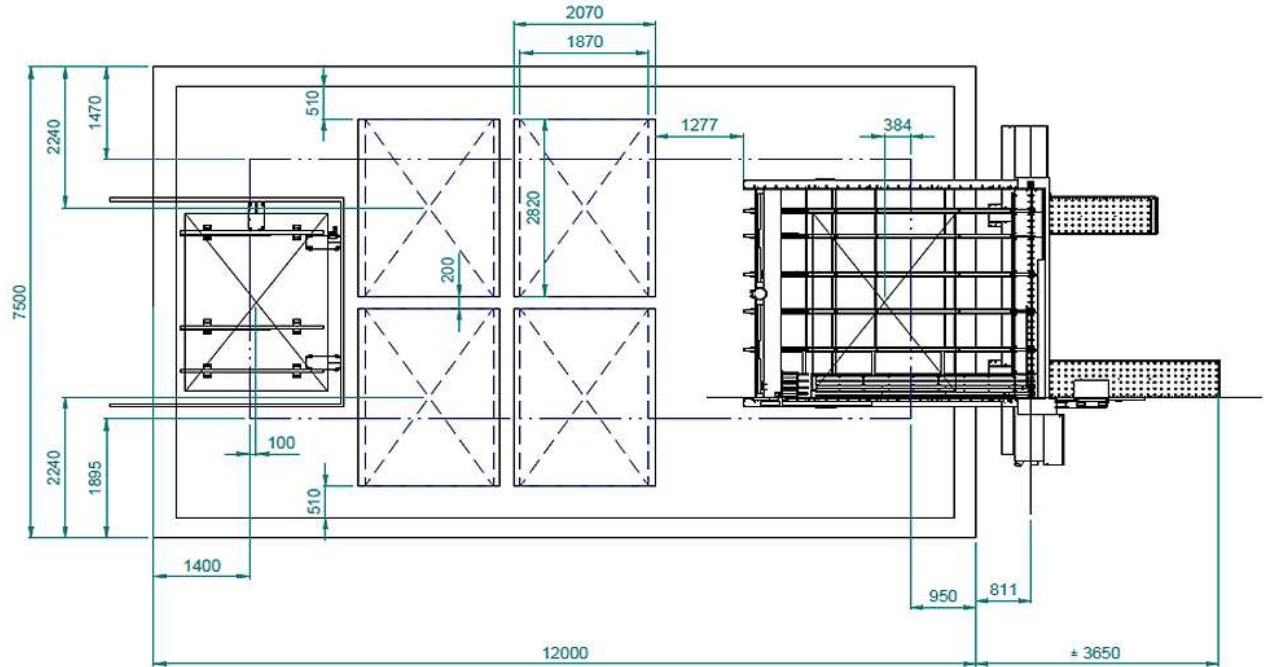
- Production increases when are required several changes of stacks and colours
- Storage space saving and production flow optimization
- Less operators
- Waste minimisation



- **Beam saw integrated into an automatic storage**



- Beam saw integrated into an automatic storage





**Thank you for
your kind attention**