



# Maestro Pattern

Easy and intuitive  
optimization cutting software

09/10/2017

THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA





**MAESTRO** PATTERN

# Maestro Pattern

## Programming

From a unique page is possible to get to the: configuration, raw material stock, cutting list and optimization program.

**Maestro Pattern**

WHITE19 - Color white Thickness 19,00

Code	Description	Length	Width	Offcut	Quantity	Availability
w01	Panel 376x166x1.9W	3.760,00	1.660,00	<input type="checkbox"/>	22	<input checked="" type="checkbox"/>
w02	Panel 280x140x1.9W	2.800,00	1.400,00	<input type="checkbox"/>	18	<input checked="" type="checkbox"/>
R00001	Off-Cut	2.800,00	512,00	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>
R00004	Off-Cut	1.281,60	671,40	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>
R00005	Off-Cut	920,40	576,60	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>

**Configuration**

Open  
Save  
Optimization  
Configuration  
Info  
Exit

**PartList**

Code	Description	Length	Width	Qu.	Vs	Gra	Edge 1	Edge 2	Edge 3	Edge 4
CAS4FSX	FIANCO SX CAS 800,00	560,00	4	0	<input type="checkbox"/>		NO22PV	NO22P	NO22PV	NO22PVC
CAS4FDX	FIANCO DX CAS 800,00	560,00	4	0	<input type="checkbox"/>		NO22PV	NO22P	NO22PV	NO22PVC
CAS4CP	CAPPELLO CAS 564,00	560,00	4	0	<input type="checkbox"/>		NO22P		NO22PVC	
CAS4BS	BASE CASS. 4C 564,00	560,00	4	0	<input type="checkbox"/>			NO22P		NO22PVC
CAS4SCH	SCHIENALE CA 800,00	600,00	4	0	<input type="checkbox"/>					
CAS4FCSX	FIANCO SINISTI 542,00	138,75	16	0	<input type="checkbox"/>		WH14PV	WH14P	WH14PV	WH14PVC
CAS4FCDX	FIANCO DESTR 542,00	138,75	16	0	<input type="checkbox"/>		WH14PV	WH14P	WH14PV	WH14PVC
CAS4SCHC	SCHIENA CASS 538,00	138,75	16	0	<input type="checkbox"/>		WH14PV	WH14P	WH14PV	WH14PVC
CAS4FNC	FONDO CASSE 546,00	550,00	16	0	<input type="checkbox"/>					
CAS4FRC	FRONTALE CAS 598,00	198,75	16	0	<input type="checkbox"/>		NO22PV	NO22P	NO22PV	NO22PVC
ARM21FSX	FIANCO SX ARM 1.600,00	600,00	2	0	<input type="checkbox"/>		NO22PV	NO22P	NO22PV	NO22PVC
ARM21FDX	FIANCO DX ARM 1.600,00	600,00	2	0	<input type="checkbox"/>		NO22PV	NO22P	NO22PV	NO22PVC
ARM21CP	CAPPELLO ARM 1.164,00	600,00	2	0	<input type="checkbox"/>			NO22P		NO22PVC
ARM21BS	BASE ARMADIO 1.164,00	600,00	2	0	<input type="checkbox"/>			NO22P		NO22PVC
ARM21RP	RIPIANO ARMA 1.164,00	600,00	2	0	<input type="checkbox"/>			NO22P		NO22PVC
ARM2ANSX	ANTA SX ARMAI 1.500,00	597,00	2	0	<input type="checkbox"/>		VAN22P	VAN22I	VAN22P	VAN22PVC
ARM21ANDX	ANTA DX ARMAI 1.500,00	597,00	2	0	<input type="checkbox"/>		VAN22P	VAN22I	VAN22P	VAN22PVC
ARM21AFSC	FASCIA INF. ARI 1.164,00	100,00	4	0	<input type="checkbox"/>			NO22P		NO22PVC
ARM21SCH	SCHIENALE ARI 1.200,00	1.500,00	2	0	<input type="checkbox"/>					
ARM22FSX	FIANCO SX ARM 2.000,00	600,00	2	0	<input type="checkbox"/>		NO22PV	NO22P	NO22PV	NO22PVC
ARM22FDX	FIANCO DX ARM 2.000,00	600,00	2	0	<input type="checkbox"/>		NO22PV	NO22P	NO22PV	NO22PVC
ARM22CP	CAPPELLO ARM 1.164,00	600,00	2	0	<input type="checkbox"/>		NO22PV	NO22P	NO22PV	NO22PVC
ARM22BS	BASE ARMADIO 1.164,00	600,00	2	0	<input type="checkbox"/>		NO22PV	NO22P	NO22PV	NO22PVC
ARM22RP	RIPIANO ARMA 1.164,00	600,00	4	0	<input type="checkbox"/>			NO22P		NO22PVC
ARM22TR	TRAMEZZO ARI 1.164,00	600,00	1	0	<input type="checkbox"/>			NO22P		NO22PVC
ARM22ANDS	ANTA DX SUP A 947,00	547,00	1	0	<input type="checkbox"/>		NO22PV	NO22P	NO22PV	NO22PVC

**Optimization**

**Materials and off-cuts**

**Configuration**

**Cutting list**

Advantage: rapid access to the functions and maximum control

## Setting 1/3

Maestro Pattern configuration allows to choose 2 different types of format for saving data

Id	Description	Value
1	Language	English
2	Units	Millimeters
3	Kerf	4.40
4	Export type	Opt
5	Surplus Front	20,00
6	Surplus Back	0,00
7	Enable Z-Cut (3rd cut)	<input type="checkbox"/>
8	Head-Cut	<input checked="" type="checkbox"/>
9	Min Head-Cut Length	150,00
10	Material trim P	0,00
11	Head-Cut type	Either
12	Rotated head cut	<input checked="" type="checkbox"/>
13	First cut	Either
14	X-Cut Sorting	Increasing
15	Y-Cut Sorting	Increasing
16	Overproduction %	0
17	Minimum working width	0,00
18	Export path programs	.\xPrg ...

Saving format:


- OPT allows to dynamically change the trim cuts before executing the cutting scheme (when Maestro Cut Utility is installed)
- XPRG closed format with integrated optimization parameters (the user can't intervene in any way)


Advantage: fast and effective programming

## Setting 2/3

OPT format

Saved parameters  
in the order

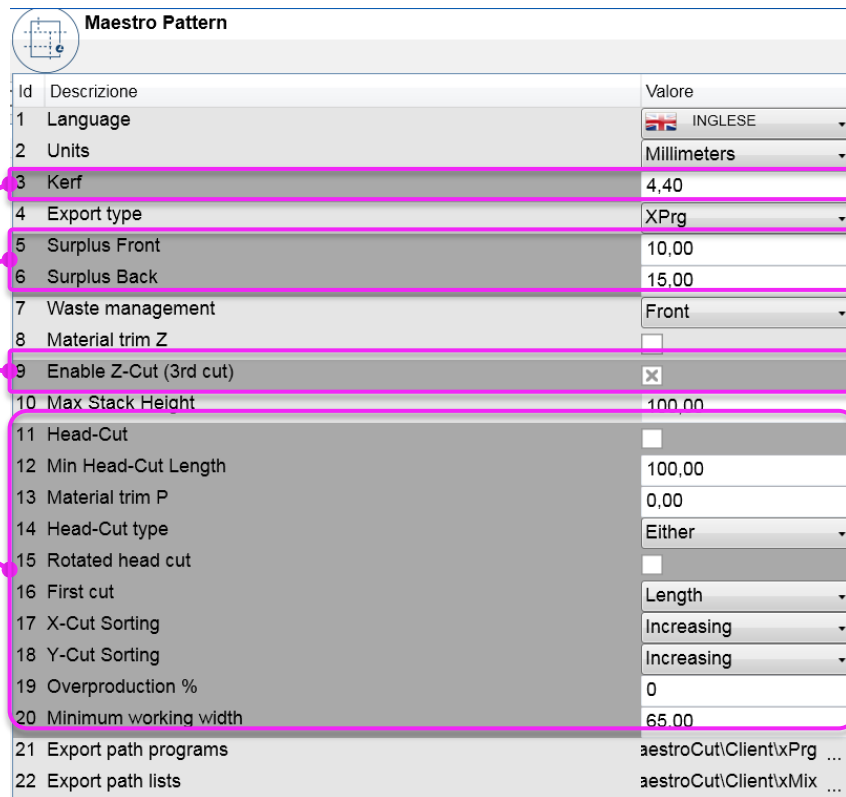
 **Maestro Pattern**

Id	Descrizione	Valore
1	Language	 INGLESE
2	Units	Millimeters
3	Kerf	4,40
4	Export type	Opt
5	Surplus Front	10,00
6	Surplus Back	15,00
7	Enable Z-Cut (3rd cut)	<input checked="" type="checkbox"/>
8	Head-Cut	<input type="checkbox"/>
9	Min Head-Cut Length	100,00
10	Material trim P	0,00
11	Head-Cut type	Either
12	Rotated head cut	<input type="checkbox"/>
13	First cut	Length
14	X-Cut Sorting	Increasing
15	Y-Cut Sorting	Increasing
16	Overproduction %	0
17	Minimum working width	65,00
18	Export path programs	aestroCut\Client\xPrg ...

## Setting 3/3

xPrg format (preferred for bars cutting)

Saved parameters  
in the order



The image shows a screenshot of the 'Maestro Pattern' settings window. A magnifying glass graphic is drawn over the settings, highlighting parameters 3 through 20. The settings are as follows:

Id	Descrizione	Valore
1	Language	INGLESE
2	Units	Millimeters
3	Kerf	4,40
4	Export type	XPrg
5	Surplus Front	10,00
6	Surplus Back	15,00
7	Waste management	Front
8	Material trim Z	<input type="checkbox"/>
9	Enable Z-Cut (3rd cut)	<input checked="" type="checkbox"/>
10	Max Stack Height	100,00
11	Head-Cut	<input type="checkbox"/>
12	Min Head-Cut Length	100,00
13	Material trim P	0,00
14	Head-Cut type	Either
15	Rotated head cut	<input type="checkbox"/>
16	First cut	Length
17	X-Cut Sorting	Increasing
18	Y-Cut Sorting	Increasing
19	Overproduction %	0
20	Minimum working width	65,00
21	Export path programs	aestroCut\Client\XPrg ...
22	Export path lists	aestroCut\Client\XMix ...

## Programming of materials

Maestro Pattern allows to create and to import from Maestro Cut up to 5 materials types, optimizing on 2 formats maximum for each type and for all the off-cuts available always for the same type

The screenshot displays the Maestro Pattern software interface. At the top, a header bar shows 'Maestro Pattern' and a 'PartList' button. Below this, a table lists materials and off-cuts. A red box highlights the 'WHITE19' material and its off-cuts, with a red arrow pointing to the 'Import Types' dialog box. The 'Import Types' dialog box shows a list of materials and off-cuts available for import, including 'AWANAGANA', 'CARTONE10', 'CARTONE18', 'GOLD', 'GRIGIO18', 'LUNGO', 'NERO10MM', 'PROVAMELAMINE', 'PVC30', 'RED', 'TRASP-BLU', and 'TRUCCIOLO'. A red box also highlights the 'Materials and off-cuts available' section in the main table.

Code	Description	Length	Width	Offcut	Quantity	Available
w01	Panel 376x166x1.9W	3.760,00	1.660,00	<input type="checkbox"/>	22	<input checked="" type="checkbox"/>
w02	Panel 280x140x1.9W	2.800,00	1.400,00	<input type="checkbox"/>	18	<input checked="" type="checkbox"/>
R00001	Off-Cut	2.800,00	512,00	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>
R00004	Off-Cut	1.281,60	671,40	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>
R00005	Off-Cut	920,40	576,60	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>

**Materials and off-cuts import from Maestro Cut**

**Materials and off-cuts available**

Typology	Description	Thickness	Color	Barra
1	AWANAGANA	18,00	AWANAGANA	0
2	CARTONE10	10,00	TURQUOISE	0
3	CARTONE18	18,00	WHITE	0
4	GOLD	18,00	GOLD	0
5	GRIGIO18	18,00	DARKGRAY	0
6	LUNGO	18,00	BLUE	0
7	NERO10MM	10,00	BLACK	0
8	PROVAMELAMINE	19,50	WHITE	0
9	PVC30	30,00	WHITE	0
10	RED	18,00	RED	0
11	TRASP-BLU	6,00	DODGERBLUE	0
12	TRUCCIOLO	18,00	CHARTREUSE	0

Advantage: using of the real material stock and reuse of the off-cuts

## Cutting list programming

The operator can create the list of the pieces to be produced in an easy and intuitive way or can import the list even from an Excel sheet (.XLS) (OPTIONAL on board machine, Easy Import is mandatory)

The screenshot displays the Maestro Pattern software interface. On the left, a table lists material pieces with columns for Code, Description, Length, Width, Offcut, Quantity, and Available. A red arrow points from the text 'Data list import from Excel (XLS)' to the 'Import' button in the central menu. On the right, a 'Cutting list' window is open, showing a detailed table of pieces with columns for Code, Description, Length, Width, Quantity, and various edge data (Edge 1 to Edge 4). A green box highlights the 'Cutting list' window, and a red box highlights the 'Import' button in the central menu.

**Data list import from Excel (XLS)**

**Cutting list**

**Advantage: edge data information, possibility of an overproduction for the most used pieces with a consisting reduction of the off-cuts**

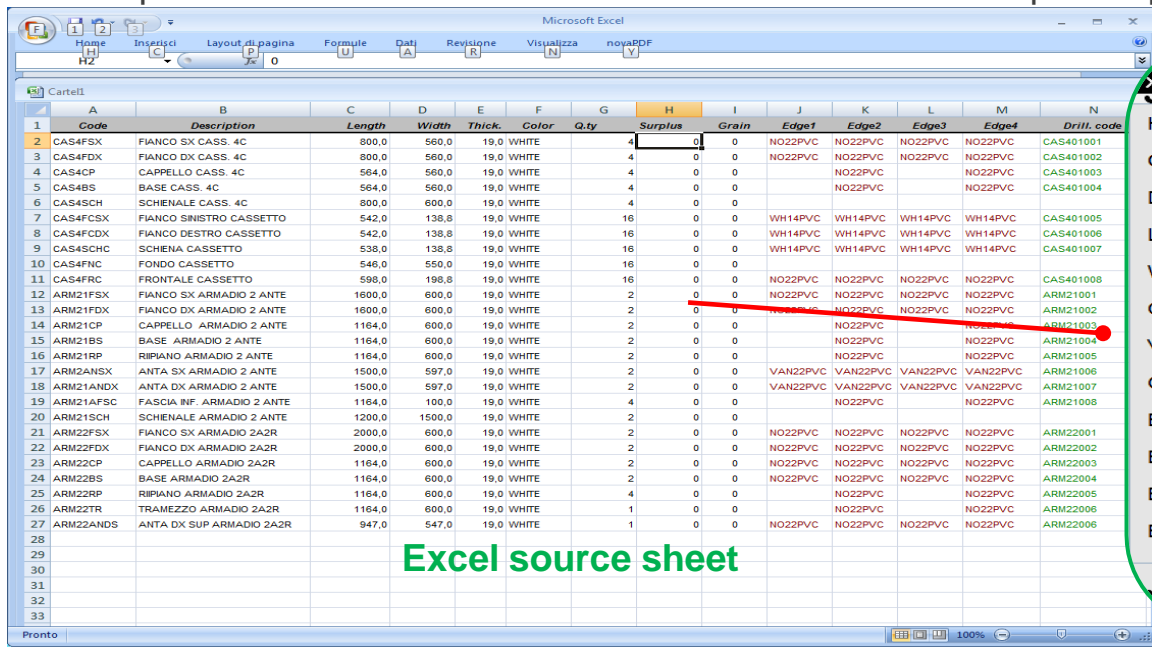


## Maestro Pattern

### Import of a cutting list from Excel (Easy Import on board machine as an OPTIONAL)

The operator can automatically import from an Excel file (.XLS) all data related to the cutting list, configuring the sorting order of the fields

Limits to import from an Excel file are: max 30 rows and max 500 pieces per row



Excel source sheet

**Excel Fields**

XLS

Header Lines	1
Code	A
Description	B
Length	C
Width	D
Quantity	G
Var.Q.	H
Grain	I
Edge 1	J
Edge 2	K
Edge 3	L
Edge 4	M

Fields configuration

✓ X

**Advantage: speed and flexibility of programming, errors are drastically reduced**

## Optimization order

Maestro Pattern optimizes the order and displays all the useful information in a intuitive and simple way, in a unique page.


**Maestro Pattern**

**Typology** WHITE19  
**Thickness** 19.00  
**Units** mm

Sqm, off-cuts and yeald are shown

Code	Description	Length	Width	Offcut	Quantity	Used
w01	Panel 376x166x1.9W	3.760,00	1.660,00		22	5
w02	Panel 280x140x1.9W	2.800,00	1.400,00		18	5
R00001	Off-Cut	2.800,00	512,00	X	1	0
R00004	Off-Cut	1.281,60	671,40	X	2	1
R00005	Off-Cut	920,40	576,60	X	1	1

Optimised cutting schemes are displayed



Code	Description	Length	Width	Quar	Obt	Edge 1	Edge 2	Edge 3	Edge 4	Diff %
CAS4FSX	FIANCO SX CASS.	4.800,00	560,00	4	4	NO22PVC	NO22PVC	NO22PVC	NO22PVC	0.0
CAS4FDX	FIANCO DX CASS.	4.800,00	560,00	4	4	NO22PVC	NO22PVC	NO22PVC	NO22PVC	0.0
CAS4CP	CAPPELLO CASS.	4.564,00	560,00	4	4		NO22PVC		NO22PVC	0.0
CAS4BS	BASE CASS. 4C	564,00	560,00	4	4		NO22PVC		NO22PVC	0.0
CAS4SCH	SCHIENALE CASS.	4.800,00	600,00	4	4					0.0
CAS4S	FIANCO SINISTRO C	542,00	138,75	16	16	WH14PVC	WH14PVC	WH14PVC	WH14PVC	0.0
CAS4CD	FIANCO DESTRO C	542,00	138,75	16	16	WH14PVC	WH14PVC	WH14PVC	WH14PVC	0.0
CAS4SCH	SCHIENALE CASSETT	538,00	138,75	16	16	WH14PVC	WH14PVC	WH14PVC	WH14PVC	0.0
CAS4FNC	FRONTAL CASSETTO	546,00	550,00	16	16					0.0
CAS4FRC	FRONTAL CASSET	598,00	198,75	16	16					0.0
ARM21FS	FIANCO SX ARMADI	1.600,00	600,00	2	2	NO22PVC	NO22PVC	NO22PVC	NO22PVC	0.0
ARM21FD	FIANCO DX ARMADI	1.600,00	600,00	2	2	NO22PVC	NO22PVC	NO22PVC	NO22PVC	0.0
ARM21CP	CAPPELLO ARMADI	1.164,00	600,00	2	2		NO22PVC		NO22PVC	0.0
ARM21BS	BASE ARMADIO 2A	1.164,00	600,00	2	2		NO22PVC		NO22PVC	0.0
ARM21RP	RIPIANO ARMADIO	1.164,00	600,00	2	2		NO22PVC		NO22PVC	0.0
ARM22ANS	ANTA SX ARMADIO	1.500,00	597,00	2	2	VAN22PVI	VAN22PVI	VAN22PVI	VAN22PVI	0.0
ARM21AN	ANTA DX ARMADIO	1.500,00	597,00	2	2	VAN22PVI	VAN22PVI	VAN22PVI	VAN22PVI	0.0
ARM21AF	FASCIA INF. ARMAD	1.164,00	16,00	4	4		NO22PVC		NO22PVC	0.0
ARM21SC	SCHIENALE ARMAD	1.200,00	1.500,00	2	2					0.0
ARM22FS	FIANCO SX ARMADI	2.000,00	600,00	2	2	NO22PVC	NO22PVC	NO22PVC	NO22PVC	0.0
ARM22FD	FIANCO DX ARMADI	2.000,00	600,00	2	2	NO22PVC	NO22PVC	NO22PVC	NO22PVC	0.0
ARM22CP	CAPPELLO ARMADI	1.164,00	600,00	2	2		NO22PVC		NO22PVC	0.0
ARM22BS	BASE ARMADIO 2A2	1.164,00	600,00	2	2		NO22PVC		NO22PVC	0.0
ARM22RP	RIPIANO ARMADIO	1.164,00	600,00	4	4		NO22PVC		NO22PVC	0.0
ARM22TR	TRAPEZZO ARMADI	1.164,00	600,00	1	1		NO22PVC		NO22PVC	0.0
ARM22AN	ANTA DX SUP ARM	947,00	547,00	1	1	NO22PVC	NO22PVC	NO22PVC	NO22PVC	0.0

Tot. Gross 52,20  
 Tot. Net 45,62  
 Tot. Used 87.4 %  
 Tot. Lost 12,6 %

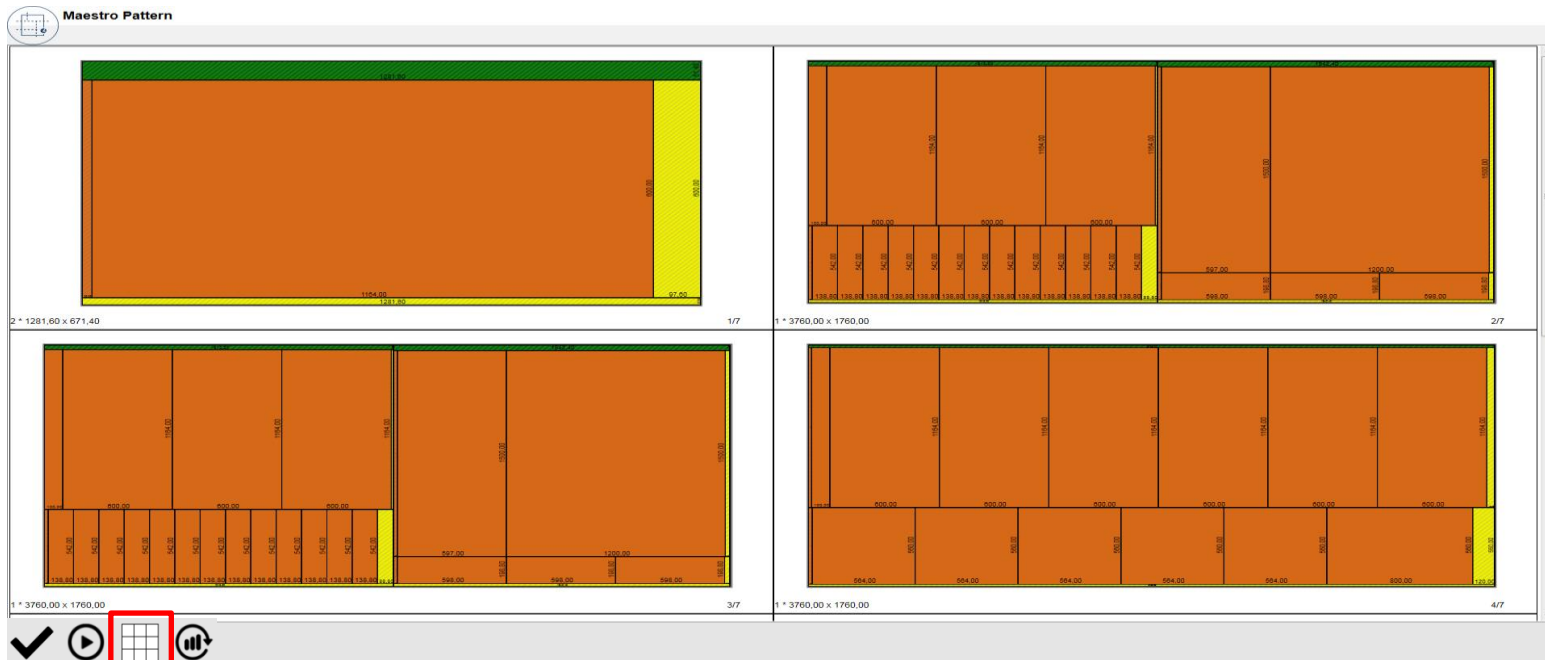
Materials, off-cuts and produced pieces are shown



Selecting the appropriate buttons is possible to generate directly the machine programs for Maestro Cut, sending of cutting programs to the machine, displaying all cutting schemes and updating the material stock (useful for weekly/monthly plan).

## Optimization – Cutting scheme zoom

On Maestro Pattern, when clicking the icon (outlined in red) is possible to display the optimized cutting schemes into a full-screen mode



**Advantage: detailed visualization of the optimized cutting schemes**



**Thank you for your kind  
attention**