



# Maestro Pattern

Easy and intuitive  
optimization cutting software

Strictly reserved to the sales network of SCM Group spa

10/07/2018



THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA



## Maestro pattern

Strictly reserved to the sales network of SCM Group spa

# Maestro pattern

## Programming

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

The screenshot displays the Maestro Pattern software interface, divided into three main functional areas:

- Materials and off-cuts:** A table listing materials with columns for Code, Description, Length, Width, Offcut, Quantity, and Availability. The table includes items like 'w01 Panel 376x166x1.9W' and 'R00005 Off-Cut'.
- Configuration:** A vertical menu on the right with options: Open, Save, Optimization, Configuration, Info, and Exit.
- Cutting list:** A detailed table on the far right showing a list of parts with columns for Code, Description, Length, Width, Qu., Va, Gra, and four Edge types (Edge 1 to Edge 4).

Annotations in the image include a yellow box around the materials table, a pink arrow pointing from the 'Configuration' menu to the 'Optimization' label, and a blue arrow pointing from the 'Configuration' menu to the 'Cutting list' table.

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

Code	Description	Length	Width	Qu.	Va	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	WH14F	WH14PV	WH14PVC		
CAS4CDX	FIANCO DESTR 542,00	138,75	16	0	<input type="checkbox"/>		WH14PV	WH14F	WH14PV	WH14PVC		
CAS4SCHC	SCHIENA CASS 538,00	138,75	16	0	<input type="checkbox"/>		WH14PV	WH14F	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	
ARM21FDX	FIANCO SX ARM 1.600,00	600,00	2	0	<input type="checkbox"/>			NO22PV	NO22P	NO22PV	NO22PVC	
ARM21FDSX	FIANCO DX ARM 1.600,00	600,00	2	0	<input type="checkbox"/>			NO22PV	NO22P	NO22PV	NO22PVC	
ARM21CP	CAPPELLO ARI 1.164,00	600,00	2	0	<input type="checkbox"/>				NO22P		NO22PVC	
ARM21BS	BASE ARMADIC 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	NO22PVC	
ARM22BS	BASE ARMADIC 1.164,00	600,00	2	0	<input type="checkbox"/>				NO22PV	NO22P	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

Advantage: rapid access to the functions and maximum control

# Maestro pattern

## 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 ...

At the bottom of the window are three icons: a checkmark, a crossed-out 'X', and a floppy disk icon.

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)

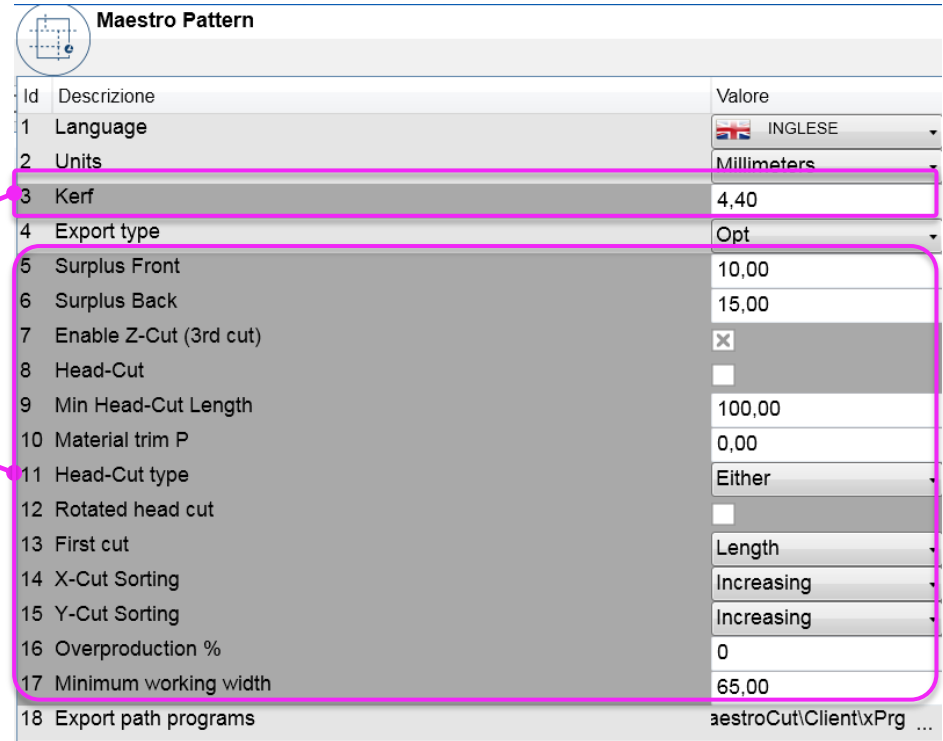
Advantage: fast and effective programming

# Maestro pattern

## Setting 2/3

OPT format

Saved parameters  
in the order



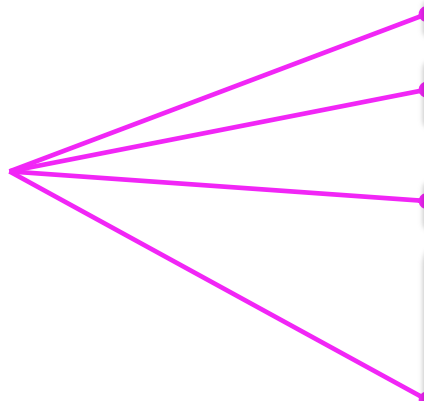
Id	Descrizione	Valore
1	Language	INGLESE
2	Units	Millimeters
3	Kerf	4,40
4	Export type	Opt
5	Surplus Front	10,00
6	Surplus Back	15,00
7	Enable Z-Cut (3rd cut)	<input checked="" type="checkbox"/>
8	Head-Cut	<input type="checkbox"/>
9	Min Head-Cut Length	100,00
10	Material trim P	0,00
11	Head-Cut type	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 ...

# Maestro pattern

## Setting 3/3

xPrg format (preferred for bars cutting)

Saved parameters  
in the order



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 ...

# Maestro pattern

## 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 table lists materials with columns for Code, Description, Length, Width, Offcut, Quantity, and Available. A red box highlights the 'WHITE19' material entry. Below this, a red-bordered window titled 'Import Types' is open, showing a list of material types with columns for Typology, Description, Thickness, Color, and Barra. A red arrow points from the 'WHITE19' material entry to the 'Import Types' window. A yellow line points from the 'Available' column of the material table to the 'Import Types' window. A red text box on the left says 'Materials and off-cuts import from Maestro Cut', and another red text box below it says 'Materials and off-cuts available'.

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"/>

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

# Maestro pattern

## 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 'XLS' icon in the 'PartList' menu. On the right, a detailed 'Cutting list' is shown, listing various pieces with their codes, descriptions, and dimensions. A green box highlights the cutting list area, and a green arrow points from the text 'Cutting list' to the bottom of this box.

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"/>

Code	Description	Length	Width	Qu	Va	Gr	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 ARI	1.164,00	600,00	2	0	<input type="checkbox"/>	NO22P			NO22PVC
ARM21BS	BASE ARMADIC	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 ARMADIC	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

**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

Code	Description	Length	Width	Thick.	Color	Q.ty	Surplus	Grain	Edge1	Edge2	Edge3	Edge4	Drill. code
CAS4FSX	FIANCO SX CASS. 4C	800,0	560,0	19,0	WHITE	4	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	CAS401001
CAS4FDX	FIANCO DX CASS. 4C	800,0	560,0	19,0	WHITE	4	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	CAS401002
CAS4CP	CAPPELLO CASS. 4C	564,0	560,0	19,0	WHITE	4	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	CAS401003
CAS4BS	BASE CASS. 4C	564,0	560,0	19,0	WHITE	4	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	CAS401004
CAS4SCH	SCHENALE CASS. 4C	800,0	600,0	19,0	WHITE	4	0	0					
CAS4CSX	FIANCO SINISTRO CASSETTO	542,0	138,8	19,0	WHITE	16	0	0	WH14PVC	WH14PVC	WH14PVC	WH14PVC	CAS401005
CAS4CDX	FIANCO DESTRO CASSETTO	542,0	138,8	19,0	WHITE	16	0	0	WH14PVC	WH14PVC	WH14PVC	WH14PVC	CAS401006
CAS4SCHC	SCHENA CASSETTO	538,0	138,8	19,0	WHITE	16	0	0	WH14PVC	WH14PVC	WH14PVC	WH14PVC	CAS401007
CAS4FNC	FONDO CASSETTO	546,0	550,0	19,0	WHITE	16	0	0					
CAS4FRC	FRONTALE CASSETTO	598,0	198,8	19,0	WHITE	16	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	CAS401008
ARM21FSX	FIANCO SX ARMADIO 2 ANTE	1600,0	800,0	19,0	WHITE	2	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM21001
ARM21FDX	FIANCO DX ARMADIO 2 ANTE	1600,0	800,0	19,0	WHITE	2	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM21002
ARM21CP	CAPPELLO ARMADIO 2 ANTE	1164,0	600,0	19,0	WHITE	2	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM21003
ARM21BS	BASE ARMADIO 2 ANTE	1164,0	600,0	19,0	WHITE	2	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM21004
ARM21RP	RIPIANO ARMADIO 2 ANTE	1164,0	600,0	19,0	WHITE	2	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM21005
ARM2ANSX	ANTA SX ARMADIO 2 ANTE	1500,0	597,0	19,0	WHITE	2	0	0	VAN22PVC	VAN22PVC	VAN22PVC	VAN22PVC	ARM21006
ARM21ANDX	ANTA DX ARMADIO 2 ANTE	1500,0	597,0	19,0	WHITE	2	0	0	VAN22PVC	VAN22PVC	VAN22PVC	VAN22PVC	ARM21007
ARM21AFSC	FASCIA INF. ARMADIO 2 ANTE	1164,0	100,0	19,0	WHITE	4	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM21008
ARM21SCH	SCHENALE ARMADIO 2 ANTE	1200,0	1500,0	19,0	WHITE	2	0	0					
ARM22FSX	FIANCO SX ARMADIO 2A2R	2000,0	600,0	19,0	WHITE	2	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM22001
ARM22FDX	FIANCO DX ARMADIO 2A2R	2000,0	600,0	19,0	WHITE	2	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM22002
ARM22CP	CAPPELLO ARMADIO 2A2R	1164,0	600,0	19,0	WHITE	2	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM22003
ARM22BS	BASE ARMADIO 2A2R	1164,0	600,0	19,0	WHITE	2	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM22004
ARM22RP	RIPIANO ARMADIO 2A2R	1164,0	600,0	19,0	WHITE	4	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM22005
ARM22TR	TRAMEZZO ARMADIO 2A2R	1164,0	600,0	19,0	WHITE	1	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM22006
ARM22ANDS	ANTA DX SUP ARMADIO 2A2R	947,0	547,0	19,0	WHITE	1	0	0	NO22PVC	NO22PVC	NO22PVC	NO22PVC	ARM22006

**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

# Maestro pattern

## 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	Code	Description	Length	Width	Quar	Obt.	Edge 1	Edge 2	Edge 3	Edge 4	Diff %
w01	Panel 376x166x1.9W	3.760.00	1.660.00		22	5	CAS4FSX	FIANCO SX CASS.	4.800.00	560.00	4	4	NO22PVC	NO22PVC	NO22PVC	NO22PVC	0.0
w02	Panel 280x140x1.9W	2.800.00	1.400.00		18	5	CAS4FDX	FIANCO DX CASS.	4.800.00	560.00	4	4	NO22PVC	NO22PVC	NO22PVC	NO22PVC	0.0
R00001	Off-Cut	2.800.00	512.00	X	1	0	CAS4CP	CAPPELLO CASS.	4.564.00	560.00	4	4		NO22PVC		NO22PVC	0.0
R00004	Off-Cut	1.281.60	671.40	X	2	1	CAS4BS	BASE CASS. 4C	564.00	560.00	4	4		NO22PVC		NO22PVC	0.0
R00005	Off-Cut	920.40	576.60	X	1	1	CAS4SCH	SCHIENALE CASS.	4.800.00	600.00	4	4					0.0

**Optimised cutting schemes are displayed**

**Tot. Gross** 52,20  
**Tot. Net** 45,62  
**Tot. Used** 87,4 %  
**Tot. Lost** 12,6 %

**Materials, off-cuts and produced pieces are shown**

1 \* 3760.00 x 1660.00 4112

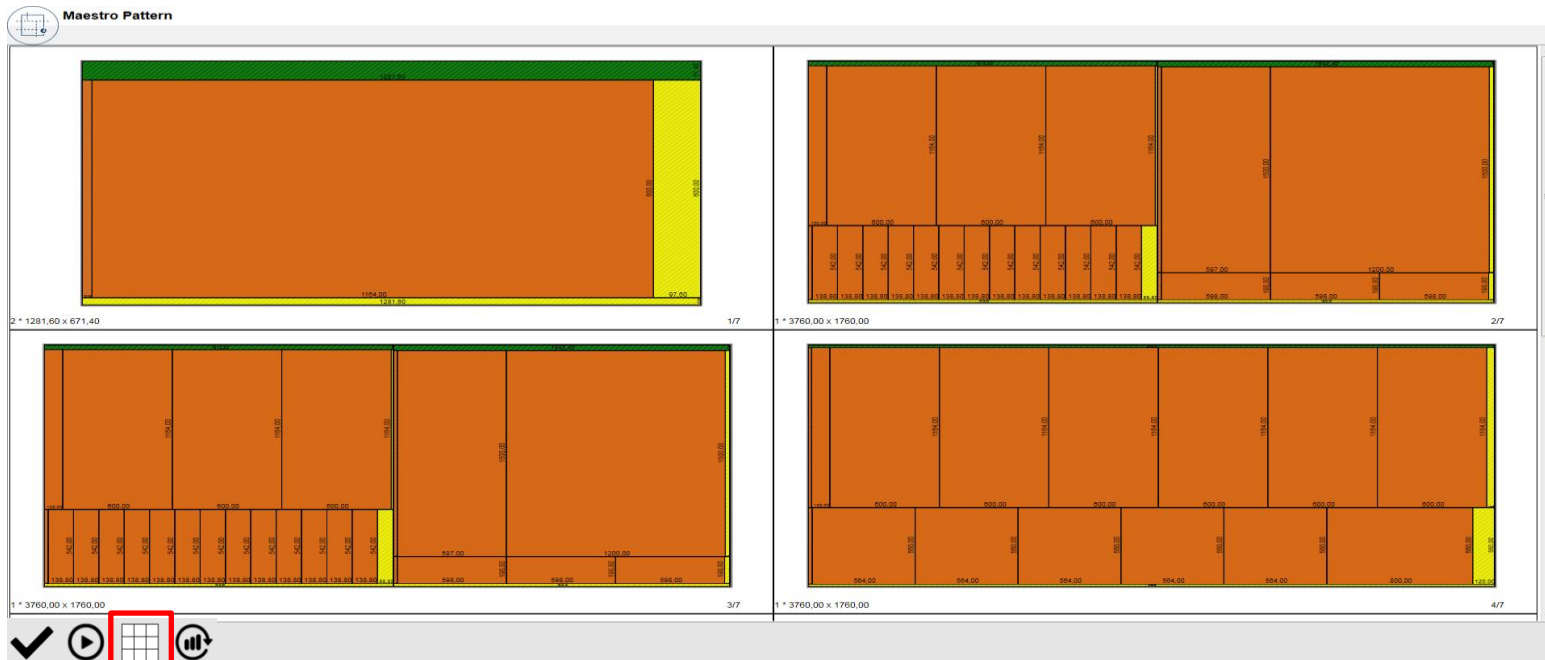
Buttons: [Checkmark] [Play] [Grid] [Bar Chart]

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).

# Maestro pattern

## 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**