scm group
www.scmgroup.com

gabbiani

SCM GROUP SpA
GABBIANI
via Casale, 450
47826 Villa Verucchio, Rimini - Italia
tel. +39 0541 674111
fax +39 0541 674235
gabbiani@scmgroup.com

Messrs.

Offer: 393300/1

Villa Verucchio, 15/02/2015

With reference to your kind request please find here attached our best offer for the machines of your interest.

We remain at your disposal for any information you may need. Looking forward to hearing from you, we remain, Yours faithfully.

Ing. VILMO FRATARCANGELI
Area Manager
SCM GROUP S.p.A.

Offerta: 393300/1

AUTOMATIC BEAM SAW WITH LOADING PLATFORM

GALAXY T3 110A

MAIN FEATURES

	WINCUT: WORKING MADE EASY **FLOATING CLAMPS: THE GUARANTEE OF THE END RESULT** **LOADING PLATFORM: WHEN STURDINESS AND PRECISION MAKE THE DIFFERENCE**

Offerta: 393300/1

TECHNICAL DATA

		Galaxy T3 110 A
GENERAL DATA		
Blade projection	mm	110
Worktable height	mm	950
Standard clamps q.ty		6 (7 for 4500 version) (3 with front aligner)
Total clamps for 32/38/45 versions q.ty		10 / 11 / 12
Max. clamps opening	mm	105
Total clamps for vers.32/38/45 with FLEX 1/S optional device (1 clamp with triple finger is included)		9 / 10 / 11 (Base) 11 / 12 / 13 (Full)
LOADIGN PLATFORM DIMENSIONS		
Version 32	mm	3200x1850 (3200X2440 option)
Version 38	mm	3800x1850 (3800x2440 option)
Version 45	mm	4500x2440
LOADING PLATFORM WITH SUPPORT BEAMS - Standard		
Max. height of panels stack	mm	600
Max. weight to be supported	Mm	6500
Upstroke/downstroke speed	m/min	0,75
Min. loading dimensions	mm	1500x600
Max. loading dimensions for 32/38/45 versions	mm	3200x1850 – 3800x1850 4500x2440
Min. panel thickness to be loaded	mm	10
AXES SPEED		
Variable saw carriage speed	m/min	150
Variable pusher speed (**)	m/min	80
MAIN BLADE		
Motor power - 50hz (star-delta start)	kW (Hp)	7,5 (10)
Rotating speed – 50 hz	rpm	3900
Blade diameter	mm	400
Blade shaft diameter	mm	80
SCORING SAW BLADE		
Motor power – 50 hz	kW (Hp)	1,8 (2,5)
Rotating speed – 50 hz	rpm	6350

Scoring saw blade diameter	mm	200
Scoring blade shaft diameter	mm	80
INSTALLATION		
Installed motor power	kW	19÷25
Basic machine voltage		EU (400 V / 50 Hz)
Compressed air consumption	NL/min	300
Requested operating pressure	bar	7
Extraction flow rate	m3/h	5200
Exhaust speed	m/s	28
Exhaust outlet diameter	mm	3x120 + 1x150

(**) **N.B**. For CE-Countries the forward feed speed pusher is limited to 25m/min

GENERAL FEATURES:
Automatic high performance beam saws with loading platform controlled by PC/PLC "PREMIUM" control system, designed to cut to size solid wood panels, chipboards, MDF panels, multilayer panels, plywood panels and fiber panels.

Base and working table

– base with tubular steel structure with a "closed" ring shape
– worktable in reinforced ribbed steel and coated with anti-scratch phenolic material
– no. 2 cilindric guides for the saw carriage movement equipped with sliding wheels in hardened and ground steel
– squaring fence located on the left side

Steel saw blade carriage

complete with
- 1 motor for the main saw blade and 1 motor for scoring blade
- saw carriage driven by a brushless motor
- vertical and independent saw blade and scoring blade raising on prismatic guideways and recirculating ball screw
- automatic scoring blade exclusion directly from the control.
- massbalancing to guarantee perfect cutting finish
- stroke against the squaring fence
- saw carriage driven by rack and pinion
- pneumatic selector for the safe and rapid change of the main blade and scoring blade

Pressure beam
- pressure beam with even pressure on entire cutting length, equipped with slots to eliminate the interference zone with the clamps ; pneumatic vertical adjustment with precision racks and pinions, adjustble pressure by manometer from 1,5 to 6 bar
- double dust conveying system: one on the top applied directly to the pressure beam to keep the working table clean and one on the bottom applied to the saw carriage
- automatic side aligner for cross cuts: (60-1200 mm stroke),

Pusher and rear machine part
- power-driven pusher for the entire machine stroke with movement by a robust torsion bar. Pusher movement on round guide and shaped steel beams on **"H" support , 160 x 160 mm section**. Sliding takes place on 2 precision pinions to guarantee that the pusher and the cutting line are constantly parallel. Electronic positioning by means of magnetic band. The pusher is driven by a brushless motor to allow a variable speed positioning and quick return. Continuous speed adjustment until 0.
- pressure adjustment for clamps locking by manometer
- rear part with tubular supports with wheels made of antiscratch material (50 mm diameter)
- no. 3 front alignment devices (which can be excluded) positioned on the rear machine table (before the cutting axis). The aligners allow the longitudinal alignment of the panel/stack to be sized.
- No. 1 grid insert row in the rear closures positioned behind the cutting line

LOADING PLATFORM
- Strong steel structure consisting of four columns fixed to the support beams and equpped with steel tubular beams for the direct accomodation of the panel
  stack to be cut.
- Lifting by means of fixed screws and rotating balls (located inside the columns), driven by a single motor by chain and pinion.
- The panel stacks, once loaded on to the platform, are raised to allow

the pusher to feed only the selected panels.
– The platform is equipped with an “end-stroke” (activated by a selector on the control panel) which detects the presence of the pallet/base board and allows the automatic feeding of the panel stack only (200 mm maximum pallet/base board height)

CNC CONTROL UNIT
Control System with PC and PLC "PREMIUM"

PC Office
– **Windows 7 operating system**
– 17" LCD colour screen
– Qwerty keyboard
– Intel Celeron processor (2400 Mhz)
– 2 GB RAM
– 250 GB hard disk
– CD-DVD rom
– 1 serial port + 10 USB
– Mobile control panel
– machine interface software: Wincut 12
– possibility of inserting any network card
N.B.
- higher configuration can also be supplied
- the PC guarantee will be provided by the manufacturer

General features of Wincut 12 software
Machine functions
– automatic mode: execution of programs and/or lists of programs
– semiautomatic mode: execution of 4 different measurements which can be set using the keyboard
– possibility of passing from automatic to semiautomatic mode during program execution (for several cuts) and returning to automatic mode (continuing the program from the point at which it was interrupted)
– Multitasking, allows programming or use of all control functions even during machining
Programming:
– no. 5 different cutting levels: precutting/X/Y/U/V
– graphic display of cutting diagrams programmed
– maximum number of lines per program: 100
– maximum number of lines per list: 100
– maximum number of programs and lists: until hard disk memory limit is reached (approx. 80% of hard disk capacity)
– editor for data on labels associated to each program
Run time (during machining)
– display (during machining) of cutting diagram, with indication of cuts as they are made
– guided help (during machining) for the operator relative to the

workpieces cut to be handled
– graphic display (during machining) of the current line and list

Planned maintenance

The user can set a list of maintenance interventions with a deadline of them. The corresponding alarm will show up at the deadline with the description of the intervention to do (ex. blade change, belt check,…)

Diagnostics:
– self-diagnosis and indication of any errors or possible faults by alarm messages
– tips on recommended action (with possibility of entering further observation for each type of alarm)
– debugger input/output

Production report:
– indication of daily production, with all relevant data (machining start and end times, surface area and volume of material machined) stored on the hard disk

Imports:
– files in perfect cut format

Language and unit of measurement
– operator interface in: italian, french, english, spanish
– unit of measurement: millimetres - tenths or inches-thousandths

The description of the control system includes functions which are present only with a suitable panel saw mechanical or electrical set up. As a result the label data editor in each program is present only with the relative optional devices, shown in the price list, selected on the machine

SAFETY REGULATIONS

The CE Norms foresee:
– safety enclosures fixed to the machine on pusher support and machine working tables closed by means of MDF panels
– electrical board with high safety features, complete with:
* dust-proof cabinet (ip 55 protection) with padlockable main switch
* overload motor protection
* auxiliary low voltage circuit (110 v) for the commands, the electronic controls
and low voltage signals
* safety microswitch on blade access door
– emergency bar on cutting line
– front safety protection with plastic fingers with compass movement

It is compulsory electrical power supply with neutral phase

If the final client's voltage is not 400V, an adapter (transformer/autotransformer) must be used in order to achieve the conditions set out above.
The transformer/autotransformer for supply networks which are not TN-S or TNC and/or voltages that differ from the above is an extra option not included in the supply. In certain machine versions there is the possibility of direct operation with three phase lines with voltages

other than 400 V (230V 50/60Hz; 380V 50/60Hz; 460V 60Hz ; 600V 60Hz), in which case, the machine may be operated without the adapter (transformer/autotransformer).

MACHININGS

Single automatic side alignment device (stroke 1.200 mm) rubber-coated pushing roller. Sliding on prismatic guide and recirculating ball-screws.

– Maximum panel width: 1200 mm
– Minimum panel width: 60 mm

HARDWARE

TELESOLVE teleservice via internet

Teleservice system to connect the machine pc with the service centre via internet.

Software equipment: connecting program which allows:

– operator's interface visualisation
– signals diagnosis
– on-line verification and modification of the status of configurations, parameters and machine programs
– data back-up and files transfer operations
– upgrade operations for machine logics and operator's interface

N.B. - Internet connection at customer's charge is necessary
– network cable and PC not included
–

CUTTING OPTIMISATION PROGRAMS

Cutty: optimisationsoftware running in the saws PC.

It allows the user to obtain cutting programs starting from the board and the finished panel without typing any cutting instruction. Cutty generates optimised cutting layouts that are automatically converted into cutting programs: the user has not to type any cutting instructions. The cutting program related to the layout made by Cutty will be automatically saved into the directory of the Wincut program (the software that controls the cutting process)

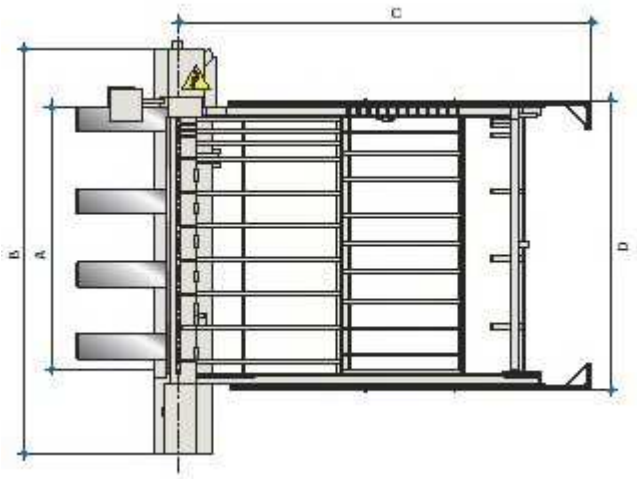
The software program manages a little panels store.

Technical data:

– panels store: 2 panels size made by one thickness and one colour only
– max. number of rows per program : 22
– max. number of panels per row : 300
– cutting levels : rip cut (y), cross cut (x), third cut (z)
– statistic report : % of wasted panels, number of used panels, number of processed panels
– Graphic editor of the produced data produced

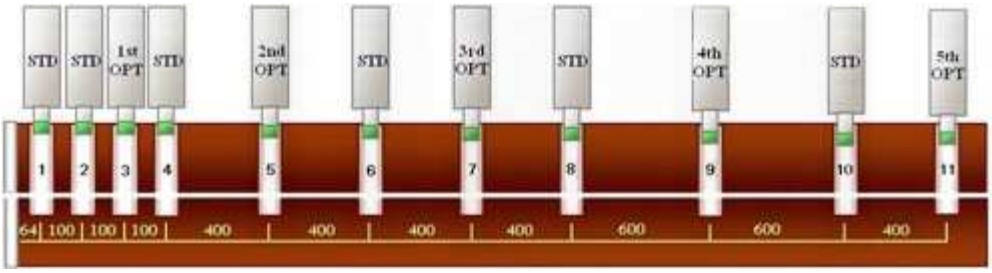
GALAXY T3 110 A

	A	B	C	D
3800x1850	**3900**	**6300**	**6750**	**5101**



DRAWING OF CLAMPS POSITIONING
GALAXY T3 110 A

Machine with cutting length 3800 mm



G0.02.50	**GALAXY T3 110 A (38) PLUS - HIGH PERFORMANCE BEAM SAW WITH PLATFORM** 3800 x 1850 mm loading platform dimensions	**N. 1**
	EUROPEAN SAFETY REGULATIONS (CE NORMS)	**N. 1**
93.12.01	**FREQUENCY 50 HZ**	**N. 1**
93.07.31	**VOLT 400 EU**	**N. 1**
G2.05.01	**AIR BLOWER FOR ELECTRIC CABINET**	**N. 1**

"VORTEC" air blower for electrical cabinet cooling on machine board

G9.03.49 FIXED AIR CUSHION TABLE WITH FENCE 2500X600MM N. 1

Table for material loading and unloading coated with phenolic material and with left fence perpendicular to the cutting axis. Provided with an independent motor and holes with spheres, it ensures the presence of an air cushion between the table and the easy handling of the panel book.

G9.03.52 MOBILE AIR CUSHION TABLE 2500X600 MM N. 2

Table for material loading and unloading coated with phenolic material and with left fence perpendicular to the cutting axis. Provided with an independent motor and holes with spheres, it ensures the presence of an air cushion between the table and the easy handling of the panel book.

G0.02.33 DOUBLE AUTOMATIC SIDE ALIGNMENT DEVICE (POWERED STROKE 2.200 MM) N. 1

Driven by a brushless motor with movement on rack and pinion. . The side aligner device during the cross cutting will make a pre-positioning next to the strip to be aligned.
Stroke: 60 – 2.200 mm

Advantages

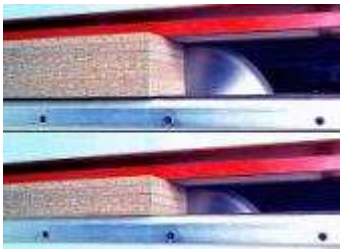
* working cycles reduction
* maximum precision
* alignment of high thickness stacks
* management of the alignment pressures

G2.01.85 **START/STOP CYCLE PEDAL** **N. 1**

to allow to start/stop the cycle with large panel on the front table

G0.01.69 **OPTIMISED BLADE/PRESSURE BEAM STROKE WITH SELFLEARNING + ROD LOCK (NOT WITH "HI-TRONIC")** **N. 1**

This device allows the optimising of the blade and the pressure beam stroke according to the book height, in order to obtain a better cut and a lower execution time. The presence of the panel is reported during the pressure beam down stroke, allowing the pre-positioning of the saw carriage.
A mechanical device locks the position of the blade according to the height of the book to be cut



(suitable for hard and /or plastic materials).

G2.00.45 **20 HP (15 KW) - 50HZ MAIN BLADE MOTOR WITH STAR-DELTA START** **N. 1**

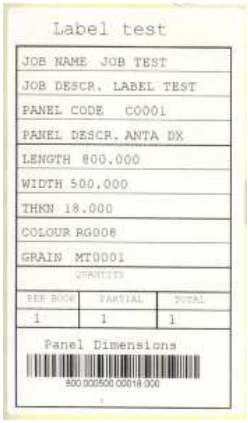
G2.00.82 **ADDITIONAL CLAMP WITH SINGLE FINGER** **N. 3**

G9.00.63 **OFFICE COMPACT LABEL PRINTER** **N. 1**

Label printer linked to the PC of the panel saw.
A label is printed for each workpiece produced or for each group (select using the label editor of the WinCut software)
The label may indicate information on panels either in written text, bar codes or images. This data may be entered by the operator or imported by Ottimo (optimisation software on demand).
Technical data:
– printing resolution 8 dots/mm
– print speed programmable up to 102 mm/s
– max width of printing up to 108 mm
– automatic label detaching

Label editor included with label printer supply.
Enables printing of labels with bar code directly on board the machine.

The new data can be entered by the operator or imported by Ottimo or Easy Cut. The information can be printed either in written text or bar code. Furthermore it is possible to add pictures or lines.



Zebra® TLP 2844™

G2.00.53 AUTOMATIC THIN MATERIAL LOADING DEVICE WITH SUPPORT BEAMS **N. 1**

This device enables the automatic loading of thin panels with thicknesses ranging between 3 and 10 mm guaranteeing functioning continuity and reliability during automatic loading from the beam saw lifting table (with **SUPPORT BEAMS**)

The selected panel stack is pushed at a single central pushing point, in the opposite direction to that of the feed (i.e. towards the pusher with clamps).

This operation is carried out by an arm, located at the centre of the sliding table with rollers.

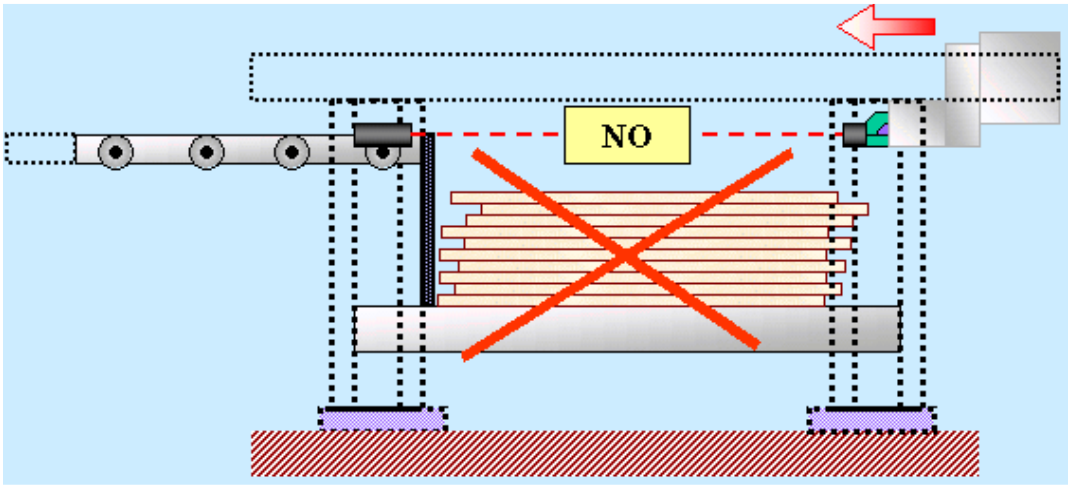
The machine is equipped with a rear "book holder", with manual adjustment, to prevent the displacement of panels underneath the selected book.

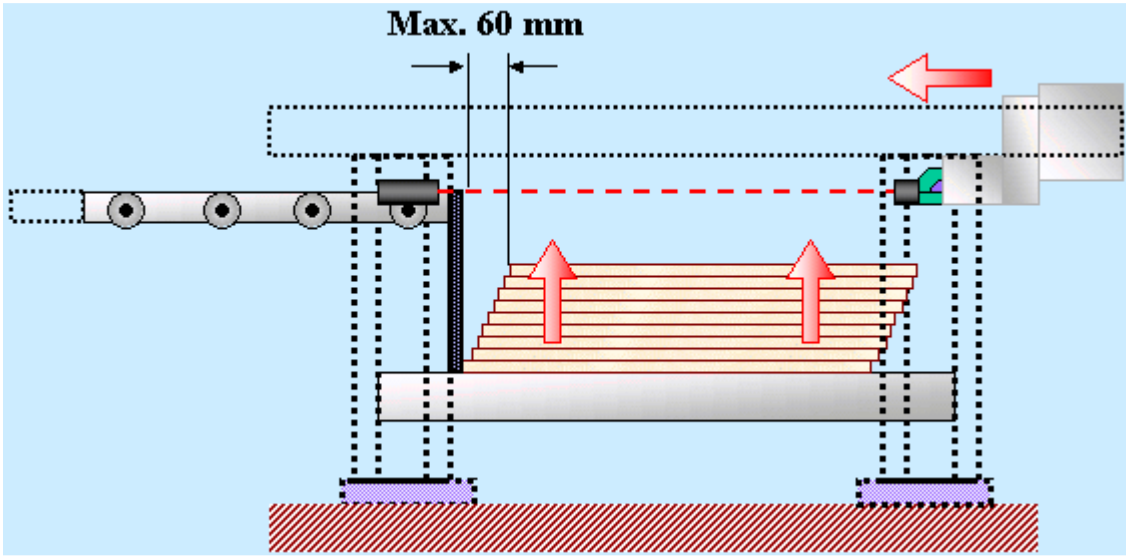
In order to ensure the correct functioning, the loading of thin materials must be in the cantre of the lifting table. This prevents the problems linked to the deformation/warping typical of a pack of thin panels which makes it difficult for two or more grippers to grip the same number of panels.

The number of panels loaded on the machine table is calculated by a photocell system. The tolerance of the panels picked up, compared with those set, is approx. +/- 2 panels with a thickness of 3 mm per cycle, depending on the type of material to be loaded.

The maximum tolerance recommended by Gabbiani for the correct loading of the panel is +/- 30 mm,

thus limiting the machine load capacity to: 50 mm GALAXY 110, 70 mm GALAXY 130.
The maximum number of sheets loaded might not be precise. The limits in fact are strictly related to the rate of surface friction force of the material to size. The friction amongst the thin panels can in fact, with excessive loads, create difficulties to the book alignment.
The minimum stack thickness that can be loaded is 15 mm.
The device is also equipped with an additional clamp with front aligner except the 5600 version that is already equipped with 4 aligners on the base structure. In order to load/unload the stack of panels it is compulsory to use the base board panel (minimum thickness 25 mm).
Distance between the machine working table leg and panel stack must be lower than 60 mm and the panel book loaded above the lifting table has to be aligned in order to obtain a correct functioning.





Thin loading paneles minimum and maximum limits are listed below

CUTTING LENGTH	MIN. DIMENSION LOADING (LxW)	MAX. DIMENSION LOADING (LxW)
3200x1850	2000x600	3200x1850
3200x2440	2000x600	3200x2440
3800x1850	2000x600	3800x1850
3800x2440	2000x600	3800x2440
4500x2440	2000x600	4500x2440 (#4200x2440)
5600x2440	2000x600	5600x2440 (#5350x2440)
(#) With internal rotating table		

G0.01.77 REAR LOADING 3800X2440 WITH SUPPORT BEAMS N. 1

G0.02.58 WINCUT UTILITY N. 1

Labels printing software

Software operating on machine board to create labels by means of graphic editor.

Possibility to insert "company logos" (white and black bitmap format), descriptive fields and bar codes for the panel identification and the following machining

3D Simulator

Software integrated in the machine program with 3D cutting cycle visualization. During the machine cutting cycle, the operations already cut and the operations still outstanding are presented graphically on the PC Monitor, indicating the actual dimensions of panels and exact positions of moving parts

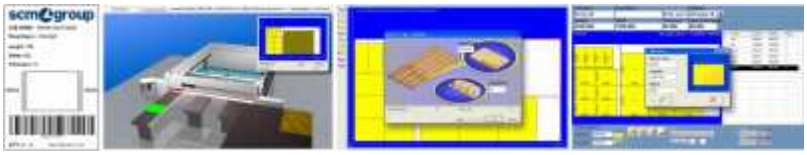
N.B. This function is not activated when operating with FlexCut unit

Graphic Editor

Software integrated in the machine program with guided help for the operator when creating cutting diagrams

Panels Editor

Software integrated in the machine program for the manual filling of the cutting scheme. Workpiece introduction from data base and external files. Setting of trim cuts to be carried out on the panel



08.32.08	**WOOD BLOCKS**	**N. 1**
10.99.91	**MACHINE LANGUAGE: ENGLISH**	**N. 1**
G6.00.01	**P.C. LANGUAGE ENGLISH**	**N. 1**

Total price EUR 112.410,00

SALES CONDITIONS:

Delivery terms: approx. 90 - 120 days from receipt of official order by advance payment (or L/C)

Payment: 20% advance payment with order
80% on advice goods ready for delivery
or
100% irrevocable Letter of Credit confirmed by main Italian bank and payable at sight at Italian bank counters