

***Commercial
Brochure
2013***

***Sales program
Machines and
Accessories***

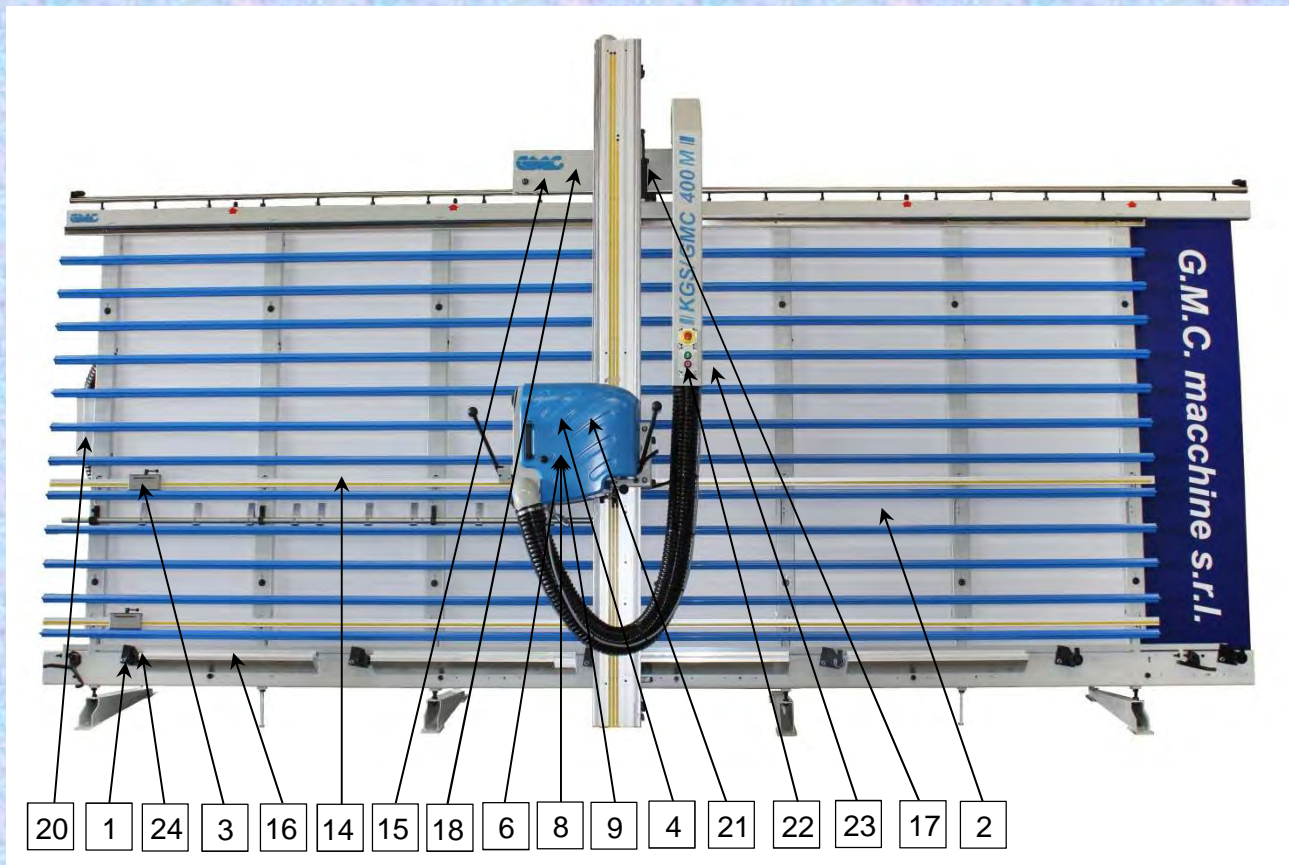
KGS/GMC 300 M

KGS/GMC 400 M

NEW TECHNOLOGY

G.M.C. macchine s.r.l.

KGS/GMC 300 M – 400 M



ACCESSORIES

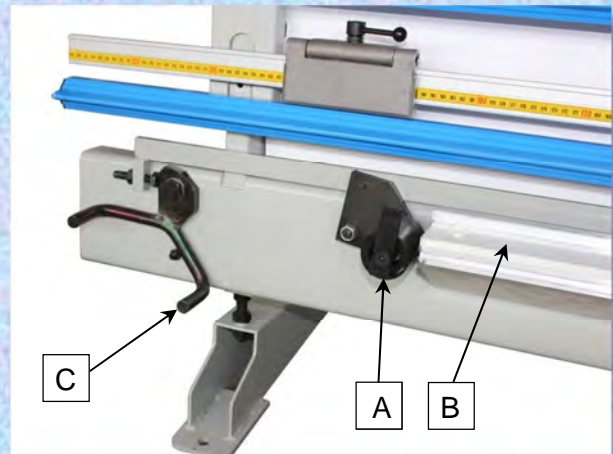
N°	DESCRIPTION	CODE
1	Lift up rollers for the sliding of boards	GMC 00005
2	Extension intermediate retractable turnover support (on the whole length of the machine)	GMC 00301
3	Measuring stop for vertical cuts	GMC 00154
4	Traditional Grooving Device for aluminium composite panels "ACM"	GMC 00025
5	Grooving cutters diameter 250mm for "ACM": U-shaped	GMC 00080
	V-shaped – 90°	GMC 00081
	V-shaped – 135°	GMC 00082
6	"SCU" cutting / grooving device for aluminum composite panels (ACM)	GMC 00176
7	Grooving cutters diameter 110mm for "SCU": U-shaped	GMC 00175
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8	Scoring unit with tapered saw blade TCT	GMC 00001
9	Scoring unit with belt protected complete with adjustable blade	GMC 00299
10	"MFP" Mobile paneled frame	GMC 00177
11	Dust preventer system "DPS"	GMC 00271
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13	Dust exhausters: HP 0,75	GMC 00013
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	HP 3 AP (Wood)	GMC 00113
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14	Cutting device small panels: 50 cm	GMC 00269
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15	Cutting device flexible panels	GMC 00020

16	Angle cutting device “Angol II”	GMC 00021
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23	Cooler “Venturi” method	GMC 00181
24	Cleaning device lower supports (applicable with retractable rollers)	GMC 00300
25	Optimization software “Leonardo”: LT version OEM version	GMC 00059 GMC 00060

ACCESSORIES

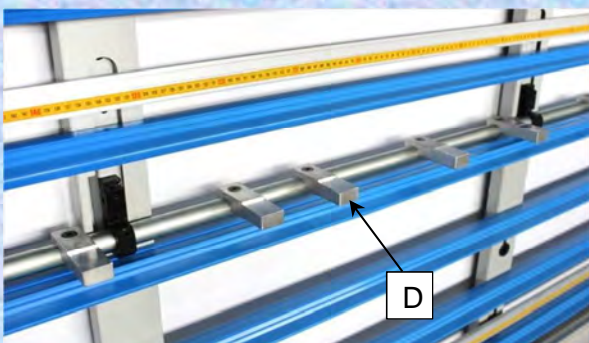
1. Lift up rollers for the sliding of boards (GMC00005)

The **lift up rollers (A)** serve to facilitate the handling of panels, also of large size; once these have been placed on the appropriate lower supports (B). By pushing on one of the two pedals (C) the rollers go up and the panel can be easily moved in the desired position. To return the rollers to the initial position, push again on the pedal.



2. Extension intermediate retractable turnover support on the whole length of the machine (GMC00006)

The **intermediate retractable turnover supports (D)** are used when it is needed to cut panels of reduced dimensions in height, so as to work in an area of the machine easier for the operator. When the panels have a considerable length, it is advisable to add intermediate retractable turnover supports on the whole length of the machine, so as to have an ideal base under the panel and to better exploit the cutting length of the machine. When the machine is equipped with the MFP device the intermediate supports are of type (E).



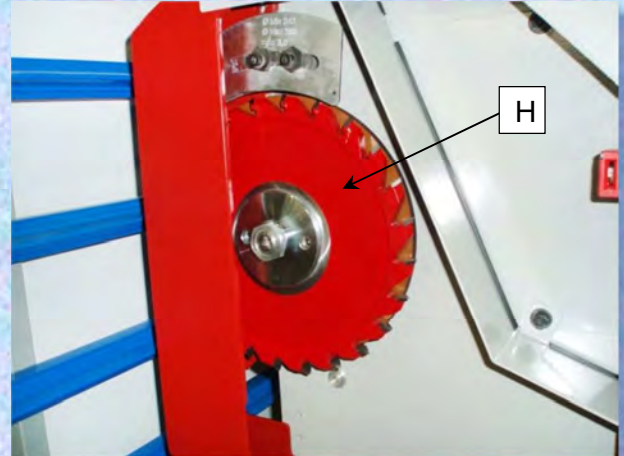
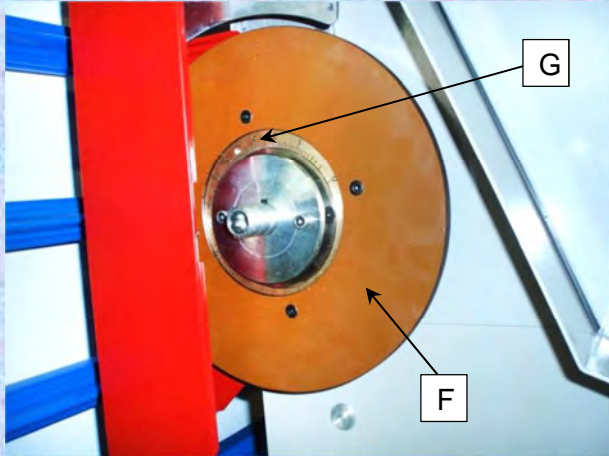
3. Measuring stop for vertical cuts (GMC00154)

The **measuring stops** are used to set the wished width of the panel during a vertical cut. Once set the quota on the metric rod, lock the measuring stop with the appropriate lever, bring the panel fully home with the movable part of the measuring stop and make the cut. The width of the panel obtained is equal to the set quota. It is possible to add one or more measuring stops on the same metric rod, to optimize the working time, depending on requirements.



4. Traditional Grooving Device for aluminium composite panels “ACM” (GMC00025)

The **traditional device “ACM”** is used for grooving aluminum composite panels, so called ACM (Aluminium Composite Material), having a solid surface such as Corian®, drywall and other similar products. It consists of a feeler disk (F) mounted on an eccentric ring (G) provided with micrometric adjustment of depth with precision tolerance of 1/10 mm. Replacing the saw blade by a grooving cutter diameter 250mm (H), it is possible to perform milling works to create grooves of various shapes. The shapes are 90°V, the 135°V and "U". The feeler disc (F) moves with the grooving cutter during the machining and determines the grooving depth. The adjustment of the machining depth is carried out by acting on the eccentric (G) to which the feeler disc is fixed. It is necessary to interpose a 10mm wooden panel between the PVC rods and the ACM material to be grooved (not necessary in the version with MFP).



5. Grooving cutters diameter 250mm for “ACM” device (GMC00080/00081/00082)

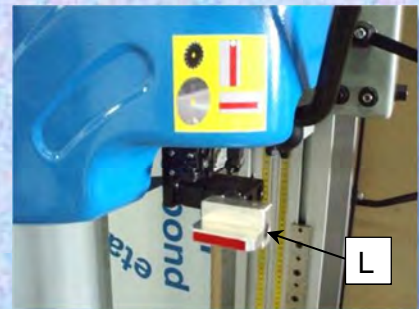
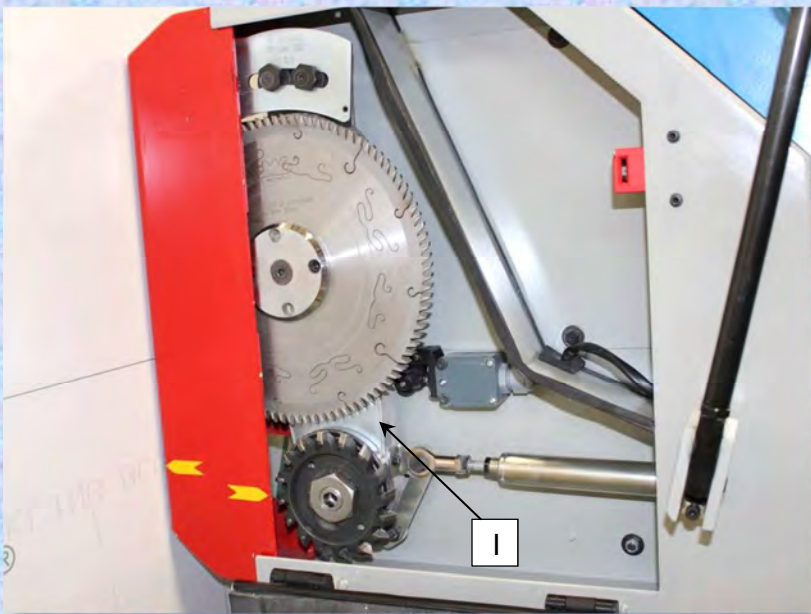
Grooving cutters diameter 250mm are available with three different geometries. The shape of the grooving depends on the type of bend to obtain on the ACM panel after machining the tool. The diagram shows the geometry of the grooving cutter to be chosen according to the sought bend.

U-shaped grooving cutter (GMC00080)	90°V-shaped grooving cutter (GMC00081)	135°V-shaped grooving cutter (GMC00082)

6. "SCU" cutting / grooving device for aluminum composite panels ACM (GMC00176)

The **"SCU" device** (I), installed on the sawing unit of the machine, allows to perform grooving cuts on aluminum composite panels, "ACM", without having to replace the tool, with a considerable time saving for the operator. The transition from cut to grooving, and vice versa, is quick and easy: it is sufficient to turn the selector (L) to choose the type of work to be carried out. Inside the sawing unit are installed a blade \varnothing 250mm for aluminum, in the upper part, and a grooving cutter \varnothing 110mm on the SCU device, in the lower part. By means of the "SCU" handling rod (M), the scoring cutter is brought to the working or rest position.

A safety system prevents the operator to make accidental machining mistakes, avoiding the ignition of the machine. It is necessary to interpose a 10mm wooden panel between the PVC rods and the ACM material to be grooved (not necessary in the version with MFP).



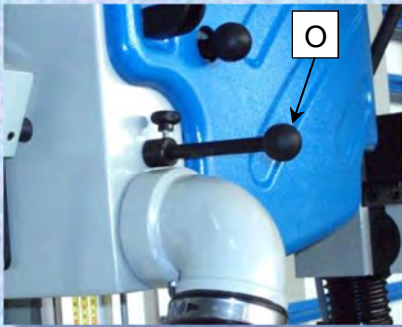
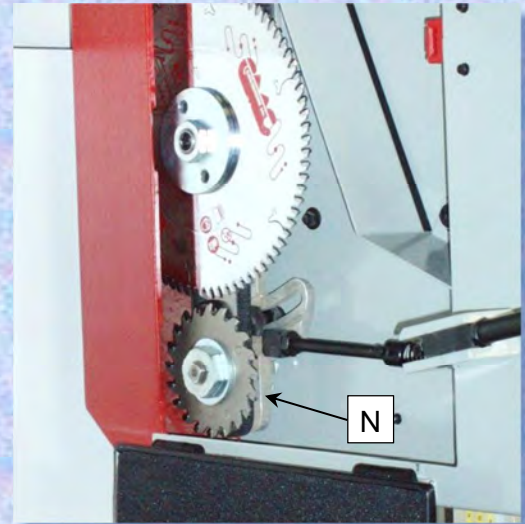
7. Grooving cutters diameter 110mm for "SCU" device (GMC00175/00171/00174)

Grooving cutters diameter 110mm are available with three different geometries. The shape of the grooving depends on the type of bend to obtain on the ACM panel after machining the tool. The diagram shows the geometry of the grooving cutter to be chosen according to the sought bend.

U-shaped milling cutter (GMC00175)	90°V-shaped milling cutter (GMC00171)	135°V-shaped milling cutter (GMC00174)

8. Scoring unit with tapered saw blade TCT (GMC00001)

The **scoring unit** (N) is an optional device that serves to engrave the coating of laminated panels, anticipating the passage of the blade and thus obtaining an excellent cut finishing. The scorer, indeed, by rotating in the opposite direction with respect to the blade, avoids any chipping on the melamine coating by scoring the material of only 1.5 mm approximately; at the next passage of the blade it is thus obtained a precise, clean and flawless cut.



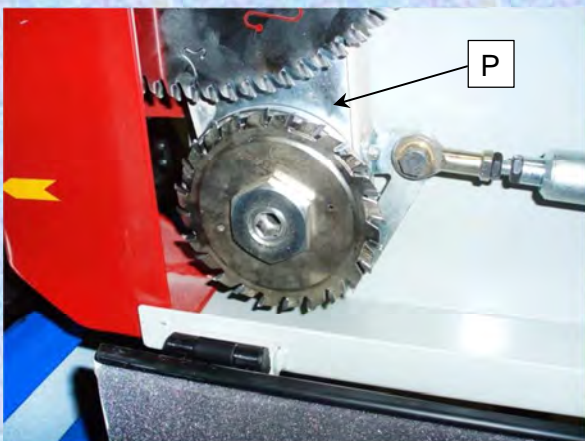
The insertion of the scoring device is easy and immediate, by acting on the appropriate control lever (O). The adjustment of the engraving width is made through an eccentric, which make advance or retract the conical blade, widening or narrowing the groove.

9. Scoring unit with belt protected complete with adjustable blade (GMC00299)

The **scoring unit with belt protected** (P) is an optional device that is used to score the coating of the laminated panels, anticipating the passage of the blade and thus obtaining an excellent cut finishing. The scorer, indeed, by rotating in the opposite direction with respect to the blade, avoids any chipping on the melamine coating by scoring the material of only 1.5 mm approximately; at the next passage of the blade it is thus obtained a precise, clean and flawless cut.

The scoring device with covered belt is particularly indicated when it is needed to cut mainly melamine panels, for which most of the cuts take place with the scorer inserted. The covered belt indeed prevents that the cutting dust settles on the tightening bearings of the scorer, considerably extending the duration of the belt and the device itself.

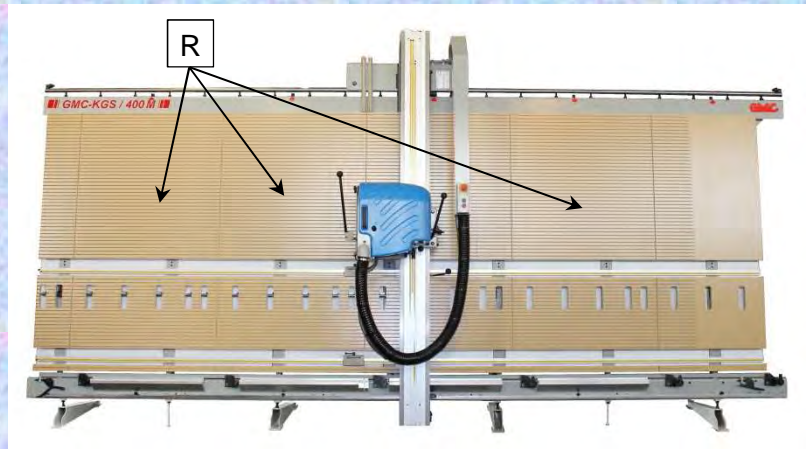
The insertion of the scoring device is easy and immediate, by acting on the appropriate control rod (Q). The adjustment of the engraving width is made through the insertion of calibrated shims (supplied) between the two cutting parts composing the adjustable blade. The engraving depth is adjusted by a bearing mounted on an eccentric pin. Such bearing acts as a "copier" of the surface to be worked, by letting the scoring blade evenly penetrate on the panel, even if this is very curved.



10. “MFP” Mobile paneled frame (GMC00177)

As standard the machine is supplied with blue PVC strips for supporting the panels. If it is necessary to work thin, flexible materials, or materials that require a more homogeneous back support, the machine can be equipped **with a moving paneled in MDF (R)**, 25mm thick.

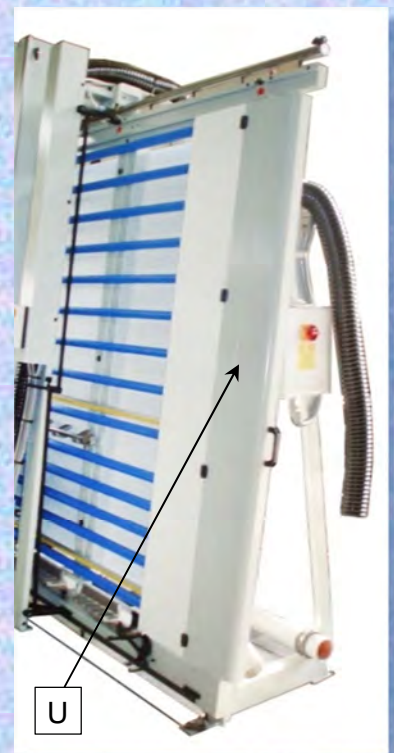
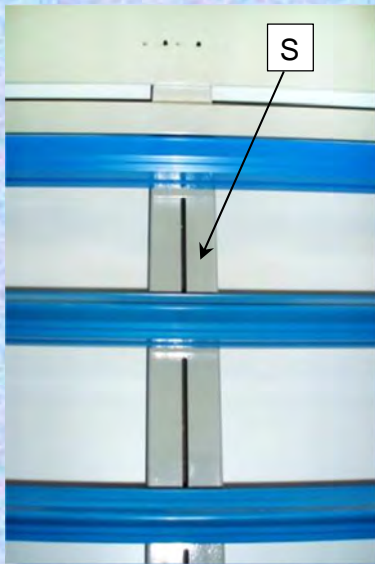
The movable paneling device automatically moves during the execution of horizontal cuts, letting the blade enter in the appropriate existing engravings on the MDF panels, and thus avoiding to damage them. This system, in addition to ensuring a greater support to the panels to be machined, offers a considerable dust containment, facilitating the suction system.



11. Dust preventer system “DPS” (GMC00271)

The **dust preventer system “DPS”** (GMC00271) consists of equipping the machine with additional suction holes and pipes, to further lower the level of dust emission into the atmosphere. The additional pipes are placed close to the areas where the vertical and horizontal cuts are executed, these specific locations are the most effective to trap and exhaust up the machining dust. In more detail:

- Vertical cuts; suction pipes (S) are mounted in correspondence with the cutting line of the blade, for each fixed position of vertical cut. All pipes are then connected to a single tube (T), fixed to the back of the frame, which ensures the connection to the suction system.



- Horizontal cuts; a suction pipe (U) is mounted on the right side of the machine which exhaust up the dust pushed in that area from the rotation direction of the blade and the forward direction of the horizontal cut (from left to right).

13. Dust exhausters (GMC00013 – GMC00291 – GMC00113 – GMC00016 – GMC00017)

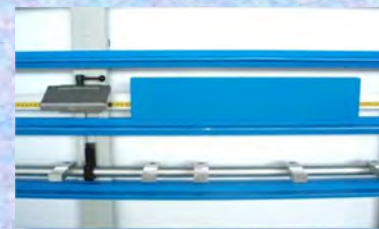
The **dust exhausters** serve to exhaust up the dust and chips formed during the cutting or grooving. Several models are available, with different power depending on the machine and the materials to be machined, in order to obtain an effective suction and thus, a low emission of dust:

- 0,75 Hp (GMC00013)
- 2 Hp (GMC00291)
- 3 Hp AP for wood (GMC00113)
- 3 Hp APD for plastic/aluminium (GMC00016)
- EUROFILTER 100 for wood/plastic/aluminium (GMC00017).



14. Cutting device small panels (GMC00269 – GMC00270)

The **cutting device for small panels** is recommended when it is necessary to cut very low panels. It is a MDF support that is inserted in a very simple way, directly on the metric rod and that creates a solid support in the space between the intermediate supports and the first blue PVC strips. The cutting device for small panels is supplied in two lengths: 50 cm (GMC00269) and 100 cm (GMC00270).



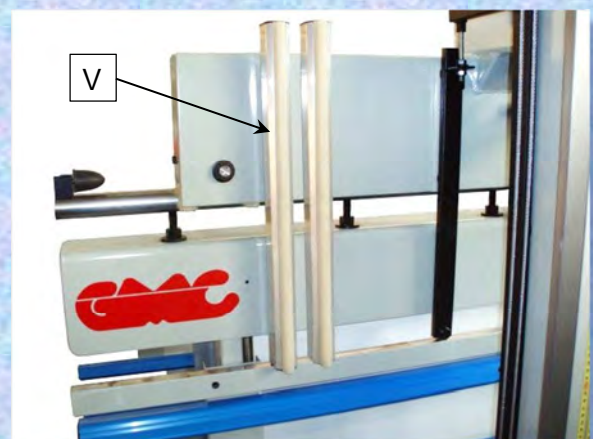
(GMC00269)



(GMC00270)

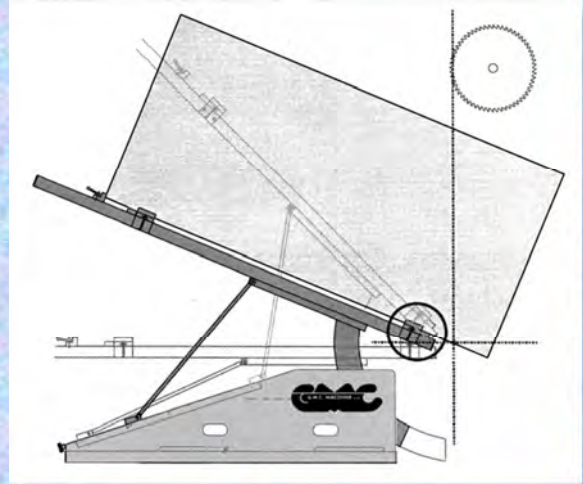
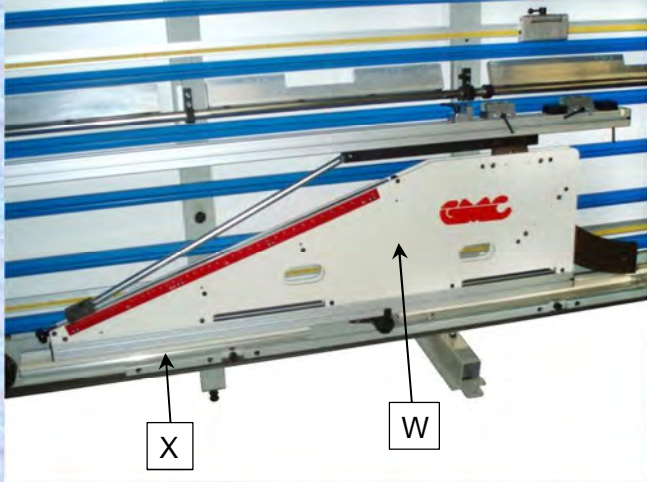
15. Cutting device for flexible panels (GMC00020)

The **cutting device for flexible panels (V)** is used when it is needed to cut very high and thin panels. This type of panels in fact tend to flex backwards, in the upper part of the machine, not finding the support of the crossbars; this makes the execution of both vertical and horizontal cuts more difficult. The device consists of two aluminum profiles, with rubber shockproof inserts, which are fixed to the carriage beam. The profiles bear the flexible panel in the upper part, preventing it from flexing backward during the cut.



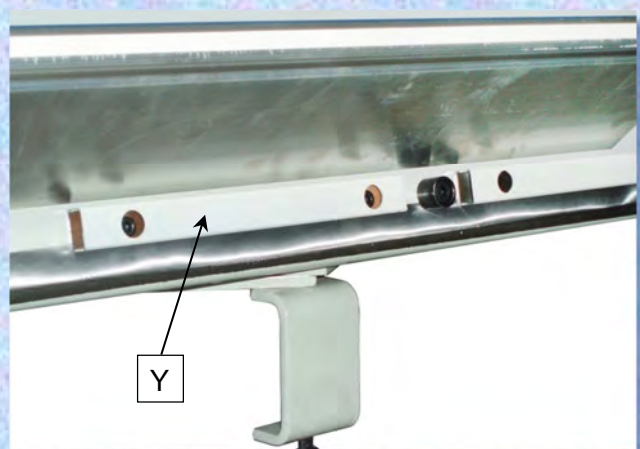
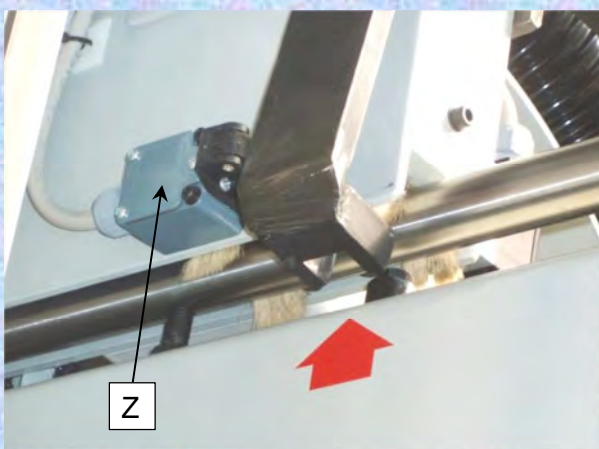
16. Angle cutting device “Angol II” (GMC00021)

The device “**Angol II**” (W) is used to perform angular cuts both vertically and horizontally. It is very simple and fast to fix it on the machine, relying on a pin that is threaded into a suitable hole formed on the lower supports (X). The use of the device is very easy and intuitive thanks to the quick locking systems and the reference metric rods.



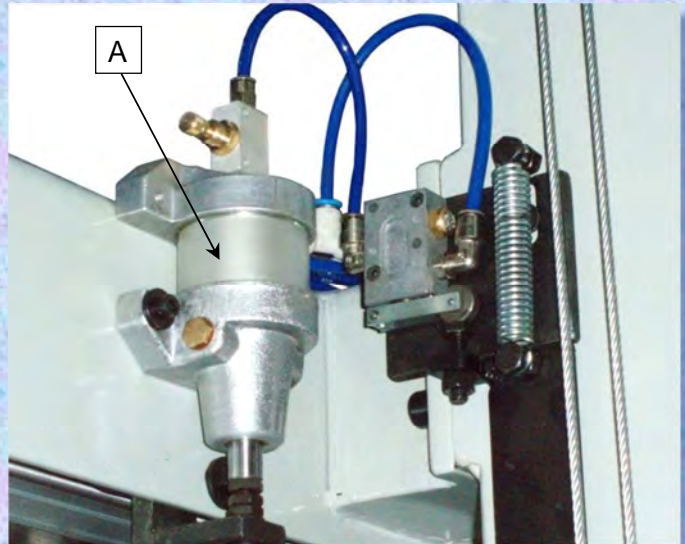
17. Beam locking with safety micro (GMC00022)

The **beam locking with safety micro** is a system that prevents the machine to perform vertical cuts if the beam is not perfectly inserted in one of the predetermined cutting positions. Steel pipes (Y), fixed in the lower part of the frame, prevent the insertion of the beam outside of the set cutting points, while the safety micro (Z), placed on the upper clutch, blocks the rotation of the blade if the clutch itself is not perfectly inserted. Consequently, it is impossible to make a cut with the beam out of position, or not perfectly inserted, avoiding all risks and damages resulting there from.



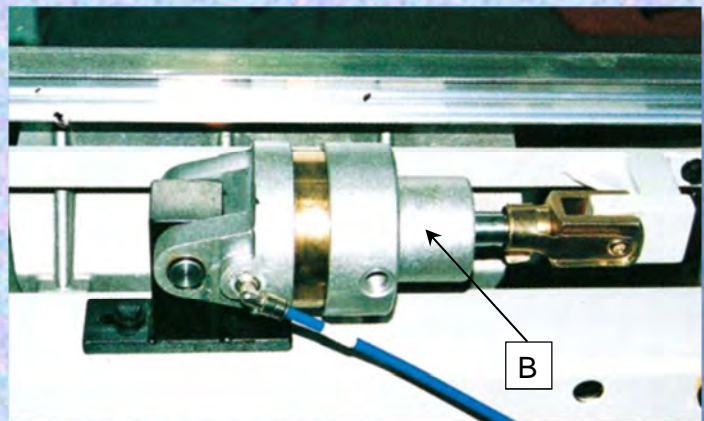
18. Application pneumatic attachment moving frame (GMC00023)

As standard the machine is supplied with the moving frame, automatic mechanically operated; if necessary it is possible to set up the panel saw with a **pneumatically-controlled frame**. This application consists of a pneumatic cylinder (A), fixed to the carriage beam, which automatically moves the frame during the horizontal cuts avoiding the blade to groove the PVC strips. This application is indicated for those machining operations requiring a fast and precise intervention of the frame movement.



19. Pneumatic lift of the rollers (GMC00024)

When it is needed to handle panels of large dimensions, therefore heavy, it is advisable to equip the machine with rollers for the sliding of the panels with **pneumatic lift**. It is a pneumatic cylinder (B), fixed in the rear part of the frame that, once activated by the operator, raises the rollers and keeps them in position. At a new command the cylinder will lower the rollers slowly to avoid damaging the panel in contact with the lower supports.



20. Low voltage plant (GMC00027)

As standard the machine is supplied with 400V three-phase motors and 110V auxiliary control circuit. For special security requirements it is possible to equip the machine with an **electrical plant for low voltage auxiliary controls (24V)**.

21. Motors: Single-phase (GMC00026), 6Hp (GMC00035), 2Speed (GMC00163)

As standard the machine is supplied with 400V three-phase motor (5200 rpm blade) with 4hp power, but it is possible to equip the machine with different motors depending on the working needs:

- **Single-phase motor (220V)** GMC00026
- **6Hp motor** GMC00035
- **2Speed motor (2600-5200 rpm blade)** GMC00163



22. Liquid crystal displays LCD for vertical cuts (GMC00031) and horizontal cuts (GMC00032)

The **liquid crystal displays LCD** are used to clearly and precisely display the coordinates of the X (horizontal) and Y (vertical) axis. The displays are also customized with specific software for our vertical panel saws, integrating some special functions such as: automatic calculation of the blade thickness in a series of horizontal cuts; possibility to reset the axis at a preset point; double measurement blade / grooving cutter; unit of measurement in millimeters or inches.



(GMC00031)

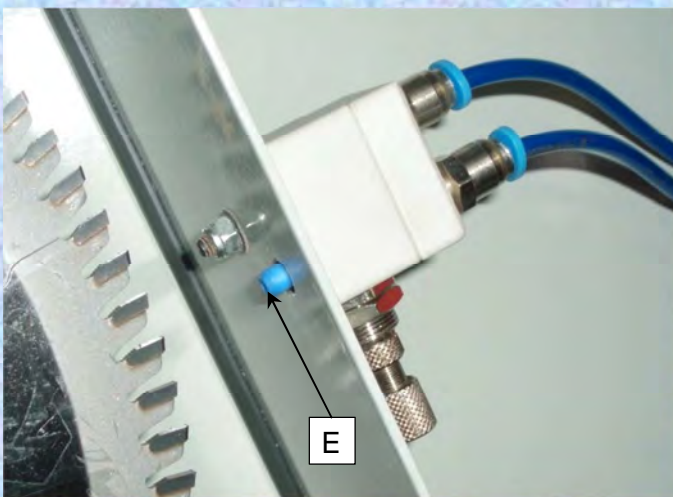


(GMC00032)

23. Cooler “Venturi” method (GMC00181)

The **cooler “Venturi” method** serves to cool and lubricate the blade during the cut; this is an adjustable nebulizer (E), mounted inside the casing close to the blade, that releases small quantities of refrigerant liquid contained in an external tank (F).

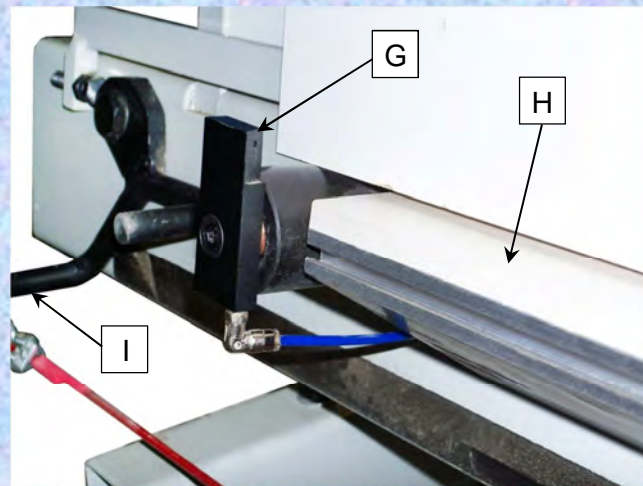
This device is used when cutting particularly hard materials, for which an excessive overheating of the cutting edges would compromise the life of the blade and the quality of the cut.



It is also indicated to prevent the blade from soaking during the cut of plastic materials, generally thicker than 40mm. The overheating of the blade, indeed, tends to melt the plastic material, which sticks to the cutting edge and makes the blade losing its cutting property, with a consequent loss of quality of the cut itself. The coolant used is a mixture of water and emulsifiable oil 3%.

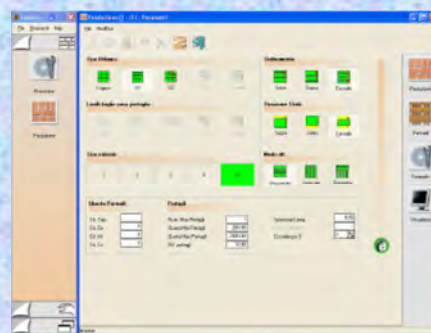
24. Cleaning device lower supports (GMC00300)

The **cleaning device lower supports** is only applicable in combination with the retractable rollers for the sliding of the panels. The device consists of a powerful air jet spilling out from the " anti-fall plate" (G) mounted on the rollers. This air jet cleans the lower supports (H) of the machine by working residues, and is automatically applied whenever the rollers are raised with the appropriate pedal (I).



25. Optimization software “Leonardo” (GMC00059 - GMC00060)

The software “Leonardo LT” (GMC00059) is used for optimizing the cutting plans, store cutted panels, manage scraps and stock of panels, gain control of the times, and therefore, production costs.

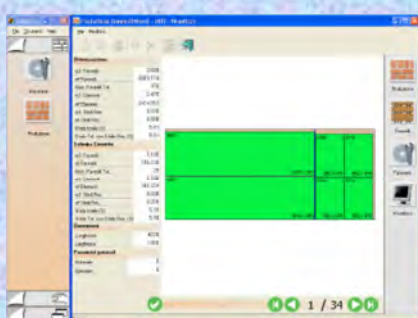


The “Leonardo LT” version contains:

- Multi-material / multi-thickness management
- Optimization of up to 200 types of pieces for each material
- Choice from 10 sizes of panels for each material
- Respect of the trim on the sheet
- Management of the thickness of the blade and the direction of the grain
- Display of the results
- Report of the total number of sheets, diagrams and work cycles
- Indication of the effective use of the material, both on the individual pattern and the entire optimization
- Print-out of the diagrams and the summary, which is useful for the supply of the material
- Execution of the economic verification taking into account the cost of the material and of the cuts
- Importing of cutting list or warehouse from Excel files format.
- Printing of labels also with bar codes

In the “Leonardo OEM” version (GMC00060) the optimizations can be carried out with the calculation of only three sizes of plates, one single type of precision and maximum 20 different types of pieces.

In both versions, the cutting plans can be displayed on the monitor or printed.



La più vasta gamma di sezionatrici verticali: manuali, semi automatiche, automatiche e con programmatore elettronico.

I dati tecnici rappresentano valori indicativi. La G.M.C. MACCHINE si riserva di apportare modifiche alle proprie macchine, in seguito ad ulteriori sviluppi e migliorie.

Le macchine illustrate possono comprendere parzialmente accessori a richiesta, che non appartengono alla fornitura standard delle macchine.

Extremely wide range of vertical panel saws: manual, semi-automatic, automatic and with electronic programmer.

The technical data are approximate.

G.M.C. Macchine reserves the right to make changes to its machines, following further development and improvements.

The machines illustrated may partially include optional accessories not supplied as standard.

La gamme la plus vaste de scies à panneaux verticales: manuelles, semi-automatiques, automatiques et avec ordinateur.

Les caractéristiques techniques sont des valeurs indicatives. La G.M.C. MACCHINE se réserve le droit d'apporter à ses machines, les modifications et à améliorations quelle jugera utiles.

Les machines illustrées peuvent comprendre partiellement des accessoires en option, qui ne sont donc pas compris dans la fourniture standard des machines.

Das umfassende Sortiment von Vertikalplattensägen: manuelle, halb-automatische, automatische und mit elektronischer Programmierereinheit.

Die technischen Daten stellen richtungweisende Werte dar. Die Firma G.M.C. MACCHINE behält sich das Recht vor, seine Maschinen, infolge von Weiterentwicklungen und Verbesserungen abzuändern. Einige der abgebildeten Maschinen können auf Wunsch erhältliche Zubehörteile umfassen, die nicht zur Standardlieferung der Maschinen gehören.

La mas amplia gama de seccionadoras verticales: manuales, semi-automáticas, automáticas y con programador electrónico.

Los datos técnicos representan valores indicativos. G.M.C. MACCHINE se reserva la aportación de modificaciones a las propias máquinas para obtener posteriores y mejoras.

Las máquinas ilustradas pueden incluir parcialmente accesorios sobre pedido, que no están incluidos en la dotación standard de las máquinas.

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