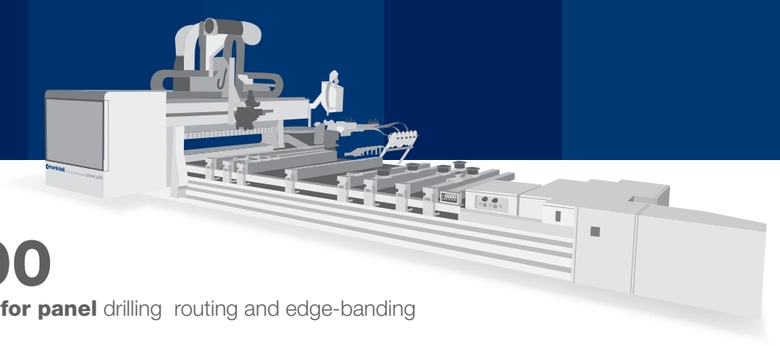
SCM GROUP SPA MORBIDELLI - via Casale 450 I 47826 Villa Verucchio, Rimini - Italy
tel. +39 0541 674111 - fax +39 0541 674235 -morbidelli@scmgroup.com - www.scmgroup.com

00L0234093L

REV. N. 00 - 04.2015 - MIC STUDIO - acanto

morbidelli



planet p800

Multifunctional machining **centre for panel** drilling routing and edge-banding

planet p800

Designing and building solutions to your requirements is in our DNA

You can customise your PLANET P800 to create an even better working experience. All accessories are designed to increase productivity and to be as easy as possible to use in all conditions.

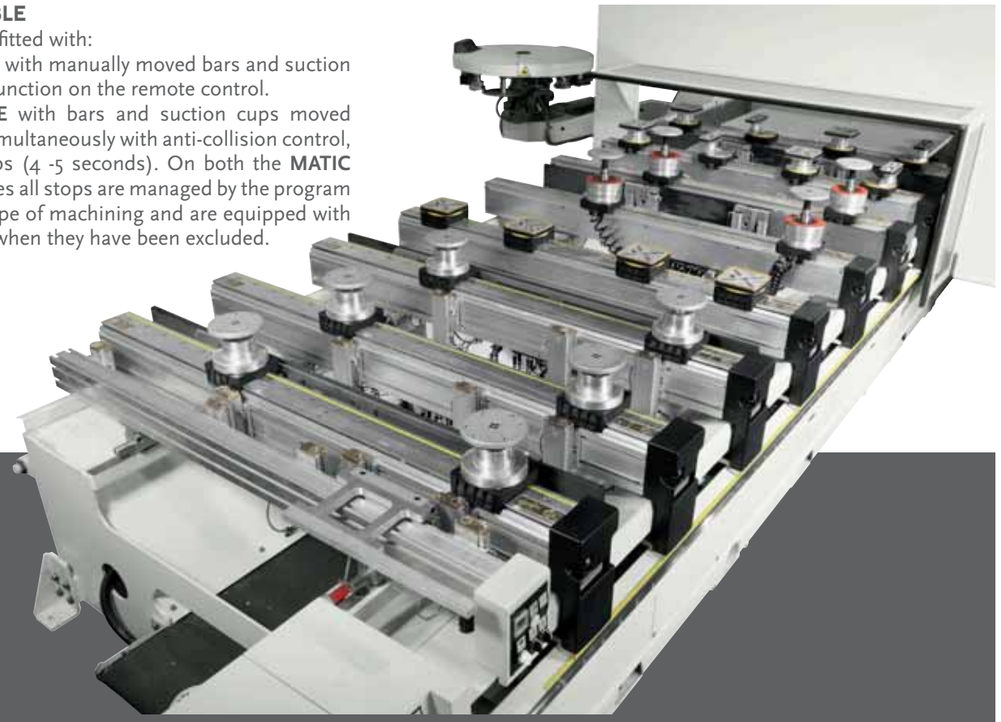
- **ZERO SET-UP TIME**
  when switching from one machining operation to the next with the NC worktable featuring a workpiece **automatic separation** software function. This means that you can machine **more panels with a single loading operation**, ideal for increasing productivity.
- **ZERO DEFECTS**
  with maximum absolute quality even for joins on “difficult” workpieces. The new “SBRINDLE” device reads the position of the edging “on-the-fly”.
- **ZERO DIFFICULTY**
  programming, even for less experienced operators, using **MAESTRO EDGE** the brand new software with which a single platform is used to carry out all types of machining.

sawing.
edge banding.
machining center.
sanding.

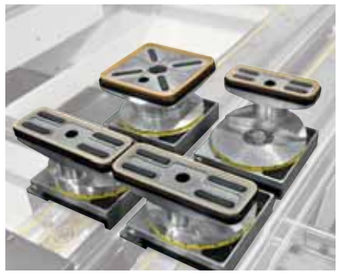
planet p800

Zero set-up time, between one machining operation and the next and maximum product and factory cleanness

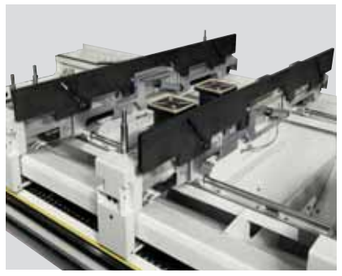
LARGE WORKTABLE
the machine can be fitted with:
START WORKTABLE with manually moved bars and suction cups and a display function on the remote control.
MATIC WORKTABLE with bars and suction cups moved automatically and simultaneously with anti-collision control, for super-fast set-ups (4 -5 seconds). On both the **MATIC** and **START** worktables all stops are managed by the program depending on the type of machining and are equipped with sensors that detect when they have been excluded.



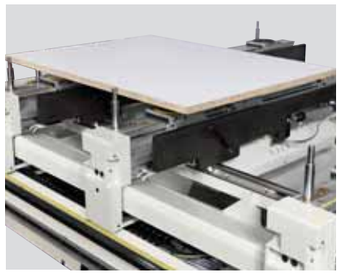
Wide choice of equipment for machining with mechanical hold-downs. Suction cups can easily be removed from the supports, leaving the operator great freedom to adapt the machining area to the shape of the panel. Workpiece hold-down is guaranteed not just by a vacuum, but also by suction cup mechanical locking.



A vast range of suction cups guarantees the best solution for perfect panel locking.



Loading aid devices fitted with sensors and with pneumatic lifting make heavy panel positioning on the worktable easy.



Collecting belt for carrying away machining waste and shavings.

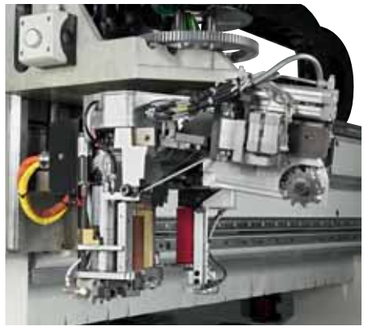
Shavings conveyor PLATE, for optimum cleanness in the machining area.

Optimised centralised suction reduces consumption and maximises performance.

planet p800

Zero defects from production, with absolute quality even for joins on “difficult” workpieces and maximum hold from gluing

The new edge banding unit with glue application directly on the edging **reduces the number of mechanical parts** needed to build it with a consequent increase in:
- flexible use on complex profiles thanks to the reduced overall dimensions
- total reliability of the gluing process because it is simpler.



A higher performance edge banding unit that allows the application of edging **up to 84 mm high** for panels **up to 80 mm thick**. The new “SBRINDLE” device can detect the position of the start of the edging on-the-fly”, allowing 0/360° joins on minimum stretches

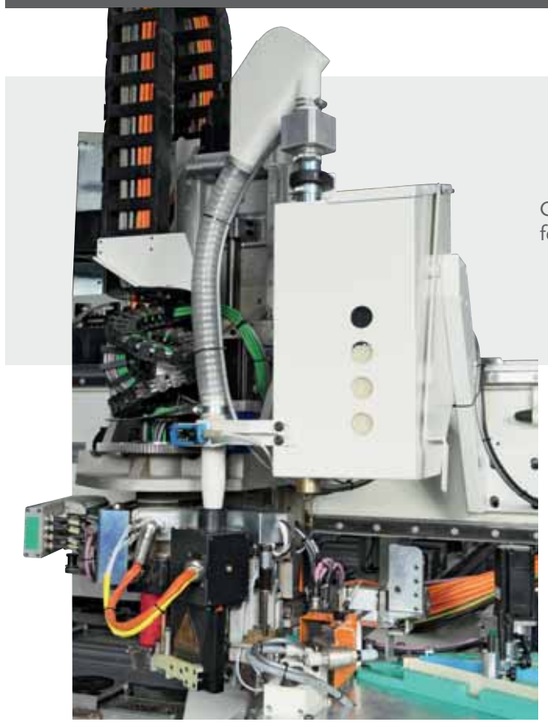
The **numerically controlled Z** axis allows adjustment of the lower projection of the edging relative to the worktable, for example for using dust seal edging.

Optimises the cycle time in edge banding operations with 0-360° join. The join can be made on stretches with constant geometry having a **minimum length of 80 mm.**

The edging magazine can hold **from 2 to 12 different types of edging so that it can always make available the one best suited to the machining set**. Selection, feeding and supply speed are managed by the numeric control.

Automatic adjustment of the edging vertical limiters allows maximum machining flexibility, working in rapid succession on panels with different thicknesses, particularly effective for batch 1 production.

The quick change glue tank has a unique design with **a spreading roller featuring a built-in heating element** to guarantee uniform gluing and lasting adhesive chemical properties for the best possible product performance. Fast change-overs allow preventive maintenance or a change of glue (colour or type), slashing down times.



Glue is loaded in masked times into the granule feed system fixed to the gluing unit.

planet p800

Zero finishing problems with powerful routing units

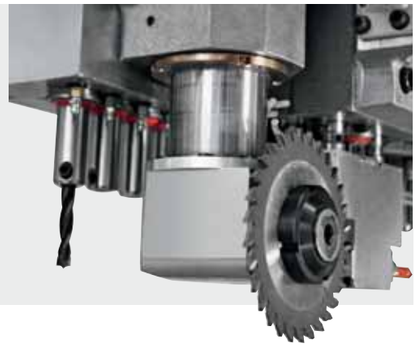
The high-tech 5-axis machining unit with 17 kW (S6) power rating can machine workpieces with complex geometric shapes, guaranteeing quality and precision.
C axis, continuous 0/360° and pneumatic devices for edging finishing heads.

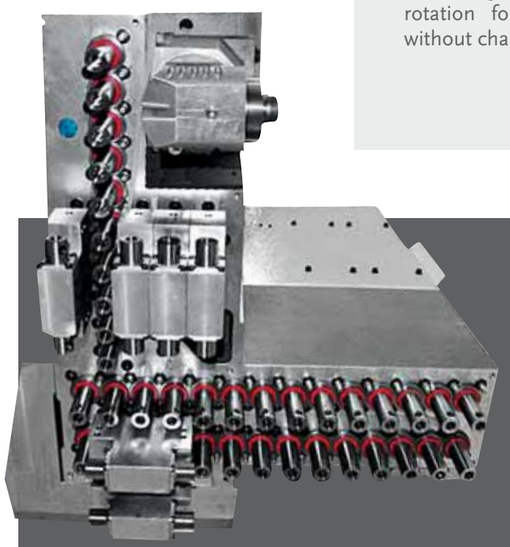
The 4-axis machining unit with 11 and 15 kW (S6) power ratings, mounted on a carriage independent from the boring unit, can perform all vertical routing functions using edging finishing heads. C axis continuous 0/360° and pneumatic devices for edging finishing heads.

Tool substitution is automatic and takes place in masked times, while the edge banding unit is operating. This is possible thanks to the 10 and 18 location tool magazines installed directly on the machine.

and flexibility, with the possibility of configuring the machine with different boring units

Blade unit integrated with the boring head, with 0-90° rotation for back cutting without changing tool.





Possibility of configuring the machine with different boring units with independent spindles, for a boring capacity that meets your requirements. The latest-generation ultra-rigid boring heads with RO.AX (Rotoaxial spindle technology) can be installed. They operate at 8000 rpm, with from 26 spindles up to a powerful head with 50 independent spindles. For heavy duty boring (sides of wardrobes, soundproofing panels, etc.) or for very diverse bit types and diameters.

3-axis electro-spindle, excellent for shaping panels or for anti-splinter machining on panels already edged, **avoiding a tool change on the main motor.**

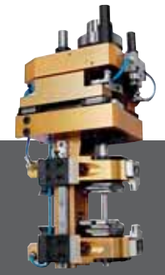
Blade unit with 0-360° independent rotation, ideal for panel sizing or **edging end trimming on-the-fly.**

PB1
PB1_ 3-axis electro-spindle with 6 location on-board tool changer. The definitive solution for the most diverse machining operations, guaranteeing **machining continuity** alternating with the main motor.

planet p800

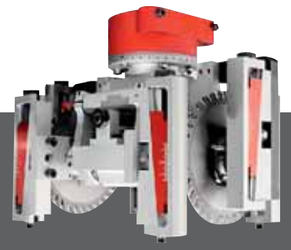
machining units

finishing heads and aggregates



Multifunction
trimmer + edge scraper unit

Blade unit for edging
end trimming



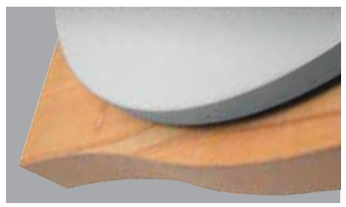
Rounding end
trimming unit

Head for cleaning 90° internal angles
(doors, kitchen tops, etc.)

Head for postformed
panels

Head for routing on
lower face

Edge trimming processing on wooden edge



Edging trimming.

Edge scraping.

Zero risks for the operator, who can always work in complete safety

Pressure mats let the machine operate at a constant top speed and guarantee total operator safety.

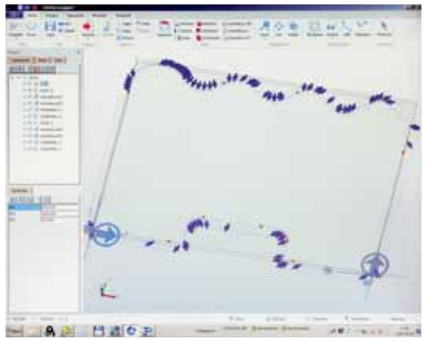
Overlapping layers of side safety slats protect the machining unit, able to move for completely safe top speed machining.

Maximum machining visibility.

The remote console gives the operator direct, immediate control

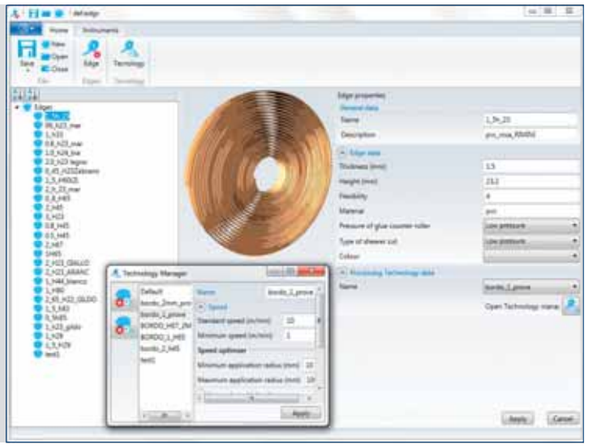
planet p800

Zero difficulty programming, even for less experienced operators

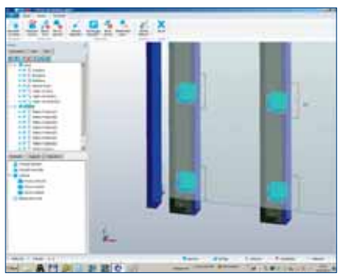
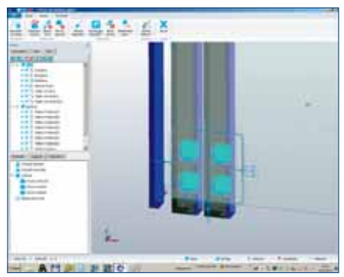
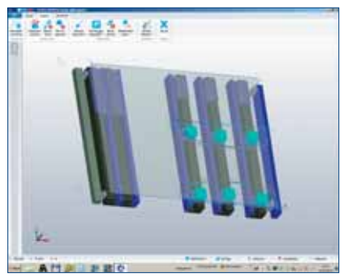
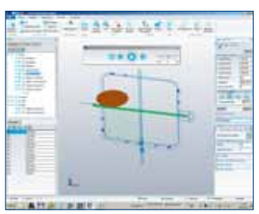
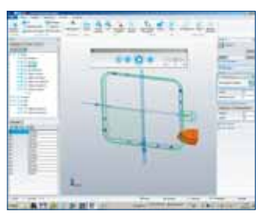
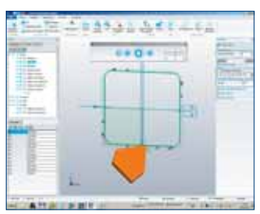
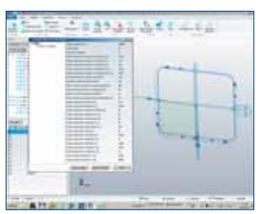


MAESTRO EDGE
The brand new 3D software with which a single platform is used to carry out all types of machining. Developed for PLANET P800, it even allows less expert operators **to very quickly create, edit and manage edge banding programs.**
A long list of functions for 360 degree panel machining includes **all features and performance for easy, intuitive and effective programming**.

EDGEMANAGER
The software module **ideal for working with a wide variety of edging strips**.
A database of technical information that is always available and can be imported directly into machining programs to **start production in zero time**.



You can see a preview of the workpiece and benefit from easy design guidance:

planet p800

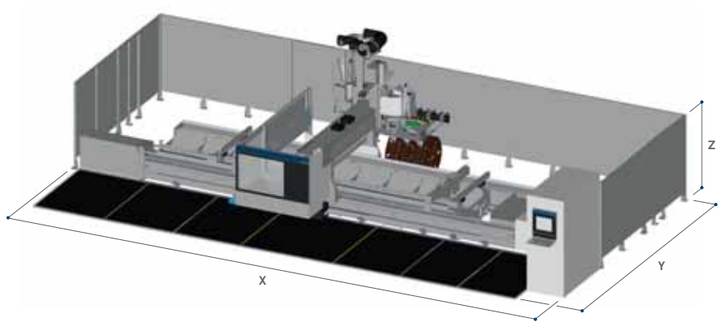
TECHNICAL DETAILS

PLANET P800 technical details

Machining area in X	mm	5020 - 6360
Machining area in Y	mm	1680 - 1830
Panel passage *	mm	80/220 with H110
Edging thickness	mm	0.5 - 3.0
Edging height	mm	15/84
Minimum internal radius for 90° angle **	mm	30
Minimum external radius for 90° angle **	mm	10
Edging magazine capacity	No.	2 Standard - 6 optional
5-axis electro-spindle power	kW	17
4-axis electro-spindle power	kW	11 - 15
Electro-spindle tool fitting		HSK63F
Rapid tool magazine capacity		18 (std) - 10 on board (opt)
Boring bits motor	kW	2,2
Boring bits revolutions	RPM	8000
Z1 axis stroke	mm	600
Z2 axis stroke		325
Movement speed in X	m/min	90
Movement speed in Y	m/min	90
Movement speed in Z	m/min	30
Installed power	kW	25/35
Compressed air pressure	bar	7
Electro-spindle extractor duct diameter	mm	250
Boring head extractor duct diameter	mm	100
Extraction air consumption	m3/h	5700
Total weight	kg	8000/10000

* The maximum thickness that can be machined depends on the thickness of the workpiece, the length of the tool used and the type of edging.
** The internal and external radii depend on the thickness and type of edging.

PLANET P800 layout



Machining Area		Overall Dimensions (mm)		
X	Y	X	Y	Z
5020	1680	**11425**	**5045**	**3000**
5020	1905	**11425**	**5275**	**3000**
6360	1680	**12765**	**5045**	**3000**
6360	1905	**12765**	**5275**	**3000**

gabbiani
stefani
morbidelli
scm
routech
celaschi
dmc
superfici
sergiani
mahros
cpc
scmgroup
engineering
scm
minimax

1 large integrated group
18 production sites
20 foreign branches
more than **60** years in business
80% exports
350 agents and dealers
360 registered patents
500 support technicians
3.000 square metres of showroom
10.000 classical and professional machines manufactured per year
240.000 square metres of production space

www.scmgroup.com

scmgroup

The technical specifications can vary based on the composition selected. For illustrative purposes certain photos show machines complete with accessories. The technical specifications can be changed without warning and the changes do not affect the safety required by the EC standards.

kiwa certified