



sigma

automatic horizontal panel beam saws.



scmsigma

Designed to be the very best solution on today's market.
High flexibility, advanced technology, reduced investment.

sigma p

sigma impact p

automatic panel beam saw
with loading platform.

- blade projection 110 mm

sigma prima p

automatic panel beam saw
with loading platform.

- blade projection 67 mm

sigma

sigma impact

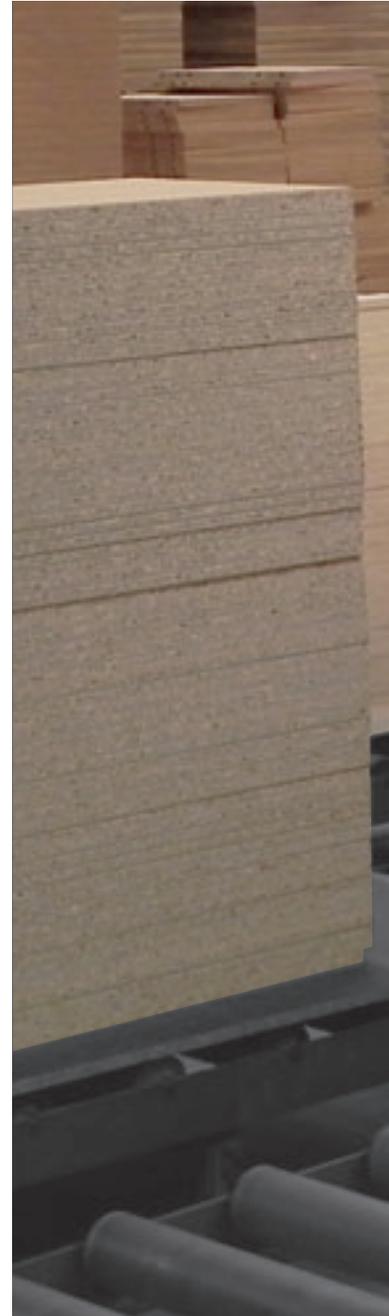
automatic horizontal panel beam saw.

- blade projection 90/110 mm

sigma prima

automatic horizontal panel beam saw.

- blade projection 50/67 mm



SIGMA IMPACT P
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sigma

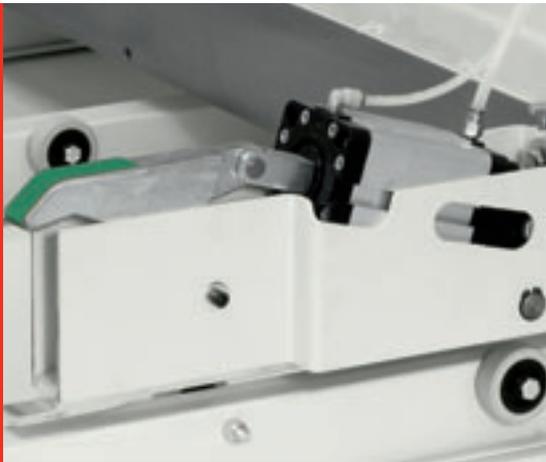
Exclusive features.



toptech

SELECTABLE AIR BLOWING TABLE: AN ESSENTIAL TOOL.

The possibility to enable / disable the air blowing feature on each table section via 4 independent motors, ensuring **optimal sliding of the panels only where it is needed** and avoids accidental falling of cut panels temporarily stored on the tables. This solution also provides energy saving.



toptech

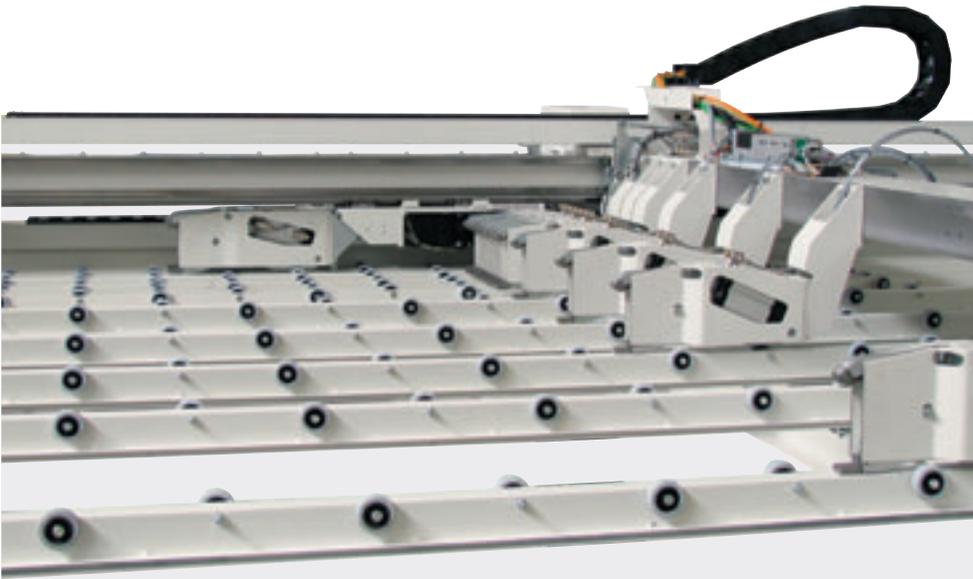
FLOATING CLAMPS: THE GUARANTEE OF THE END RESULT.

The special shape of the clamps gently grips the panels giving the **grip at the maximum speed** and also perfect parallelism when panels are not perfectly planar.

OVERHEAD SIDE PROTECTIONS: MORE SPACE FOR THE WOODWORKING WORKSHOP.

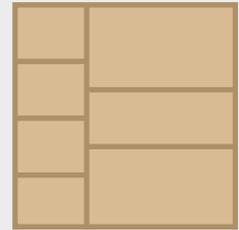
The shape of the protections allows operators to use the **large space under the rear of the machine** as storage space for additional panels.



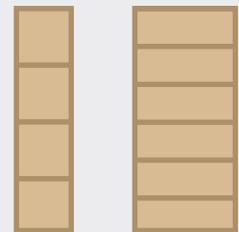


FLEXCUT/1 UNIT: CUT MORE PANELS FASTER.

Two independent pushers allow to carry out 2 side-by-side bar with differentiated cuts (fig.1) or cross and longitudinal cuts (fig.2) simultaneously with a **productivity increase by up to a 30%**.



(fig. 1)



(fig. 2)



"HIGH SPEED" DEVICE: ABSOLUTE SPEED.

High productivity due to:

- axes speed up to 150 m/min on the beam saw carriage and 120 m/min on the pusher
- optimised logic of cutting cycles on the carriage, pressure beam and pusher groups

DRIVE BY RACK: FINISH QUALITY AND LONG-LIFE PERFORMANCE.

The drive by rack, typical feature of industrial machines, ensures a **smooth and precise movement without necessity of maintenance.**



sigma impact p

Advanced technological solutions for a perfect quality of cut.



SIGMA		IMPACT P
Cutting length	mm	3200 - 3800 - 4500
Cutting depth on platform	mm	1850 - 2200
Max. height of panel stack on platform with support beams	mm	600
Blade projection	mm	110
Saw carriage variable speed (opt.)	m/min	0 - 80 (0/135 - 0/150)
Pusher variable speed (opt.)	m/min	0 - 50 (0/70 - 0/90)
Main blade motor S6 -40% (opt.)	kW	9 (11 - 15 - 18)
Scoring unit blade motor 50 Hz	kW	1,5
Main blade / scorer speed 50 Hz	rpm	3900 / 6300
Main blade / scorer blade diameter	mm	400 / 160
No. of clamps for transversal cuts / with side aligner	std	3 / 3

sigma impact

The very best solution for all cutting requirements, flexible and fully customizable.



SIGMA		IMPACT 90	IMPACT 110
Cutting length	mm	3200 - 3800 - 4500	3200 - 3800 - 4500
Cutting depth on platform	mm	90	110
Saw carriage variable speed (opt.)	m/min	6 - 30 (6/60 - 0/135 - 0/150)	6 - 30 (6/60 - 0/135 - 0/150)
Pusher variable speed (opt.)	m/min	0 - 27 (0/70 - 0/90)	0 - 38 (0/70 - 0/90)
Main blade motor S6 -40% (opt.)	kW	5,5 (7,5 - 11 - 15)	7,5 (11 - 15 - 18)
Scoring unit blade motor 50 Hz	kW	1,5	1,5
Main blade / scorer speed 50 Hz	rpm	3900 / 6300	3900 / 6300
Main blade / scorer blade diameter	mm	380 / 160	400 / 160
No. of clamps	std	5	6

sigma impact

Structure
and customization.



THE BASE: THE VERY BEST RESULTS ARE GUARANTEED.

Solid and compact machine base ensures **precise carriage movements** by providing maximum **cutting quality** for many years.

HIGH TECHNOLOGY.

The structure quality, together with the possibility of utilising prismatic guides, **improves and facilitates the sliding** of the saw carriage(opt.) during the cutting phase and provides enhanced performance.



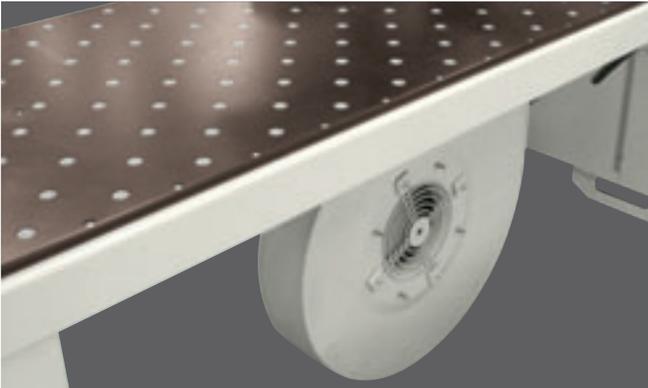
PRISMATIC GUIDES FOR THE PUSHER: SILENT AND EFFICIENT.

The use of prismatic guides with recirculating ball bushings on the sliding of the pusher reduces friction and material wear so guaranteeing the best working quality and speed (opt.).



AIR BLOWING ALSO ON THE MACHINE TABLE.

The sliding of heavy or delicate materials is achieved through the air blowing on the cutting table that **protects against the risks of friction.**



HIGH EFFICIENCY WORK TABLE: OPTIMAL PANEL SLIDING IN ALL WORKING CONDITIONS.

The high number of air cushion outlets together with a fan with increased motor power ensures a constant and **effective ease of movement** of panel stacks of every type and weight (opt.).



AUTOMATIC SIDE ALIGNMENT DEVICE: THE BEST PRECISION FOR CROSS CUTTING.

The availability of many versions with pneumatic or powered movement with strokes up to 2200 mm allows satisfaction of all types of panel, equal and repeated cuts and soft materials. Therefore the **cut precision** and **time-saving** is always **guaranteed.**

sigma impact

Structure and customization.

toptech

LOADING PLATFORM: WHEN STURDINESS AND PRECISION MAKE THE DIFFERENCE.

The lifting system, running on 4 large trapezoidal screws, as well as to maximize the load capacity in any material and format, always ensures **parallel lifting** of the stacks of panels avoiding downtime and achieving **maximum productivity**.

impact p



600 mm (800 mm opt.)
max. panel stack height



PLATFORM WITH ROLLER CONVEYOR: SPACE IS NO LONGER A PROBLEM.

High customisation and maximum versatility according to the user's requirements.

The platform with powered roller conveyor with bilateral loading allows movement of panel stacks in space not available when loading panels from the machine's rear side (opt.).

impact p

MAGNETIC BAND: A PRECISE CUT IS ALWAYS GUARANTEED.

A very high precision pusher at high speed due to electronic control positioning (opt.).





**DIFFERENT PRESSURES:
THE BEST RESULT FOR ZERO
SET-UP TIMES.**

Very fast work changeover due to the possibility of presetting. The automatic and independent management of the pressure beam, clamps and side alignment device according to the type of material to be cut allows **perfect machining** both on soft and deformable panels and also on hard ones (opt.).

sigma impact

Devices for cut customization.



option

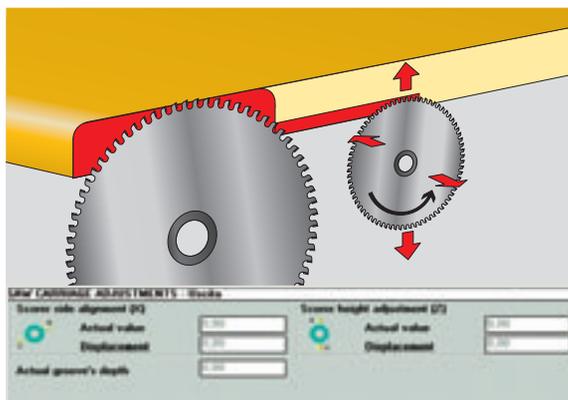
RAPID BLADES LOCKING/UNLOCKING: MACHINING SAFETY IN A REDUCED TIME.

This system provides safe and constant blades locking and unlocking due to the pneumatic system and it minimises the stand-by times for blade changeovers. The use of the selector (option) makes the operation even easier and immediate.



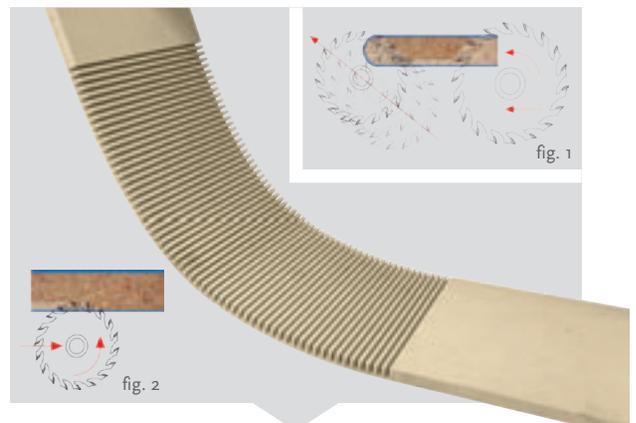
OPTIMISED BLADE HEIGHT: FOR A CUT WITHOUT COMPROMISE.

The automatic adjustment of the main blade projection, together with the presser lifting according to the panel thickness to be cut always gives an **optimum cut quality** and **reduces the machine cycle time** (opt.).



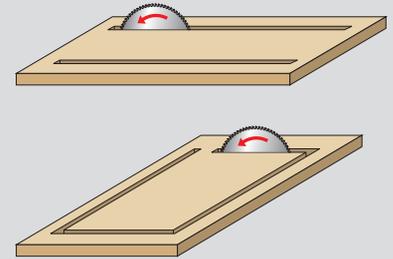
SCORING UNIT ELECTRONIC ADJUSTMENT: TECHNOLOGY FOR A REAL SUPPORT.

The setting from the PC allows the management of a powered system for the scoring unit automatic positioning by drastically reducing the blade set-up time and avoiding any possible errors (opt.).



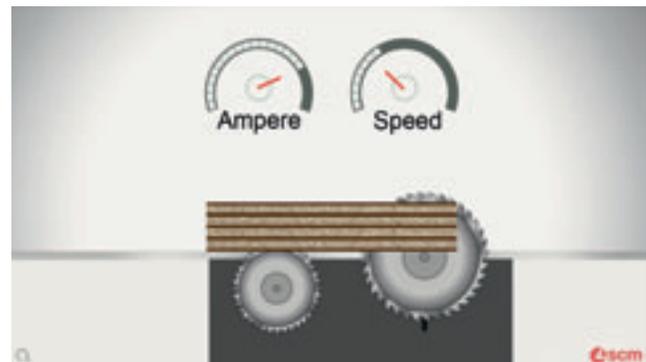
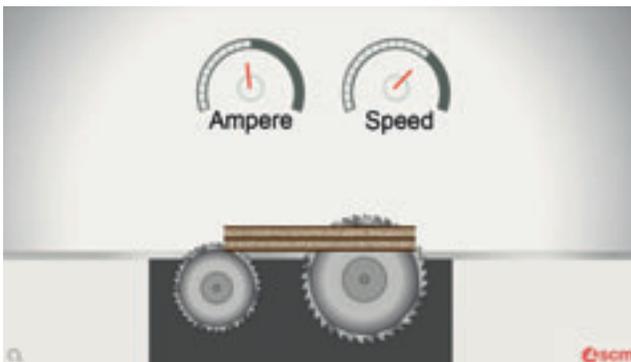
POSTFORMING AND GROOVING EXECUTION: PRODUCTION AND FLEXIBILITY.

Postforming unit (fig. 1) and grooving (fig. 2) allows machine **customisation** and makes the **machine** more productive and versatile (opt.).



SLOTS EXECUTION DEVICE: AT THE OPERATOR'S SERVICE.

This particular device allows the carrying out of interrupted cuts inside the panel for producing, for example, slotted doors (opt.).



ADAPTIVE CONTROL OF THE SAW CARRIAGE SPEED: SAFE WORKING.

The automatic monitoring of energy absorption of the motor according to the thickness/type of material and the type of the blade used gives the best results and avoids errors and wastage (opt.).



AUTOMATIC WORKPIECE MEASUREMENT: NO POSSIBILITY OF ERRORS.

The device automatically detects both the panel size and its position on the work table avoiding difficult manual operations in case of very long panels and slowing down in the production cycle (opt.).

sigma prima p

At the “pinnacle” of technology but with a reduced price.



SIGMA		PRIMA P
Cutting length	mm	3300 - 3800 - 4300
Cutting depth on platform	mm	1850 - 2200
Max. height of panel stack on platform with support beams	mm	600
Blade projection	mm	67
Saw carriage variable speed (opt.)	m/min	0 - 80 (0/100)
Pusher variable speed (opt.)	m/min	0 - 50 (0/70)
Main blade motor S6 -40% (opt.)	kW	7 (9)
Scoring unit blade motor 50 Hz	kW	1,3
Main blade / scorer speed 50 Hz	rpm	4600 / 6300
Main blade / scorer blade diameter	mm	320 / 160
No. of clamps	std	5

sigma prima

Scm quality, ease-of-use and reliability within every users reach.



SIGMA		PRIMA 50	PRIMA 67
Cutting length	mm	3300 - 3800 - 4300	3300 - 3800 - 4300
Cutting depth on platform	mm	50	67
Saw carriage variable speed (opt.)	m/min	6 - 30 (6/60 - 0/100)	6 - 30 (6/60 - 0/100)
Pusher variable speed (opt.)	m/min	0 - 24 (0/38 - 0/70)	0 - 24 (0/38 - 0/70)
Main blade motor S6 -40% (opt.)	kW	5,5 (7,5)	5,5 (7,5)
Scoring unit blade motor 50 Hz	kW	1,3	1,3
Main blade / scorer speed 50 Hz	rpm	4600 / 6300	4600 / 6300
Main blade / scorer blade diameter	mm	300 / 160	320 / 160
No. of clamps	std	5	5

sigma prima

Structure and customization.



BASE AND SAW CARRIAGE GUIDES: GUARANTEED CUT QUALITY.

Parallelism and absolute perpendicularity of the guides on which the carriage runs is guaranteed by machining of the entire machine base on cnc machines. The ideal solution gives a **cut that is always perpendicular and perfect.**

SAW CARRIAGE: GREAT RELIABILITY.

Long-life high performance and quality due to the use of prismatic guideways with recirculating ball bushings for the raising of the saw carriage unit.



AUTOMATIC SIDE ALIGNMENT DEVICE: THE BEST PRECISION FOR CROSS CUTTING.

Device sliding on prismatic guideways with recirculating ball bushings always ensures **precision** on cross cuts and ensures **reduced cutting times.**

HIGH EFFICIENCY WORK TABLE: OPTIMAL PANEL SLIDING IN ALL WORKING CONDITIONS.

The high number of air cushion outlets together with a fan with increased motor power ensures a constant and **effective ease of movement** of panel stacks of every type and weight (opt.).



Structure and customization.

toptech

LOADING PLATFORM: WHEN STURDINESS AND PRECISION MAKE THE DIFFERENCE.

The lifting system, running on 4 large trapezoidal screws, as well as to maximize the load capacity in any material and format, always ensures **parallel lifting** of the stacks of panels avoiding downtime and achieving **maximum productivity**.

prima p



600 mm (800 mm opt.)
max. panel stack height



PLATFORM WITH ROLLER CONVEYOR: SPACE IS NO LONGER A PROBLEM.

High customisation and maximum versatility according to the user's requirements.

The platform with powered roller conveyor with bilateral loading allows movement of panel stacks in space not available when loading panels from the machine's rear side (opt.).

prima p

MAGNETIC BAND: A PRECISE CUT IS ALWAYS GUARANTEED.

A very high precision pusher at high speed due to electronic control positioning (opt.).



sigma prima

Cutting devices.

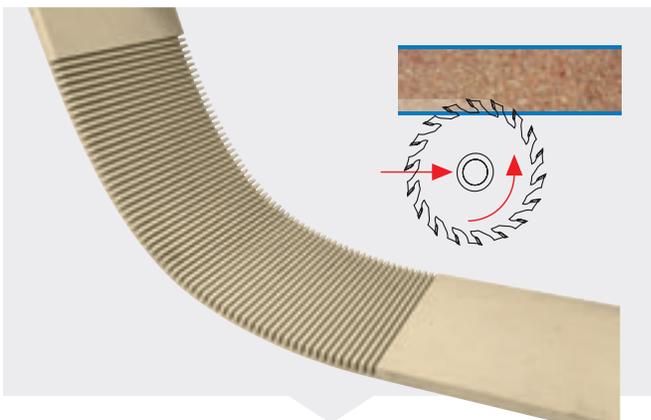


RAPID BLADES LOCKING/UNLOCKING: MACHINING SAFETY IN A REDUCED TIME.

This system provides safe and constant blades locking and unlocking due to the pneumatic system and it minimises the stand-by times for blade changeovers.

SLOTTED PRESSURE BEAM: THE BEST ANSWER TO YOUR CUTTING REQUIREMENTS.

Special openings in the pressure beam eliminates all interference with the clamps and greatly reduces waste.



GROOVE EXECUTION: CUSTOMISATION.

This application makes the Sigma Prima even more flexible (opt.).



"HIGH SPEED" DEVICE: ABSOLUTE SPEED.

High productivity due to:

- axes speed up to 100 m/min on the beam saw carriage and 70 m/min on the pusher (opt.)

Accessories.

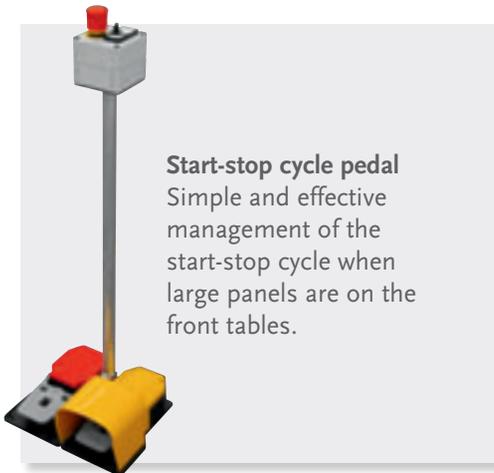


LABEL PRINTER

Integrated in the machine control system, it allows the printing of labels which enables panel "identification" later to carry out all of the information required for any following machines (by edge banders, boring and routing machines, etc).



Automatic centralised lubrication
managed by the control.



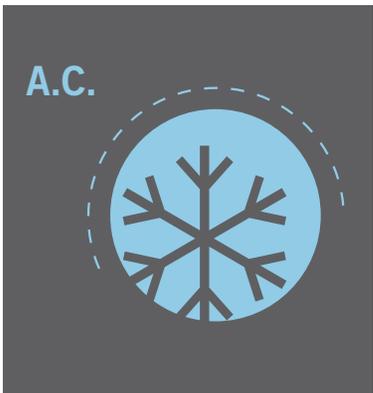
Start-stop cycle pedal
Simple and effective management of the start-stop cycle when large panels are on the front tables.



Additional clamps
The clamps ensure a perfect panel stack hold-down at any pusher speed.



Telesolve
Teleservice system to connect the machine's PC to the service department by means of the internet.



Electrical cabinet
with air conditioner which maintains the temperature at around 18°C.



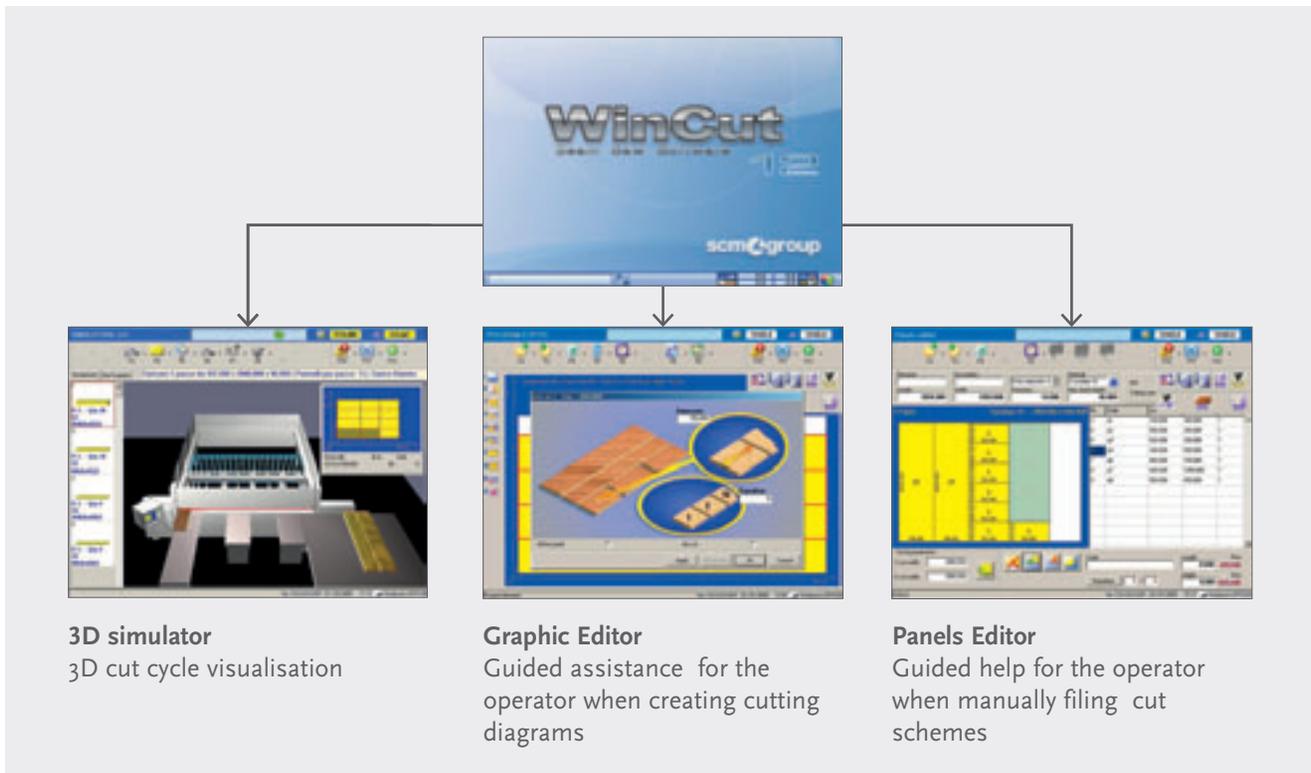
Lower consumption = lower costs = more competitiveness
SavEnergy allows the use of power only when it is required, making things operate only when they are really necessary. It means the machine automatically enters "stand-by" mode when there are no panels to be machined at any particular time (year saving up to 20%).

sigmasoftware

Simply-pro: pro-ject, pro-gramming and pro-duction becomes simple and straightforward!



SCM SOFTWARE FOR THE BEST CUT MANAGEMENT





WINCUT: WORKING MADE EASY.

Complete management of the beam saw, easily and intuitively, through the use of graphic functions including:

- report of the total production
- diagnostics
- materials management and related processing parameters

SCM SOFTWARE FOR THE BEST CUT OPTIMISATION

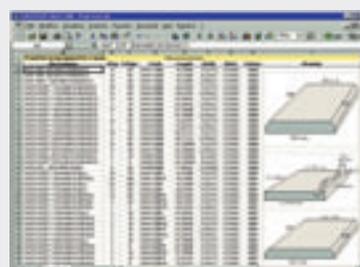
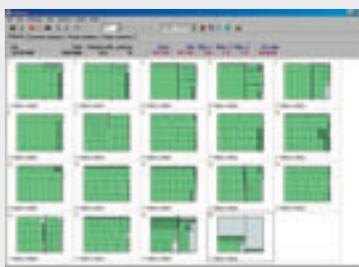
Material	Length	Width	Cost	Available	Stock	Exp. Stock	Exp. Date
1	2700,000	1000,000	0,000	1000	0	Exp. Stock	2010-12-31
2	2700,000	1000,000	0,000	1000	0	Exp. Stock	2010-12-31

CUTTY

Onboard machine. Easy-to-use and immediate software with guided help for the operator when entering and creating cutting schemes.

CUTTY OFFICE (option)

Directly from the office it creates optimised cutting diagrams for the machine programs.

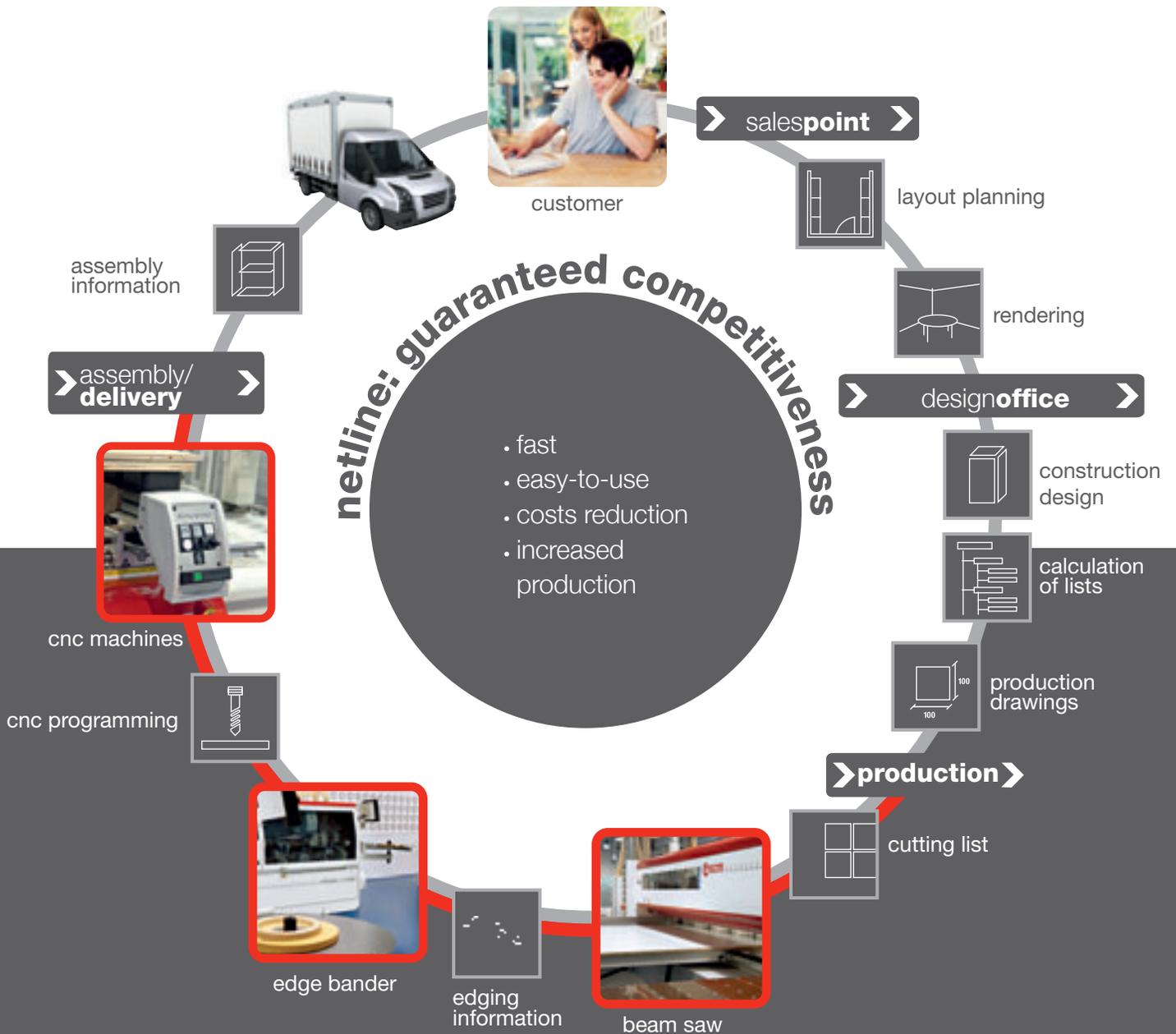


OTTIMO PERFECT CUT TOP (opt.) + EASY CUT

for the creation of advanced diagrams. **Powerful** software package which **makes production easier** and **manages material stocks and costs.**

scmnetline

Guaranteed competitiveness!



netline: integrated processing advantages

- **Fast:** very high execution speed and production time reduced to a minimum
- **Easy-to-use:** does not require skilled operators
- **Costs reduction:** a few minutes from design to production
- **Increased productivity:** the software-machine integration sets to zero the programming time due to the automatic and immediate switching of information from design to production

OUR SOFTWARE PARTNERS

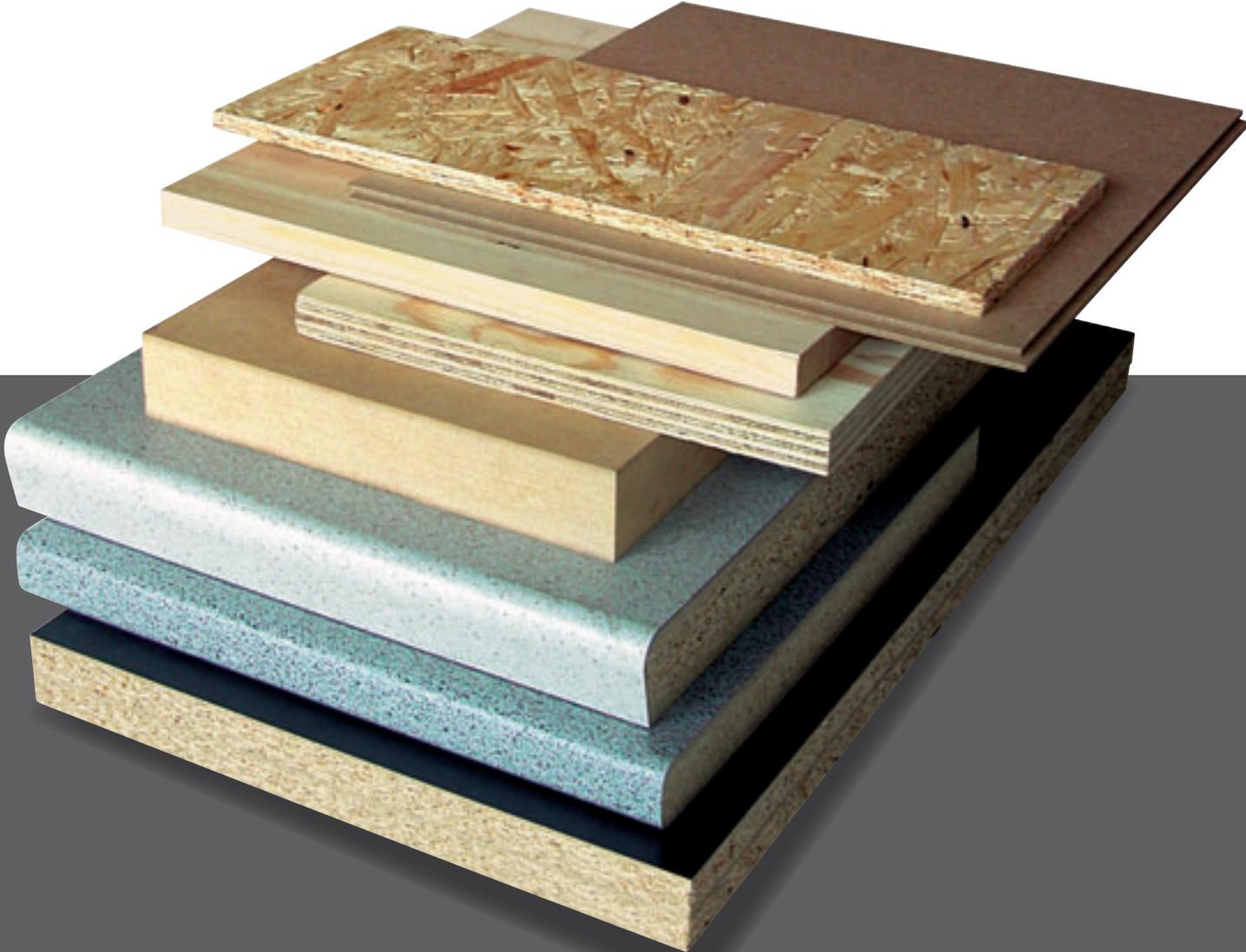
YOURCAD imos Italia

Delcam

alphacam

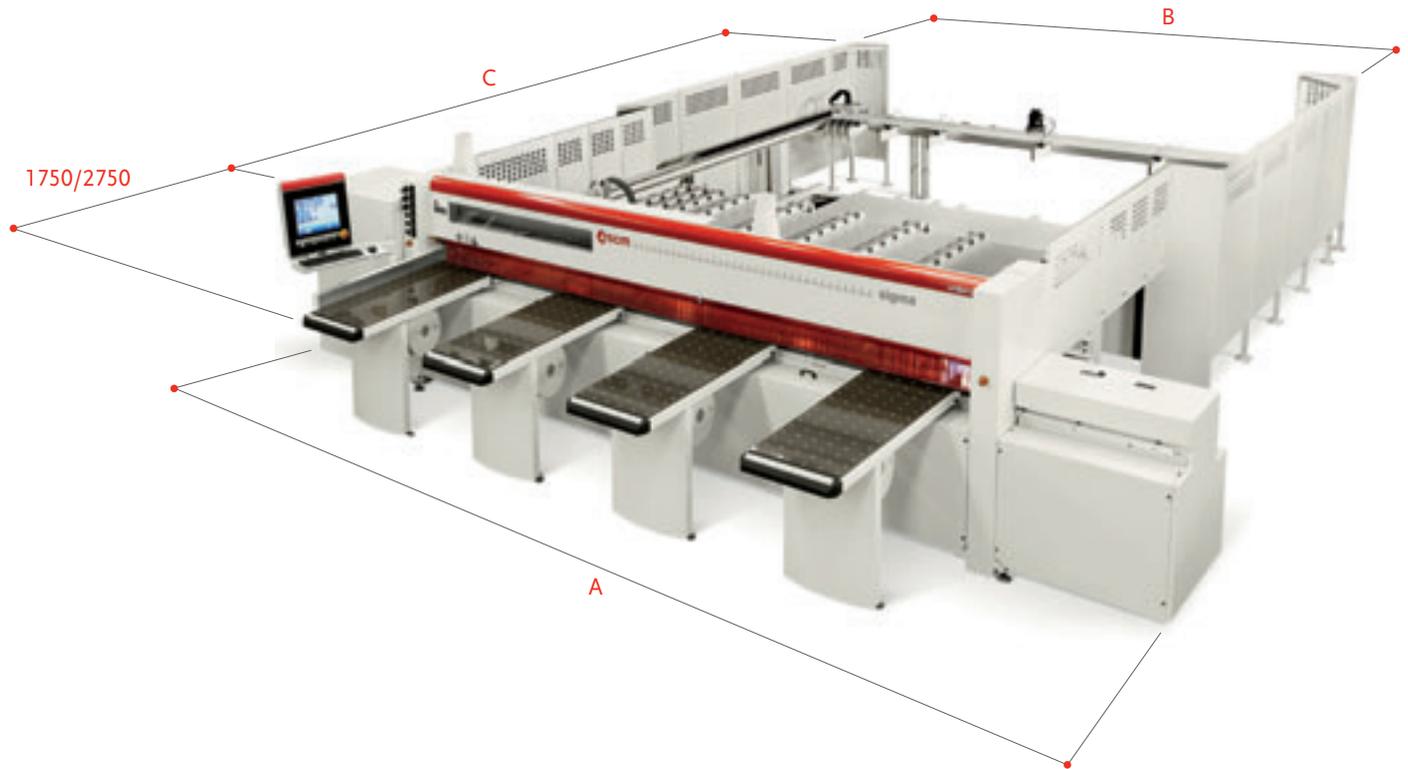
ATool

SPAI Software Solutions



sigma

Overall dimensions.

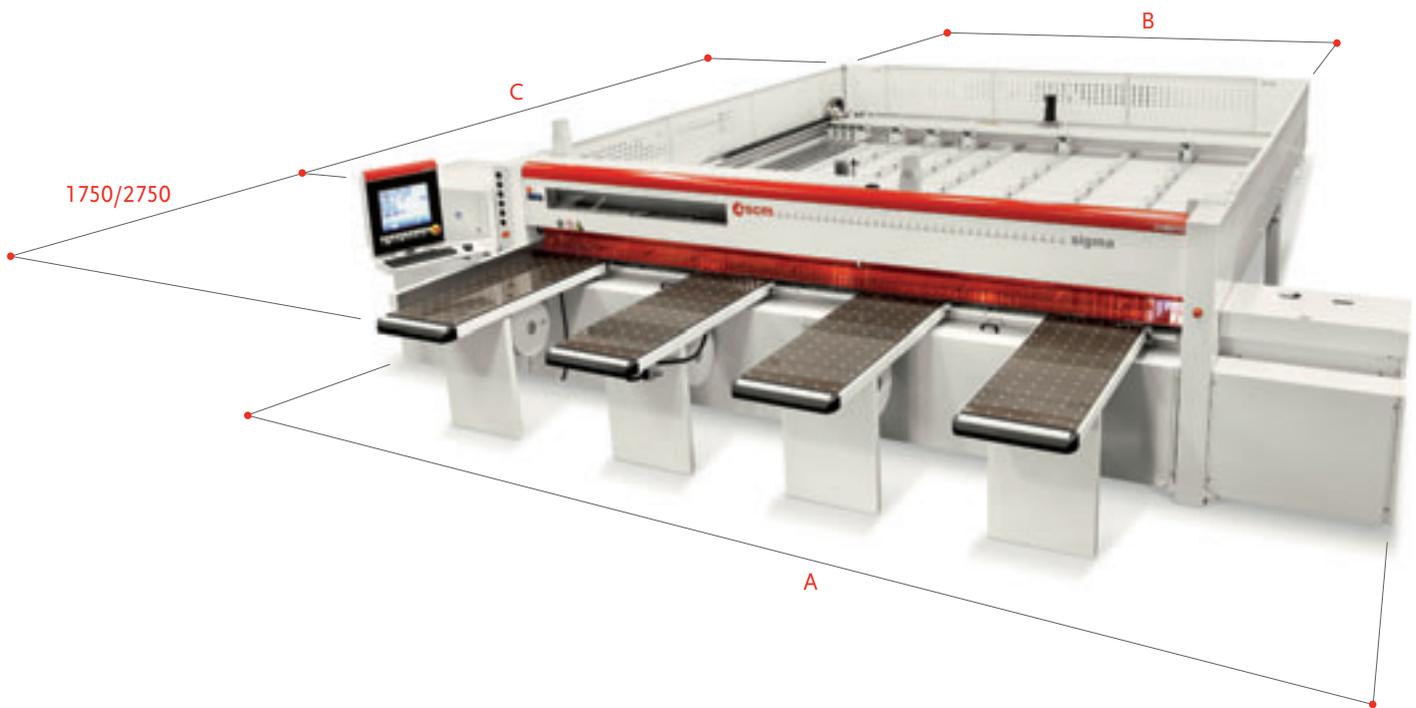


SIGMA IMPACT 110 P

Cutting dimensions	A	B	C
3200 x 1850	5700	4450	6750
3200 x 2200	5700	4450	7100
3800 x 1850	6350	5050	6750
3800 x 2200	6350	5050	7100
4500 x 2200	7100	5750	7100

SIGMA PRIMA 67 P

Cutting dimensions	A	B	C
3300 x 1850	5400	4450	6550
3300 x 2200	5400	4450	7100
3800 x 1850	5900	5000	6550
3800 x 2200	5900	5000	7100
4300 x 2200	6400	5450	7100



SIGMA IMPACT 90/110

Cutting dimensions	A	B	C
3200 x 2100	5700	3700	3250
3200 x 3200	5700	3700	4350
3800 x 3200	6350	4300	4350
3800 x 3800	6350	4300	4900
4500 x 3200	7100	5000	4350
4500 x 4300	7100	5000	5450

SIGMA IMPACT 50/67

Cutting dimensions	A	B	C
3300 x 2100	5400	3700	3200
3300 x 3200	5400	3700	4260
3800 x 3200	5900	4200	4260
3800 x 3800	5900	4200	4860
4300 x 3200	6400	4700	4260
4300 x 4300	6400	4700	5360

Noise level according to the reference standard **EN ISO 11202:2010** and **EN ISO 3746:2010**

The technical data can vary according to the requested machine composition. In this catalogue, machines are shown with options. The company reserves the right to modify technical specifications without prior notice; the modifications do not influence the safety foreseen by the CE Norms.

SINCERT



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mahros
stefani
cpc
sag
scmgroup
delmac
scmfonderie
steelmec
hiteco
es
csr
CMS Cms
wood technology
CMS Cms
advanced materials technology
CMS Brembana
stone technology
CMS Brembana
glass technology
CMS CmsPlast
plastic technology
CMS Tecnocut
waterjet technology
CMS Balestrini

1 large integrated group
18 production sites
27 specialist brands
20 foreign branches
more than 50 years in business
80% exports
350 agents and distributors
390 registered patents
500 engineers
3.000 square metres showroom
10.000 classical and professional
machines manufactured per year
240.000 square metres
of production space



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the best global partner that is very close to woodworking companies.





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