

class *range*

classical machines for the advanced joinery



All “Made in SCM Italy”

From casting iron to finished product.

Come see our production plants and touch the quality of SCM machines;
you will be our guest.





APP Thundercut

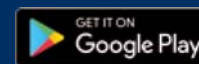
Technology at your fingertips

SCM Thundercut is the Optimizer/Sequencer App for mobile devices that allows to optimize the panel surface and guides the operator through the cutting sequence.

High cut speed execution, less material waste and mistake odds minimized, even for not skilled workers!

Download it now from the AppStore and Google Play:

SCM Thundercut



You can manage your circular saws fleet, the material warehouse and many project you are working on.



The 3D sequencer, thanks to its simple and clear design, suggest the ideal settings of the machine for every single cut to be executed.



The App is available for circular saws, circular saws with movable blade unit, saw-shaper combination machines and universal combination machines (you will find the QR code to activate the App in each new machine).





SCM CLASSICAL MACHINES, QUALITY EVEN MORE GUARANTEED

Since 1952, SCM has been leader in the design and production of woodworking machines.

We are getting closer to reach 70 years of company history by offering to our customers knowledge and advanced technologies that distinguish **L'invincibile**, **class** and **nova** classical machines. Different ranges united by the strength points: performance, ease-of-use and certified quality. We believe so much in the reliability of our machines to offer to our customers the possibility to have a **warranty extended up to 2 years***. An extra peace of mind for small artisans workshops and joineries who see SCM as the ideal partner to grow their business.

To activate the 2-year warranty extension, it is compulsory to register on-line the machine on the website:

scmwood.com/warranty-extension

*Check the models of machines that can take advantage of the initiative on the website:

scmwood.com/joinery-machines



scm
woodworking technology



programmable circular saws class si x class si 550ep class si 400ep



±46° double tilting blade.



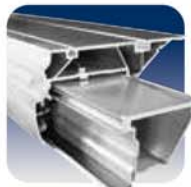
		class si x	class si 550ep	class si 400ep
Max. saw blade diameter	mm	550	550*	400
Max. saw blade diameter with installed scoring unit	mm	450**	-	400
Max. saw blade projection from the table at 90°/+45°/-45°	mm	200/130/105	200/130/-	140/97/-
Saw blade rotating speed	rpm	3000 ÷ 5000	2500/3500/5000	3000/4000/5000
Squaring stroke	mm	2200 ÷ 3800	2200 ÷ 3800	2200 ÷ 3800
Cutting width on rip fence	mm	1000 ÷ 1500	1000 ÷ 1500	1000 ÷ 1500
Three-phase motors power starting from	kW/Hz	9 (11) / 50 (60)	7 (8) / 50 (60)	7 (8) / 50 (60)
<i>Find the complete technical specification at page 20</i>				

* The machine is not equipped with scoring unit

** Scoring unit as option



Saw Unit
sturdy structure



Sliding Carriage
high cutting quality



Rip Fence
smoothness and
precision



Electronic Control
precision and
ease-of-use



SCM
Thundercut
Optimizer/
Sentencer Ann

Superior technology combined
with an ease-of-use.



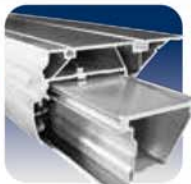
manual circular saws class si 400 class si 350 class si 300



		class si 400	class si 350	class si 300
Max. saw blade diameter with installed scoring unit	mm	400	350	315
Max. saw blade projection from the table at 90°/45°	mm	140/97	118/81	100/70
Saw blade rotating speed	rpm	3000/4000/5000	4000	4000
Squaring stroke	mm	2200 ÷ 3800	2200 ÷ 3800	2200 ÷ 3800
Cutting width on rip fence	mm	1000 ÷ 1500	1000 ÷ 1500	1000 ÷ 1500
Three-phase motors power starting from	kW/Hz	7 (8) / 50 (60)	7 (8) / 50 (60)	5 (6) / 50 (60)
<i>Find the complete technical specification at page 20</i>				



Saw Unit
sturdy structure



Sliding Carriage
high cutting quality



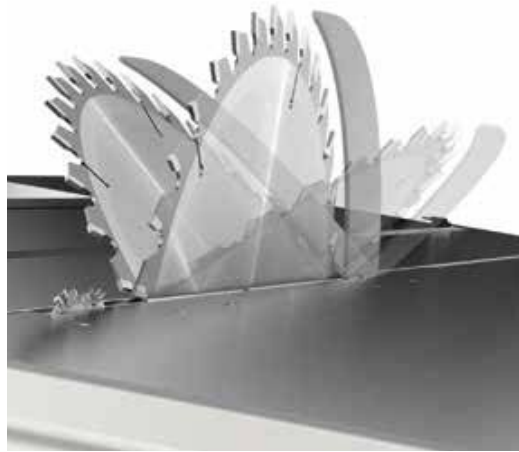
Rip Fence
smoothness and
precision



**SCM
Thundercut**
Optimizer/
Sequencer App

High construction quality for reliability
and safe performance.

circular saws operating groups

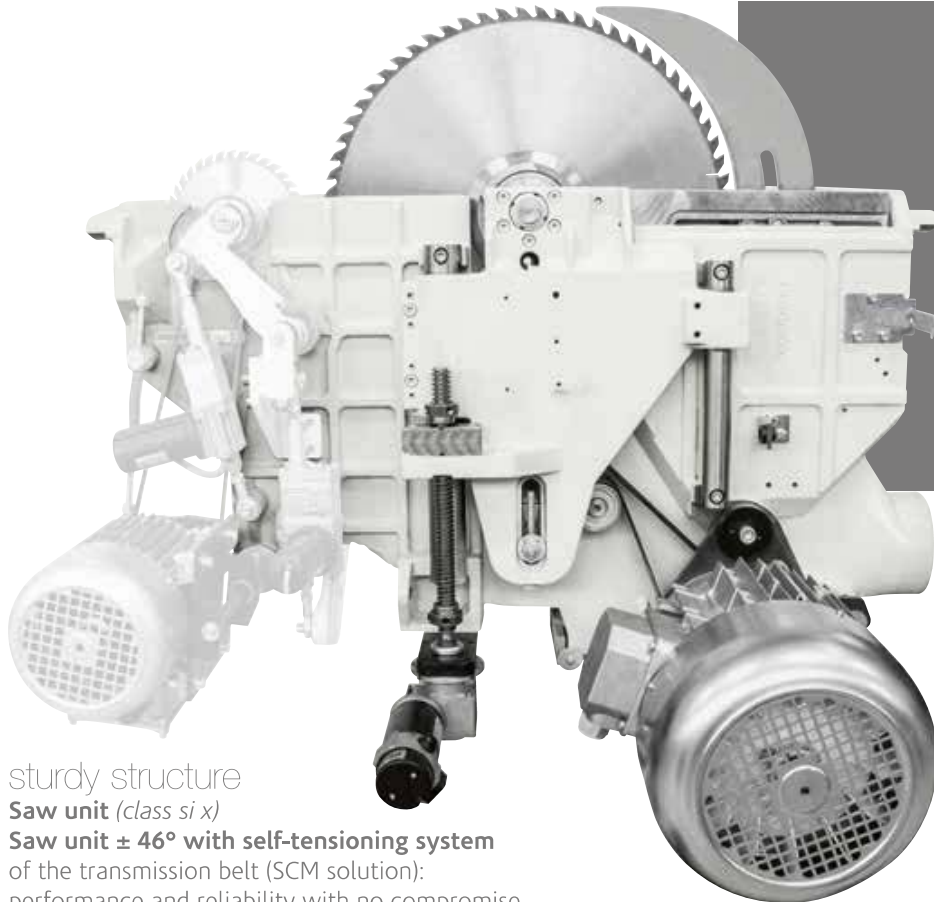


always user friendly
and precise

Handwheels on the machine front

Ease-of-use in every day operation due to the dedicated gear box (**SCM solution**), fully protected from dust, that provides a smooth and direct transmission.

Every minimum hand-wheel movement corresponds to a precise blade adjustment.



sturdy structure

Saw unit (*class si x*)

Saw unit $\pm 46^\circ$ with self-tensioning system of the transmission belt (SCM solution): performance and reliability with no compromise.

The saw blade lifting is carried out by a strong cast-iron structure with sliding on ground round slideways which guarantee the **best accuracy**. The unit tilting is carried out on cast-iron rotation sectors in a crescent shape to ensure reliability over time.

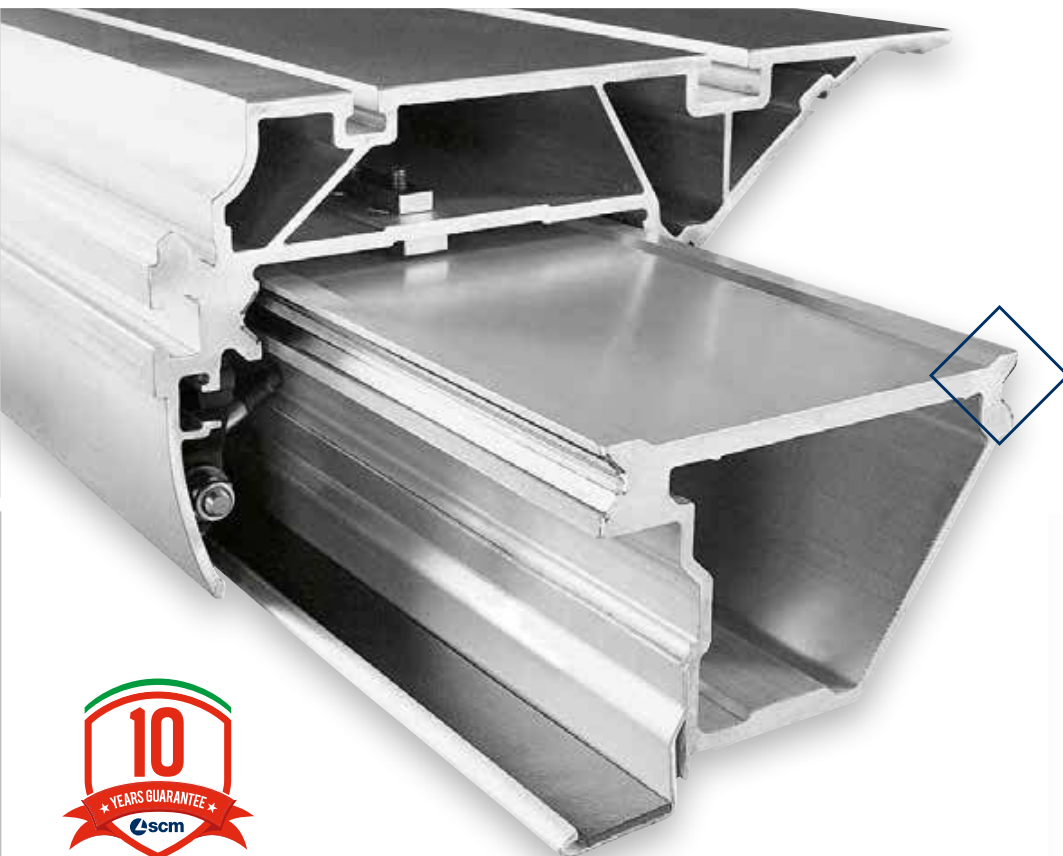


simple and effective

Scoring unit adjustment

Vertical and horizontal adjustments are carried out by user-friendly mechanical levers that operate directly making precise and smooth movements. The useful mechanical stops allow immediately finding of the set position. The positioning of the controls allows their use without moving from the front of the machine.





maximum cut quality guaranteed over time

Sliding carriage

The carriage will never require adjustment due to its closed reticular geometry with steel guides using an **exclusive method of mechanical fixing**.



Furthermore, the **"arc" profile of the class arch-ground steel slideways (SCM solution)** ensures:

- No play and loads four times higher than others
- $\pm 0,05$ mm tolerance on the entire carriage length for straight and high quality cutting
- Sliding effectiveness over time, thanks to the particular guides positioning which ensures protection from dust



reliability and technology without comparison
10 years of SCM guarantee for the carriage sliding system.

smooth, rapid and
precise positioning

Rip fence

Sliding of the rip fence support on round bar with micrometric adjustment.

The support can be also equipped with digital readout for fence position with detecting system on magnetic band (option). The fence can be easily excluded from the working area when it isn't used.



optimal support

Squaring frame and fence

Panel loading is easy on the large squaring frame with an idle roller at the end and the mobile cross beams offer an **optimal support** also to smaller panels. The telescopic squaring fence with the inclined metric scale and two reversible stops can be used to square panels measuring 3200x3800 mm and for tilted cuts at up to 45° on both sides of the frame.

programmable circular saws electronic controls

Technical specification at page 21



the practical advantage for
automatic control of the
main positions
"Ready"

The **programming** of the work becomes
simple and effective with the electronic
control with a 4" LCD display.

- Working mode: manual, semi-automatic and automatic with a memory capacity of up to 99 programs
- Tool data setting with automatic height adjustment
- Calculator and hour counter



Saw unit
lifting



Saw unit
tilting



Programmable
rip fence
(option)



Blade speed
readout

the pleasure of controlling all machine
functions from the control panel
"eye-S" console

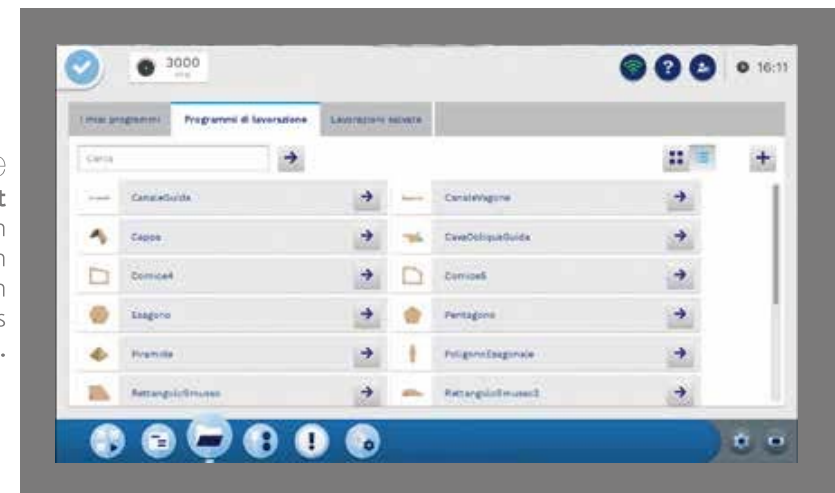
The new control panel, with its attractive design, allows easy and intuitive machine programming, combining the 15" colour touch-screen display and the **Maestro** active user interface. Main functions:

- Connectivity among machines belonging to the same company network and **4.0 Industry** preset
- Sharing of work programs and tools database
- Activity monitoring and reporting on the use of the machine
- Connectivity with **SCM Thundercut** (optimizer/sequencer App)
- Self-diagnosis, tele-service and link to troubleshooting



one cut only, the correct one
Operator's support

The large display suggests to the operator information for the correct use of any cutting configuration. In particular, it displays in real time the correct position of the stop on the basis of the known measurements of the work-piece (**SCM solution**).



The "eye-S" control can manage the
inverter for the adjustment of the saw
blade rotation speed and the
scoring unit alignment.





speed and accuracy
Motorised programmable rip fence mounted on a recirculating ball screw mechanism with sliding on linear guides.
Only for Ready 3 Plus / eye-S



maximum practicality
Pushbuttons integrated in the sliding carriage

The possibility to start or stop the blades motors from the pushbuttons located at the ends of the carriage **considerably helps when machining large dimensioned panels.**
(option)

the innovation at the operator service
Automatic positioning system of the overhead protection

The overhead protection automatically positions itself as a function of the blade using the **exclusive "AP system" (SCM solution).**

This makes the transition from cuts with different angles even faster and safe, without the operator having to change the settings of the machine.
(class si x)



practicality and safety
Motorized programmable rip fence with steel cable and sliding on sturdy round steel bar.
 Position readout on magnetic band.
Only for Ready 3 version

circular saws main optional devices

Angular cutting devices

Available for the following versions

- a) traditional
- b) with automatic self-adjustment of the stops position in respect of the blade
- c) with automatic self-adjustment of the stops position in respect of the blade and electronic readouts for stop position and rule tilting angle



Rip fence unit

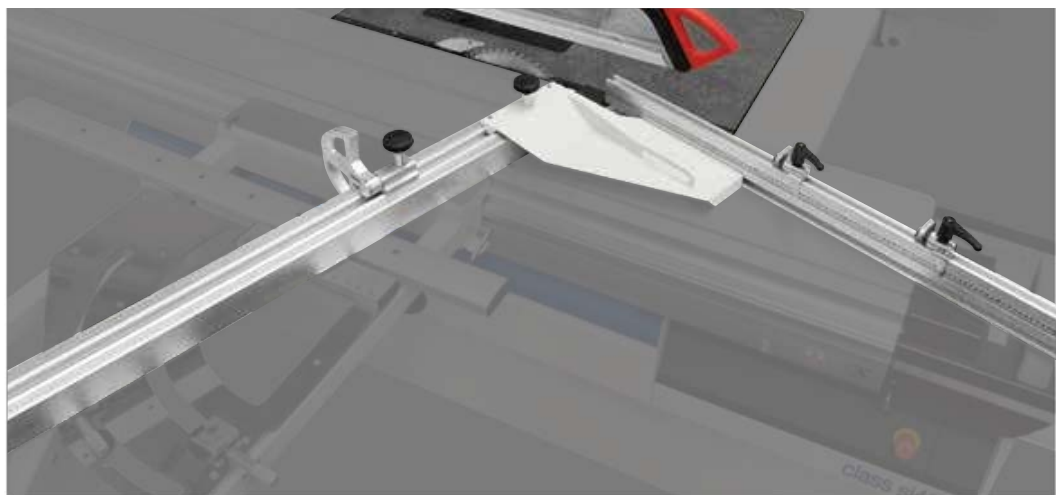
The exclusive referencing system for the first trim cut allows the setting of trim quantity to be cut for every **side without any test cuts**. Available also with electronic readouts.





Squaring frame with "Compex" device

with automatic self-adjustment of stops position in respect of the blade and rule tilting angle. Furthermore, thanks to the dedicated frame structure, it is possible to carry out **tilted cuts keeping the squaring rule comfortably within the operator's reach**, both in acute cuts and in obtuse ones, without renouncing to a valid support of the piece.



Fence for complementary cutting

Device to be applied directly on the squaring rule that allows to quickly carry out cuts with angles complementary to the rule one.



Squaring stops with lens

For a better view of the data.



Electronic readouts on the squaring stops

The stops can be easily read even from distance.

speed and precision "Quick Lock" squaring fence with rapid release

Minimum set-up time with the **SCM system that allows rapid fence positioning.**

The extending roller and the stronger frame support maximise performance.



circular saws main optional devices

Surface reinforcement treatment

For sliding table and mobile crossbars of squaring frame.
Dedicated to the intensive processing and particularly abrasive materials.



Extension with roller conveyor on parallel fence side,
for the support of large panels, and tools-holder
to have the tools always within reach.



Laser device

Laser light for the work-piece
alignment with the cutting line.



Mechanical preset for "DADO" machining
Possibility of using a
tool (not included)
to replace the main blade,
with 203 mm maximum
diameter and 20 mm
maximum thickness.



circular
saws
main
optional
devices

Tablet holder on the sliding carriage
Compatible with tablets from 8" to 11".



Adjustable tablet holder positioned on the mobile control panel
Compatible with tablets from 7" to 13".
It is equipped with USB port for power supply positioned
on the mobile control panel.

circular saws main optional devices



"Pro-Lock"

System for the main blade rapid locking with fast and tool-less riving knife adjustment.

Expandable scoring blade

Manually expandable with variable thickness from 2,8 to 3,6 mm.
Blade diameter: 120 mm (160 mm for *class si x*)



Blades-holder drawer integrated in the machine's frame

It is made of 4 shelves, customizable with labels, for the easy replacement of the blades.

"LED indicating scoring unit in operation" device
When the scoring blade is working, the high efficiency LEDs clearly indicate the danger area, making the machine safer than ever.



Pneumatic presser

Particularly suitable for the cutting of thin materials.



Second extension with sliding rail support

to safely support panels for large dimension and weight.



Advanced materials machining

PVC and other plastic materials. Nylon, polycarbonate and other synthetic materials. Corian and other composite materials. Aluminium, brass and other light metals.



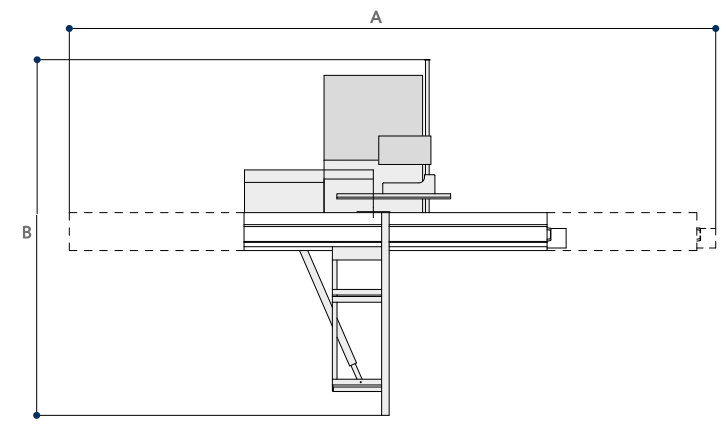
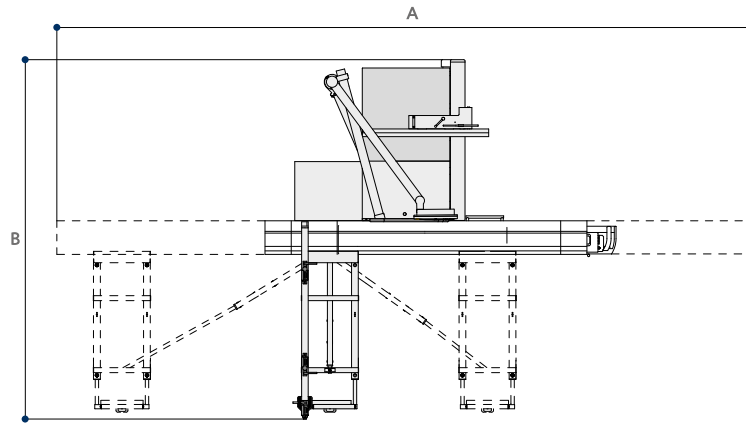
Device for the blade micro-lubrication

Compulsory for the machining of light alloys, extremely useful with particular plastic materials.



circular saws technical data

S Standard
O Option



TECHNICAL DATA

		class si x	class si 550ep	class si 400ep	class si 400	class si 350	class si 300
Cast-iron saw table dimensions	mm	1285 x 700	1285 x 700	1040 x 630	1040 x 630	1040 x 630	900 x 550
Blades tilting	mm	-46° ÷ +46°	90° ÷ 45°	90° ÷ 45°	90° ÷ 45°	90° ÷ 45°	90° ÷ 45°
Max. saw blade diameter		550	550*	400	400	350	315
Max. saw blade diameter with installed scoring unit	mm	450**	-	400	400	350	315
Max. saw blade projection from the table at 90°/+45°/-45°	mm	200/130/105	200/130/-	140/97/-	140/97/-	118/81/-	100/70/-
Saw blade rotating speed	rpm	3000 ÷ 5000	2500/3500/5000	3000/4000/5000	3000/4000/5000	4000	4000
Squaring stroke	mm	2200 ÷ 3800	2200 ÷ 3800	2200 ÷ 3800	2200 ÷ 3800	2200 ÷ 3800	2200 ÷ 3800
Cutting width on rip fence	mm	1000 ÷ 1500	1000 ÷ 1500	1000 ÷ 1500	1000 ÷ 1500	1000 ÷ 1500	1000 ÷ 1500
other technical features							
Three-phase motors 5 kW (6,6 hp) 50 Hz - 6 kW (8 hp) 60 Hz	-	-	-	-	-	-	S
Three-phase motors 7 kW (9,5 hp) 50 Hz - 8 kW (11 hp) 60 Hz	-	S	S	S	S	S	O
Three-phase motors 9 kW (12 hp) 50 Hz - 11 kW (15 hp) 60 Hz	S	O	O	O	O	-	-
Three-phase motors 14 kW (19 hp) 50 Hz - 14 kW (19 hp) 60 Hz	-	O	-	-	-	-	-
Exhaus hoods diameter:							
- at the base	mm	120	120	120	120	120	120
- on overhead protection	mm	100	100	100	100	100	100
- on riving knife	mm	-	-	60	60	60	60

* The machine is not equipped with scoring unit

** Scoring unit as option

OVERALL DIMENSIONS		class si x	class si 550ep	class si 400ep	class si 400	class si 350	class si 300
A with 2200 mm carriage	mm	5230	5230	5230	5090	5090	5090
A with 3200 mm carriage	mm	7250	7250	7250	6825	6825	6825
A with 3800 mm carriage	mm	8500	8500	8500	7425	7425	7425
B with 1000 mm cutting width on rip fence	mm	4042	3922	3815	3740	3740	3597
B with 1270 mm cutting width on rip fence	mm	4367	4247	4140	4110	4110	3867
B with 1500 mm cutting width on rip fence	mm	4492	4372	4265	4235	4235	4097
MAIN OPTIONAL DEVICES		class si x	class si 550ep	class si 400ep	class si 400	class si 350	class si 300
"Ready 3" version	-	0	0	-	-	-	-
"Ready 3 UP" / "Ready 3 UP Plus" version	-	-	0	-	-	-	-
"eye-S" version	S	-	-	-	-	-	-
"eye-S 3 UP Plus" version	0	-	S****	-	-	-	-
"SCM Thundercut" Optimizer/Sequencer App	S	S	S	S	S	S	S
Expandable scoring blade	0	-	0	0	0	0	0
Surface reinforcement treatment for sliding table	0	0	0	0	0	0	0
Pushbuttons integrated in the sliding carriage	0	0	0	0	0	0	0
"Quick Lock" squaring fence	0	0	0	0	0	0	0
Squaring fence with LCD readouts for stops position	0	0	0	0	0	0	0
Fence for angular cutting on the sliding carriage	0	0	0	0	0	0	0
Fence for angular cutting with self-adjustment	0	0	0	0	0	0	0
Fence for angular cutting with electronic readouts and self-adjustment	0	0	0	0	0	0	0
Squaring frame with "Compex" device	0	0	0	0	0	0	0
Fence for complementary cutting	0	0	0	0	0	0	0
Fence for rip cutting on the sliding carriage	0	0	0	0	0	0	0
Fence for rip cutting on the sliding carriage with electronic readout	0	0	0	0	0	0	0
Inverter for electronic speed change from 2700 to 6000 rpm	S**	-	0	-	-	-	-
2-axis automatic adjustment of the scoring unit	S***	-	0	-	-	-	-
Electronic readout of parallel fence position	0	0	0	0	0	0	0
Presser on entire carriage length	0	0	0	0	0	0	0
Second extension with sliding rail support	0	0	0	0	0	0	0
Extension with roller conveyor on parallel fence side	0	0	0	0	0	0	0
"Pro-Lock" system for the main blade rapid locking	0	0	0	0	-	-	-
"LED indicating scoring unit in operation" device	0***	-	0	-	-	-	-
"DADO" machining	-	-	0	0	0	0	0
Machine configuration for advanced materials machining	0	-	0	0	0	0	0
Device for the blade micro-lubrication for the machining of plastic materials and light alloy	0	-	0	0	0	0	0
Overhead blades protection	S	S	S*	S*	0	0	0
Adjustable tablet holder positioned on the mobile control panel	0	-	0	-	-	-	-
Tablet holder on the sliding carriage	0	0	0	0	0	0	0
Blades-holder drawer integrated in the machine's frame	0	-	-	-	-	-	-
Laser device	0	0	0	0	0	-	-
* Standard for CE and USA-Canada versions; Option for NO CE version							
** 3000 ÷ 5000 rpm speed							
*** Scoring unit as option							
**** Standard for "eye-S" version							

PROMPT AND EXPERT TECHNICAL SUPPORT THROUGH A NETWORK OF 1000 TECHNICIANS AND AN INVENTORY OF 36,000 SPARE PARTS.

HIGHLY SPECIALISED TECHNICIANS, EFFICIENT
MANAGEMENT AND 6 SPARE PARTS BRANCHES
AROUND THE WORLD GUARANTEE A CLOSE,
SAFE AND EFFECTIVE TECHNICAL SUPPORT.

SERVICE

SCM provides a service that goes beyond the purchase, to guarantee the long term performance of your technological production system and peace of mind for your business.

A COMPLETE RANGE OF AFTER-SALES SERVICES

- installation and start-up of machines, cells, lines and systems
- tailored training programs
- telephone support to reduce times and costs when machines are not working
- preventive maintenance programs to guarantee long term performance
- complete renovation of machines and plants to renew the added value of the investments
- custom upgrading to update machines and plants and meet new production requirements



SPARE PARTS

SCM Group can count on 140 spare parts professionals worldwide to meet any request with real time shipments.



36,000 SPARE PARTS

Our spare parts inventory, with a value of 12 million euros, covers every single machine



SPARE PARTS GUARANTEED

We guarantee also hard to find parts, with 3,5 million euros invested in "critical" spare parts.



IMMEDIATE AVAILABILITY

Over 90% of orders received are carried out the same day thanks to the huge inventory available.



6 BRANCHES AROUND THE WORLD

The spare parts service can count on worldwide support (Rimini, Singapore, Shenzhen, Moscow, Atlanta, São Bento do Sul)



500 SHIPMENTS A DAY



THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND

Over 65 years of success gives SCM the centre stage in woodworking technology. This heritage results from bringing together the best know-how in machining and systems for wood-based manufacturing. SCM is present all over the world, brought to you by the widest distribution network in the industry.

65+ years history

3 main production sites in Italy

300.000 square metres of production space

20.000 machines manufactured per year

90% export

20 foreign branches

400 agents and dealers

500 support technicians

500 registered patents

In SCM's DNA also strength and solidity of a great Group. The SCM Group is a world leader, manufacturing industrial equipment and components for machining the widest range of materials.

SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL MACHINES AND COMPONENTS

INDUSTRIAL MACHINERY

Stand-alone machines, integrated systems and services dedicated to processing a wide range of materials.



INDUSTRIAL COMPONENTS

Technological components for the Group's machines and systems, for those of third-parties and the machinery industry.





SCM GROUP SPA

via Casale 450 - 47826 Villa Verucchio, Rimini - Italy
tel. +39 0541 674111 - fax +39 0541 674274
scm@scmgroup.com
www.scmwood.com



00L0590133G