bladeoff

00L0817859B

REV.00 - 01.2023 - MIC STUDIO

bladeoff

scm
woodworking technology

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.



scm
woodworking technology

blade off

Safety as the first factor.

Classical machines for the advanced joinery.

SCM’s objective is to guarantee customers high quality technologies which meet their requirements in such a way as to make SCM the partner for any needs.

At 2022 edition of ***Xylexpo*** World Exhibition for Woodworking Technology and Components for the Furniture Industry, the exclusive *blade off* safety solution applied to SCM circular saws won the “Oscar” of the exhibition, i.e. the *XIA – Xylexpo Innovation Award,* for the **“panel processing”** category.

What the jury most appreciated about the new SCM technological solution was “the strong improvement in safety” as this system prevents the contact between the operator’s hand and the blade thanks to exclusive smart sensors.

This acknowledgment is further evidence of SCM’s constant commitment to design and develop innovative technological solutions that are efficient, safe and user-friendly even for unskilled artisans in the use of machines tool.



Milan, October 2022



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

Available on the App Store

GET IT ON Google Play

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
woodworking technology



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.

2 YEARS GUARANTEE scm

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

bladeoff

USING A CIRCULAR SAW HAS NEVER BEEN SO... SAFE!

The new SCM predictive system of direct detection eliminates any kind of accidental contact between the operator's hand and the blade.

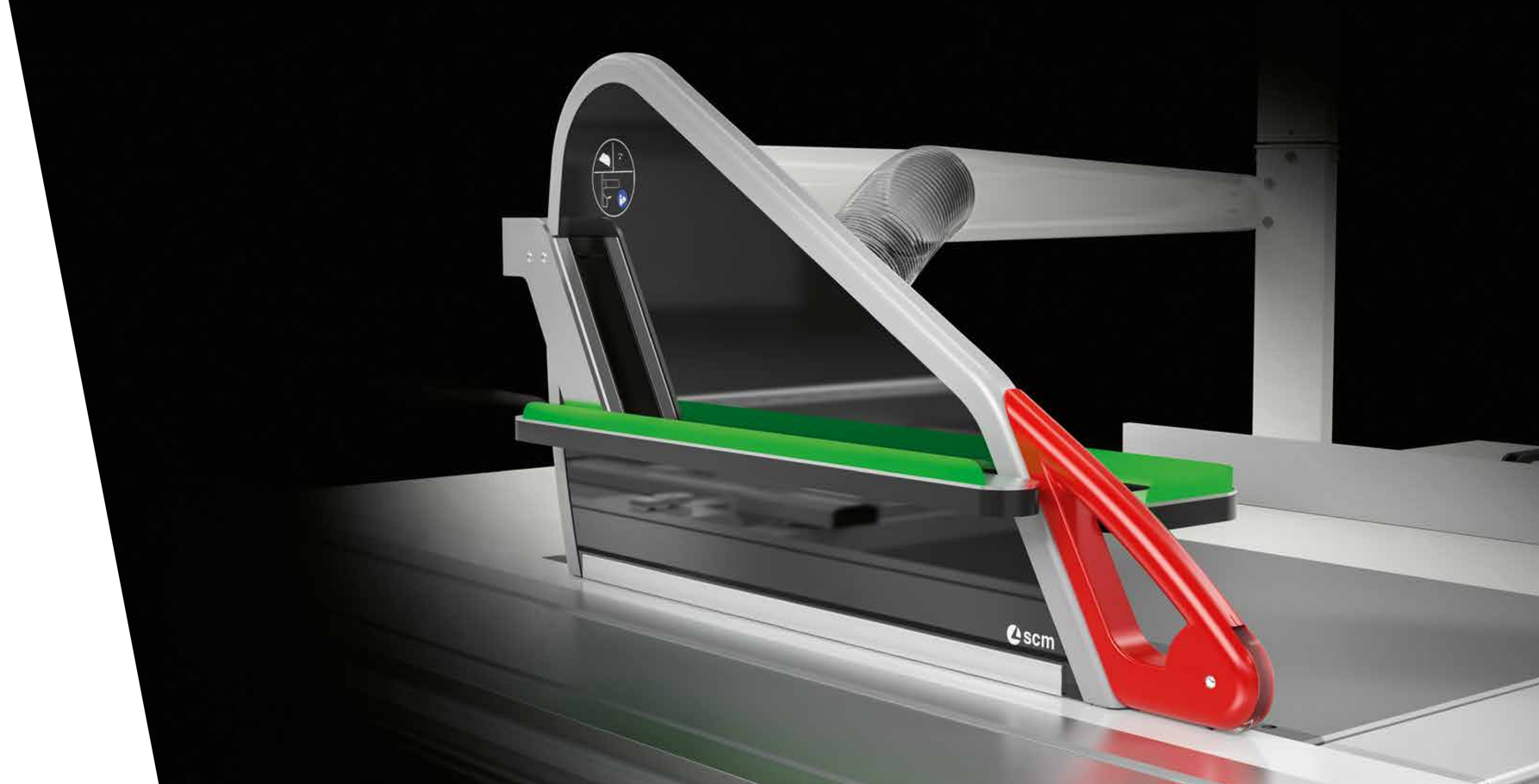
This is thanks to a barrier equipped with smart sensors that can identify and recognise the human body compared to processed material.
The system triggers even before the blade is accidentally touched or the operator gets too close, by protecting the whole danger area around the blade.

Should a possible collision situation arise, the system automatically excludes the blade and stops the program running, without damaging any component of the machine.

The protection is expanded on 3 sides of the machine (work-piece entrance and side approaches to the blade) to prevent any kind of contact, even caused by inappropriate or accidental movements.

The system also activates with high cutting speed, without slowing down machining, and it includes the possibility of an unlimited reactivation, that does not influence either the cutting accuracy or the machine's performance.

⊕ safety
⊖ machine accidents





SLIDING CARRIAGE: MAXIMUM CUT QUALITY GUARANTEED OVER TIME.

The carriage will never require adjustment and thanks to its structure with arch-ground steel slideways (SCM exclusive and patented solution) it can bear loads four times higher.
Furthermore, the "arc" profile of the slideways ensures:
- no play and no need for adjustments over time
- higher loading capacity
- ± 0,05 mm tolerance on the entire carriage length for straight and high quality cutting



RELIABILITY AND TECHNOLOGY WITHOUT COMPARISON.

10 years of SCM guarantee for the carriage sliding system.



⊕ reliability
⊖ maintenance

CONTROL PUSH-BUTTONS INTEGRATED ON THE SLIDING CARRIAGE: MAXIMUM PRACTICALITY.

The possibility to start or stop the blades motors from the push-buttons located at the ends of the carriage considerably helps when machining large dimensioned panels.

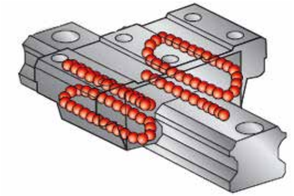


SAW UNIT: PERFECT CUT.

Maximum torsional rigidity and total absence of vibration through the closed loop structure of the saw unit, which ensures perfect alignment of the blades during tilted and difficult cuts.

TELESCOPIC SWINGING ARM: 'INVINCIBLE' FLUIDITY OF MOVEMENT.

The support of the squaring frame is the only one to be made of a large dimensioned extrusion with sliding on prismatic linear guides on recirculating ball bearings. It guarantees:
- best smooth movement of the work-piece
- no play and no noise
- dust protection
- no need for maintenance



"FULL SUPPORT" MOBILE FRAME FOR ANGULAR CUTTINGS: PRECISION MECHANICS.

It provides maximum support for the panel for any angle due to the exclusive SCM patented solutions consisting of a single centre of rotation for maximum reliability over time. It can support heavy and large dimensioned panels for all angles (from +50° to -50°).
The "Quick Lock" fence and the extended roller complete the wide equipment to satisfy all customer's requirement.



"WIRELESS" SYSTEM: WHEN TECHNOLOGY REALLY HELPS.

The electronic control updates in real-time the data for the positions of the three stops, always showing the actual size of the required work-piece in any cutting configuration.

⊕ satisfaction to operate
⊖ waste of time



"EYE-S" CONSOLE: THE PLEASURE OF CONTROLLING ALL MACHINE FUNCTIONS FROM THE CONTROL PANEL.

The new mobile control panel, with its attractive design, allows easy and intuitive machine programming, combining the 15" or 10" 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



OPERATOR'S SUPPORT: ONE CUT ONLY, THE CORRECT ONE.

The display suggests to the operator information for the correct use of any cutting configuration.
It is possible to create the required work-piece with maximum accuracy and without any calculations or cutting tests even with the most complicated of cases (angular cuts on the worktable, tilted blade, unknown measurements, etc.).

⊕ accuracy
⊖ calculations

ADJUSTABLE TABLET HOLDER POSITIONED ON THE MOBILE CONTROL PANEL: ERGONOMIC.

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



LIGHTING LAMP: USER FRIENDLY.

The high efficiency LED lamp, positioned under the control panel display, improves the operator's view of the work area.



TABLET HOLDER ON THE SLIDING CARRIAGE: EASY TO USE.

Compatible with tablets from 8" to 11".



Thundercut

⊕ technology
⊖ errors





SQUARING FRAME WITH "COMPEX" DEVICE: BEST-IN-CLASS PERFORMANCE.

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 work-piece.

"PRO-LOCK" SYSTEM: IMMEDIATELY ON THE CORRECT POSITION.

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



PROGRAMMED RIP FENCE: QUICK AND ACCURATE POSITIONING.

Movement on a recirculating ball screw mechanism with sliding on linear guide.



The fence can be easily excluded from the working area when it is not used.





EXPANDABLE SCORING BLADE: SOLUTIONS FOR EVERY REQUIREMENT.

Variable thickness from 2,8 to 3,6 mm.
Blade diameter: 120 mm.

⊕ ergonomics
⊖ downtimes

⊕ practicality
⊖ inconveniences

Technical data		L'invincibile si 3 blade off
Squaring capacity with 3200 mm carriage	mm	3200x3200
Squaring capacity with 3800 mm carriage	mm	3800x3200
Cutting width on rip fence	mm	1000-1600
Max. cutting height at 90°	mm	125
Max. cutting height at 45°	mm	90
Main blade rotating speed (with inverter)	rpm	from 2700 to 6000
Scoring blade rotating speed	rpm	8500
Main blade motor power	kW	7
Scoring blade motor power	kW	1,3
Equipment		
"eye-S" console 15" touch-screen electronic control		S
Mobile control panel		S
SCM Thundercut - Optimizer/Sequencer App for tablet		S
Independent powered scoring unit		S
Scoring unit electronic adjustment		S
Inverter for electronic speed change from 2700 to 6000 rpm		S
Programmed rip fence		S
Control push-buttons integrated on the sliding carriage		S
Telescopic swinging arm support of the squaring frame with sliding on prismatic linear guides on recirculating ball bearings		S
Squaring frame with "CompeX" device		S
"Full Support" mobile frame for angular cuttings complete with "Wireless" system		O
Squaring frame with "Quick Lock" fence		O
Squaring fence with 3 LCD readouts for stops position		O
Fence for angular cuttings with self-adjustment		O
Fence for angular cuttings with electronic readouts		O
Fence for complementary cuttings		O
Fence for parallel cuttings on the sliding carriage		O
Fence for parallel cuttings on the sliding carriage with LCD readouts		O
Panels support extension with roller conveyor on rip fence side		O
Cast-iron worktable extensions		O
Reinforced worktable extensions		O
Adjustable tablet holder positioned on the mobile control panel		O
Tablet holder on the sliding carriage		O
Lighting lamp		O
"Pro-Lock" system for the main blade rapid locking		O
Expandable scoring blade		O
Wireless barcode reader		O

S Standard
O Option



The motors powers in this catalogue are expressed in S6, except where otherwise specified.
In this catalogue, machines are shown in CE configuration and with options.
We reserve the right to modify technical specifications without prior notice, provided that such modifications do not affect safety as per CE norms.

Technical data		class si 400ep blade off
Squaring capacity with 3200 mm carriage	mm	3200x3200
Squaring capacity with 3800 mm carriage	mm	3800x3200
Cutting width on rip fence	mm	1000-1600
Max. cutting height at 90°	mm	125
Max. cutting height at 45°	mm	90
Main blade rotating speed (with inverter)	rpm	from 2700 to 6000
Scoring blade rotating speed	rpm	8500
Main blade motor power	kW	7
Scoring blade motor power	kW	1,3
Equipment		
"eye-S" console 10" touch-screen electronic control		S
Mobile control panel		S
SCM Thundercut - Optimizer/Sequencer App for tablet		S
Independent powered scoring unit		S
Scoring unit electronic adjustment		O
Inverter for electronic speed change from 2700 to 6000 rpm		S
Programmed rip fence		S
Control push-buttons integrated on the sliding carriage		S
Squaring frame with "CompeX" device		O
Squaring frame with "Quick Lock" fence		O
Squaring fence with 3 LCD readouts for stops position		O
Fence for angular cuttings with self-adjustment		O
Fence for angular cuttings with electronic readouts		O
Fence for complementary cuttings		O
Fence for parallel cuttings on the sliding carriage		O
Fence for parallel cuttings on the sliding carriage with LCD readouts		O
Panels support extension with roller conveyor on rip fence side		O
Reinforced worktable extensions		O
Adjustable tablet holder positioned on the mobile control panel		O
Tablet holder on the sliding carriage		O
Lighting lamp		O
"Pro-Lock" system for the main blade rapid locking		O
Expandable scoring blade		O
Wireless barcode reader		O

S Standard
O Option



The motors powers in this catalogue are expressed in S6, except where otherwise specified.
In this catalogue, machines are shown in CE configuration and with options.
We reserve the right to modify technical specifications without prior notice, provided that such modifications do not affect safety as per CE norms.



scm | service

WE'LL GO THE EXTRA MILE FOR YOU

SCM OFFERS A FULL RANGE OF **HIGHLY SPECIALISED SERVICES** WITH A QUALITY AND RELIABILITY THAT STEM FROM 70 YEARS OF EXPERIENCE IN THE INDUSTRY.

From installation and production start-up to services and maintenance. From training to the supply of specific original spare parts: **we provide solutions designed around you!**

CONTACT

SCM SERVICE
via Emilia 77 - 47921 Rimini - Italy
tel. +39 0541 700100
scmservice@scmgroup.com
www.scmwood.com

SCM SPAREPARTS
Via Emilia, 61 - 47921 - Rimini - Italy
tel. +39 0541 674111
spareparts@scmgroup.com
www.scmwood.com

My Scm

SERVICE AND MAINTENANCE

- Remote support
- Scheduled maintenance contracts
- Warranty extension

TRAINING SERVICE

- Courses for machine operators
- Software and programming courses
- Training in production start-up

SPARE PARTS

- Recommended spare parts list
- E-shop
- Interactive spare-parts catalogues
- Repairs on electronic parts, glue tanks and electro-spindles

DIGITAL SERVICES

- Maestro Connect - IoT platform to be constantly connected with your machines
- Smartech - assistance with augmented reality
- My Scm portal - opening of service ticket and single point of access to the apps and Services tools

THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND
70 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.

70 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.

- scm — WOODWORKING TECHNOLOGIES
- Cms — TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL

INDUSTRIAL COMPONENTS

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

- HITECO — SPINDLES AND TECHNOLOGICAL COMPONENTS
- es — ELECTRIC PANELS
- steelmec — METALWORK
- scmfonderie — CAST IRON

scm | is more
woodworking technology