

nova 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.



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.

Guaranteed quality at your fingertips.

circular saws

programmable

manual

nova si 4 ("READY" versions)
page 7



nova si x
page 18



nova si 4
page 6



nova si 4s
page 7



nova si 4k
page 19



planers

surface planers

thicknessing
planers

surfacing-
thicknessing
planers

nova f 520
page 30



nova f 410
page 30



nova s 630
page 31



nova s 520
page 31



nova fs 520
page 32



nova fs 410
page 33



spindle moulders

manual

nova tf 110
page 40



nova tf 100
page 40



nova ti 105
page 41



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.



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 went beyond 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





circular saws

nova si 4

nova si 4s



Version with Blade kit 400 mm.

		nova si 4	nova si 4s
Max. saw blade diameter with scoring blade (option) installed	mm	315 ÷ 400	315 ÷ 400
Max. saw blade projection from worktable at 90°/46°	mm	140/99	140/99
Squaring capacity	mm	2250 ÷ 3800	1600
Cutting width on rip fence	mm	1000 ÷ 1500	1000 ÷ 1500
Three-phase motors power starting from	kW/Hz	5 (6) / 50 (60)	5 (6) / 50 (60)
<i>Find the complete technical specification at page 16</i>			



Version with Blade kit 400 mm.



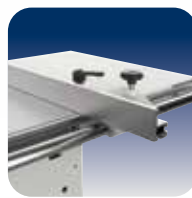
Version with Blade kit 400 mm and "READY 3 UP Plus".



Saw Unit
strong structure



Sliding Carriage
high cutting quality



Rip Fence
smoothness and
rapidity



**SCM
Thundercut**
Optimizer/
Sequencer App

Accuracy, reliability and sturdiness to
guarantee high performance standards.

circular saws operating groups

always user friendly and accurate

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.

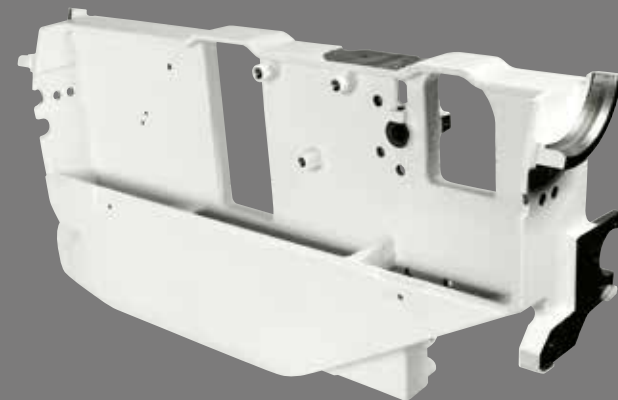
Every minimum hand-wheel movement corresponds to an accurate blade adjustment.



perfect cut

Saw unit structure

Maximum torsional rigidity and the 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.



strong structure

Saw unit

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.



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.

The **carriage locking in any position** makes the machine even more ergonomic and easy to use.



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



smooth and rapid
 positioning

Rip fence

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

The support can be also equipped with electronic 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.

circular saws electronic controls



ergonomics
"E2" kit: Saw blade unit electric
lifting and tilting
With digital readouts for data view.



maximum practicality
Control push-buttons integrated in the sliding carriage
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.



**Digital readouts
on the squaring stops**
The stops can be
easily read even
from distance.





the practical advantage for automatic control of the main positions

"READY" control system

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)



Saw blade rotating speed readout

quick and accurate positioning

Programmed rip fence with movement on a recirculating ball screw mechanism and sliding on linear guide

Only for "READY 3 Plus" and "READY 3 UP Plus" versions



"READY 3" / "READY 3 UP"

Automatic positioning of the rip fence from "READY 3" (3 axes) control system.

Programmed or manual fence movement with a hold-down drive for the maximum versatility. In addition, the "READY 3 UP" version is fitted with mobile control panel.



circular saws main optional devices

Independent powered scoring blade unit

With external set-up and stops for a quick blade repositioning.

Features:

- blade diameter: 120 mm
- blade rotating speed: 8.500 rpm
- motor power: 1,3 kW (1,7 hp) 50 Hz - 1,5 kW (2 hp) 60 Hz



Scoring unit adjustment

Vertical and horizontal adjustments are carried out by user-friendly mechanical levers that operate directly making **accurate 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.



Expandable scoring blade

Manually expandable with variable thickness from 2,8 to 3,6 mm. Blade diameter: 120 mm.



"LED indicating scoring blade 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.

**Squaring frame with
"Quick Lock" fence**
Minimum set-up time with
the **SCM system** that allows
rapid fence positioning.
The stronger frame support
maximise performance.



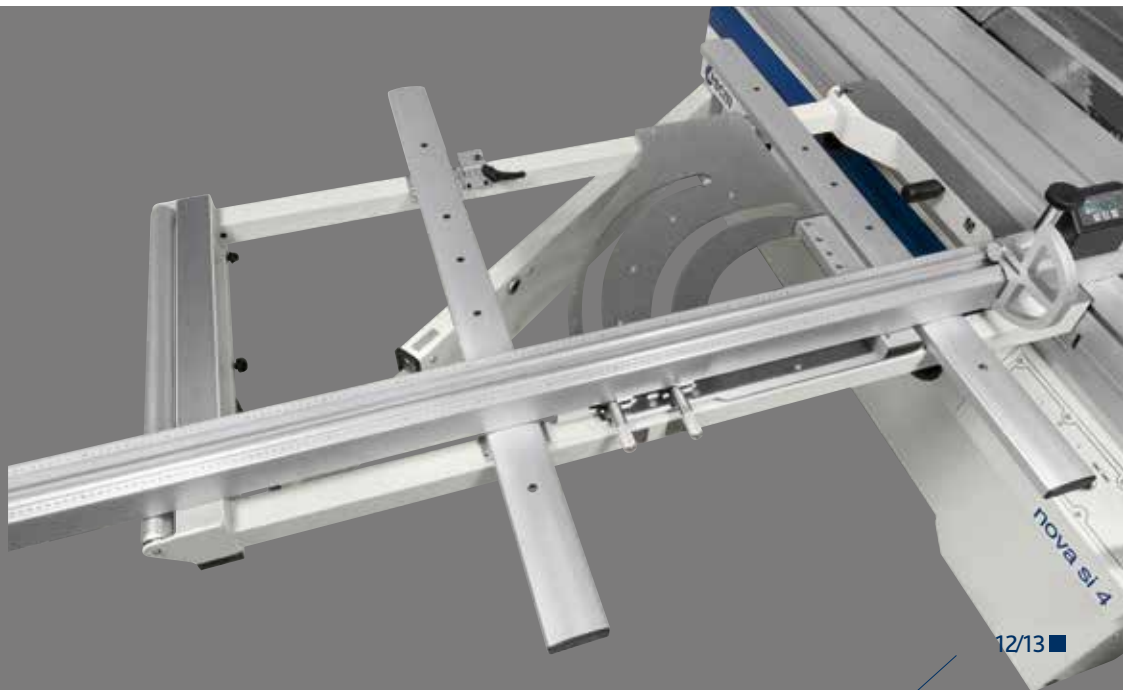
Second extension with sliding rail support
to safely support panels for large
dimension and weight.



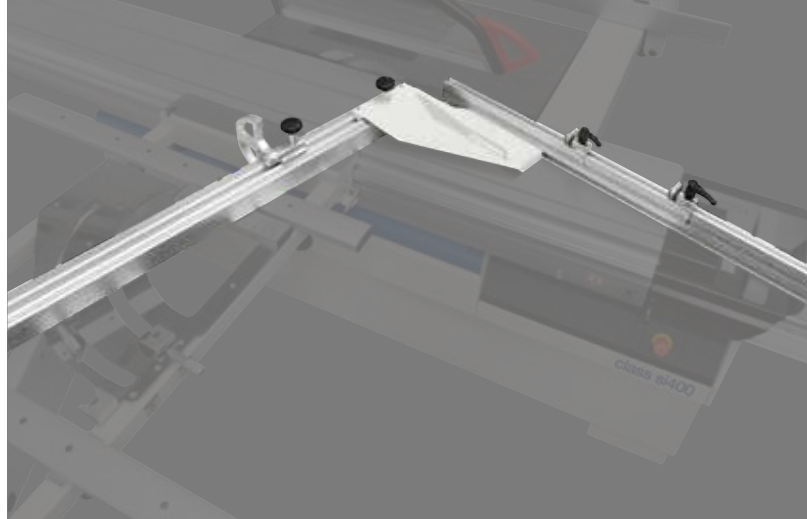
**Squaring stops
with lens**
For a better view
of the data.



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



circular saws main optional devices



Fence for complementary cuttings

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

Fence for parallel cuttings on the sliding carriage

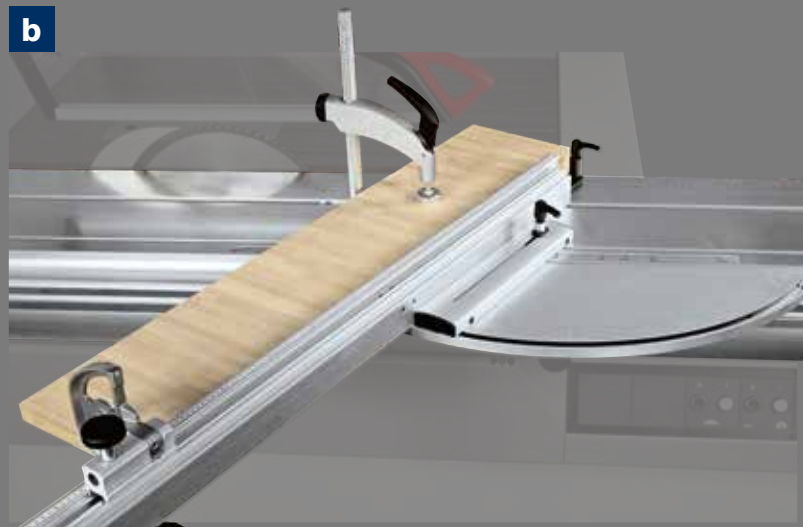
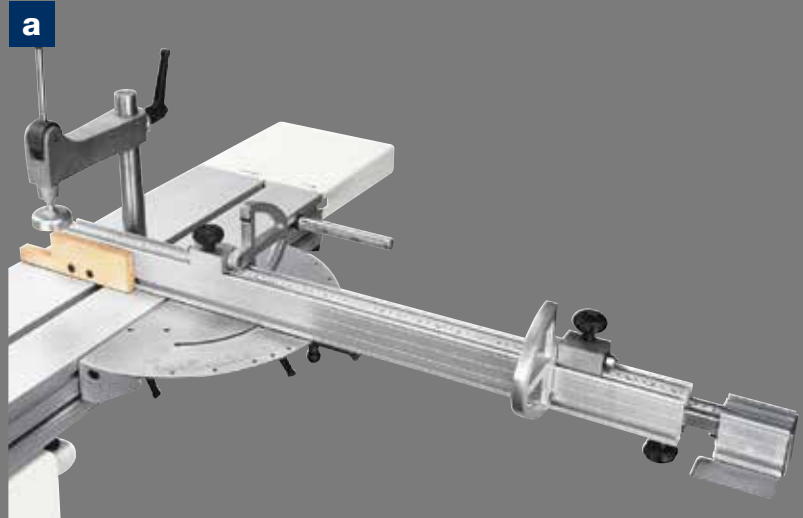
The exclusive referencing system for the first trim cut allows the setting of trim quantity to be cut for every side **without any test cuts**.

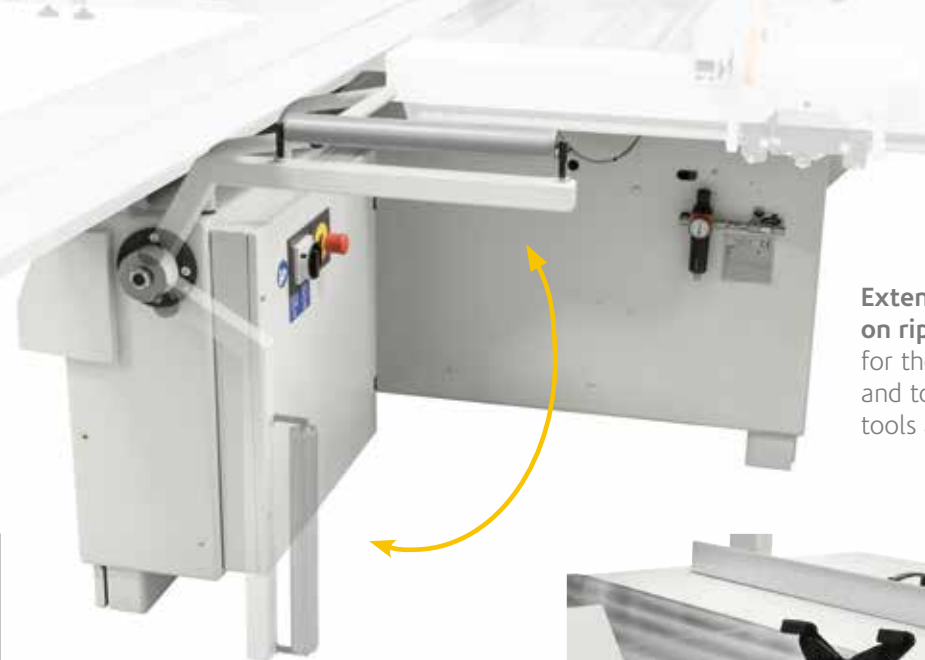


Angular cutting devices

Available for the following versions

- a) traditional
- b) with automatic self-adjustment of the stops position in relation to the blade





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



Additional table on the sliding carriage
For the support of large dimensioned panels.

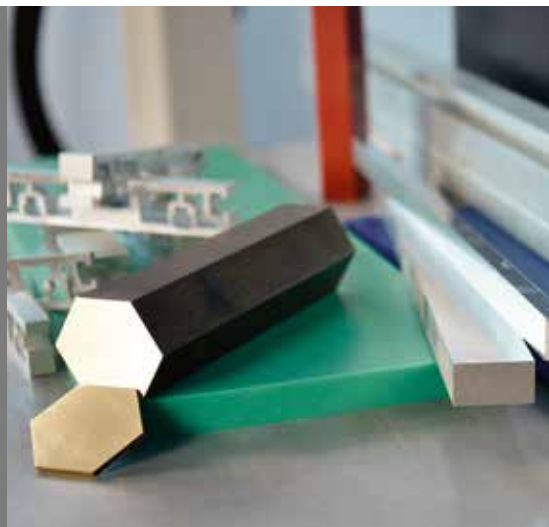
Tablet holder on the sliding carriage
Compatible with tablets from 8" to 11".



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.

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.

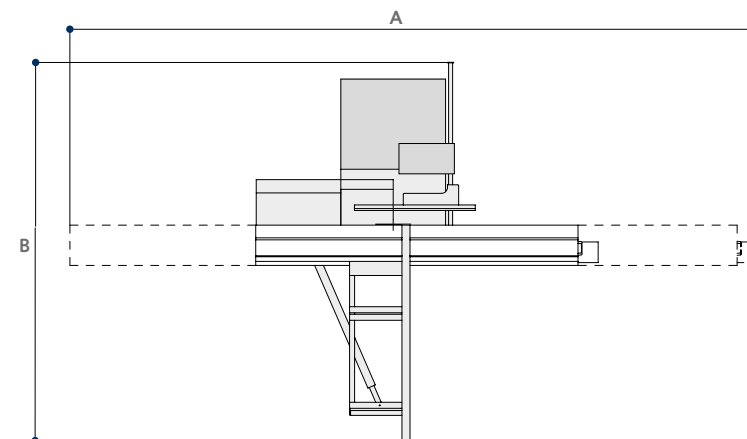
The **device for the blade micro-lubrication** is compulsory for the machining of light alloys.



Arrangement 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 technical data

S Standard
O Option



OVERALL DIMENSIONS		nova si 4	nova si 4 version with Blade kit 400 mm	nova si 4 version with Blade kit 400 mm and "READY 2"	nova si 4s	nova si 4s version with Blade kit 400 mm
A with 1600 carriage	mm	-	-	-	4070	4070
A with 2250 carriage	mm	5300	5300	5300	-	-
A with 2600 carriage	mm	5970	5970	5970	-	-
A with 3200 carriage	mm	7170	7170	7170	-	-
A with 3800 carriage	mm	8390	8390	8390	-	-
B with cutting width on 1000 mm rip fence	mm	4810	4810	4810	4660	4720
B with cutting width on 1270 mm rip fence	mm	4955	5155	5155	4805	5005
B with cutting width on 1500 mm rip fence	mm	5370	5370	5370	5220	5220

TECHNICAL DATA		nova si 4	nova si 4 version with Blade kit 400 mm	nova si 4 version with Blade kit 400 mm and "READY 2"	nova si 4s	nova si 4s version with Blade kit 400 mm
Cast-iron saw-worktable dimensions	mm	900 x 550	1040 x 630	1040 x 630	900 x 550	1040 x 630
Saw blades tilting		90° ÷ 46°	90° ÷ 46°	90° ÷ 46°	90° ÷ 46°	90° ÷ 46°
Max. saw blade diameter with scoring blade (option) installed	mm	315	400	400	315	400
Max. saw blade projection from worktable at 90°/46°	mm	100/70	140/99	140/99	100/70	140/99
Saw blade rotating speed	rpm	4000	3700	3000/4000/5000	4000	3700
Squaring capacity	mm	2250 ÷ 3800	2250 ÷ 3800	2250 ÷ 3800	1600	1600
Cutting width on rip fence	mm	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	S	-	S	S
Three-phase motors 7 kW (9,5 hp) 50 Hz - 8 kW (11 hp) 60 Hz		O	O	S	O	O
Three-phase motors 9 kW (12 hp) 50 Hz - 11 kW (15 hp) 60 Hz		-	O	O	-	-
Exhaust hoods diameter						
- at the base	mm	120	120	120	120	120
- on overhead protection	mm	80	80	80	80	80
- on riving knife	mm	60	60	-	60	60

MAIN OPTIONAL DEVICES	nova si 4	nova si 4 version with Blade kit 400 mm	nova si 4 version with Blade kit 400 mm and "READY 2"	nova si 4s	nova si 4s version with Blade kit 400 mm
Independent powered scoring blade unit	0	0	0	0	0
Expandable scoring blade	0	0	0	0	0
"LED indicating scoring blade unit in operation" device	-	0	0	-	-
Blade kit 400 mm	0	S	S	0	S
"E2" kit: Saw blade unit electric lifting and tilting	0	0	-	-	-
"READY 2" version: Saw blade unit electronic-programmed lifting and tilting	-	0	S	-	-
Control push-buttons integrated in the sliding carriage	0	0	0	-	-
N.2 flip-over stops on the squaring fence with magnifying lens	0	0	0	-	-
Squaring fence with digital readouts for stops position	0	0	0	0	0
Fence for complementary cuttings	0	0	0	-	-
Second extension with sliding rail support	0	0	0	-	-
Squaring frame with "Quick Lock" fence	0	0	0	-	-
Squaring frame with "CompeX" device	0	0	0	-	-
"K" squaring frame	0	0	0	S	S
Angular cutting device with flip-over stops	0	0	0	0	0
Angular cutting device with self-adjustment	0	0	0	0	0
Fence for parallel cuttings on the sliding carriage	0	0	0	0	0
Additional table on the sliding carriage	0	0	0	0	0
Digital readout for rip fence position	0	0	0	0	0
"READY 3" version	-	-	0	-	-
"READY 3 UP" version	-	-	0	-	-
"READY 3 Plus" version	-	-	0	-	-
"READY 3 UP Plus" version	-	-	0	-	-
Panels support extension with roller conveyor on rip fence side	0	0	0	-	-
"SCM Thundercut" Optimizer/Sequencer App for tablet	S	S	S	S	S
Tablet holder on the sliding carriage	0	0	0	0	0
Adjustable tablet holder positioned on the mobile control panel	-	-	0	-	-
Arrangement for "DADO" machining	0	0	0	0	0
N.3 saw blade rotating speeds: 3000/4000/5000 rpm	-	0	S	-	-
Machine configuration for advanced materials machining	0	0	0	0	0
Device for the blade micro-lubrication for the machining of plastic materials and light alloys of aluminium and brass	0	0	0	0	0
Overhead sawblades protection	0	S*	S	0	S

* Standard for CE and USA/Canada versions; Option for NO CE version



circular saw with double tilting blade nova si x



±46° double tilting blade.

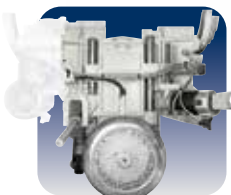
		nova si x	nova si 4k
Max. saw blade diameter with scoring blade (option) installed	mm	400	315 ÷ 400
Max. saw blade projection from worktable at 90°/+46°/-46°	mm	136/97/60	136/97/-
Squaring capacity	mm	2250 ÷ 3800	2250 ÷ 3800
Cutting width on rip fence	mm	1270	900 ÷ 1270
Three-phase motors power starting from	kW/Hz	7 (8) / 50 (60)	5 (6) / 50 (60)
<i>Find the complete technical specification at page 28</i>			



circular saw with tilting blade nova si 4k



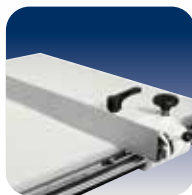
Version with Blade kit 400 mm.



Saw Unit
stiff structure



Sliding Carriage
unrivalled
cutting finishing



Rip Fence
smoothness and
rapidity



**SCM
Thundercut**
Optimizer/
Sequencer App

Professional circular saws for
uncompromising quality.

circular saws saw blade units

stiff structure

Saw blade units

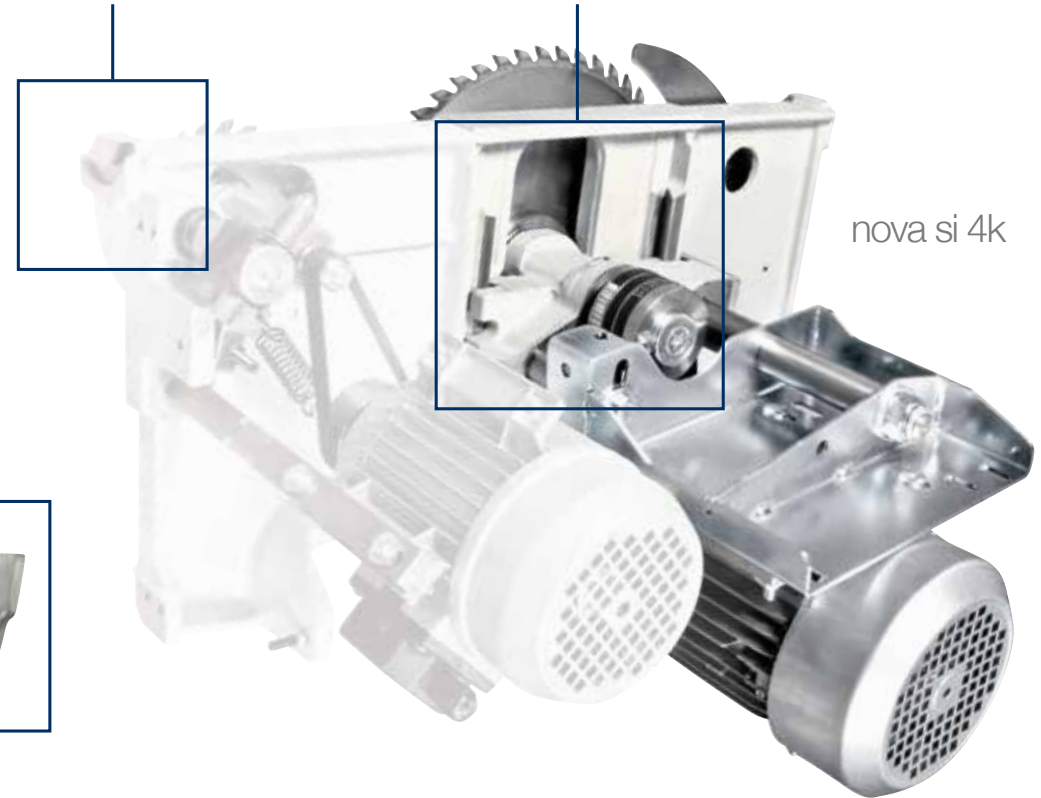
Saw blade units with a stiff cast-iron structure which can accommodate a **blade of 400 mm diameter with scoring blade (option) installed.**



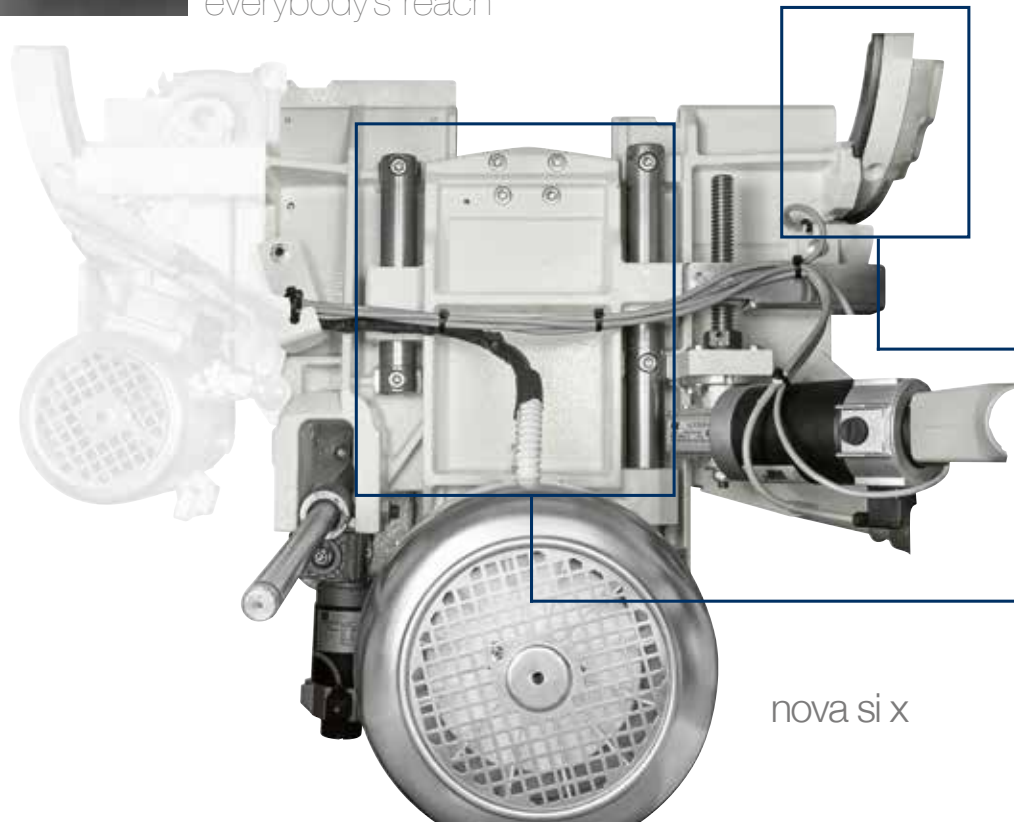
double tilting at
everybody's reach

The rotation fulcrums of the saw blade unit have a 120 mm diameter and stand on steady crescent shaped rests that separate it from the base: a rigid reliable solution.

For *nova si 4k*, the lifting of the blades unit is done by a robust cast iron structure with dovetail system.



nova si 4k



nova si x

The $\pm 46^\circ$ tilting of the unit is done by 2 wide semi-circular fences.

For *nova si x* the lifting of the blades unit is done by 2 ground cylindric bars.

circular saws optional scoring blade unit

Optional scoring blade unit

The unit can be equipped, on request, with a scoring blade for a perfect cut even on veneered panels.



Independent powered scoring blade unit

With external set-up.

Features (*nova si x*):

- blade diameter: 160 mm
- blade rotating speed: 6.000 rpm
- motor power: 0,9 kW (1,2 hp) 50 Hz - 1 kW (1,3 hp) 60 Hz

Features (*nova si 4k*):

- blade diameter: 120 mm
- blade rotating speed: 9.200 rpm
- motor power: 0,65 kW (0,9 hp) 50 Hz - 0,75 kW (1 hp) 60 Hz

It is also available in the version with belt transmission system from the main motor.



Expandable scoring blade

Manually expandable with variable thickness:

- from 2,5 to 3,5 and from 3,5 to 4,5 mm;
blade diameter: 160 mm (*nova si x*)
- from 2,8 to 3,6 mm; blade diameter: 120 mm (*nova si 4k*)



The scoring blade is adjustable from the outside without tools and allows fast and accurate positioning with no play.

circular saws operating groups



unrivalled cutting finishing

Sliding carriage

Optimal support also for larger work-pieces, with the **sliding carriage, 360 mm width**.

The **carriage locking in any position** makes the machine even more ergonomic and easy to use.



High accuracy and smoothness: to secure the fences it is not used glue, since the thickness could affect sliding. They are secured with a **procedure of aluminum riveting**.

reliability and technology without comparison

10 years of SCM guarantee for the carriage sliding system.



immediate control

Squaring frame and fence

Panel loading is easy on the large squaring frame with an idle roller at the end. 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.

smoothness and
rapidity

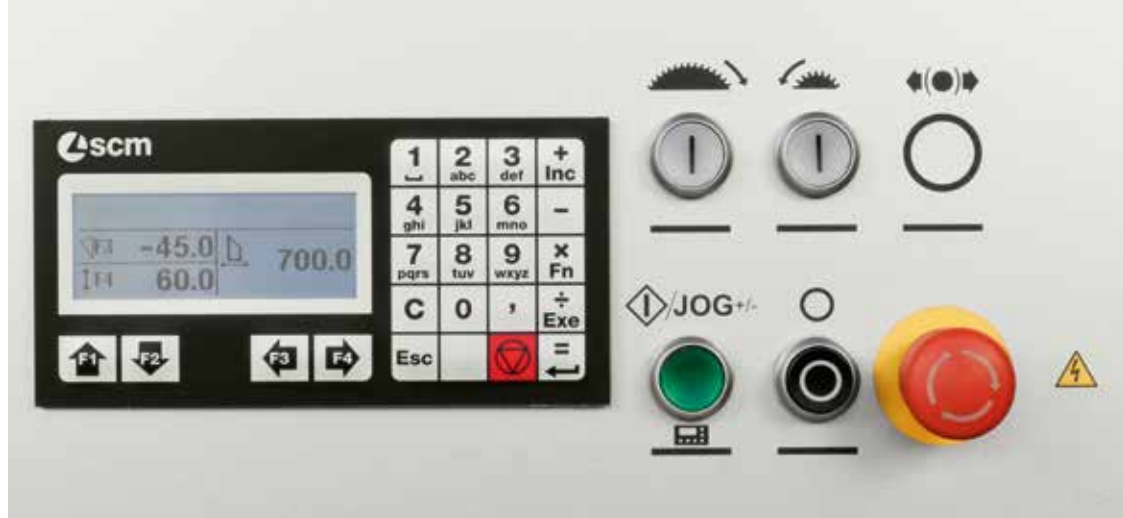
Rip fence

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.



circular saws optional electronic controls

The **"READY"** control system manages the powered and programmed movement of the saw blade unit increasing productivity and working quality.
(standard per nova si x)



"READY 3" / "READY 3 UP"
Automatic positioning of the rip fence from "READY 3" (3 axes) control system. Programmed or manual fence movement with a hold-down drive for the maximum versatility. In addition, the **"READY 3 UP" version** is fitted with mobile control panel.

"E2": powered movement of the machining units with digital readouts
For maximum comfort and accuracy and comfort.
Also available in **"E1" kit version** with powered lifting only.



Control push-buttons integrated in the sliding carriage

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.**



circular saws main optional devices

**Squaring frame with
"Quick Lock" fence**
Minimum set-up time with
the **SCM system that allows
rapid fence positioning.**
The stronger frame support
maximise performance.



"Nova" squaring frame

Dimensions: 1500x680 mm.

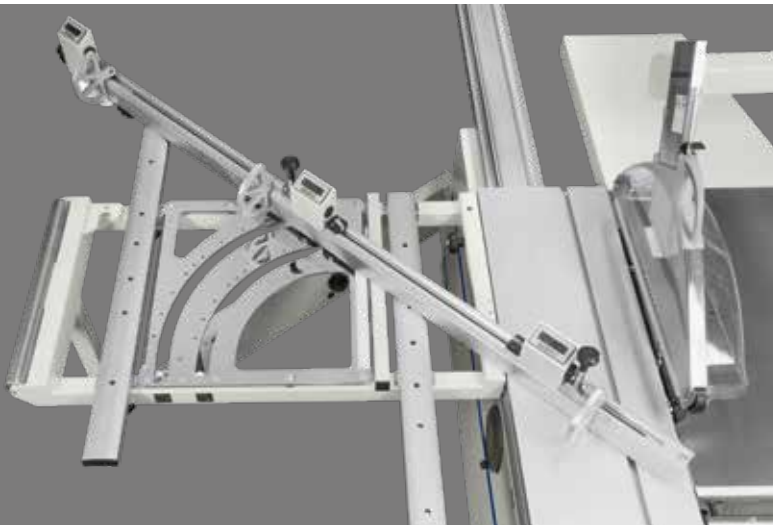
Fitted with:

- telescopic fence with metric rule tilted towards the operator and 2 flip-over stops with magnifying lens to facilitate the data readout
- "Nova" telescopic swinging arm support
- idle roller to facilitate the panel loading/unloading



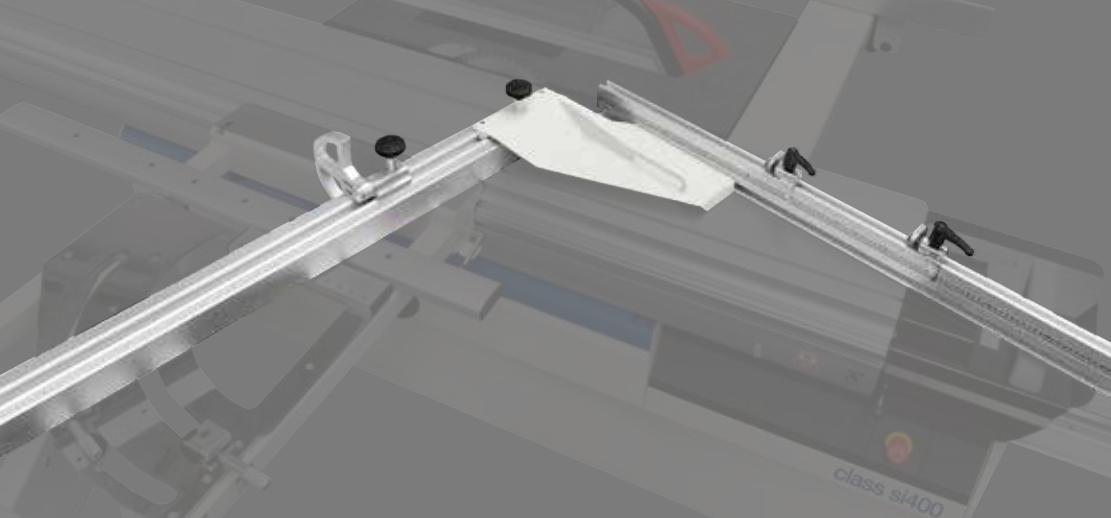
Squaring frame with "CompeX" device

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



Digital readouts on the squaring stops

The stops can be easily read even from distance.



Fence for complementary cuttings

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

Fence for parallel cuttings on the sliding carriage

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**.

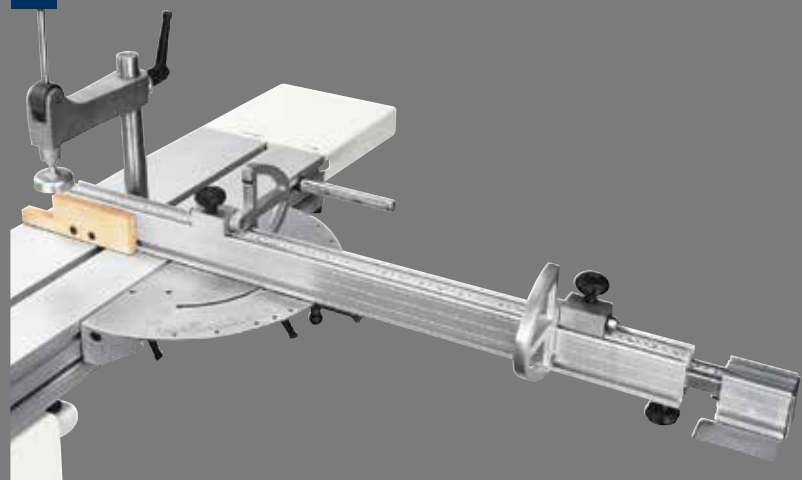


Angular cutting devices

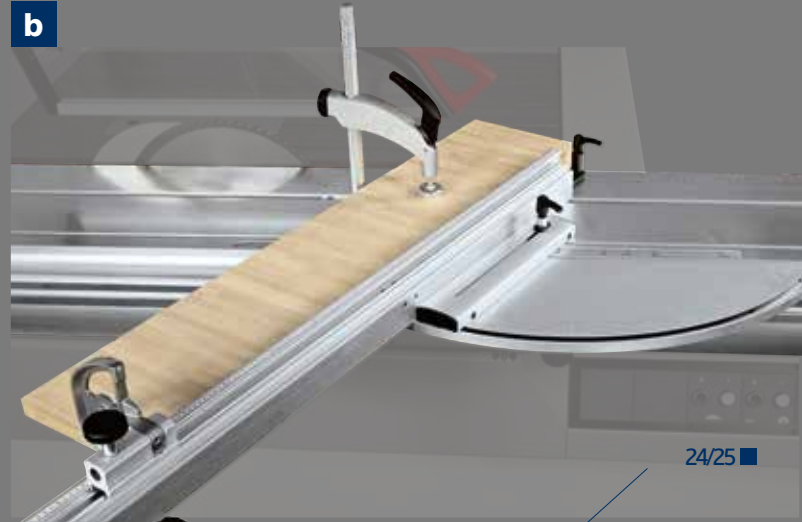
Available for the following versions

- a) traditional
- b) with automatic self-adjustment of the stops position in relation to the blade

a



b



circular saws main optional devices



Inverter for motor control with single-phase electrical networks
Innovative power supply: it operates on a single-phase electrical network but it guarantees performance as three-phase power supplies.
Superior motor power: 4kW on single-phase electrical networks.
Energy efficiency: 15% energy savings compared to a traditional single-phase motor (on mixed use cycle).
Advanced braking system: safe and reliable brake without the need for the system adjustment or maintenance.
"Soft" motor start: it reduces the belts wear and it prevents electrical overloads, providing great durability of mechanical parts.

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

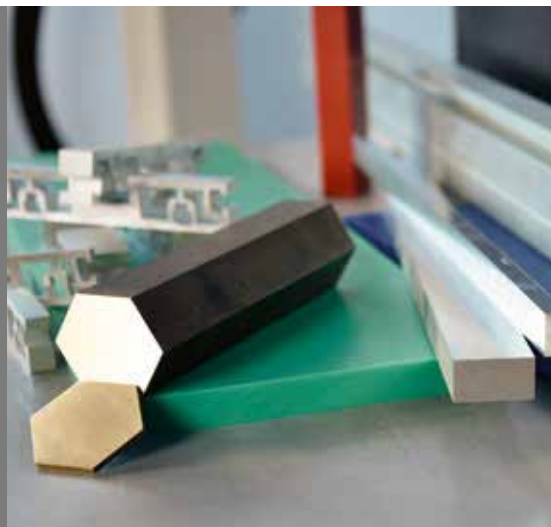


Adjustable tablet holder positioned on the mobile control panel
Compatible with tablets from 7" to 13".
It is equipped with USB port for power supply positioned on the mobile control panel.



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.

The **device for the blade micro-lubrication** is compulsory for the machining of light alloys.



Arrangement 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.



"Nova" dedicated saw rip fence

Fitted with:

- "high rigidity" cast-iron support; dimensions: 540x190 mm
- aluminum anodized-extruded fence; dimensions: 90x56 mm
- micrometric adjustment and cam-locking system
- rectified steel round sliding bar; diameter: 45 mm



Digital readout for data view on rip fence position
It is fitted with digital display and magnetic band.



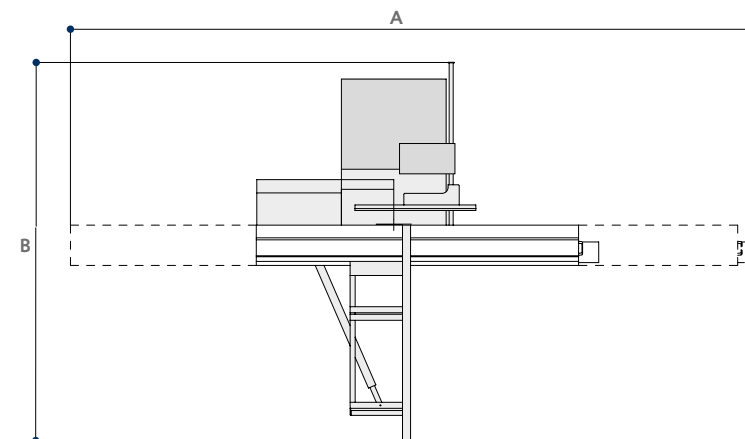
Additional table on the sliding carriage
For the support of large dimensioned panels.



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

circular saws technical data

S Standard
O Option



OVERALL DIMENSIONS		nova si x	nova si 4k	nova si 4k with Blade kit 400 mm
A with 2250 carriage	mm	5250	5250	5250
A with 2600 carriage	mm	5970	5970	5970
A with 3200 carriage	mm	7170	7170	7170
A with 3800 carriage	mm	8390	8390	8390
B with cutting width on 900 mm rip fence	mm	-	4520	4520
B with cutting width on 1270 mm rip fence	mm	4880	4880	4880

TECHNICAL DATA		nova si x	nova si 4k	nova si 4k with Blade kit 400 mm
Cast-iron saw-worktable dimensions	mm	1000 x 685	940 x 560	1000 x 560
Saw blades tilting		-46° ÷ +46°	90° ÷ 46°	90° ÷ 46°
Max. saw blade diameter with scoring blade (option) installed	mm	400	315	400
Max. saw blade projection from worktable at 90°/+46°/-46°	mm	136/97/60	100/71/-	136/97/-
Saw blade rotating speed	rpm	4000	4000	4000
Squaring capacity	mm	2250 ÷ 3800	2250 ÷ 3800	2250 ÷ 3800
Cutting width on rip fence	mm	1270	900 ÷ 1270	900 ÷ 1270
other technical features				
Three-phase motors 5 kW (6,6 hp) 50 Hz - 6 kW (8 hp) 60 Hz		-	S	S
Three-phase motors 7 kW (9,5 hp) 50 Hz - 8 kW (11 hp) 60 Hz		S	O	O
Exhaust hoods diameter				
- at the base	mm	120	120	120
- on overhead protection	mm	80	80	80
- on riving knife	mm	-	60	60

MAIN OPTIONAL DEVICES	nova si x	nova si 4k	nova si 4k with Blade kit 400 mm
Independent powered scoring blade unit	O	O	O
Scoring blade unit with belt transmission system from the main motor	-	O	O
Expandable scoring blade	O	O	O
Blade kit 400 mm	S	O	S
"E2" kit: Saw blade unit electric lifting and tilting	-	O	O
"E1" kit: Saw blade unit electric lifting	-	O	O
"READY 3" version	O	-	O
"READY 3 UP" version	O	-	O
Control push-buttons integrated in the sliding carriage	O	O	O
Work-piece middle support crossbar on the squaring frame	O	O	O
Squaring frame with "CompeX" device	O	O	O
Squaring fence with digital readouts for stops position	O	O	O
Pre-set angular cutting device placed directly on the squaring frame	O	O	O
"Nova" squaring frame	O	O	O
Fence for complementary cuttings	O	O	O
Squaring frame with "Quick Lock" fence	O	O	O
Angular cutting device with flip-over stops	O	O	O
Angular cutting device with self-adjustment	O	O	O
Fence for parallel cuttings on the sliding carriage	O	O	O
Additional table on the sliding carriage	O	O	O
"Nova" dedicated saw rip fence	O	O	O
Digital readout for data view on rip fence position	O	O	O
"READY 1" (1-axis) version: Powered rip fence control	-	O	O
Panels support extension with roller conveyor on rip fence side	O	O	O
"SCM Thundercut" Optimizer/Sequencer App for tablet	S	S	S
Tablet holder on the sliding carriage	O	O	O
Adjustable tablet holder positioned on the mobile control panel	O	-	O
Arrangement for "DADO" machining	O	-	O
Machine configuration for advanced materials machining	-	O	O
Device for the blade micro-lubrication for the machining of plastic materials and light alloys of aluminium and brass	-	O	O
N.2 saw blade rotating speeds: 3500/5000 rpm	O	-	O
Inverter for motor control with single-phase electrical networks	O	O	O
Overhead sawblades protection	S	O	S*

* Standard for CE and USA/Canada versions; Option for NO CE version

surface planers

nova f 520

nova f 410

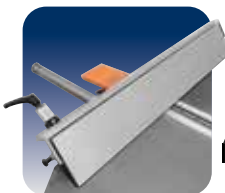


		nova f 520	nova f 410	nova s 630	nova s 520
Working width	mm	520	410	630	520
Cutterblock diameter/standard knives	mm/n.	120/4	120/4	120/4	120/4
Total worktable length	mm	2750	2610	-	-
Max. stock removal	mm	8	8	8	8
Min. ÷ max. working height on thicknesser		-	-	3,5 ÷ 300	3,5 ÷ 300
Three-phase motors power starting from	kW/Hz	5 (6) / 50 (60)	5 (6) / 50 (60)	7 (8) / 50 (60)	7 (8) / 50 (60)

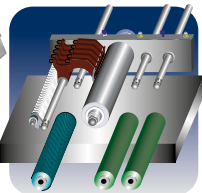
Find the complete technical specification at page 38

thicknessing planers

nova s 630
nova s 520



Surface Fence
high rigidity



Interchangeable Rollers
for every requirement



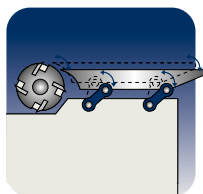
SCM Cutterblock
simple and rapid

Perfect surfaces, practical
and safe, ergonomics.

surfacing-thicknessing
planers
nova fs 520
nova fs 410



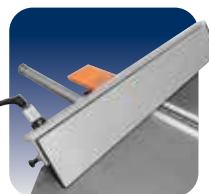
		nova fs 520	nova fs 410
Working width	mm	520	410
Cutterblock diameter/standard knives	mm/n.	120/4	95/4
Total worktable length	mm	2250	2200
Min. ÷ max. working height on thicknesser	mm	3,5 ÷ 240	3,5 ÷ 240
Three-phase motors power starting from	kW/Hz	7 (8) / 50 (60)	5 (6) / 50 (60)
Find the complete technical specification at page 38			



**Feeding on
Connecting Rods**
constant precision



Thickening Table
rigidity and
accuracy



Surface Fence
high rigidity

Easy and rapid to use with great performance
in a limited space.

planers operating groups

high rigidity Surface fence

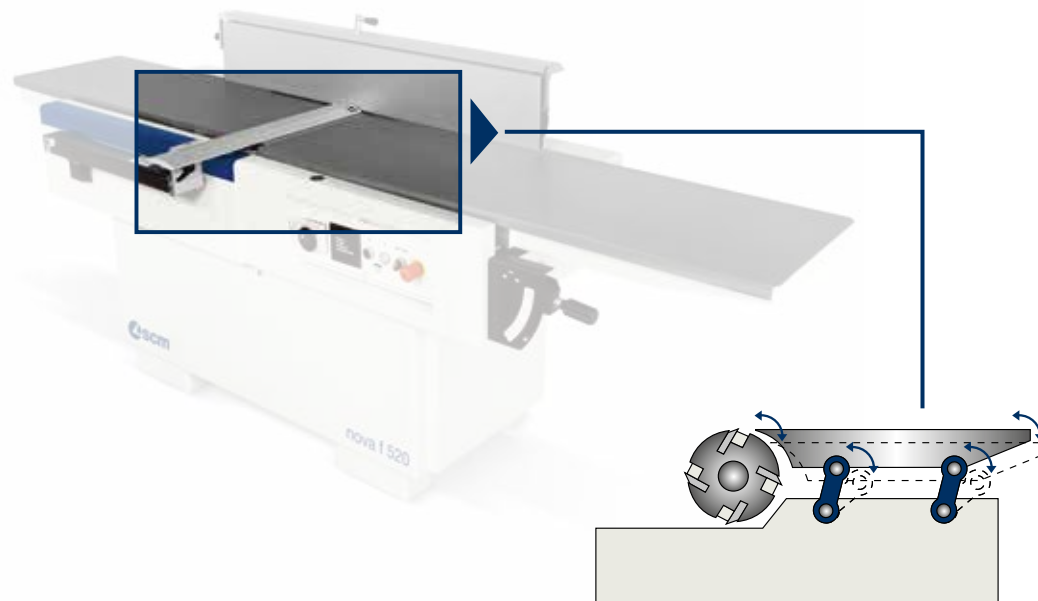
High rigid fence with a smooth movement thanks to the **central locking on round bar**. The graduated scale facilitates the operator in positioning the guide to the required tilting.



a guarantee of
perfect planarity

Simultaneous raising of the worktables

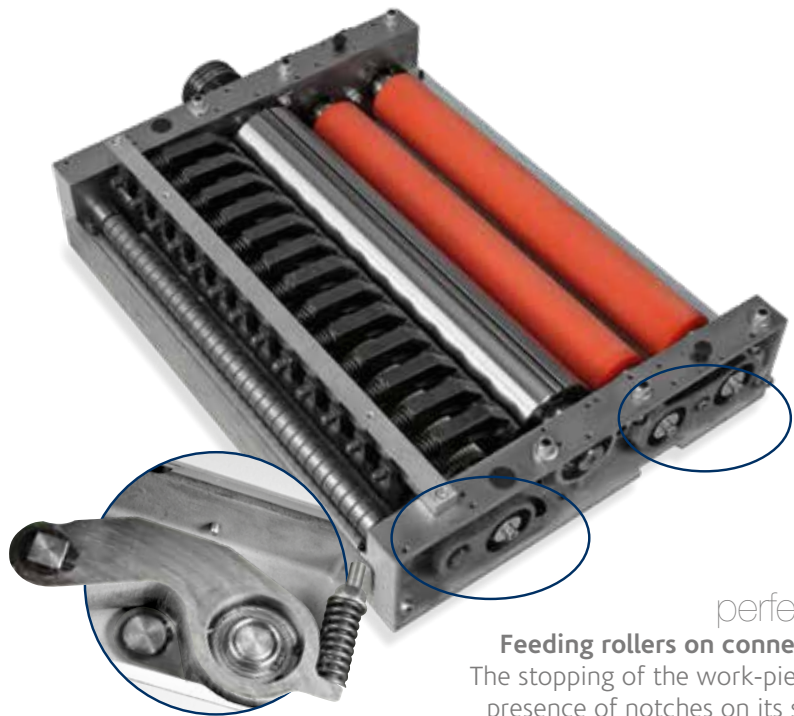
The system allows the **changeover from planer to thicknesser** with a single movement ensuring working rapidity and accuracy.



constant precision over time

Feeding on connecting rods

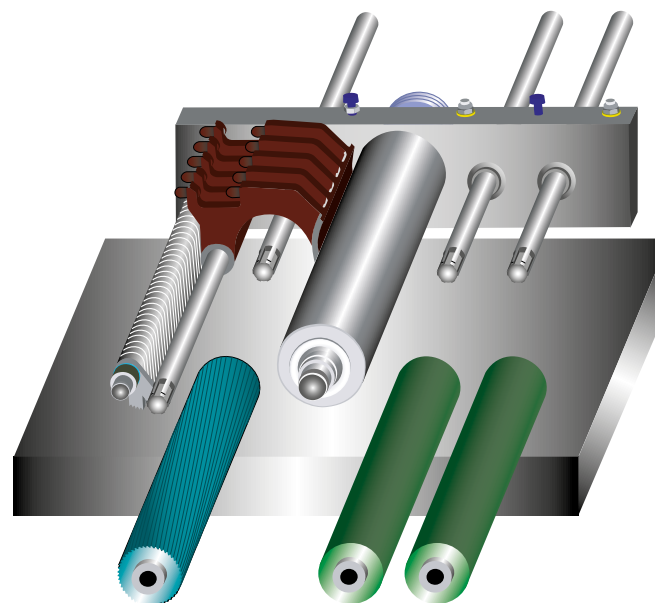
Very accurate machining with the movement of the infeed table by means of a parallelogram **kinetic mechanism which always gives the same distance between the cutterblock and the table**. The system operating directly on the connecting rods avoids any exertion to the table assuring constant planarity over time.



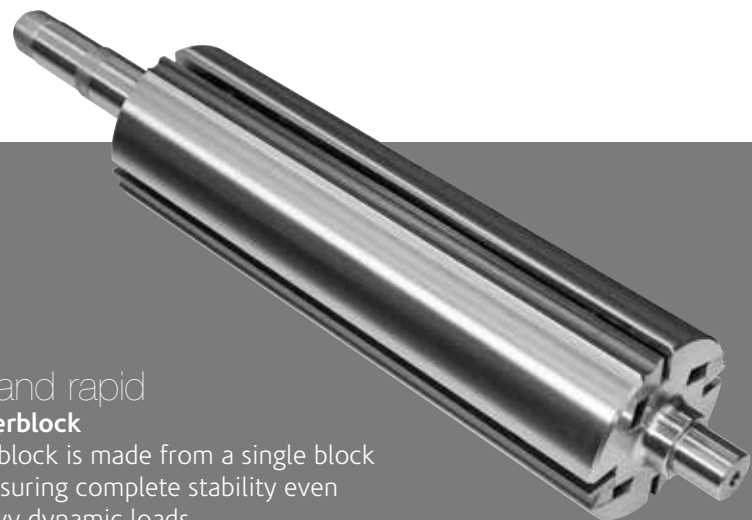
perfect finish

Feeding rollers on connecting rods

The stopping of the work-piece and the presence of notches on its surface are eliminated due to the movement system on all three rollers, that allows their vertical displacement by rotation and **the best linear feeding**. Perfect surfaces and high feeding performance with the standard rubber rollers.



solutions for every requirement
Interchangeable rollers
Perfect finish obtained by quick and easy changeover of the rollers that allows the operator to configure the machine drive function in case of special requirements, such as a minimum removal of fine wood and/or batches where multiple pieces of different thicknesses are processed.
(third powered roller available as option)



simple and rapid

SCM cutterblock

The cutterblock is made from a single block of steel ensuring complete stability even under heavy dynamic loads.

Powered worktable lifting with micrometric adjustment.

The 4 screws with a large diameter combined with the 2 side linear guides ensure worktable stability. The integrated protections guarantee high precision and reliability over time.



planers main optional devices



"Tersa" monoblock cutterblock

The cutterblock is made from a single block of steel ensuring complete stability even under heavy dynamic loads. Automatic knives clamping by means of the centrifugal force ensures safe and precise machining. The system, without fixing screws, makes knives substitution extremely fast.



"Xylent" spiralknife cutterblock

The 3 spiralknives give an exceptional finish.

Reduced noise during machining provides a more comfortable working environment.

It also improves the dust extraction due to the **production of very small chips**.

Each cutter has 4 tips which can be rotated into the cutting position when worn.

Therefore, increasing the production life of the cutter block **before knives** require replacement.



Maintenance case for "Xylent" spiralknife cutterblock

It includes:

- 1 cleaning/degreasing liquid bottle for the resins cleaning
- 1 set dynamometric key
- 2 bit Torx
- 10 inserts
- 5 screws
- 1 brass bristle brush to clean the spindle with mounted in inserts
- 1 steel bristle brush to clean the inserts housings



**Thickening table extension
to be used in infeed
or outfeed**

It can be installed on the
worktable end side.



Additional overturning fence

Integrated in the surface fence,
it ensures perfect operator safety
when machining small dimensioned
work-pieces.



Cast-iron mortiser

Drilling holes and mortises are easily
carried out. It includes the exhaust hood,
120 mm diameter and 16 mm chuck.

Sectioned steel roller
It allows the simultaneous processing of
different thicknesses giving great results
even with minimum removal.



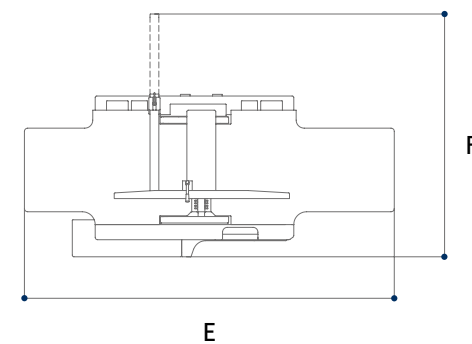
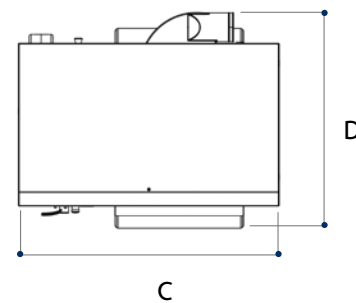
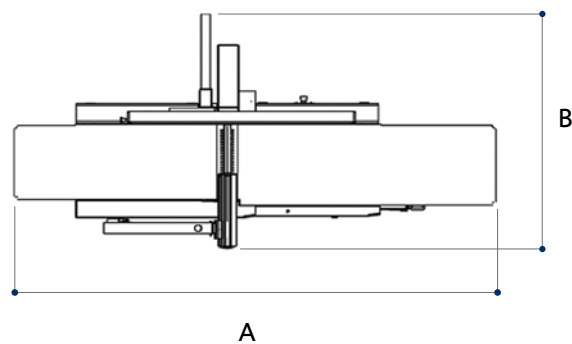
Thickening table with idle rollers

It enables the feeding of moist and/or
resinous wood. Particularly suitable for
heavy duty woodworking operations
and with rough work-pieces.

**Outfeed rollers in
sandblasted steel**
For a perfect
post-processing finish.



planers technical data



S Standard
O Option

TECHNICAL DATA		nova f 520	nova f 410	nova s 630	nova s 520	nova fs 520	nova fs 410
Working width	mm	520	410	630	520	520	410
Cutterblock diameter/standard knives	mm/n.	120/4	120/4	120/4	120/4	120/4	95/4
Standard knives dimensions	mm	35 x 3 x 520	35 x 3 x 410	35 x 3 x 640	35 x 3 x 520	30 x 3 x 520	30 x 3 x 410
Max. stock removal	mm	8	8	8	8	5	5
Total worktable length	mm	2750	2610	-	-	2250	2200
Thickening table dimensions	mm	-	-	640 x 1000	530 x 900	520 x 850	410 x 775
Feed speed on thickener	m/min	-	-	5/8/12/18	5/8/12/18	5/8/12/18	6/12
Min. ÷ max. working height on thickener	mm	-	-	3,5 ÷ 300	3,5 ÷ 300	3,5 ÷ 240	3,5 ÷ 240
other technical features							
Three-phase motors 5 kW (6,6 hp) 50 Hz - 6 kW (8 hp) 60 Hz		S	S	-	S	-	S
Three-phase motors 7 kW (9,5 hp) 50 Hz - 8 kW (11 hp) 60 Hz		O	O	S	O	S	O
Three-phase motor 9 kW (12 hp) 50 Hz - 11 kW (15 hp) 60 Hz		-	-	O	-	O	-
Exhaust hood diameter	mm	120	120	150	150	120	120

OVERALL DIMENSIONS		nova f 520	nova f 410	nova s 630	nova s 520	nova fs 520	nova fs 410
A	mm	2750	2610	-	-	-	-
B	mm	1415	1150	-	-	-	-
C	mm	-	-	1275	1140	-	-
D	mm	-	-	1080	1003	-	-
E	mm	-	-	-	-	2250	2200
F	mm	-	-	-	-	1510	1200

MAIN OPTIONAL DEVICES	nova f 520	nova f 410	nova s 630	nova s 520	nova fs 520	nova fs 410
"Tersa" monoblock cutterblock	O	O	O	O	O	O
"Xylent" spiralknife cutterblock with 3 spiralknives	O	O	O	O	O	O
Maintenance case for "Xylent" spiralknife cutterblock	O	O	O	O	O	O
Additional overturning fence for the processing of thin work-pieces	O	O	-	-	O	O
Worktable with 2 idle rollers	-	-	O	O	O	-
First front sectioned steel roller in place of the grooved one	-	-	O	O	-	-
Outfeed steel rollers in place of the rubber-coated ones	-	-	O	O	-	-
Powered thicknessing table lifting with micrometric movement	-	-	S	S	O	O
Cast-iron mortiser	-	-	-	-	O	O
Thicknessing table extension to be used in infeed or outfeed	-	-	O	O	O	-

spindle moulders

nova tf 110

nova ti 105

nova tf 100



		nova tf 110	nova ti 105	nova tf 100
Spindle height CE Ø 30-35 (40-50)	mm	140 (180)	125 (125)	125 (125)
Max. diameter of the profiling tool	mm	250	240	240
Max. tool diameter retractable under worktable at 90°	mm	320	240	240
Max. diameter of tenoning tool CE Ø 30-35 (40-50)	mm	300 (350)	275 (320)	240 (240)
Three-phase motors power starting from	kW/Hz	5 (6) / 50 (60)	5 (6) / 50 (60)	5 (6) / 50 (60)
<i>Find the complete technical specification at page 46</i>				



Spindle Moulder Unit
sturdiness and
versatility



Spindle Moulder Fence
set-up rapidity



Machine Versions
specialisation and
professionalism

Precision and reliability in unbeatable time.

spindle moulders operating groups

sturdiness and versatility

Spindle moulder unit

Maximum stability and rigidity in all working conditions, thanks to a **large spindle moulder column made entirely of cast iron**.

The spindle is surrounded by a cast iron "cup" to protect the internal mechanical components from shavings and sawdust.

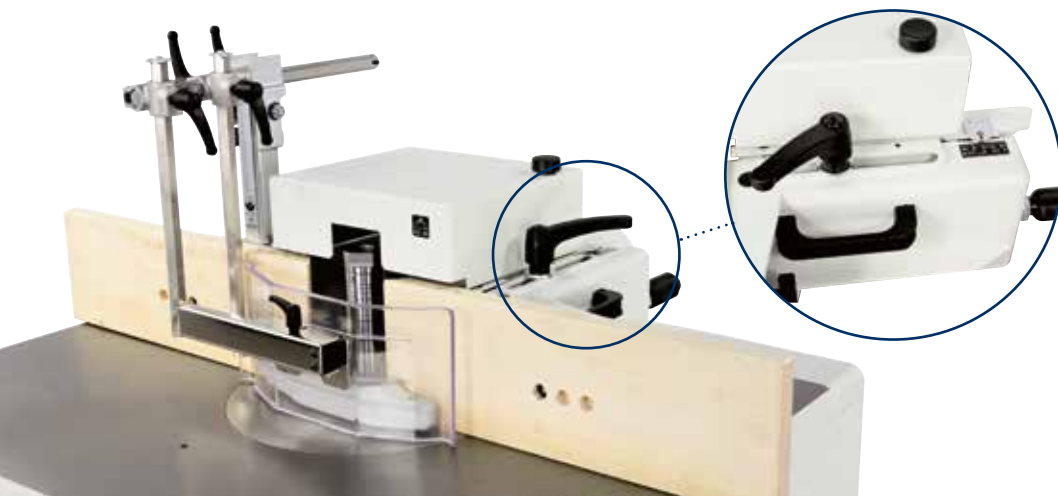
The 5 standard speed (4 speed for *nova ti 105* and *nova tf 100*) are ideal for any type of machining, from profiling to moulding and tenoning, with the possibility to fit large diameter tools.



easy to use

Adjustable spindle moulder fence

A handle provides the setting-up of the infeed table, which effects the removal and it is verified by an index on a metric scale.



nova ti 105

optional electronic controls



Powered operating unit movement
with digital readouts
Maximum precision and ease-of-use.

"Flex One" spindle moulder fence
Automatic adjustment of the entire
fence according to the tool diameter.
The "Flex" exclusion system
(SCM solution) is user-friendly
with precise re-positioning.



"READY 3 UP"

The programming of the work becomes
simple and effective with the electronic
mobile control panel with a 4" LCD
colour screen. Working mode: manual,
semi-automatic and automatic with a
memory capacity of up to 99 programs.



Tool-hoder
shaft lifting



Tool-hoder
shaft tilting



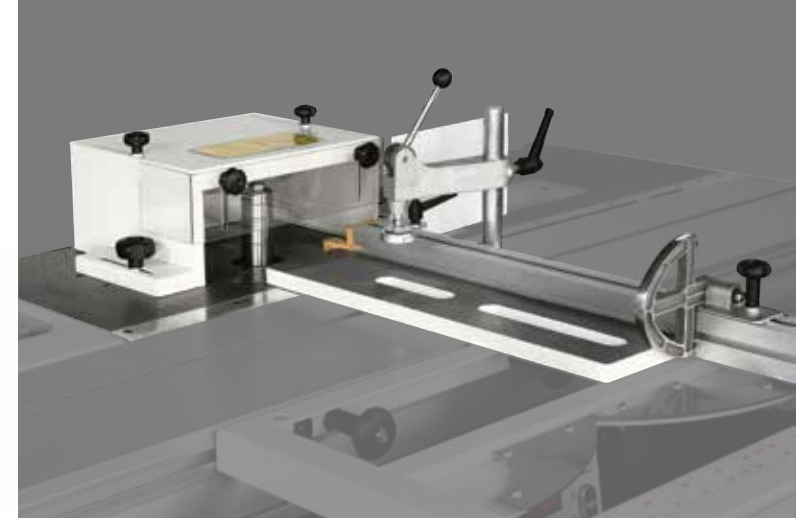
Adjustment of the
entire profiling
fence



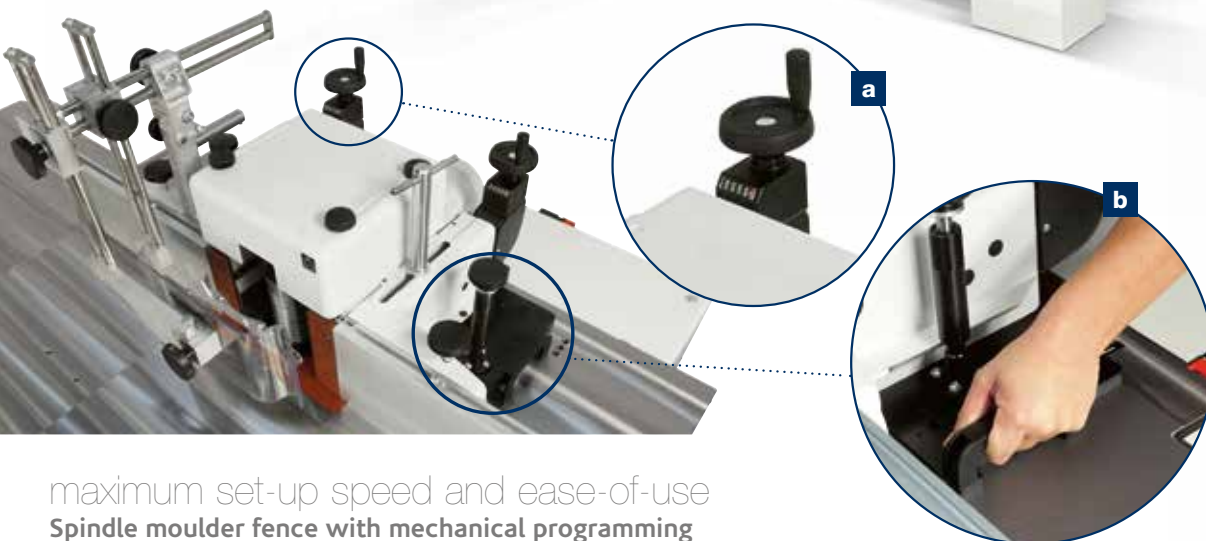
Tool-hoder shaft
speed readout

spindle moulders machine versions

For the profiling of very large work-pieces, the *nova ti 105* can be equipped with a **support frame complete with two reversible stops**.



The *nova ti 105* "version with front sliding carriage" can be equipped with **tenoning table and tenoning hood** in order to house tools, 320 mm max. diameter (300 mm USA/ Canada).



maximum set-up speed and ease-of-use

Spindle moulder fence with mechanical programming

No more test runs due to digital readouts (a) that ensure accuracy to a tenth of a millimetre in positioning the two worktables. The side handles (b) make it easy to remove and reposition the fence from the worktable.



Carriage on worktable for small tenoning operations

Ideal for tenoning of small work-pieces for the versions without sliding carriage. Mitre cuts with angles of $\pm 60^\circ$ on the worktable are possible. Easy fitting and removal due to the fixing system on the worktable.



"TL" versions

Top machining precision and stability due to the manual feed carriage with castiron structure mounted on axial bearings running on slideways made from hardened and ground bar.



For a total safety and a higher flexibility, the machine is supplied, as standard feature, with a **special protection hood for moulding operations.**



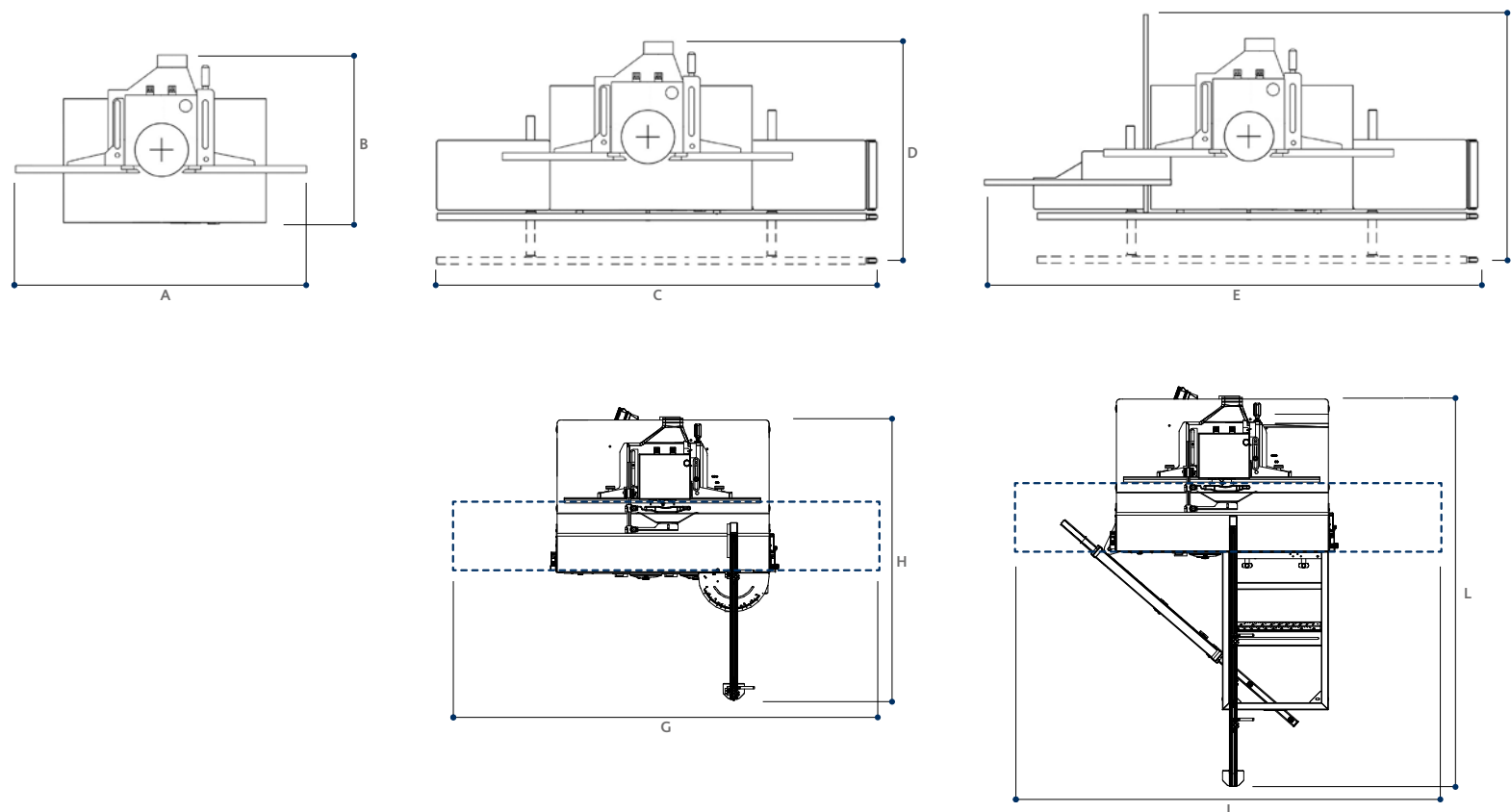
"LL" versions with worktable side extensions

Ideal when machining very long work-pieces due to worktable extensions. The mobile front bar makes it easy to move large dimensioned work-pieces on the worktable, particularly for edge profiling.



spindle moulders technical data

S Standard
O Option



TECHNICAL DATA		nova tf 110	nova ti 105	nova tf 100
Worktable dimensions	mm	1200 x 730	1200 x 855	1080 x 655
Spindle tilting		-	0° ÷ +45°	-
Spindle height CE Ø 30-35 (40-50)	mm	140 (180)	125 (125)	125 (125)
Spindle speed (at 50 Hz)	rpm	3000/4500/6000/7000/10.000	3500/6000/8000/10.000	3500/6000/8000/10.000
Max. diameter of the profiling tool	mm	250	240	240
Max. tool diameter retractable under worktable at 90°	mm	320	240	240
Max. diameter of tenoning tool CE Ø 30-35 (40-50)	mm	300 (350)	275 (320)	240 (240)
other technical features				
Three-phase motors 5 kW (6,6 hp) 50 Hz - 6 kW (8 hp) 60 Hz		S	S	S
Three-phase motors 7 kW (9,5 hp) 50 Hz - 8 kW (11 hp) 60 Hz		O	O	O
Exhaust hood diameter:				
- at the base	mm	120	120	120
- on the spindle moulder fence	mm	120	120	120

OVERALL DIMENSIONS		nova tf 110	nova ti 105	nova tf 100
A	mm	1200	1200	1111
B	mm	730	855	655
C	mm	2600	2600	2600
D min.	mm	800	920	720
D max.	mm	1250	1220	1020
E	mm	3150	-	-
F min.	mm	800	-	-
F max.	mm	1250	-	-
G	mm	-	2800 ÷ 3850	-
H	mm	-	2354	-
I	mm	-	2800 ÷ 3850	-
L	mm	-	3200	-

MAIN OPTIONAL DEVICES		nova tf 110	nova ti 105	nova tf 100
"READY 3 UP" version with "Flex One" spindle moulder fence		-	0	-
Support frame with tiltable telescopic fence complete with 2 reversible stops		-	0	-
Powered operating unit movement with digital readouts		-	0	-
Spindle moulder fence with mechanical programming		0	0	0
Aluminium tabled instead of the wooden ones for profiling fence		0	0	0
Interchangeable spindle		0	0	0
Spindle for router bits		0	0	0
"LL" version with 2 cast-iron profiling extensions		0	0	0
"TL" version for tenoning and profiling		0	-	-
Tenoning table and tenoning hood		-	0	-
Carriage on the fixed table for small tenoning operations		0	0	0



SERVICE AND MAINTENANCE



TRAINING SERVICE



SPARE PARTS



DIGITAL SERVICES

scm | service

**WE'LL GO THE
EXTRA MILE
FOR YOU**

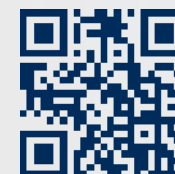
CONTACT

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

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!**



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

SOLUTIONS AND SERVICES ALWAYS CONNECTED FOR YOU



SCM, A STRATEGIC PARTNER, BY YOUR SIDE AT EACH STAGE OF YOUR BUSINESS PROCESS

SCM has always stood alongside companies in the woodworking sector, with **technological solutions and services which are constantly connected to maximise the machine's efficiency, improve product quality and reduce operating costs.**

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

SCM GROUP, THE MOST ADVANCED SKILLS AND KNOW-HOW IN THE FIELDS OF MACHINERY AND INDUSTRIAL COMPONENTS OVER THE LAST 70 YEARS

INDUSTRIAL MACHINERY

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



Woodworking technology



Composite, aluminium, plastic, glass, stone, metal technology



Technologies for the profiles processing of aluminium, PVC and light alloy



Automated systems for industry

INDUSTRIAL COMPONENTS

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



Electrospindles and technological components



Electrical panels



Metalworking and mechanical machining



Iron castings



is more



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



00L0592603G