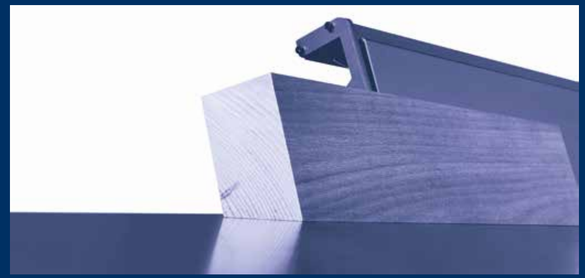
joinery machines

# nova *range*

classical machines for the advanced joinery

REV. N. 03 - 05.2025 - MIC STUDIO

**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

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

## 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 | **nova si 4 (“READY” versions)** page 7 | **nova si x** page 18 |
| | manual | **nova si 4** page 6 | **nova si 4s** page 7 |
| | | | **nova si 4k** page 19 |
| planers | surface planers | **nova f 520** page 30 | **nova f 410** page 30 |
| | thicknessing planers | **nova s 630** page 31 | **nova s 520** page 31 |
| | surfacing-thicknessing planers | **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

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 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.

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

# circular saws
# nova si 4
# nova si 4s


Version with Blade kit 400 mm.


Version with Blade kit 400 mm.


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

| | | 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) |

*Find the complete technical specification at page 16*

**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

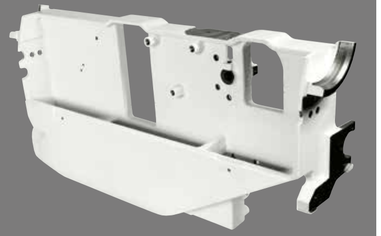
**Handwheels on the machine front**

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

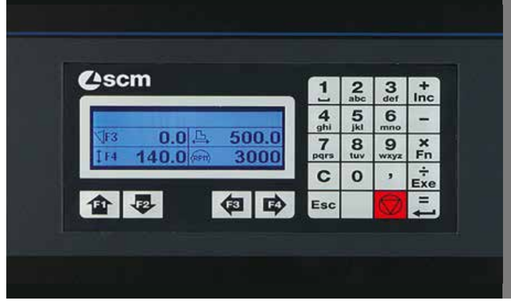
**Squaring frame and fence**

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.




## 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

## maximum practicality

**Contol 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.

## 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.

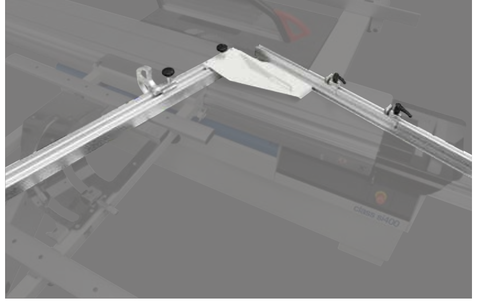
**Second extension with sliding rail support**
to safely support panels for large dimension and weight.



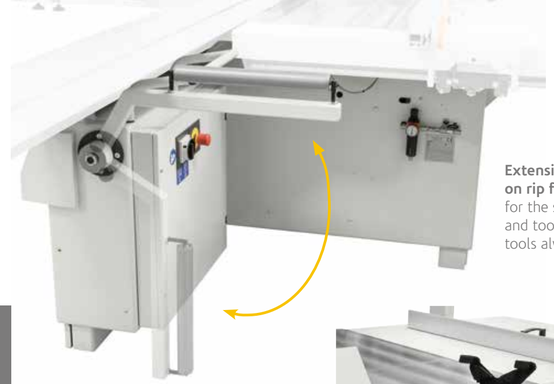
**Squaring stops with lens**
For a better view of the data.

**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.



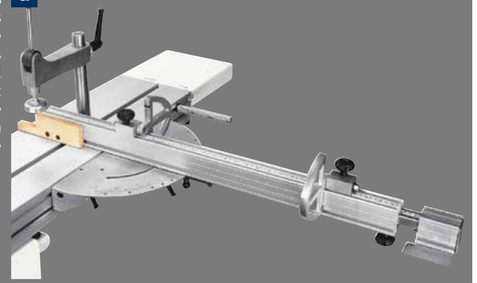
**Extension with roller conveyor on rip fence side,**
for the support of large panels, and tools-holder to have the tools always within reach.


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

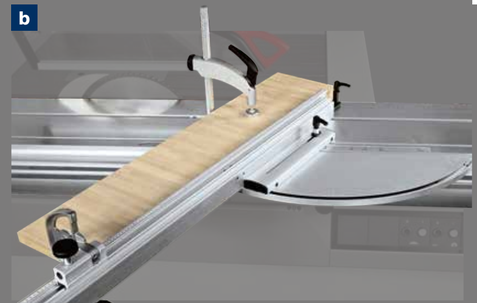
**Fence for parallel cuttings on the sliding carriage**
The exclusive referencing system for the first trim cut allows the setting of trim quantity to be cut for every side **without any test cuts.**

**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

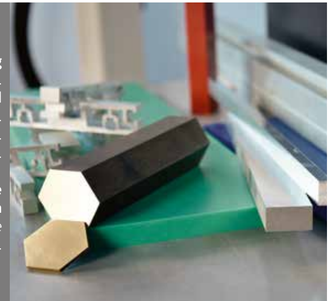


**Tablet holder on the sliding carriage**
Compatible with tablets from 8" to 11".

**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.

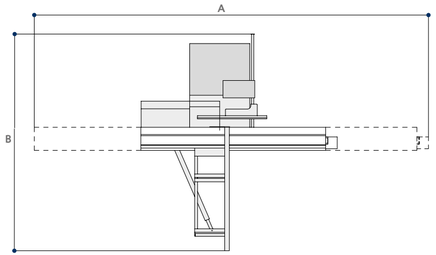
The **device for the blade micro-lubrication** is compulsory for the machining of light alloys.



**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 |

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

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

# circular saw with double tilting blade nova si x

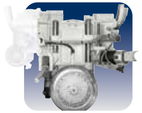



±46° double tilting blade.

| | | 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) |
| *Find the complete technical specification at page 28* | | | |

# 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.

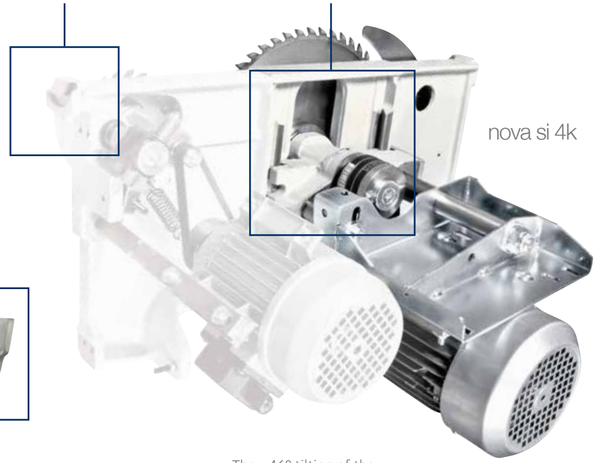
# circular saws saw blade units

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.

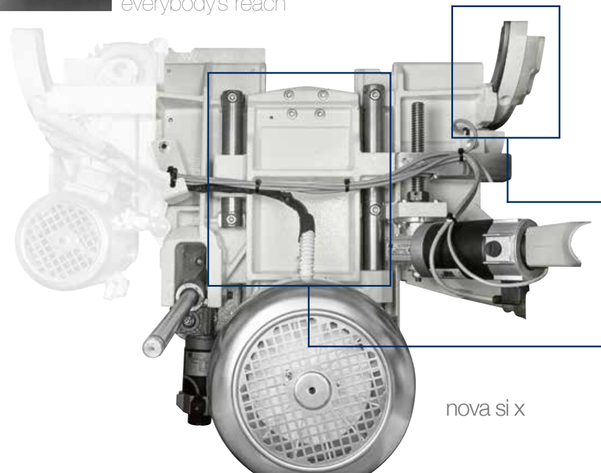
stiff structure

**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.**



nova si 4k

double tilting at everybody's reach



The ±46° 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.

nova si x

# 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.**

## smoothness and rapidity

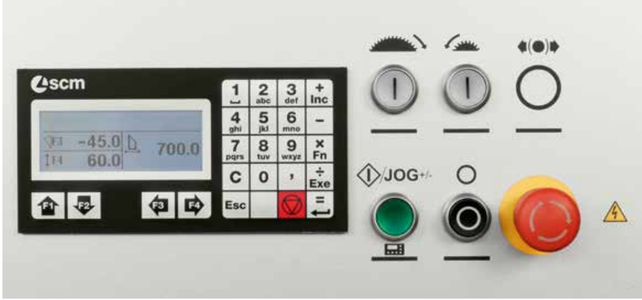
**Rip fence**
Sliding of the rip fence support on round bar with micrometric adjustment. The support can be also equipped with digital readout for fence position with detecting system on magnetic band (option). The fence can be easily excluded from the working area when it isn't used.

## 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.

# 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.**

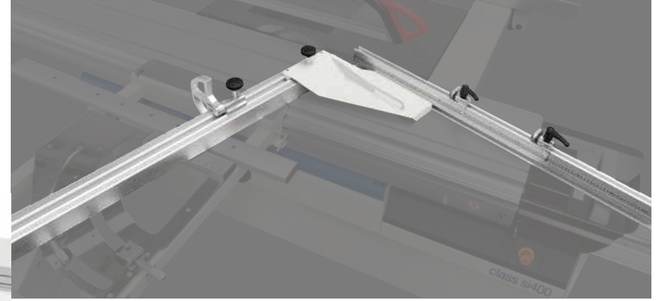
**"E2": powered movement of the machining units with digital readouts**
For maximum comfort and accuracy and comfort.
Also available in **"E1" kit version with powered lifting only.**

**Contol 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.

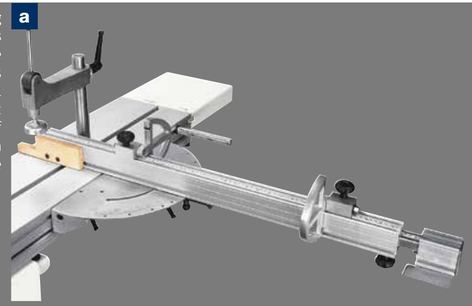
**"Nova" squaring frame**
Dimensions: 1500x680 mm.
Fitted with:
- telescopic fence with metric rule tilted towards the operator and 2 flip-over stops with magnifying lens to facilitate the data readout
- "Nova" telescopic swinging arm support
- idle roller to facilitate the panel loading/unloading

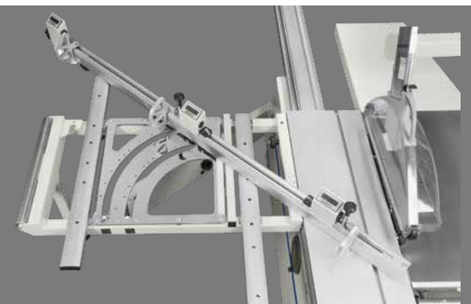


**Fence for complementary cuttings**
Device to be applied directly on the squaring rule that allows to quickly carry out cuts with angles complementary to the rule one.

**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





**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.

# 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.

**"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


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

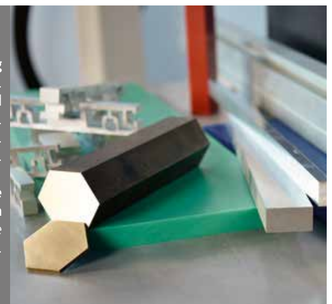
**Tablet holder on the sliding carriage**
Compatible with tablets from 8" to 11".

**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.

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

**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.

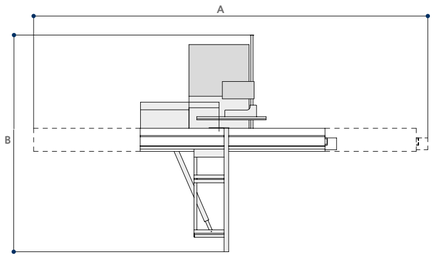


**Arrangement for "DADO" machining**
Possibility of using a tool (not included) to replace the main blade, with 203 mm maximum diameter and 20 mm maximum thickness.

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

# 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 |

| TECHNICA 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

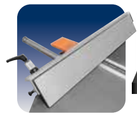


| | | nova f 520 | nova f 410 | nova s 630 | nova s 520 |
|---|---|---|---|---|---|
| Working width | mm | 520 | 410 | 630 | 520 |
| Cutterblock diameter/standard knives | mm/n. | 120/4 | 120/4 | 120/4 | 120/4 |
| Total worktable length | mm | 2750 | 2610 | - | - |
| Max. stock removal | mm | 8 | 8 | 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) |

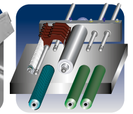
*Find the complete technical specification at page 38*

# 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

**Thickness Table**
rigidity and accuracy

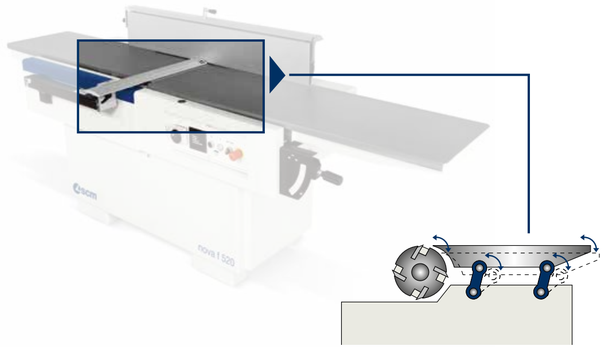
**Surface Fence**
high rigidity


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

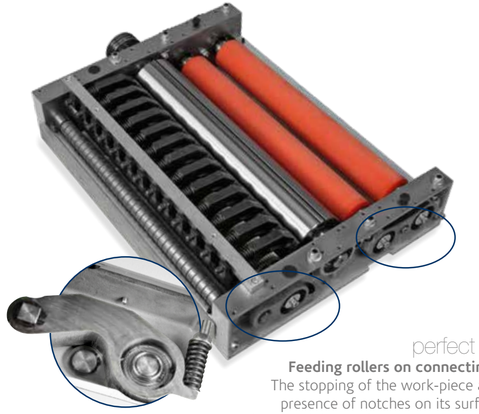
# planers operating groups

## 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.

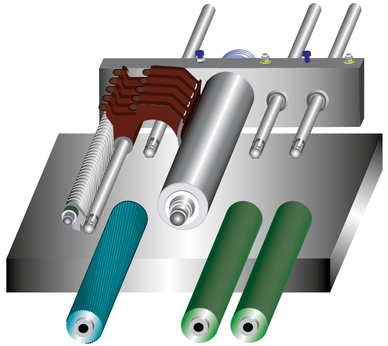

## a guarantee of perfect planarity
**Simultaneous raising of the worktables**
The system allows the **changeover from planer to thicknesser** with a single movement ensuring working rapidity and accuracy.



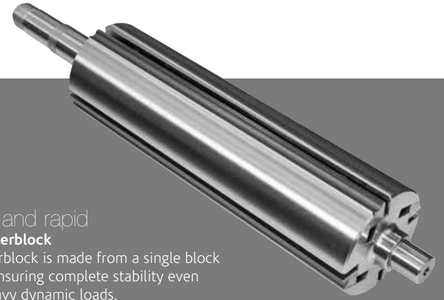

## constant precision over time
**Feeding on connecting rods**
Very accurate machining with the movement of the infeed table by means of a parallelogram **kinetic mechanism which always gives the same distance between the cutterblock and the table.** The system operating directly on the connecting rods 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

**Thicknessing table extension to be used in infeed or outfeed**
It can be installed on the worktable end side.

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

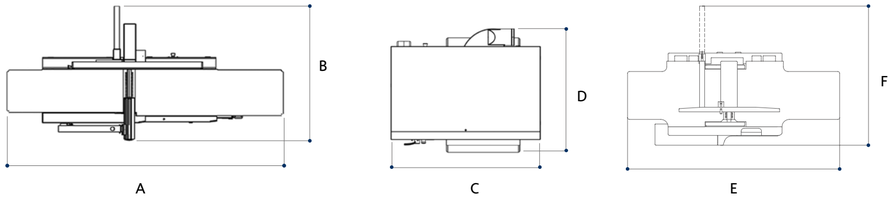
**Thicknessing table with idle rollers**
It enables the feeding of moist and/or resinous wood. Particularly suitable for heavy duty woodworking operations and with rough work-pieces.

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

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

**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 |
| Thicknessing table dimensions | mm | - | - | 640 x 1000 | 530 x 900 | 520 x 850 | 410 x 775 |
| Feed speed on thicknesser | m/min | - | - | 5/8/12/18 | 5/8/12/18 | 5/8/12/18 | 6/12 |
| Min. ÷ max. working height on thicknesser | 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) |

*Find the complete technical specification at page 46*

**Spindle Moulder Unit**
sturdiness and versatility

**Spindle Moulder Fence**
set-up rapidity

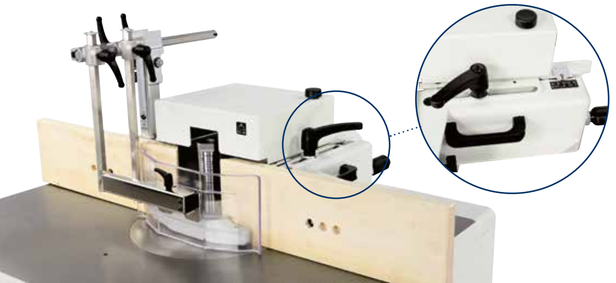
**Machine Versions**
specialisation and professionalism

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.


**"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.

**"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.

Tool-hoder shaft lifting

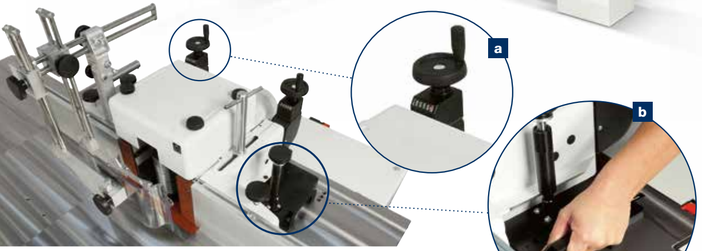
Tool-hoder shaft tilting

Adjustment of the entire profiling fence

Tool-hoder shaft speed readout

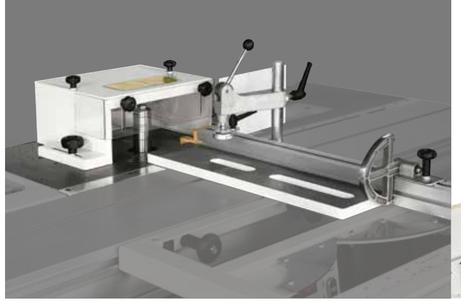
# spindle moulders machine versions

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


## 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.



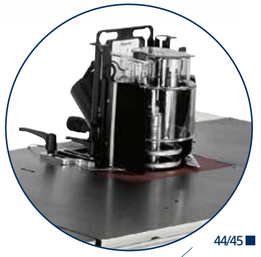
The *nova ti 105* "version with front sliding carriage" can be equipped with **tenoning table and tenoning hood** in order to house tools, 320 mm max. diameter (300 mm USA/ Canada).


**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 ± 60° 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.

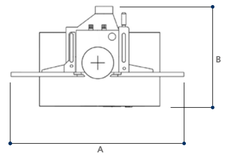

**"LL" versions with worktable side extensions**
Ideal when machining very long work-pieces due to worktable extensions. The mobile front bar makes it easy to move large dimensioned work-pieces on the worktable, particularly for edge profiling.

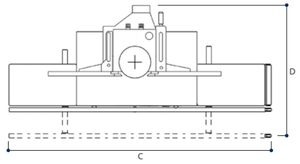
For a total safety and a higher flexibility, the machine is supplied, as standard feature, with a **special protection hood for moulding operations.**

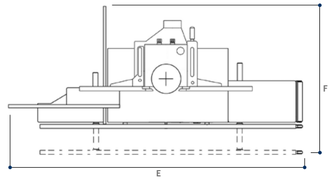


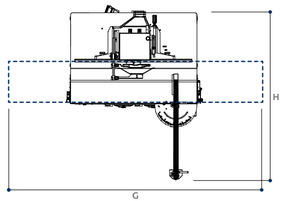
# spindle moulders technical data

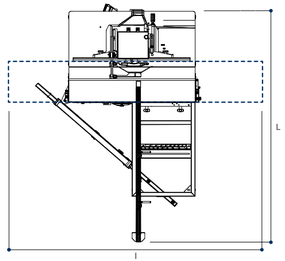
S Standard
O Option




| 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 | - |

| 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 |

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


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

**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, 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.**

## 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.

**scm** — Woodworking technology

**Cms** — Composite, aluminium, plastic, glass, stone, metal technology

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

**TECNOLOGICA** — 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.

**HITECO** — Electrospindles and technological components

**es** — Electrical panels

**steelmec** — Metalworking and mechanical machining

**scmfonderie** — Iron castings

scm woodworking technology | *is more*