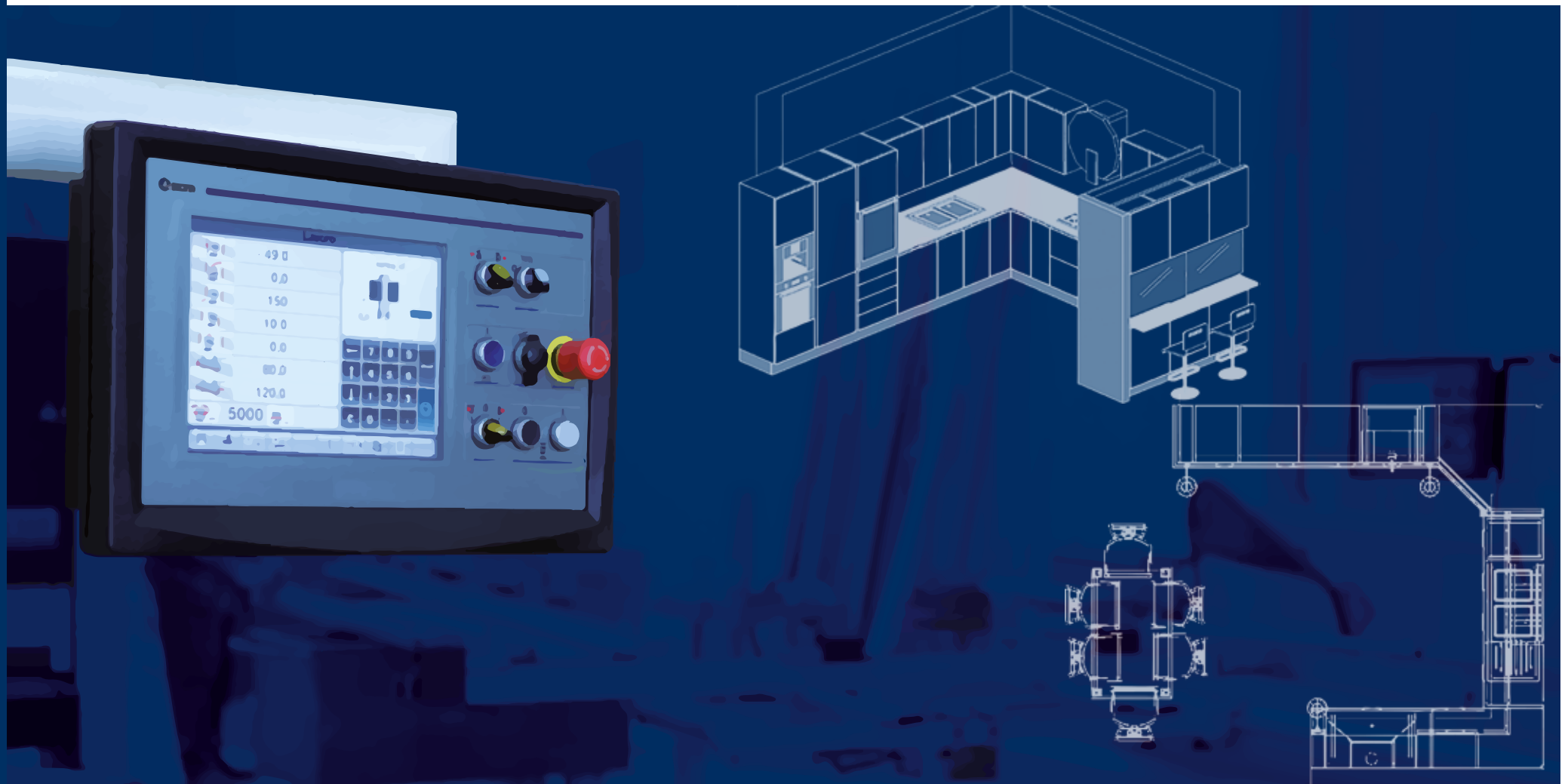
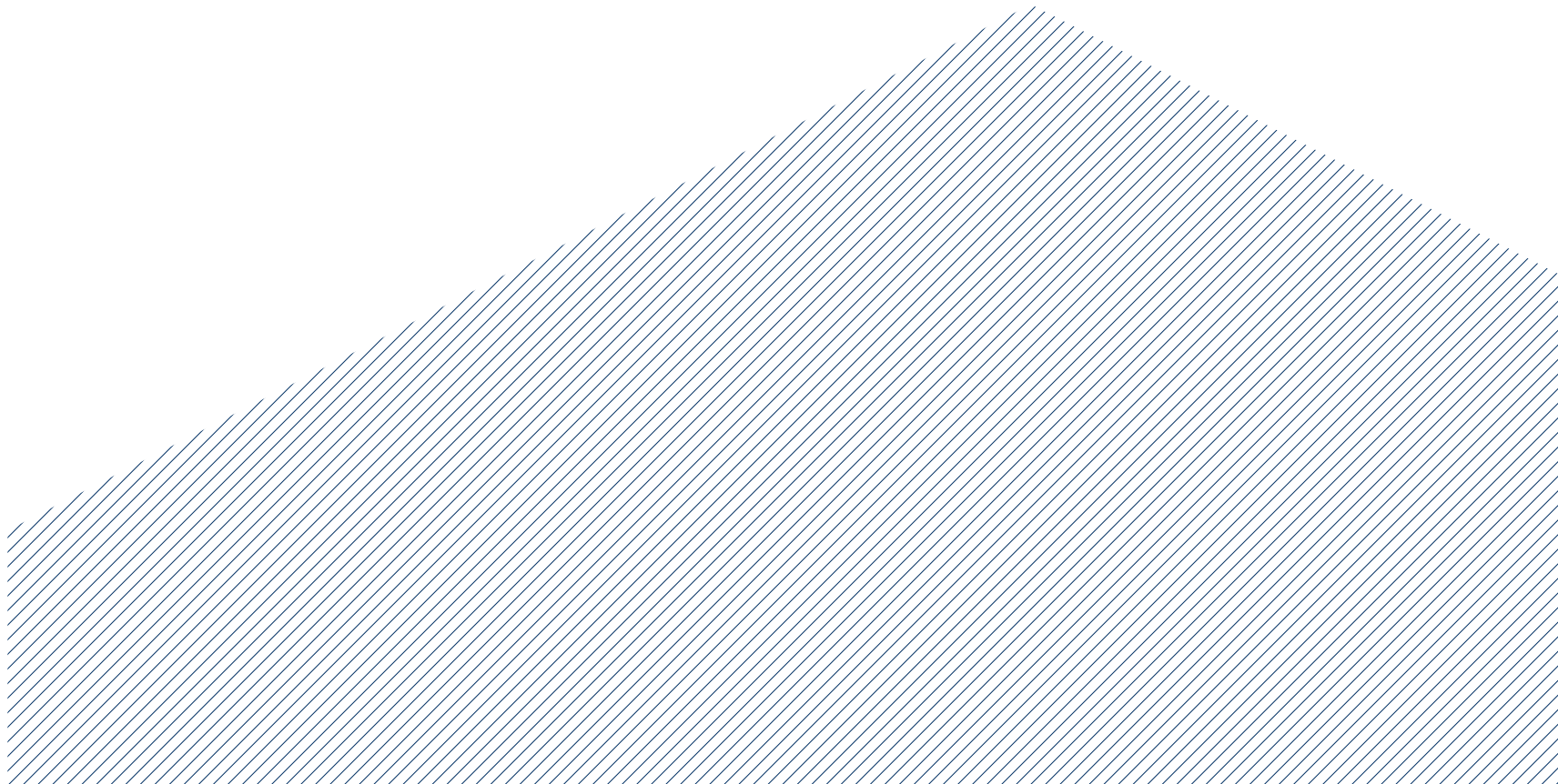


# nova class profiset startech

Four complete machines lines 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.



# nova class profiset startech lines

The widest range of 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.





electronically programmable  
spindle moulders  
class ti 145ep  
class ti 120e  
class tf 130e

manual  
spindle moulders  
class tf 130  
class tf 130ps  
class ti 120  
nova tf 110  
nova ti 105  
nova tf 100

# spindle moulders

The widest range of spindle moulders offering the market  
the latest and most advanced technological  
solutions urgently required for different  
types of production.

## class

The best solution for every  
production requirement.

## nova

Guaranteed quality  
at your fingertips.

electronically  
programmable  
spindle moulders  
class ti 145ep  
class ti 120e  
class tf 130e



		class ti 145ep	class ti 120e	class tf 130e
Spindle height CEØ 30-35 (40-50)	mm	140 (160)	140 (180)	140 (180)
Max. diameter of the profiling tool	mm	250	250	250
Max. tool diameter retractable under work table at 90°	mm	300	320	300
Diametro max. dell'utensile a tenonare CE Ø 30-35 (40-50)	mm	300 (300)	300 (350)	300 (300)
Three-phase motors starting from	kW/Hz	7 (8) / 50 (60)	5 (6) / 50 (60)	7 (8) / 50 (60)
<i>Find the complete technical specification at page 52</i>				





**Spindle Moulder Unit**  
sturdiness and  
versatility



**Spindle Moulder Fence**  
set-up rapidity



**Electronic Control**  
operating advantage



**Machine Versions**  
specialisation and  
professionalism

More quality, more performance,  
more reliability.

manual  
spindle moulders

class	tf	130
class	tf	130ps
class	ti	120
nova	tf	110
nova	ti	105
nova	tf	100



		■ class tf 130	■ class tf 130ps	■ class ti 120	■ nova tf 110	■ nova ti 105	■ nova tf 100
Spindle height CE Ø 30-35 (40-50)	mm	140 (180)	140 (180)	140 (180)	140 (180)	125 (125)	125 (125)
Max. diameter of the profiling tool	mm	250	250	250	250	240	240
Max. tool diameter retractable under work table at 90°	mm	300	320	320	320	240	240
Max. diameter of tenoning tool CE Ø 30-35 (40-50)	mm	300 (350)	300 (350)	300 (350)	300 (350)	275 (320)	240 (240)
Three-phase motors starting from	kW/Hz	7 (8) / 50 (60)	7 (8) / 50 (60)	5 (6) / 50 (60)	5 (6) / 50 (60)	5 (6) / 50 (60)	5 (6) / 50 (60)
<i>Find the complete technical specification at page 52</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 units

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.



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 tf 100) are ideal for any type of machining, from moulding to routing and tenoning, with the possibility to fit large diameter tools.

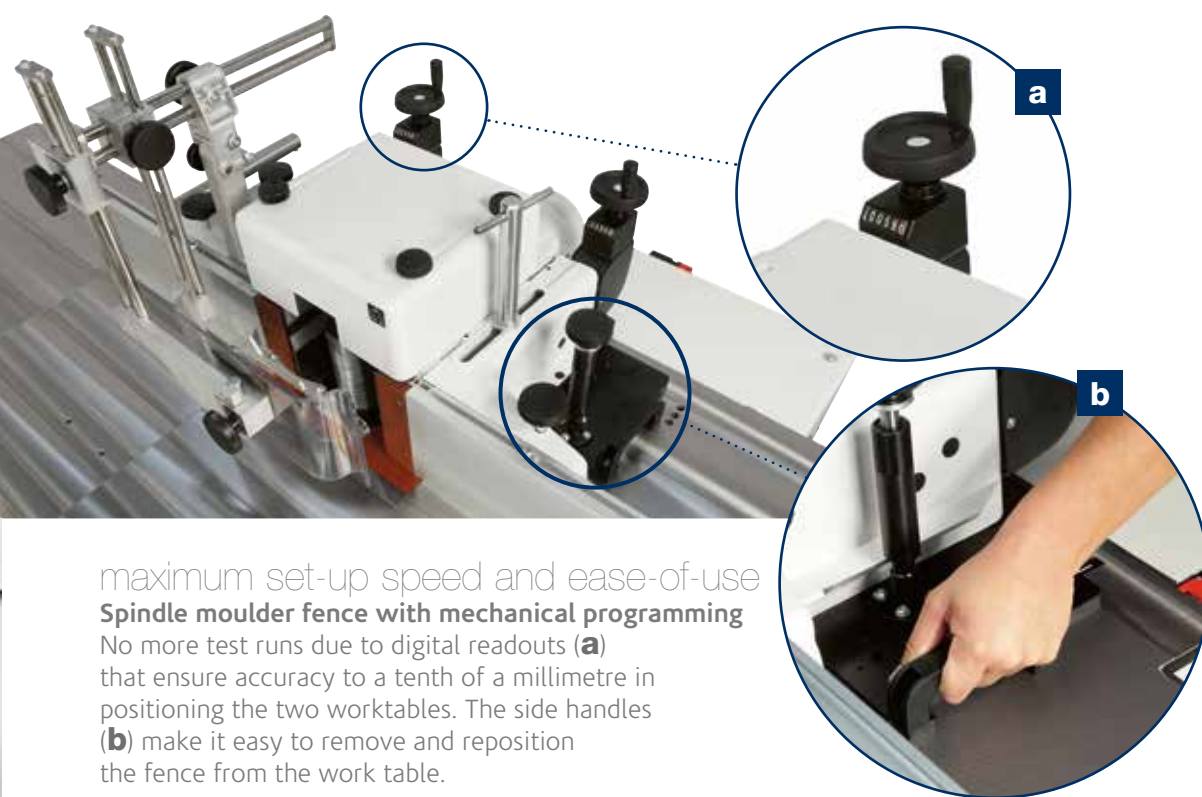


the best support for the work table

## "Fast" sectional table

Provides support for the work piece being machined close to the tool, allowing the adjustment with mounted tools and the very best quality finish when machining narrow pieces. The extremes in machinable material eliminate the disadvantages of a possible collision with the tool.





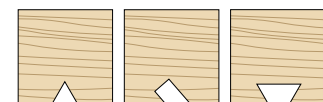
maximum set-up speed and ease-of-use  
**Spindle moulder fence with mechanical programming**  
 No more test runs due to digital readouts (a) that ensure accuracy to a tenth of a millimetre in positioning the two worktables. The side handles (b) make it easy to remove and reposition the fence from the work table.

automatic and removable  
**"Flex One" spindle moulder fence**  
 Automatic adjustment of the entire fence according to the tool diameter. User-friendly worktable exclusion system with precise re-positioning.



machining with tools on the spindle head carried out with the "Flex" fence

The spindle moulder fence can be located behind the tool allowing the performance of "head" routing using small diameter tools, typical of a router or portable electric tools; all this in compliance with CE safety regulations.



engraving,  
 grooving,  
 mortising



immediately in the correct position

**"Flex" spindle moulder fence**

A single, simple movement to retract and re-position instantly and accurately the position of the fence on the worktable with such precision that no other control is necessary.



# spindle moulders machine versions



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).

**Versions with front sliding carriage**  
Designed to manage tenoning and moulding operations very easily.



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

**"LL" versions with work table side extensions**

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



### "TL PRO-10" versions

The manual feed carriage is a cast iron structure running on linear slideways with recirculating ball screws, guaranteeing maximum machining precision and stability.



### "TL" versions

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



The "PRO-10" tenoning table can be retracted easily and within a few seconds to leave the machine ready for moulding (a) or contouring (b) operations.



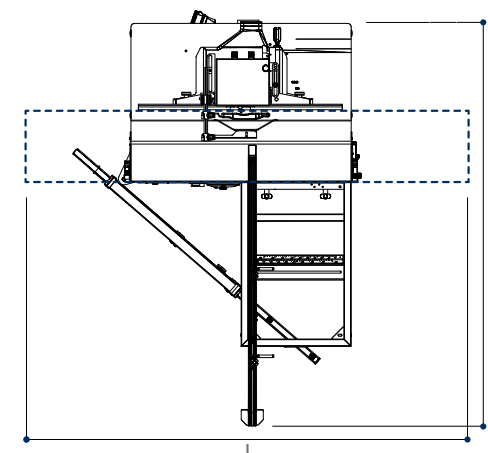
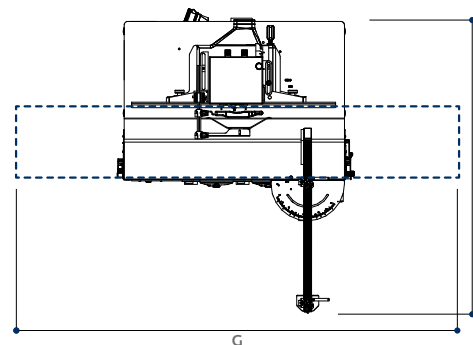
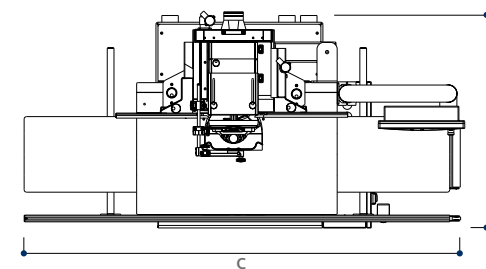
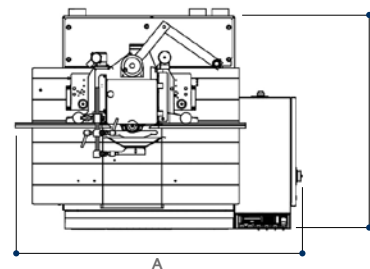
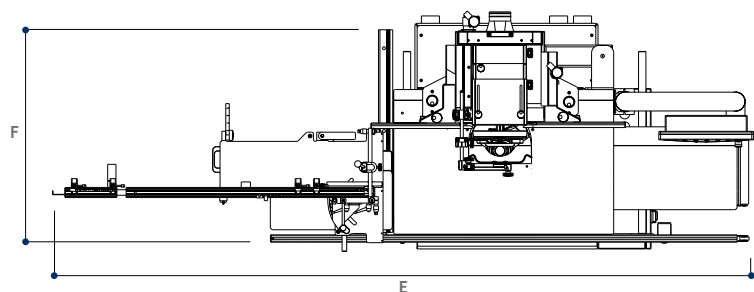
For a total safety and a higher flexibility, the machine is supplied, as standard feature, with a **special protection hood for contouring operations**.

### Carriage on work table for small tenoning jobs

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.



# spindle moulders dimensions and technical data



		class ti 145ep	class ti 120e	class tf 130e
Work table dimensions	mm	1200 x 780	1200 x 810	1200 x 730
Spindle tilting		-45,5° ÷ +45,5°	-45° ÷ +45°	-
Spindle height CE Ø 30-35 (40-50)	mm	140 (160)	140 (180)	140 (180)
Spindle speed (at 50 Hz)	rpm	3000/4500/6000/7000/10.000	3000/4500/6000/7000/10.000	3000/4500/6000/7000/10.000
Max. diameter of the profiling tool	mm	250	250	250
Max. tool diameter retractable under work table at 90°	mm	300	320	300
Max. diameter of tenoning tool CE Ø 30-35 (40-50)	mm	300 (300)	300 (350)	300 (300)
<b>other technical features</b>				
Three-phase motors 5 kW (6,6 hp) 50 Hz - 6 kW (8 hp) 60 Hz		-	S	-
Three-phase motors 7 kW (9,5 hp) 50 Hz - 8 kW (11 hp) 60 Hz		S	O	S
Three-phase motors 9 kW (12 hp) 50 Hz - 11 kW (15 hp) 60 Hz		O	O	O
Exhaust hood diameter:				
- at the base	mm	100	2 x 80	120
- on the spindle moulder fence	mm	120	120	120

S Standard  
O Option

		class ti 145ep	class ti 120e	class tf 130e	class tf 130	class tf 130ps	class ti 120	nova tf 110	nova ti 105	nova tf 100
A	mm	1655	1194	1324	1324	-	1194	1200	1200	1111
B	mm	1265	1280	1010	1010	-	1280	730	855	655
C	mm	2600	2600	2600	2600	-	2600	2600	2600	2600
D min.	mm	1265	1300	1340	1340	-	1300	800	920	720
D max.	mm	1575	1710	1650	1650	-	1710	1250	1220	1020
E	mm	3780	3520	3551	3551	-	3197	3150	-	-
F min.	mm	1375	1300	1340	1340	-	1300	800	-	-
F max.	mm	1685	1710	1650	1650	-	1710	1250	-	-
G	mm	-	-	-	-	2080	-	-	2800 ÷ 3850	-
H	mm	-	-	-	-	2740	-	-	2354	-
I	mm	-	-	-	-	-	-	-	2800 ÷ 3850	-
L	mm	-	-	-	-	-	-	-	3200	-

class tf 130	class tf 130ps	class ti 120	nova tf 110	nova ti 105	nova tf 100
1200 x 730	1080 x 760	1200 x 810	1200 x 730	1200 x 855	1080 x 655
-	-	-45° ÷ +45°	-	0° ÷ +45°	-
140 (180)	140 (180)	140 (180)	140 (180)	125 (125)	125 (125)
3000/4500/6000/7000/10.000	3000/4500/6000/7000/10.000	3000/4500/6000/7000/10.000	3000/4500/6000/7000/10.000	3500/6000/8000/10.000	3500/6000/8000/10.000
250	250	250	250	240	240
300	320	320	320	240	240
300 (350)	300 (350)	300 (350)	300 (350)	275 (320)	240 (240)
-	-	S	S	S	S
S	S	O	O	O	O
O	-	O	-	-	-
120	120	2 x 80	120	120	120
120	120	120	120	120	120



# spindle moulders electronic controls

## "Ready"

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



Tool-holder shaft lifting



Adjustment of the entire profiling fence



Tool-holder shaft tilting



Tool-holder shaft speed readout



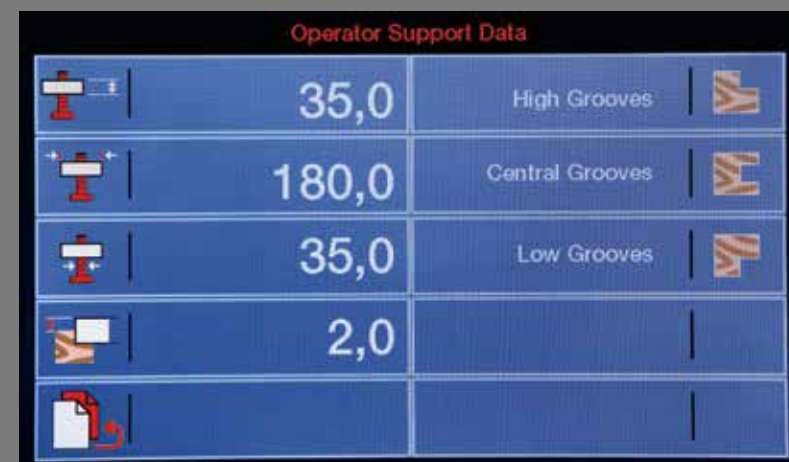
Powered movement with digital readouts. Maximum precision and ease of use.



## "Easy"

Maximum reliability and **easy-to-use** due to the function push buttons with the electronic control of up to 8 axes with the 7" LCD display, 16:9 format. Integrated and fast control of all dedicated functions. These features translate into immediate improvements in productivity and guarantees the capability and the full potential of the machine.

For the most recurring machining jobs it is possible to set the dimensions of the required profile and select the tool to be used. The controls will create the dedicated program to carry out the require machining operations.



"Easy" control can easily manage the inverter for the adjustment of spindle rotation speed. (option).



# spindle moulders other optional devices

## Feeder support

**High usable flexibility** and no use of worktable space, due to the cross device on the column support of the overhead control panel. The positions are made extremely simple using handwheels with digital readout.



## "T-SET" rapid tool locking

A simple compressed air gun allows the tools locking and unlocking when the interchangeable spindle is present.



## Advanced materials machining

PVC and other plastic materials. Nylon, polycarbonate and other synthetic materials.

# spindle moulders main optional devices

	class ti 145ep	class ti 120e
"Ready" version	S	-
"Easy" version	O	-
"PS" version with front sliding carriage	-	-
Support frame with tiltable telescopic fence complete with no. 2 reversible stops	-	-
Mobile control panel	O	-
Powered operating unit movement with digital readouts	-	S
"Flex" spindle moulder fence	O	O
"Flex One" spindle moulder fence	O	-
Inverter for the rotation speed adjustment from 900 to 10.000 rpm	O	-
Feeder support with manual vertical and horizontal movements	O	-
Spindle moulder fence with mechanical programming	S	S
Aluminium tables instead of the wooden ones for profiling fence	O	O
Interchangeable spindle	S	O
Spindle for router bits	O	O
"T-Set" rapid tool locking	O	-
"Fast" sectional table with manual adjustment	S	-
"LL" version with 2 cast-iron profiling extensions	O	O
"TL" version for tenoning and profiling	O	O
"TL PRO-10" version for tenoning and profiling	O	-
Tenong table and tenoning hood	-	-
Carriage on the fixed table for small tenoning operations	O	O
Machine configuration for advanced materials machining	O	-

S Standard  
O Option

class tf 130e	class tf 130	class tf 130ps	class ti 120	nova tf 110	nova ti 105	nova tf 100
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	S	-	-	0	-
-	-	-	-	-	0	-
0	0	-	-	-	-	-
S	-	-	-	-	0	-
0	0	0	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
0	0	-	-	-	-	-
S	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	-	-	-	-
S	0	-	-	-	-	-
0	0	-	0	0	0	0
0	0	-	0	0	-	-
0	0	-	-	-	-	-
-	-	0	-	-	0	-
0	0	-	0	0	0	0
0	0	0	-	-	-	-

## SERVICE

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

### A COMPLETE RANGE OF AFTER-SALES SERVICES

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



## SPARE PARTS

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



### 36,000 SPARE PARTS

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



### SPARE PARTS GUARANTEED

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



### IMMEDIATE AVAILABILITY

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



### 6 BRANCHES AROUND THE WORLD

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



### 500 SHIPMENTS A DAY







# THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

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

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

**65** years history

**3** main production sites in Italy

**300.000** square metres of production space

**17.000** machines manufactured per year

**90%** export

**20** foreign branches

**350** agents and dealers

**500** support technicians

**500** registered patents

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

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

### INDUSTRIAL MACHINERY

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



WOODWORKING  
TECHNOLOGIES



TECHNOLOGIES FOR PROCESSING  
COMPOSITE MATERIALS, ALUMINIUM,  
PLASTIC, GLASS, STONE, METAL

### INDUSTRIAL COMPONENTS

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



SPINDLES AND TECHNOLOGICAL  
COMPONENTS



ELECTRIC PANELS



METALWORK



CAST IRON







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