english

scm

classical machines

classical machines

circular saws

The widest range of circular saws offering the market the latest and advanced technological solutions that different types of production urgently requires.

10 YEARS GUARANTEE scm

class

The best solution for every application.

electronically programmable circular saws
si 550ep
si 400ep

manual circular saws
si 400
si 350
si 300

class si 550ep

class si 400ep

nova

Guaranteed quality at your fingertips.

electronically programmable circular saw
si 400ep

manual circular saws
si 400
si 350
si 300s

nova si 400ep

nova si 400

class si 400

class si 350

class si 300

nova si 300

nova si 300s

electronically programmable **circular saws**

10 YEARS GUARANTEE scm

Superior technology combined with an ease of use.

CIRCULAR SAWS		CLASS		NOVA
		SI 550EP	SI 400EP	SI 400EP
Squaring capacity	mm	3200 x 3200	3200 x 3200	3200 x 3200
Cutting width on rip fence	mm	1270	1270	1270
Max. main blade diameter	mm	550	400	400
Max. scoring blade diameter	mm	-	120	120
Cutting height at 90°/45°	mm	200/130	140/97	140/97
Main blade motor power	kW	7	7	7
Scoring blade motor power	kW	-	1,3	1,3
Main blade speed	rpm	2500 - 3500 - 5000	2500 - 4000 - 5000	2500 - 4000 - 5000
Scoring blade speed	rpm	-	8500	8500
Exhaust outlet diameter at the base	mm	120	120	120
Exhaust outlet diameter on overhead protection	mm	100	100	80
Extraction air flow rate to 20 m/sec	m^3/h	1379	1379	1176
Net weight basic machine	kg	1200	1150	730

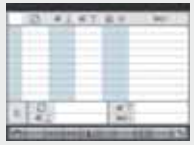
electronically programmable

circular saws

Electronic controls

EASY: THE OPERATING ADVANTAGE FOR EASY ASSISTANCE

Maximum reliability due to the function pushbuttons and easy-to-use with the electronic control of up to 5 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 of the full potential of the machine. *class*



READY: THE PRACTICAL ADVANTAGE FOR AUTOMATIC CONTROL OF THE MAIN POSITIONS

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 data setting with automatic height adjustment.
- Calculator and hour counter.

Saw unit lifting

Saw unit tilting

Programmed rip fence (option)

Blade speed readout

SPEED AND PRECISION
Ensured by the motorised programmable rip fence mounted on a recirculating ball screw mechanism with sliding on linear guides. With “Easy” electronic controls.

PRACTICALITY AND SAFETY
Ensured by the motorised programmable rip fence with steel cable and sliding on sturdy round steel bar. Position readout on magnetic band. With “Ready” electronic control.

CIRCULAR SAWS	CLASS		NOVA
	SI 550EP	SI 400EP	SI 400EP
4-axes “Easy” electronic control	O	O	-
2-axes “Ready” electronic control	S	S	S
Mobile control panel	-	O	O
Independent powered scoring unit	-	S	S
Electronic adjustment for scoring unit	-	O	-
“Dado” machining	O	O	O
3200 mm saw carriage length	S	S	S
3800 mm saw carriage length	O	O	O
Powered rip fence on linear guide	-	O	-
Powered rip fence on round bar	O	O	O
Start/stop pushbuttons integrated in the carriage	O	O	O
“Quick Lock” squaring fence	O	O	-
Squaring fence with LCD readouts for the stops	O	O	O
Inverter for electronic speed change of the main blade	-	O	-
Pneumatic presser on entire carriage length	O	O	-
Second extension with sliding rail support	O	O	-
Fence for angular cutting	O	O	O
Fence for angular cutting with self-adjustment	O	O	O
Fence for parallel cutting on sliding carriage	O	O	O

S = standard
O = option
- = not available

manual

circular saws

High construction quality for reliability
and safe performance.

CIRCULAR SAWS		CLASS		NOVA
		SI 400	SI 350	SI 400
Squaring capacity	mm	3200 x 3200	3200 x 3200	3200 x 3200
Cutting width on rip fence	mm	1270	1270	1270
Max. main blade diameter	mm	400	350	400
Max. scoring blade diameter	mm	120	120	120
Cutting height at 90°/45°	mm	140/97	118/81	140/97
main blade motor power	kW	7	7	7
Scoring blade motor power	kW	1,3	1,3	1,3
Main blade speed	rpm	3000 - 4000 - 5000	4000	3700
Scoring blade speed	rpm	8500	8500	8500
Exhaust outlet diameter at the base	mm	120	120	120
Exhaust outlet diameter on overhead protection	mm	100	100	80
Exhaust outlet diameter riving knife (no CE)	mm	60	60	60
Extraction air flow rate to 20 m/sec	m^3/h	1379	1379	1176
Net weight basic machine	kg	1070	1050	635

manual
circular saws

High construction quality for reliability
and safe performance.

CIRCULAR SAWS		CLASS	NOVA	
		SI 300	SI 300	SI 300S
Squaring capacity	mm	3200 x 3200	3200 x 3200	1600 x 2600
Cutting width on rip fence	mm	1270	1270	1000
Max. main blade diameter	mm	315	315	315 (400)
Max. scoring blade diameter	mm	120	120	120
Cutting height at 90°/45°	mm	100/70	100/70	100/70 (140/97)
Main blade motor power	kW	5	5	5
Scoring blade motor power	kW	1,3	1,3	1,3
Main blade speed	rpm	4000	4000	4000
Scoring blade speed	rpm	8500	8500	8500
Exhaust outlet diameter at the base	mm	120	120	120
Exhaust outlet diameter on overhead protection	mm	100	80	80
Exhaust outlet diameter riving knife (no ce)	mm	60	60	60
Extraction air flow rate to 20 m/sec	m^3/h	1379	1379	1176
Net weight basic machine	kg	1050	625	525

manual

circular saws

Devices and options.

SLIDING CARRIAGE: MAXIMUM CUT QUALITY GUARANTEED OVER TIME

The carriage will never require adjustment due to its structure with arch-ground steel slideways (Scm solution) so it can **carry loads four times higher than others.**
class

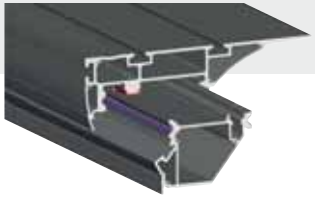
"ARC" PROFILE: FOR EXCELLENCE IN MACHINING

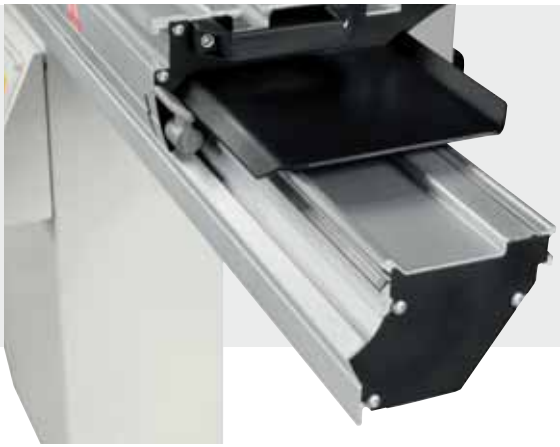
- No play and no need for adjustments over time
- Higher loading capacity
- +/-0,05 mm tolerance on the entire carriage length for straight and high quality cutting.

The horizontal positioning of the guides ensures **protection from dust** therefore improving the sliding of the carriage.

SLIDING CARRIAGE: SMOOTH SLIDING AND A SOLID WORK SURFACE

The wide section of the carriage, with closed reticular geometry, provides extreme rigidity and minimum deflection. **A smooth operating motion is guaranteed over time** by the system of sliding bearings running on hardened steel guides using an exclusive method of mechanical fixing. *nova*

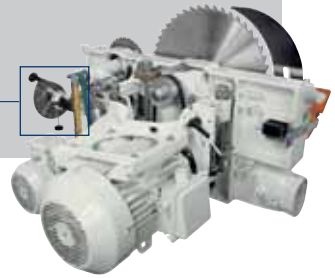




SAW UNIT: A PERFECT CUT
Maximum torsional rigidity and the total absence of vibration through the closed loop structure of the saw unit which ensures **perfect alignment of the blades** during tilted and difficult cuts.

MANUAL MOVEMENTS: ALWAYS USER FRIENDLY AND PRECISE
Ease of use in every day operation due to the dedicated gear box, fully protected from dust (Scm solution), that provides a **smooth and direct transmission.** Every minimum handwheel movement corresponds to a **precise blade adjustment.**

MANUAL ADJUSTMENT OF THE SCORING UNIT: SIMPLE AND EFFECTIVE
Vertical and horizontal adjustments are carried out by user-friendly mechanical levers that operate directly making **precise and smooth movements.** The useful mechanical stops allows immediately finding of the set position. The positioning of the controls allows their use without moving from the front of the machine.



manual

circular saws

Devices and options

SLIDING SWINGING ARM SUPPORT
By means of the exclusive aluminium extrusion for the very best smooth and precise operation. The adjusting dust scrapers ensure **high efficiency over time.**

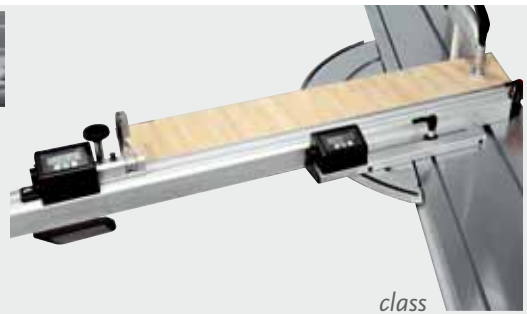
1

2

3

4

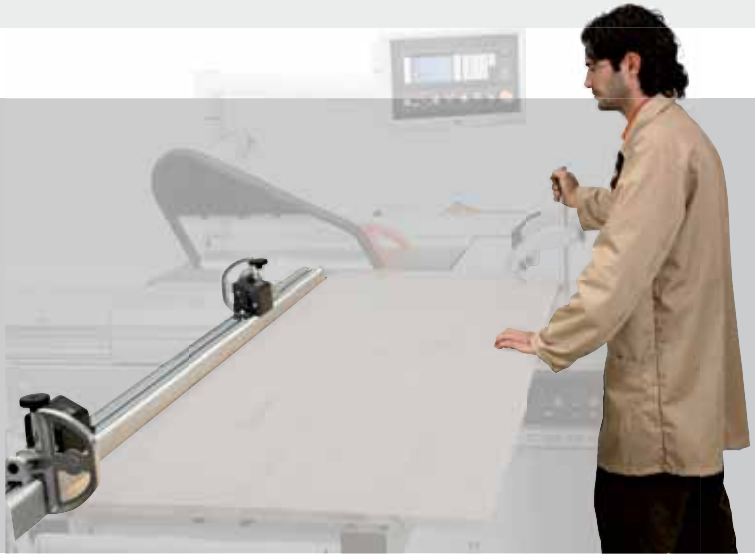
“QUICK LOCK” FENCE WITH RAPID RELEASE: SPEED AND PRECISION
Minimum set-up time with the Scm system that allows rapid fence positioning.
The extending roller and the stronger frame support maximise performance.

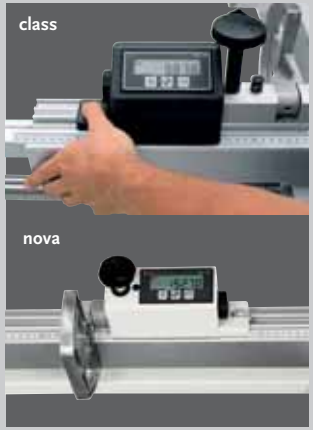


class

ANGULAR CUTTING DEVICE
Different version also with electronic readouts to satisfy various requirements is available.

ELECTRONIC READOUTS: PRECISE AND EASY TO USE
The stops on the squaring fence can be easily read even from distance.





manual

circular saws

Devices and options

RIP FENCE UNIT

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

class

PUSHBUTTONS INTEGRATED IN THE CARRIAGE: MAXIMUM PRACTICALITY

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

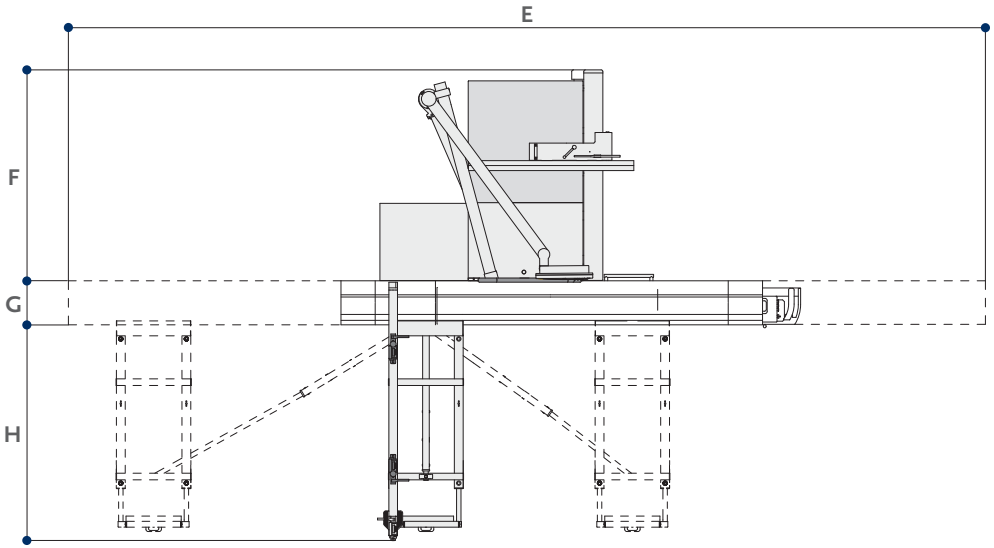
PNEUMATIC PRESSER
Particularly suitable for the cutting of thin materials.

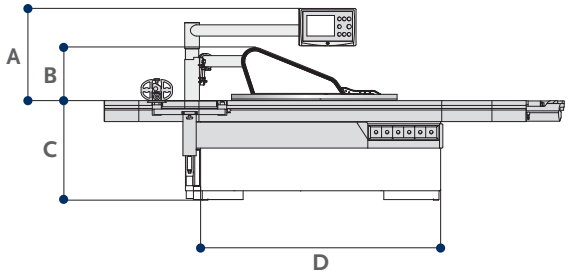
MANUAL CIRCULAR SAWS	CLASS			NOVA		
	SI 400	SI 350	SI 300	SI 400	SI 300	SI 300S
Manual saw blades lifting and tilting by means of front handwheels	S	S	S	S	S	S
Front mechanical digital readout for tilting	S	S	S	S	S	S
Front mechanical digital readout for cutting height	S	-	-	-	-	-
Independent power scoring unit	S	S	S	S	S	S
External manual adjustment of scoring unit	S	S	S	S	S	S
1600 mm saw carriage length	-	-	-	-	-	S
3200 mm saw carriage length	S	S	S	S	S	-
3800 mm saw carriage length	O	O	O	O	O	-
Start/stop pushbuttons integrated in the carriage	O	O	O	O	O	-
“Quick Lock” squaring fence	O	O	O	-	-	-
Squaring fence with LCD readouts on the stops	O	O	O	O	O	-
Pneumatic presser on entire carriage length	O	O	O	-	-	-
Second extension with sliding rail support	O	O	O	-	-	-
Fence for angular cutting	O	O	O	O	O	O
Fence for angular cutting with self-adjustment	O	O	O	O	O	O
Fence for parallel cutting on sliding carriage	O	O	O	O	O	O
Electronic readout for rip fence position	O	O	O	O	O	O

S = standard
O = option
- = not available

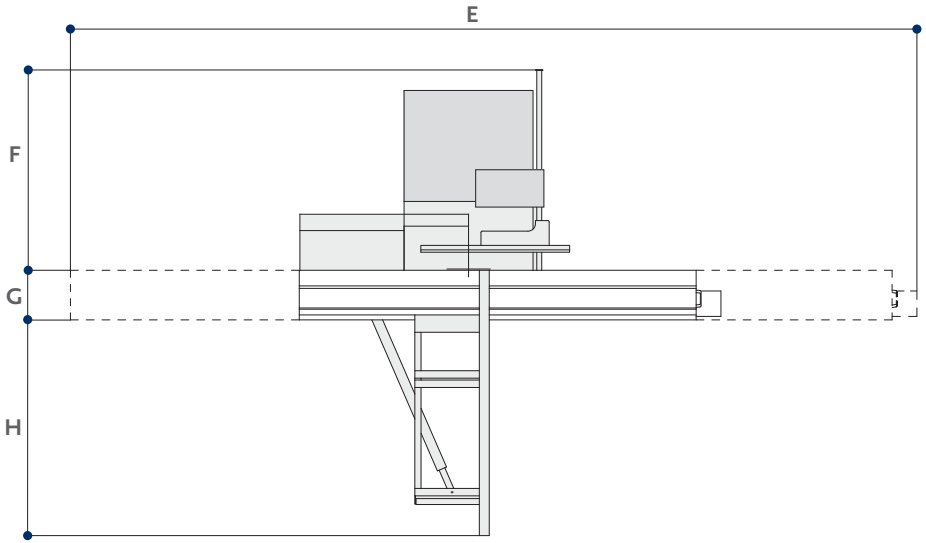
circular saws

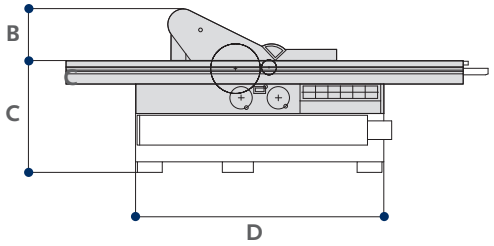
Overall dimensions





ELECTRONICALLY PROGRAMMABLE CIRCULAR SAWS		CLASS		NOVA
		SI 550EP	SI 400EP	SI 400EP
A	mm	900	900	720
B	mm	485	485	720
C	mm	910	910	900
D	mm	2175	2000	1800
E 3200 carriage	mm	7250	7250	7100
E 3800 optional carriage	mm	8500	8500	8140
F 1000 fence	mm	1430	1430	1360
F 1270 fence	mm	1750	1750	1750
F 1500 fence	mm	1910	1910	2065
G	mm	400	400	360
H	mm	1860	1860	1960





MANUAL CIRCULAR SAWS		CLASS			NOVA		
		SI 400	SI 350	SI 300	SI 400	SI 300	SI 300S
B	mm	485	485	485	700	700	700
C	mm	910	910	910	900	900	900
D	mm	2000	2000	2000	1800	1800	790
E 1600 carriage	mm	-	-	-	-	-	3760
E 3200 carriage	mm	7250	7250	7250	7100	7100	-
E 3800 optional carriage	mm	8500	8500	8500	8140	8140	-
F 1000 fence	mm	1430	1430	1430	1360	1360	1360
F 1270 fence	mm	1750	1750	1750	1750	1750	1750
F 1500 fence	mm	1910	1910	1910	2065	2065	2065
G	mm	400	400	400	360	360	360
H	mm	1860	1860	1860	1960	1960	1960

planers

The widest range of planers available on the market

class

The best solution for every application.

surface planers
f 520
f 410

thicknessing planers
s 630
s 520

class f 520

class f 410

nova

Guaranteed quality at your fingertips.

surface planers thicknessing planers
f 520
f 410

thicknessing planers
s 630
s 520

surfacing-thicknessing planers
fs 520
fs 410

nova f 520

nova f 410

class s 630

class s 520

nova s 630

nova s 520

nova fs 520

nova fs 410

surface
planers

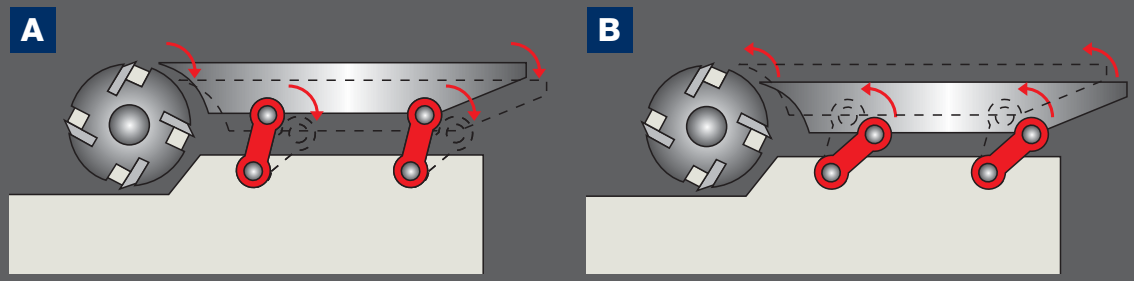
Perfect surfaces, practical and safe, ergonomic

SURFACE PLANERS		CLASS		NOVA	
		F 520	F 410	F 520	F 410
Working width	mm	520	410	520	410
Total worktable length	mm	2750	2610	2750	2610
Infeed worktable length	mm	1550	1450	1550	1450
Cutterblock diameter (no. of knives)	mm	120 (4)	120 (4)	120 (4)	120 (4)
Cutterblock speed	rpm	5000	5000	5000	5000
Surface fence dimensions	mm	1200 x 190	1200 x 190	1200 x 190	1200 x 190
Surface fence tilting		from 90° to -45°	from 90° to -45°	from 90° to -45°	from 90° to -45°
Main motor power	kW	5	5	5	5
Exhaust outlet diameter	mm	120	120	120	120
Extraction flow rate to 20 m/sec	m^3/h	814	814	814	814
Basic machine weight	kg	752	665	720	560

surface

planers

Devices and options

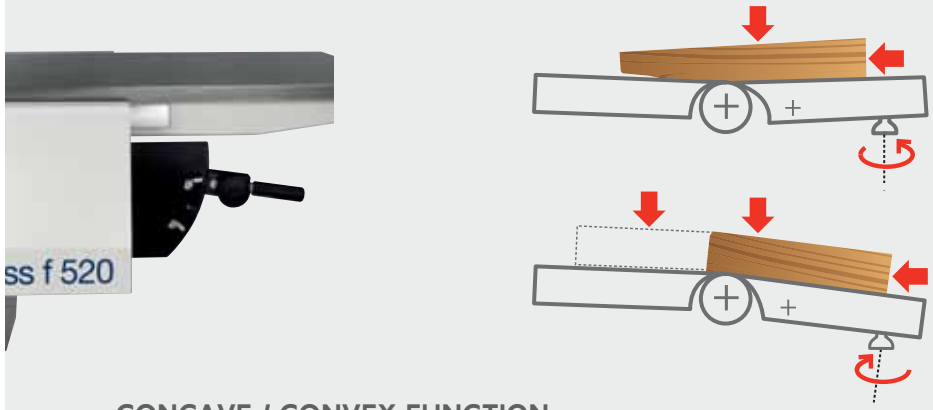


FEEDING ON CONNECTING RODS:
CONSTANT PRECISION OVER TIME

All machining with maximum safety 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.**

INTEGRATED GUARD:
ERGONOMIC AND SAFE

The cutterblock guard with integrated support in the machine base represents the constant commitment to providing the woodworker with the very best and safest working conditions.



CONCAVE / CONVEX FUNCTION:
PERFECT JOINTS EVERY TIME

The available settings allow perfect bonding of the components giving excellent coupling and eliminating any joint line.

CAST IRON WORK TABLES:
HIGH QUALITY FINISH.
Vibration free movement due to the large worktables made from ribbed cast-iron with feeding on connecting rods ensuring perfect surfaces. The exhaust hood on the cutterblock allows improved efficiency and provides high quality machining.

"SMART LIFTER" INTEGRATED PROTECTION:
ERGONOMICS AND SAFETY
The SCM protection system is perfectly integrated into the machine base for **maximum protection** while excluding any hindrance or obstruction in the work. The protection with automatic vertical, horizontal and tilted movements provides **complete coverage of the tool** before, during and after machining.

surface

planers

Devices and options

ADDITIONAL OVERTURNING FENCE:
USER-FRIENDLY AND SAFE.
The additional overturning fence, integrated in the surface fence, ensures perfect operator safety when machining small dimensioned workpieces.

SCM MONOBLOCK CUTTERBLOCK:
EASY AND RAPID IN USE.
Ease of use and rapid changeover of the throwaway knives due to the automatic locking/unlocking system and with self-adjustment. The cutter block is made from a single block of steel ensuring complete stability even under heavy dynamic loads.

"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.

SURFACE PLANERS	CLASS		NOVA	
	F 520	F 410	F 520	F 410
Mobile control panel	S	S	-	-
Electrical movement of infeed table	S	-	-	-
Manual movement of infeed table	-	S	S	S
Electronic digital readout of thicknessing cutting depth	S	-	-	-
Analogic readout of cutting depth	-	S	S	S
Concave/convex function	S	-	-	-
Planer protection integrated in the machine base	S	S	-	-
"Smart Lifter" for planer protection integrated in the machine base	O	O	-	-
Additional overturning fence	O	O	O	O
"Tersa" cutterblock with throwaway knives	O	O	O	O
Xylent spiralknife	O	O	O	O
Maintenance case for Xylent spiralknife	O	O	O	O

S = standard
O = option
- = not available

thicknessing
planers

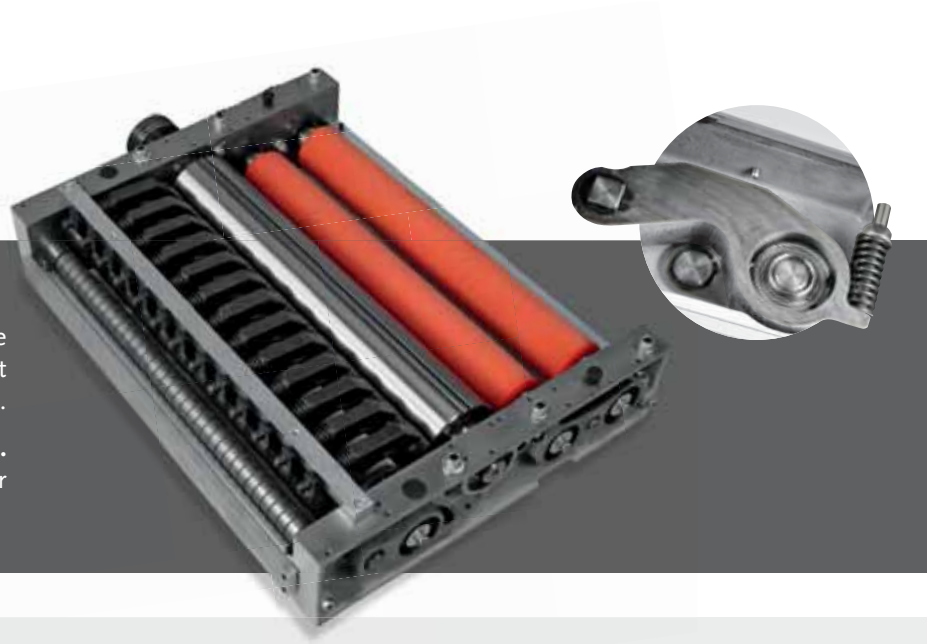
Easy to use and precise, stylish with practical design,
a wider range of applications.

THICKNESSING PLANERS		CLASS		NOVA	
		S 630	S 520	S 630	S 520
Working width	mm	630	520	630	520
Work table dimensions	mm	640 x 1000	530 x 900	640 x 1000	530 x 900
Maximum working height	mm	300	300	300	300
Minimum working height	mm	3,5	3,5	3,5	3,5
Minimum working length	mm	260	220	260	220
Maximum stock removal in a single passage	mm	8	8	8	8
Feeding rollers diameter	mm	85	67	85	67
Cutterblock diameter (no. of knives)	mm	120 (4)	120 (4)	120 (4)	120 (4)
Spindle speed	rpm	4500	4500	4500	4500
Feed speed	m/min	4 ÷ 20	4 ÷ 20	5-8-12-18	5-8-12-18
Main motor power	kW	7	7	7	7
Feed motor power	kW	1,3	1,3	-	-
Exhaust outlet diameter	mm	150	150	150	150
Extraction flow rate to 20 m/min	m^3/h	1272	1272	1272	1272
Basic machine weight	kg	925	680	785	680

thicknessing

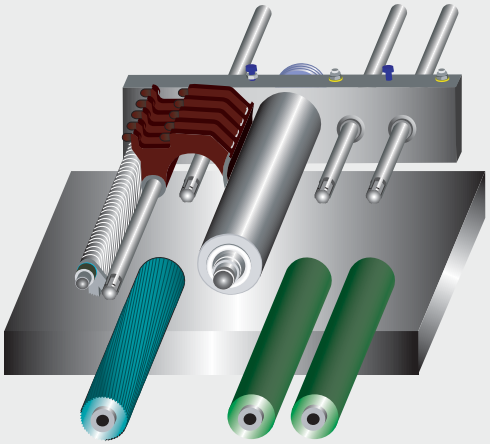
planers

Devices and options



FEEDING ROLLERS ON CONNECTING ROADS: PERFECT FINISH.
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.

RUBBER ROLLERS: MAXIMUM EFFICIENCY AVAILABLE AS STANDARD.
Perfect surfaces and high feeding performance with the standard rubber rollers.



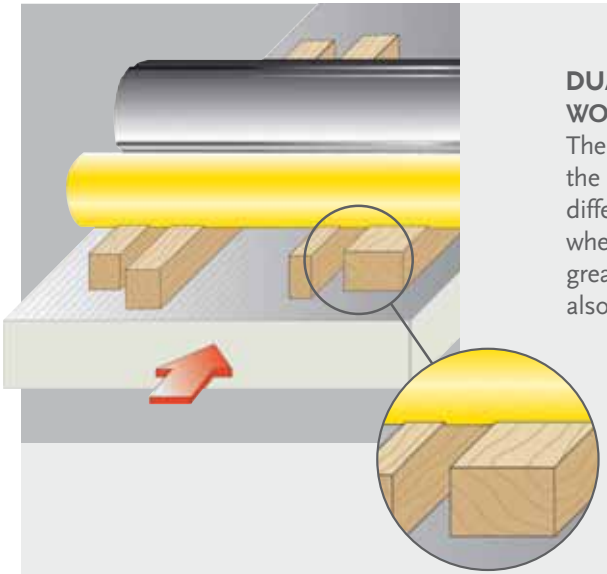
Basic configuration with grooved infeed roller in steel

The grooved roller in steel is removed and has been substituted by the second outfeed rubber roller

INTERCHANGEABLE ROLLERS:
ONE MACHINE FOR EVERY REQUIREMENT

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. The operator does this by simply replacing the first toothed steel roller with a rubber roller.

WORK TABLE MOVEMENT:
STURDY STRUCTURE WITH PRECISION.
The 4 screws with a large diameter combined with the 2 side linear guides ensure **worktable stability** eliminating the necessity of locking in position.
The integrated protections guarantee **high precision and reliability over time.**



DUAL DENSITY ROLLER: THE OPTIMAL FEED ON WORK PIECES WITH DIFFERENT THICKNESSES.
The fluid feeding also provides the best quality in the simultaneous processing of multiple boards with different thicknesses. The **edges are not damaged** even when the work pieces are not perfectly aligned giving great results even with minimum removal. Suitable also for upgraded woods and/or thin thicknesses.

FEED SPEED BY MEANS OF AN INVERTER: HIGHER PRODUCTIVITY.
Control of the variable feed speed by means of a user-friendly adjusting device on the front control panel that guarantees the **best quality finish.** Dedicated warning light to indicate too higher speed.

thicknessing

planers

Devices and options

PNEUMATIC ADJUSTMENT:
THE PERFECT FEED IN ANY WORKING CONDITION
The pressure exerted on the work piece can be changed at any time by adjusting the pneumatic load on the rollers for the **best finish and effectiveness of the feeding** of any material and in any working condition.

SCM MONOBLOCK CUTTERBLOCK:
EASY AND RAPID IN USE.
Ease of use and rapid changeover of the throwaway knives due to the automatic locking/unlocking system and with self-adjustment. The cutter block is made from a single block of steel ensuring complete stability even under heavy dynamic loads.

THICKNESSING TABLE WITH IDLE ROLLERS:
IDEAL FOR HEAVY DUTY WOODWORKING OPERATIONS
Particularly suitable for heavy duty woodworking operations and with rough work pieces. It enables the feeding of moist and/or resinous wood.

WORKTABLE EXTENSION:
DOUBLE PRODUCTIVITY
A single operator can easily move very long panels or introduce a second one without going to the outside to stop the first one.

THICKNESSING PLANERS	CLASS		NOVA	
	S 630	S 520	S 630	S 520
2 speeds powered work table movement	S	S	S	S
Electronic digital readout for working height	S	S	-	-
Analogic readout of stock removal height	-	-	S	S
Feed speed with electronic adjustment by means of inverter from 4 to 20 m/min	S	S	-	-
No. 4 feed speeds: 5-8-12-18 m/min	-	-	S	S
First front roller in helicoidal grooved steel	S	S	S	S
First front roller with rubber coating	O	O	-	-
First front roller with two different types of rubber	O	-	-	-
First sectional feed roller in steel	O	O	O	O
No. 2 outfeed rollers	S	S	O	O
Outfeed rubber-coated roller/s	S	S	S	S
Adjustable pneumatic pressure on the feed rollers	O	O	-	-
Work table with no. 2 idle rollers	O	O	O	O
“Tersa” monoblock cutterblock with throwaways knives	O	O	O	O
Worktable extension	O	O	-	-
Xylent spiralknife	O	O	O	O
Maintenance case for Xylent spiralknife	O	O	O	O

S = standard
O = option
- = not available

surfacing-thicknessing **planers**

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

SURFACING-THICKNESSING PLANERS		NOVA	
		FS 520	FS 410
Cutterblock diameter (no. of knives)	mm	120 (4)	95 (4)
Spindle speed	rpm	5.000	5.000
Main motor power	kW	7	5
Working width	mm	520	410
Exhaust outlet diameter	mm	120	120
Exhaust air consumption to 20 m/min	m^3/h	914	914
Basic machine weight	kg	700	550
Surface Planer			
Work tables total length	mm	2.250	2.200
Infeed work table length	mm	1.100	1.080
Surface fence dimensions	mm	1.200 x 190	1.200 x 190
Surface fence tilting		from 90° to -45°	from 90° to -45°
Thicknessing Planer			
Work table dimensions	mm	520 x 850	410 x 775
Maximum working height	mm	240	240
Minimum working height	mm	3	3,5
Maximum removal in a single passage	mm	5	5
Feed speed	m/min	5-8-12-18	6-12

Surfacing-thicknessing

planers

Devices and options

SIMULTANEOUS RAISING OF THE WORK TABLES: A GUARANTEE OF PERFECT PLANARITY.
The system allows the **changeover from planer to thicknesser with a single movement** ensuring working rapidity and precision.

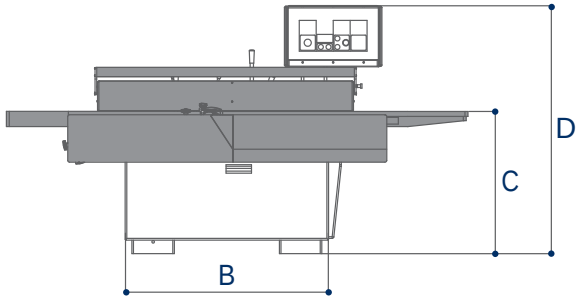
SURFACING-THICKNESSING PLANERS	NOVA	
	FS 520	FS 410
Powered movement of work table , 2 speeds	O	O
Electronic digital readout for working height	O	O
Analogic readout of cutting depth for surface planer	S	S
No. 4 feed speed: 5-8-12-18 m/min with manual selection	S	-
No. 2 feed speed: 6-12 m/min with manual selection	-	S
First front roller in helicoidal grooved steel	S	S
Outfeed rubber-coated roller	S	S
Work table with no. 2 idle rollers	O	-
“Tersa” monoblock cutterblock with throwaways knives	O	-
Xylent spiralknife	O	O
Maintenance case for Xylent spiralknife	O	O
Mortiser	O	O
Additional overturning fence for processing of thin workpieces	O	O

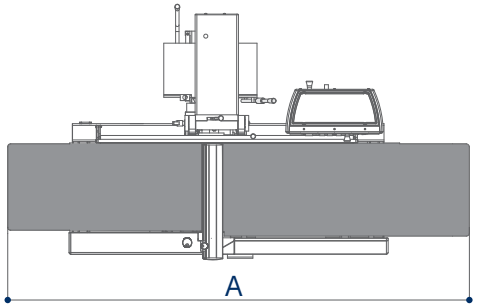
S = standard
O = option
- = not available

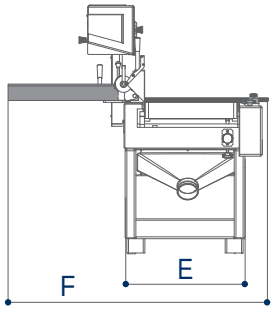
planers

Overall dimensions

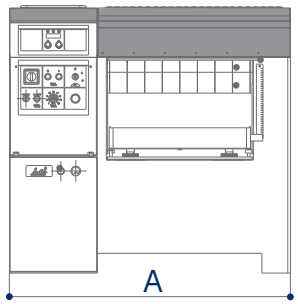
SURFACE PLANERS

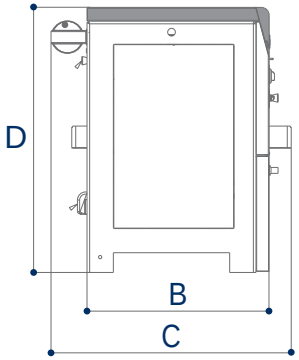




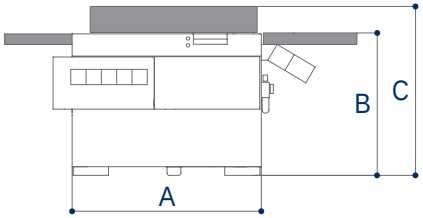


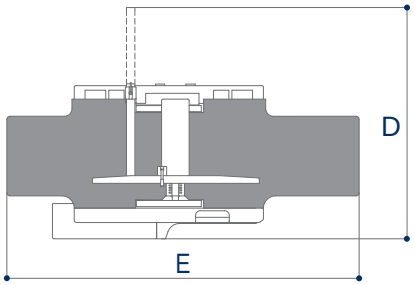
SURFACE PLANERS		CLASS		NOVA	
		F 520	F 410	F 520	F 410
A	mm	2.730	2.610	2.730	2.610
B	mm	1.200	1.200	1.140	1.140
C	mm	844	844	844	844
D	mm	1.385	1.385	-	-
E	mm	688	558	648	538
F	mm	1.416	1.155	1.415	1.150





THICKNESSING PLANERS		CLASS		NOVA	
		S 630	S 520	S 630	S 520
A	mm	1.280	1.130	1.275	1.140
B	mm	770	740	725	705
C	mm	1.095	1.017	1.080	1.003
D	mm	1.219	1.214	1.204	1.204





SURFACING-THICKNESSING PLANERS		NOVA	
		FS 520	FS 410
A	mm	1.235	1.030
B	mm	930	905
C	mm	1.103	1.100
D	mm	1.510	1.200
E	mm	2.300	2.200

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.

electronically programmable spindle moulder with tilting spindle
ti 145ep

electronic spindle moulder with fixed spindle
tf 130e

manual spindle moulder with tilting spindle
ti 120

manual spindle moulder with fixed spindle
tf 130

class ti 145ep

class ti 12o

nova

Guaranteed quality at your fingertips.

manual spindle moulder with tilting spindle
ti 105

manual spindle moulders with fixed spindle
tf 110
tf 100

nova ti 105

nova tf 110

class tf 13oe

class tf 13o

nova tf 100

electronically programmable

spindle moulder

with +/- 45.50° tilting spindle

More quality, more performance, more reliability.

SPINDLE MOULDER		CLASS
		TI 145EP
Machine version		electronically programmable
Work table dimensions	mm	1200 x 780
Spindle height	mm	160
Spindle base projection from table (9 kW version)	mm	87 (62)
Max. tool diameter retractable under work table	mm	300 x 45
Spindle speed	rpm	3000 - 4500 - 6000 - 7000 - 10000
Motor power	kW	7
External diameter of suction outlet on the spindle moulder hood	mm	120
Suction outlet diameter on base	mm	100
Extractor system - air speed - air consumption	 m/s m^3/h	 20 1380
Operating air pressure	bar	6
Basic machine weight	kg	655

manual

spindle moulders

with tilting spindle

Investment in performance.

SPINDLE MOULDERS		CLASS	NOVA
		TI 120	TI 105
Machine version		manual	manual
Work table dimensions - with optional saw carriage	mm	1200 x 810 -	1200 x 855 1200 x 530
Work table tilting	mm	± 45°	90° ÷ 45°
Spindle height Ø 30-35 (Ø 40-50)	mm	140 (180)	125 (125)
Spindle base projection from table	mm	25	2
Max. tool diameter retractable under work table	mm	320 x 60	240 x 80
Max. tool diameter retractable under work table at 45°	mm	-	150 x 80
Spindle speed	rpm	3000 - 4500 - 6000 - 7000 - 10000	3500 - 6000 - 8000 - 10000
Motor power	kW	5	5
External diameter of suction outlet on the spindle moulder hood	mm	120	120
Suction outlet diameter on base	mm	2 x 80	120
Extractor system - air speed - air consumption	 m/s m^3/h	 20 1550	 20 1550
Operating air pressure	bar	6	6
Basic machine weight	kg	490	425

manual

spindle moulders

with fixed spindle

Essential and professional.

SPINDLE MOULDERS		CLASS	NOVA	
		TF 130	TF 110	TF 100
Machine version		electronic/manual	manual	manual
Work table dimensions	mm	1200 x 730	1200 x 730	1080 x 855
Spindle height Ø 30-35 (Ø 40-50)	mm	140 (180)	140 (180)	125 (125)
Spindle base projection from table	mm	52	5	2
Max. tool diameter retractable under work table	mm	320 x 85	320 x 85	240 x 80
Spindle speed	rpm	3000 - 4500 - 6000 - 7000 - 10000	3000 - 4500 - 6000 - 7000 - 10000	3500 - 6000 - 8000 - 10000
Motor power	kW	7	5	5
External diameter of suction outlet on the spindle moulder hood	mm	120	120	120
Suction outlet diameter on base	mm	120	120	120
Extractor system - air speed - air consumption	 m/s m^3/h	 20 1650	 20 1650	 20 1650
Basic machine weight	kg	465	405	330

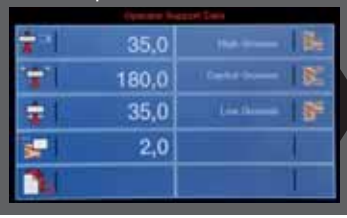
electronically programmable

spindle moulders

Electronic controls

EASY: THE OPERATING ADVANTAGE FOR EASY ASSISTANCE

Maximum reliability due to the function push buttons and **easy-to-use** 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 required machining operations.

READY: THE PRACTICAL ADVANTAGE FOR AUTOMATIC CONTROL OF THE MAIN POSITIONS

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. *class ti 145ep*

Tool-holder shaft lifting

Tool-holder shaft tilting

Adjustment of the entire profiling fence

Tool-holder shaft speed readout

electronically programmable

spindle moulders

Devices and options

“FLEX” SPINDLE MOULDER FENCE:
IMMEDIATELY IN THE CORRECT POSITION.
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.**

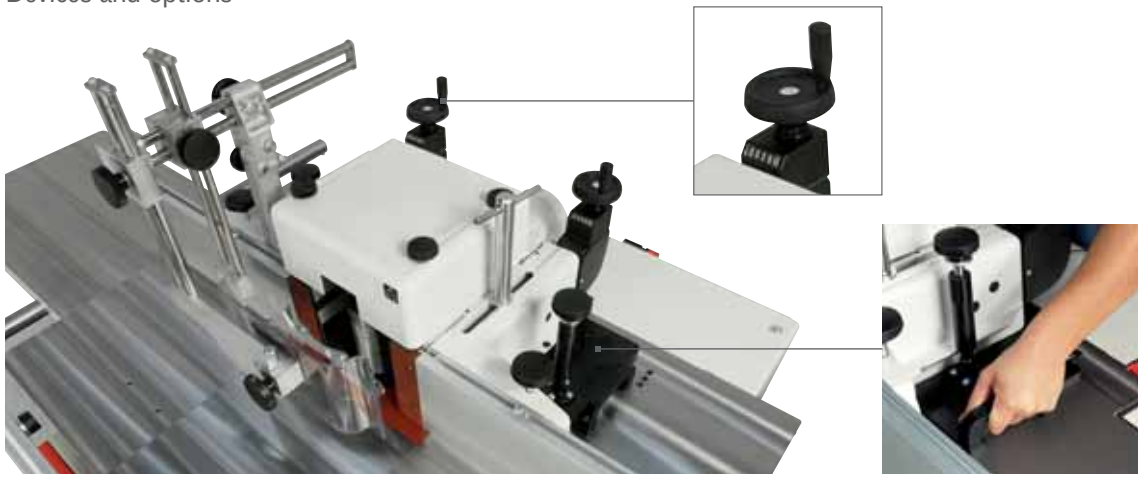
MACHINING WITH TOOLS ON THE SPINDLE HEAD CARRIED OUT WITH THE “FLEX” FENCE.
The spindle moulder fence can be located behind the tool allowing the performance of “head” routing using small diameter tools, typical of a router or portable electric tools; all this in compliance with CE safety regulations.

engraving, grooving, mortising

electronically programmable and manual

spindle moulders

Devices and options



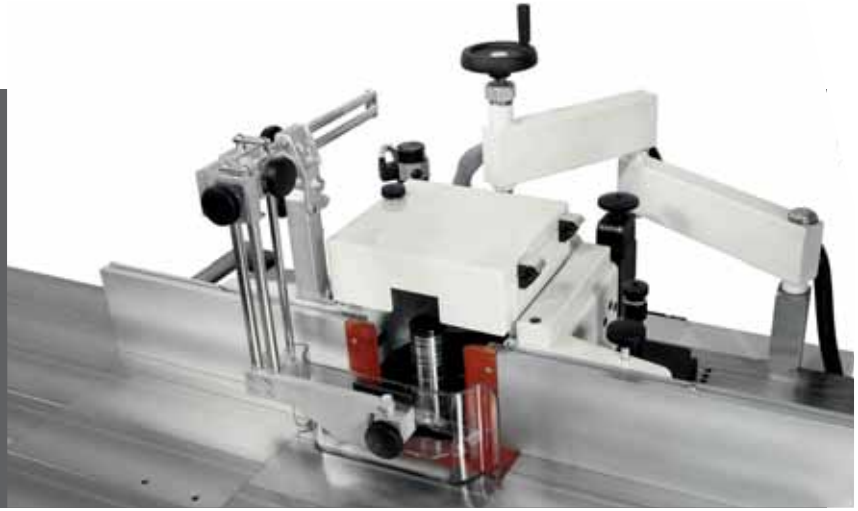
SPINDLE MOULDER FENCE WITH MECHANICAL PROGRAMMING: MAXIMUM SET-UP SPEED AND EASE-OF-USE.

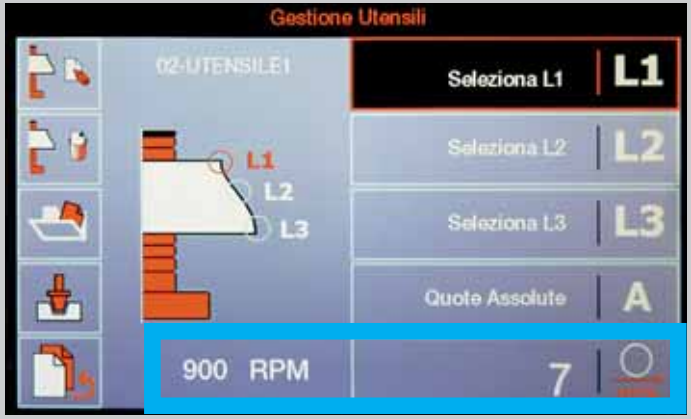
No more test runs due to digital readouts that ensure accuracy to a tenth of a millimetre in positioning the two worktables. The side handles make it easy to remove and reposition the fence from the work table.

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.

“FLEX ONE” SPINDLE MOULDER FENCE:
AUTOMATIC AND REMOVABLE.
Automatic adjustment of the entire fence according to the tool diameter.
User-friendly worktable exclusion system with precise re-positioning.





ELECTRONIC TOOL SPEED CONTROL:
HIGH QUALITY AND SAFETY ARE GUARANTEED.
- The awkward traditional **drive belt operations are eliminated**
- The correct speed for the very best finish on all materials
- The **possibility to lower the speed down to 900 rpm** allows polishing, raising the grain, and brushing operations
- Automatic tool braking even when the power supply is cut off. Maintenance and free of wear.

electronically programmable and manual

spindle moulders

Devices and options

“FAST” SECTIONAL WORKTABLE:
THE BEST SUPPORT FOR THE WORKTABLE.
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.

FEEDER SUPPORT:
THE WORK BECOMES SIMPLER.
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.

electronically programmable and manual

spindle moulders

Versions for tenoning and moulding

CARRIAGE ON WORK TABLE FOR SMALL TENONING JOBS.
Ideal for tenoning of small workpieces. Mitre cuts with angles of +/-60° on the worktable are possible. Easy fitting and removal due to the fixing system on the worktable.

"LL" VERSION WITH WORK TABLE SIDE EXTENSIONS.
Ideal when machining very long workpieces due to worktable extensions up to 2500 mm in length. The mobile front bar makes it easy to move large dimensioned workpieces on the worktable, particularly for edge moulding.

electronically programmable and manual

spindle moulders

Versions for tenoning and moulding

“TL” PRO-10 VERSION

SPECIALISATION AND PROFESSIONALISM WITHOUT COMPROMISE.
The manual feed carriage is a cast iron structure running on THK prismatic slideways with recirculating ballscrews, guaranteeing **maximum machining precision and stability.**

TOTAL EXCLUSION FOR ABSOLUTE FLEXIBILITY.
The **“PRO-10”** tenoning table can be **retracted easily and within a few seconds** to leave the machine ready for the following moulding and contouring operations.

"TL" VERSION

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 steel bar.

electronically programmable and manual

spindle moulders

Versions for tenoning and moulding

VERSIONS WITH FRONT SLIDING CARRIAGE

THE “FLEXIBLE” PAR EXCELLENCE.
Designed to manage tenoning and moulding operations very easily.

spindle moulders

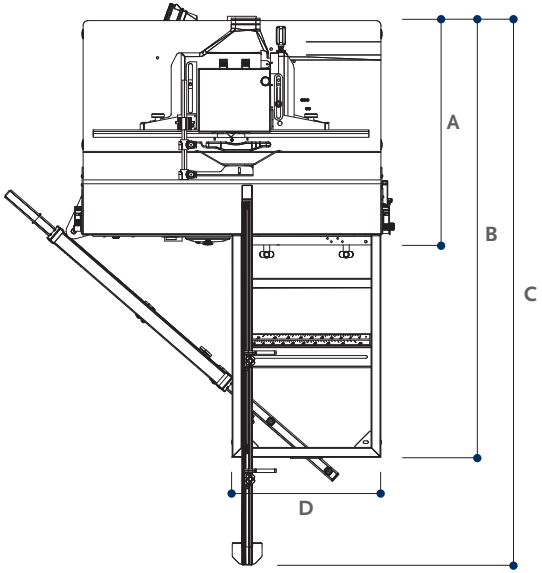
Equipments

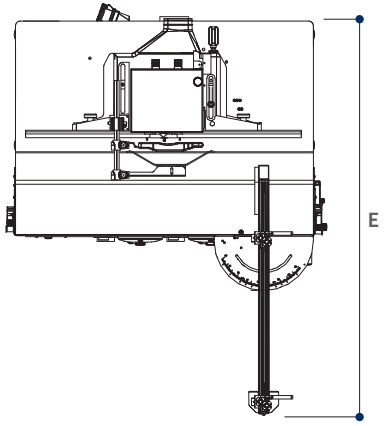
SPINDLE MOULDERS WITH FIXED SPINDLE	NOVA		CLASS		
	TF 100	TF 110	TF 130	TF 130E	TF 130PS
Machine type	M	M	M	E	M
"LL" version with 2 profiling extensions	O	O	O	O	-
Version with front sliding carriage	-	-	-	-	S
Carriage on the table for small tenoning operations	O	O	O	O	-
"TL" version for tenoning and profiling	-	O	O	O	-
"TL" PRO-10 version for tenoning and profiling	-	-	O	O	O
Upper mobile control panel	-	-	O	O	-
MK interchangeable spindle	O	O	O	O	O
Inverter for speed change	-	-	O	O	-
Reverse spindle rotation	S	S	S	S	S
Manual feeder support	-	-	O	O	-
"Fast" sectional table with manual movement	-	-	O	S	-
Adjustable manual spindle moulder fence (CE-USA-Canada)	S	S	S	-	S
Spindle moulder fence with mechanical programming	O	O	O	S	O
"Flex" Spindle moulder fence with mechanical programming	-	-	O	O	O
Spindle moulder fence with aluminium tables	O	O	O	O	O

spindle moulders

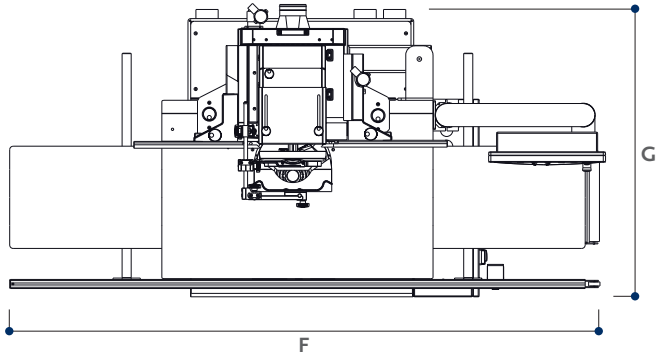
Equipment and overall dimensions

SPINDLE MOULDER WITH TILTING SPINDLE	NOVA	CLASS	
	TI 105	TI 120	TI 145EP
Machine type	M	M	EP
“LL” version with 2 profiling extensions	O	O	O
Version with front sliding carriage	O	-	-
Carriage on the table for small tenoning operations	O	O	O
“TL” version for tenoning and profiling	-	O	O
“TL” PRO-10 version for tenoning and profiling	-	-	O
Upper mobile control panel	-	-	O
MK interchangeable spindle	O	O	S
Inverter for speed change	-	-	O
Reverse spindle rotation	S	S	S
Manual feeder support	-	-	O
“Fast” sectional table with manual movement	-	-	S
Adjustable manual spindle moulder fence (CE-USA-Canada)	S	S	-
Spindle moulder fence with mechanical programming	O	O	S
“Flex” Spindle moulder fence with mechanical programming	-	-	O
“Flex One” Spindle moulder fence with programming from NC	-	-	O
Spindle moulder fence with aluminium tables	O	O	O





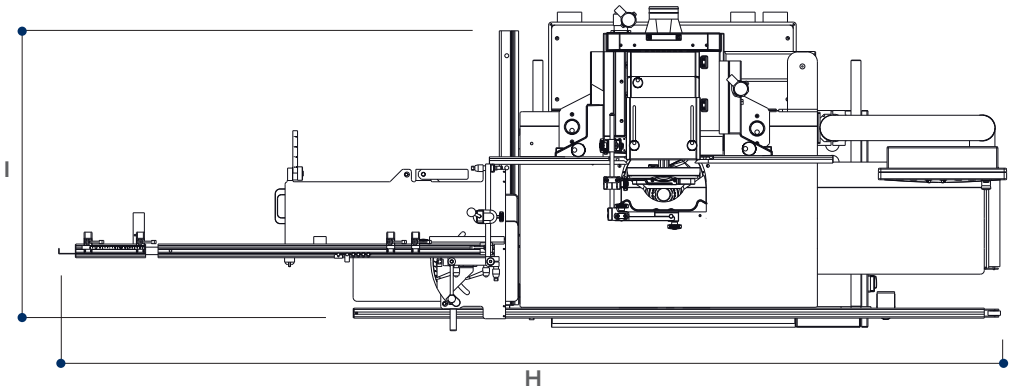
SPINDLE MOULDERS		CLASS	NOVA
		TF 130	TI 105
A	mm	760	865
B	mm	-	1756
C	mm	-	2190
D	mm	-	600
E	mm	1720	1530



SPINDLE MOULDERS		CLASS			NOVA		
		TI 145EP	TI 120	TF 130	TI 105	TF 110	TF 100
F	mm	2600	2600	2600	2600	2600	2576
G min	mm	1265	1290	790	920	790	720
G max	mm	1575	1705	1340	1480	1340	1220

spindle moulders

Overall dimensions



SPINDLE MOULDERS		CLASS			NOVA		
		TI 145EP	TI 120	TF 130	TI 105	TF 110	TF 100
H	mm	3780	3780	3780	-	3780	-
I	mm	1685	1685	1685	-	1685	-

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.

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.

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

INDUSTRIAL COMPONENTS

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

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

scm woodworking technology | *is more*

rev/00

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