



Combined series

elite S

CU 410 elite S
FS41 elite S
ST5 elite S

TECNOMAX

scm group A great group, great products, great quality



Factories



Foundries



Sheet processing



Mechanical processing



Painting



Groups assembly



Assembly line



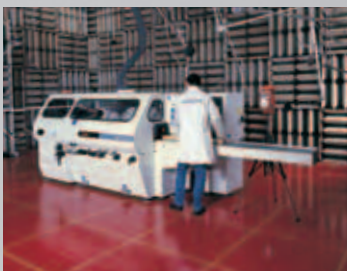
Component manufacturing



Testing



Training



Research and development

The SCM Group is a world leader for woodworking machinery. In its fifty-year history the Group has installed two million machines in 120 countries worldwide. Today, the SCM Group has 3.000 employees, 18 production facilities and 23 overseas branches. It exports over 70% of its production. The companies comprising the Group include some of the most prestigious names and brands in the woodworking machinery industry. **SCM**, founder of the SCM Group, produces machinery for small-, medium- and large-sized companies and has become the world leader for the production of CNC routing machines. **MINIMAX** is a group company manufacturing machinery for small carpentry workshops and the woodworker. **ROUTECH** specialises in CNC machining centres and is a leading innovator for routing technology. **CMS** is renowned for its high-productivity industrial machining centres. **MORBIDELLI** is a leading producer of industrial drilling machines and lines for the furniture industry. **GABBIANI** has been renowned since the sixties for its panel saw lines. **DMC**, originally the mechanical engineering division of furniture maker Castelli, was acquired by the SCM Group in the eighties and today is a world leader for industrial sanding machinery for the furniture industry. **IDM** and **STEFANI** are two major names for edge banding machinery and operate today as a single manufacturing company whose edge banders have become

a bench mark for the European furniture industry. **MAHROS** produces automated handling and conveying systems for integrated production lines and manufacturing cells. **SCM GROUP ENGINEERING** designs and develops integrated systems. Companies of the **CMS Group** have recently joined the SCM Group adding expertise in woodworking machinery and glass and marble machines tools to the Group's already broad range of talents. SCM Group has always implemented a fully integrated manufacturing policy to guarantee that our customers get total quality. We prefer to do everything in-house. The Group has its own division specialising in the design and manufacture of electrical, electro-mechanical and electronic equipment. Our two foundries, leaders on the Italian market, produce the small, medium and large size castings needed for our products. We have a company specialising in structural steel work. The SCM Group has 20 years experience in professional training for the woodworking industry. Today our training strategy includes close collaboration with the Faculty of Engineering at the University of Bologna, the Fontys at Eindhoven in The Netherlands, the Wood Institute at the British Columbia University, Vancouver (Canada) and the Georgia Institute of Technology in Atlanta (USA). All SCM Group production facilities have **ISO 9001 quality assurance certification.**

TECNOMAX

A brand of SCM GROUP

Tecnomax is a brand of SCM Group

100% made in Italy



The **Tecnomax** brand has been created to identify the range of products for the professional woodworker, from universal combined machines through to single-function machines; it supports **Minimax** which has over 30 years experience in the woodworking machinery sector.

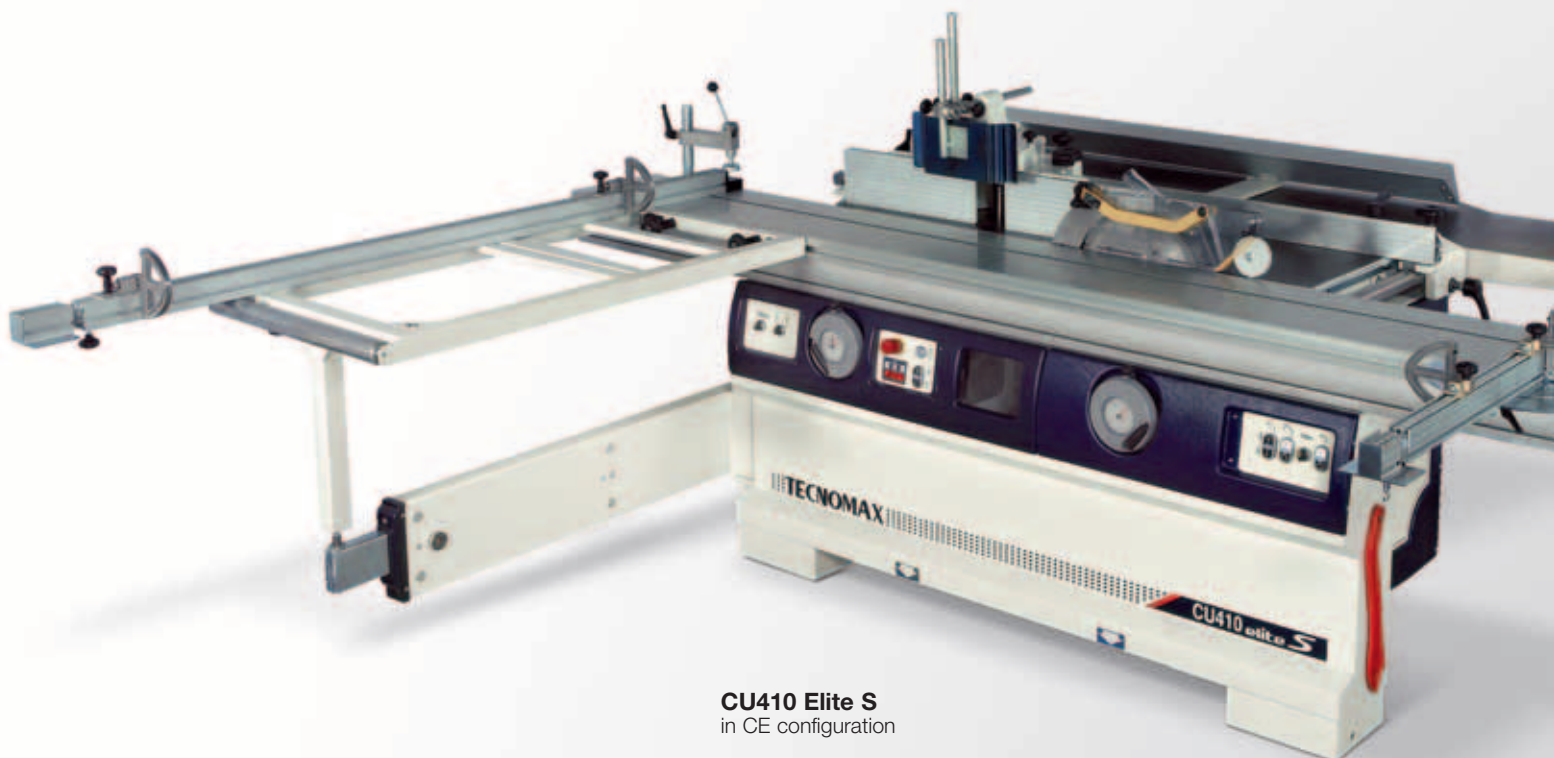
A well-established network of branches and distributors in 120 countries.

Our network of dealers offers a top quality after-sales service world-wide.

CU410 - ST5 - FS41 elite **S**

The ELITE S range

SINCERT



CU410 Elite S
in CE configuration



ST5 Elite S
in CE configuration
(machine with assembled options)

TECNOMAX

For those who want more than the best, **Elite S** provides unbeatable performance and technology in a combination machine.

The technical solutions adopted give the **Elite S** series unrivalled performance and reliability.



FS41 Elite S
in CE configuration



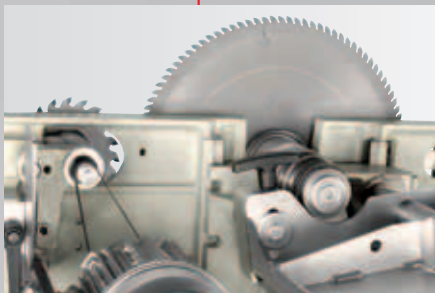
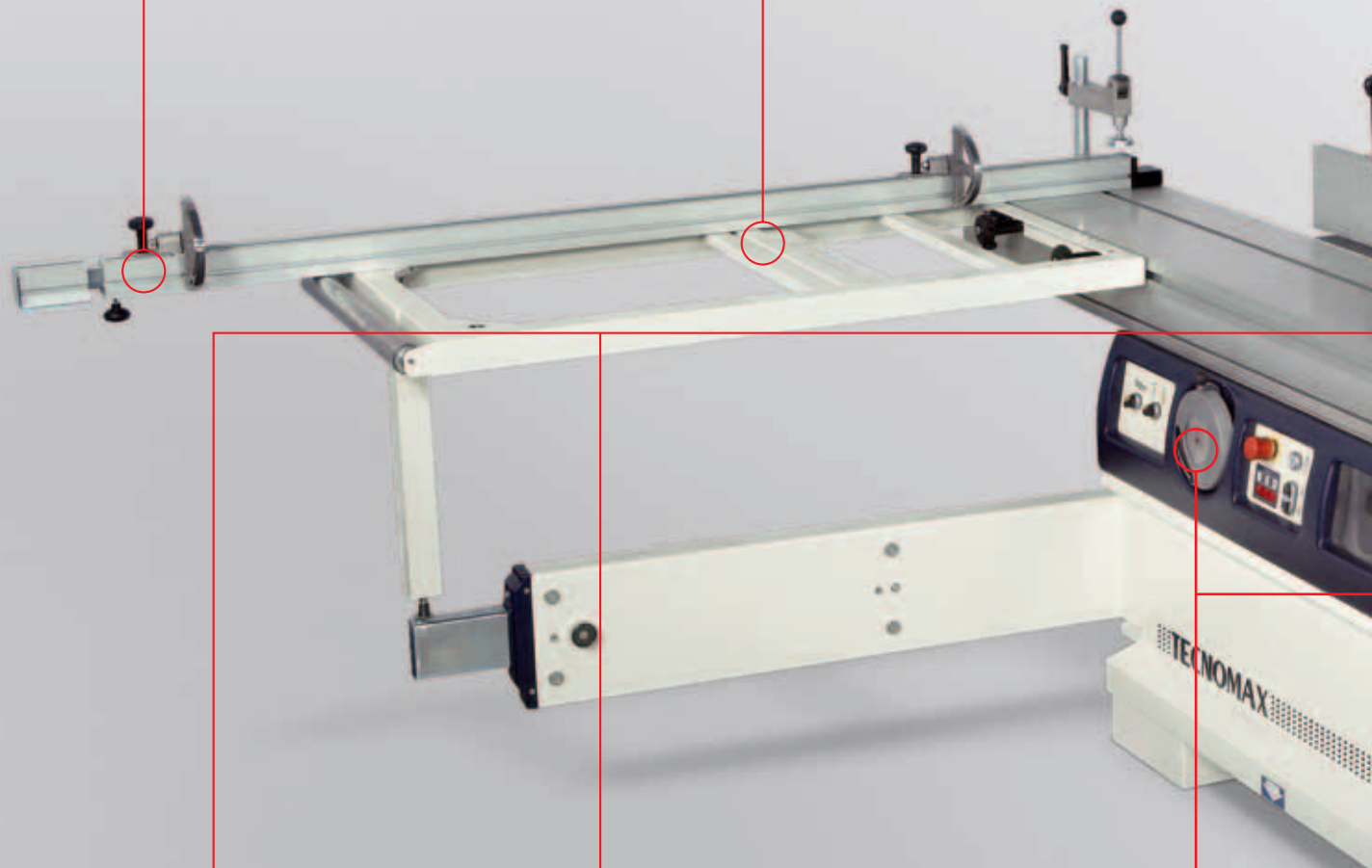
Generous dimensions and strong build make these machines unique and able to meet the requirements of the most demanding professional.

The new **Elite S** series breaks new ground in the professional combination machines sector.

CU410 - ST5 - FS41 elite S

Telescopic rule with
2 flip-over stops

Squaring frame on
standard equipment



350 mm diam. blade with 118 mm. cutting height capacity and 120 mm diam. scoring unit with independent motor



3 saw blade speed (3500, 4200, 5000 rpm) available on demand



Handwheel-controlled unit movement with position indicator.

Optional power-driven movements

Unique worldwide!



Spindle moulder with 4 speed available with fixed or 90/45 degrees tilting version

100 mm diam. **cutterblock with 4 knives.**

Rip fence with rack and pinion micrometric adjustment



2200 mm ribbed cast-iron surface tables length with simultaneous opening

Parallel and planer fences with **cylindrical sliding bar**: more precise sliding system, which enables fast setup

Alloy carriage is available with 2200/2600/3200 mm carriage stroke on request

Both the carriage and the guides are in anodized aluminium



CU410 ST5 elite S

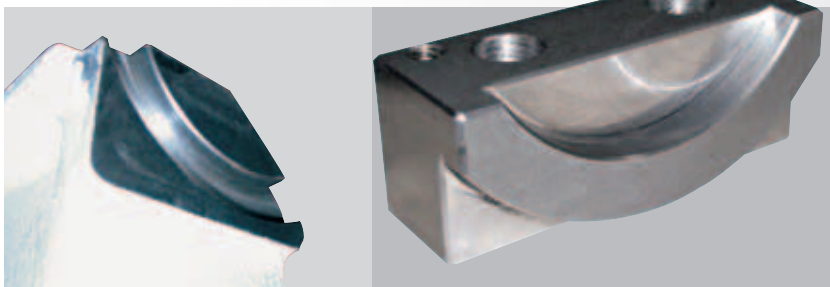
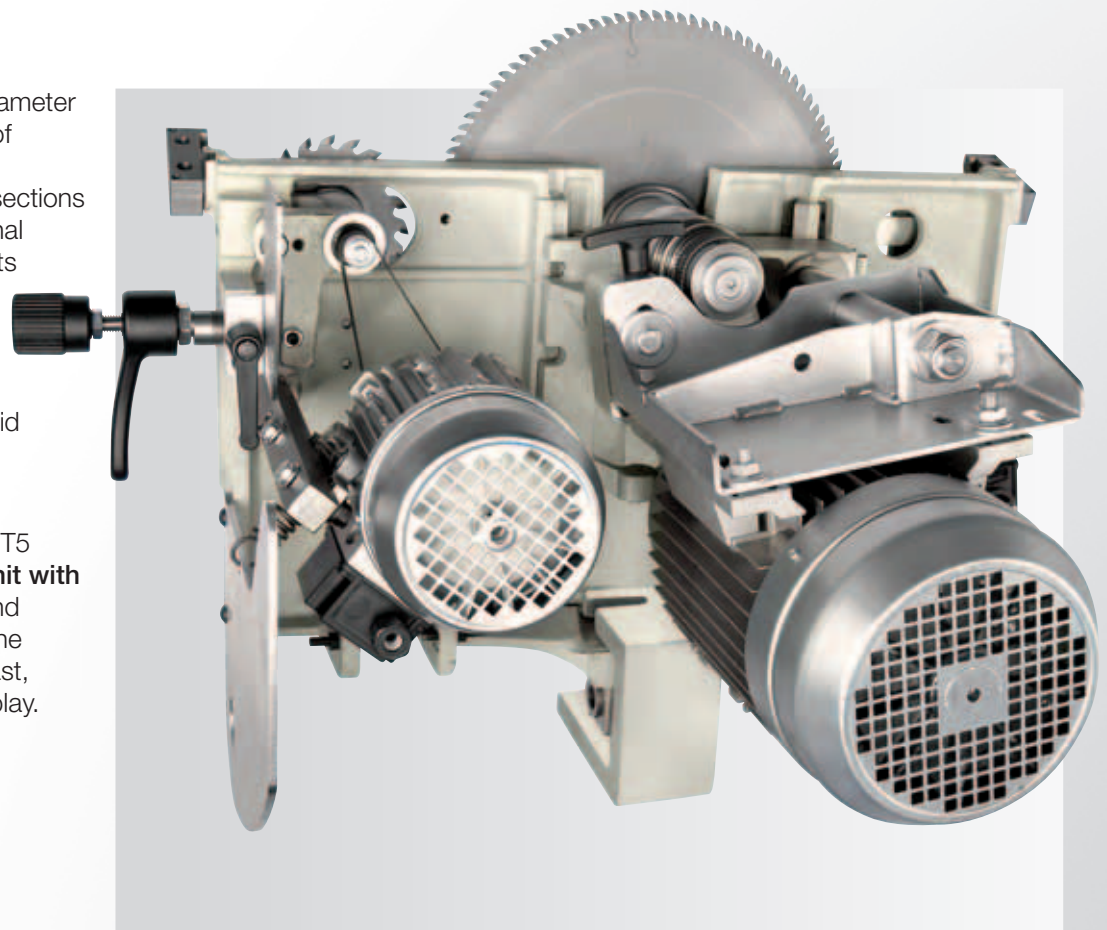
Saw unit

The saw unit holds a 350 mm diameter blade, allowing a cutting height of 118 mm.

The whole unit tilts on cast iron sections and is also available as an optional 3-speed model: the only one in its category!

Thanks to the perfect balancing of the rotating parts, it is completely vibration-free and can be used to cut very thick solid wood.

Standard version CU 410 and ST5 equipped with a **scoring saw unit with 0.55 kW independent motor** and 120 mm blade adjustable from the outside without tools, allowing fast, precise positioning without any play.



The oscillating body's **rotation fulcrum** has a 120 mm diameter and stands on a steady rest separating it from the base: a rigid, reliable solution.



Blade unit lifting is performed by a strong cast iron structure with dovetail system.

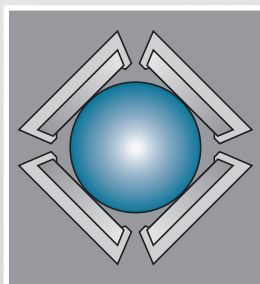
CU410 ST5 elite S

Sliding carriage

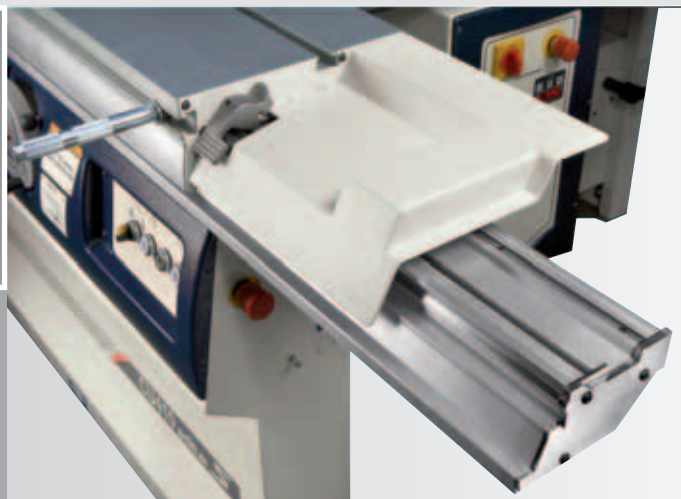
- > Top quality precision
- > Smooth and silent sliding
- > Long lasting accuracy

Unrivalled
cutting quality
and finish!

The system for carriage sliding is on hardened, ground, prism guides, which allows precise, straight cutting. Lasting precision is guaranteed by the exclusive assembly process.



5-year
guarantee!



No glue is used to secure the guides, since the thickness could affect sliding. They are secured with a procedure for aluminium riveting along the entire length of the guide.

Panel
squaring

Panel loading is easy on the **large squaring frame** with an idle roller at the end. The telescopic squaring fence, with reversible stops, can be used to square panels measuring 3200 x 3200 mm and for mitre cuts at up to 45 degrees on both sides of the frame.



Spindle moulder unit

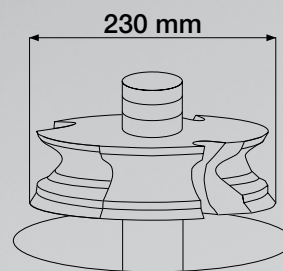


New large spindle moulder unit

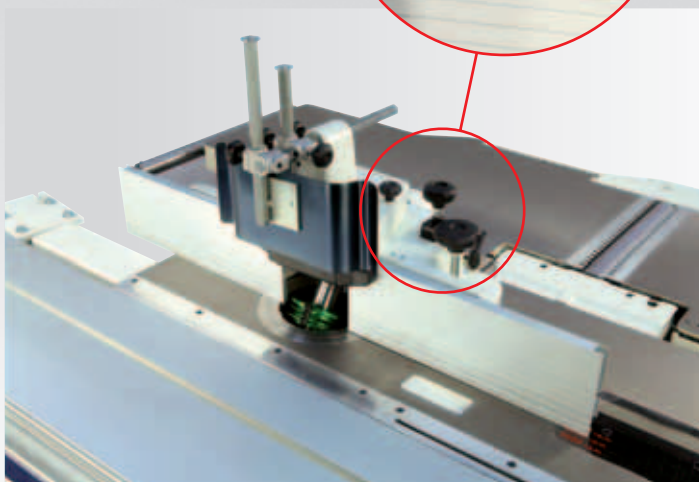
4 standard speeds (1400/3500/6000/8000 rpm at 50Hz) for any machining, from moulding to tenoning to sanding.



On demand, it is available the 45 degrees tilting spindle, toward the inside machine.



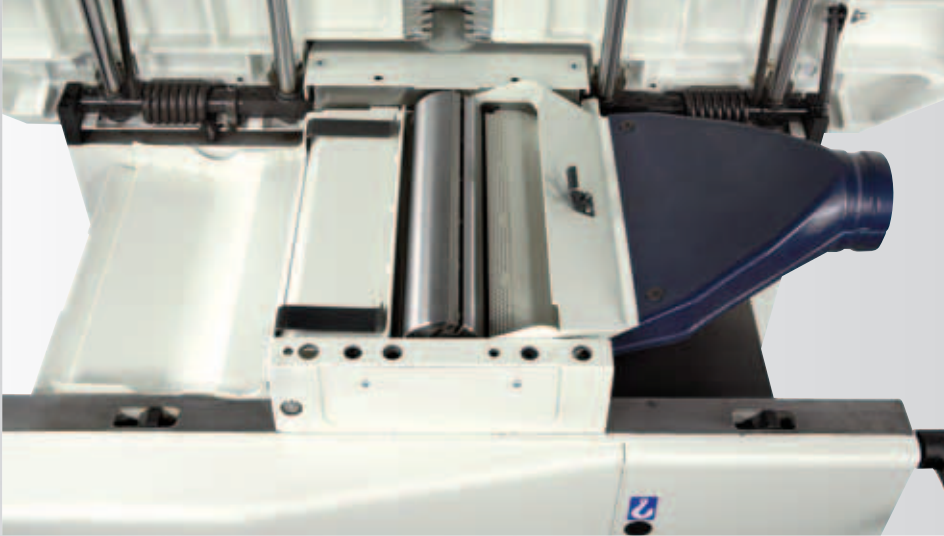
Maximum diameter of tool for moulding and retractable under the table is 230 mm.



The new spindle moulder hood uses a fences adjustment system through rack and it has a mechanical digital readout.



The hood can be removed and re-positioned without losing the working position.



The planing unit supports a 100 mm diameter cutter block with 4 knives and an infeed roller machined with spiral teeth to guarantee smooth, regular feeding of the workpiece.

The extractor hood is always on the same side of the machine, for both planing and thickening.



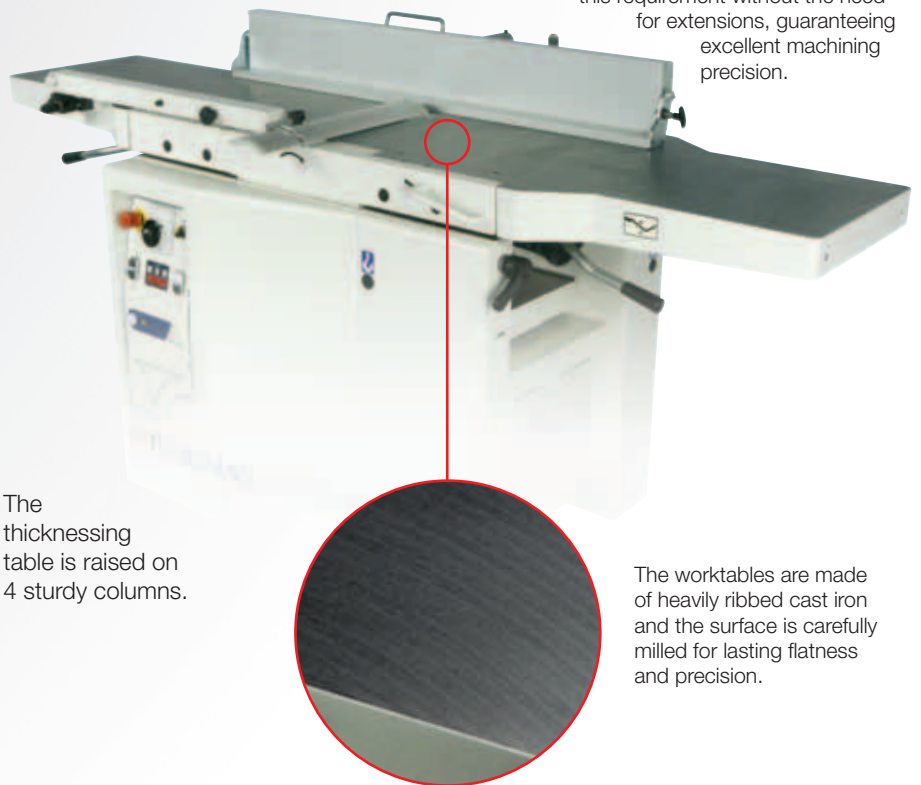
The thickening table is raised on 4 sturdy columns.



2 feed speed through the standard thickness (7 and 14 m/min.)

Unique!!!
2200mm Surface tables length.

Very long worktables are essential to make very long workpieces perfectly flat. Elite S series worktables meet this requirement without the need for extensions, guaranteeing excellent machining precision.



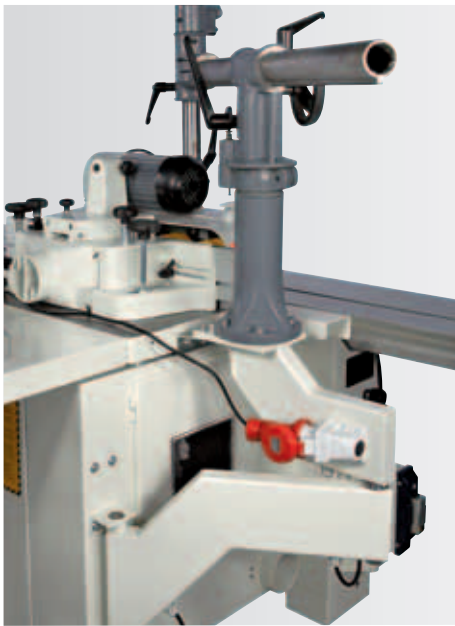
The worktables are made of heavily ribbed cast iron and the surface is carefully milled for lasting flatness and precision.

Stringent tests carried out at the SCM Studies and Research Consortium allowed the application of technological solutions which make the Elite S series extremely safe and silent.

Optional devices



Easy to use
Powered vertical movement of all operating units (spindle moulder and thickening planer with digital readout)



Retractable support and electrical set-up for mounting a feeder unit
 The device can be fully retracted to prevent interference with other parts of the machine.

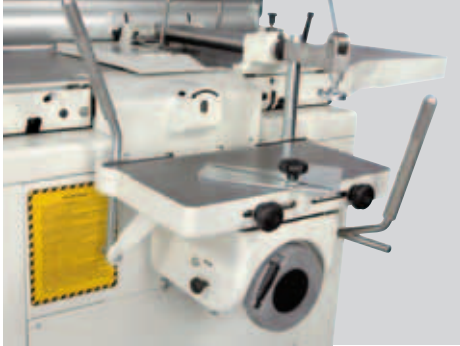


Digital readout of working width on parallel fence,
 complete with digital readout and magnetic band



Unique!!!
 3 saw blade speed
 (3500, 4200, 5000 rpm)

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Cast-iron mortiser, complete of 120 mm diam. exhaust hood and 6 mm diam. spindle.



5-10-16 mm chuck with clamp.



Wescott type chuck

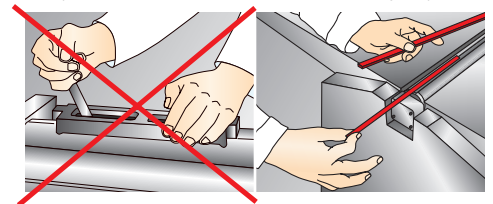
Tersa cutter block with disposable knives

The knives are automatically clamped by centrifugal force, for safe, precise machining. The system without fixing screws makes knife changeovers extremely fast.



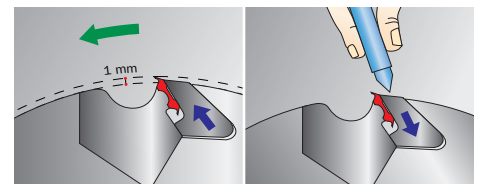
The revolutionary system for fixing knives to the cutter block slashes set-up times.

Inserting the knives in the cutter block is very simple.



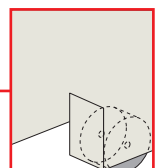
The knives are automatically clamped thanks to centrifugal force the moment the machine is started. With perfect automatic adjustment of knife projection.

Change the knives in a matter of seconds by releasing the pressure wedges.



Rubber-coated outfeed roller for thickening

This optional device maintains the excellent finish and quality of the workpiece machined.



Wheel unit integrated in the base, for easy machine movement.

Optional devices

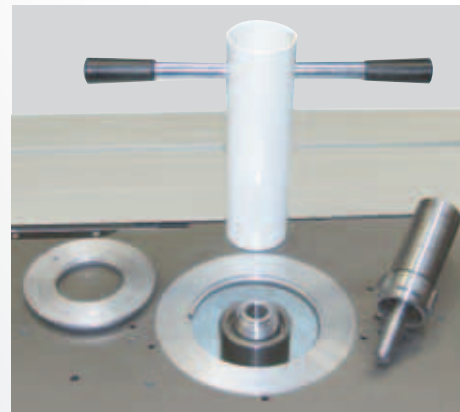


Tenoning working device equipped with:

- Table
- Protection hood for 275 mm diameter tools.
- Exhaust hood (diameter 120 mm.)



90-45 degrees tilting spindle moulder



Interchangeable spindle



Angular cutting device equipped with:

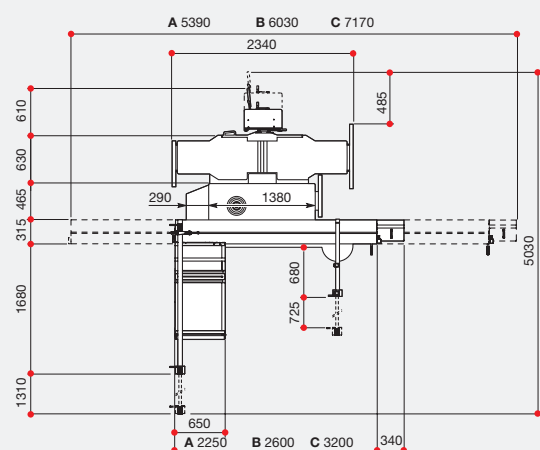
- telescopic fence with **two flip-over stops**
- pre-set for angle selection



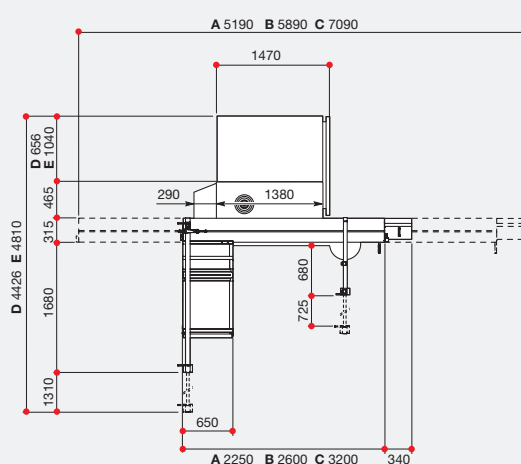
Overhead saw guard
 N.B. Available only on ST5
 N.B. Standard for C.E. and USA/CANADA versions

		CU410	ST5	FS41
Surface planer				
Surface planer working width	mm	410	-	410
Surface planer total length	mm	2200	-	2200
Tilting surface fence	degrees	90-45	-	90-45
Cutterblock diam. / No. of knives	mm/n°	100/4	-	100/4
HSS standard cutterblock knives dimension	mm	410x30x3	-	410x30x3
Cutterblock speed	rpm	5000	-	5000
Max stock removal to cutterblock	mm	5	-	5
Thickening planer				
Thickening table dimensions	mm	410x775	-	410x775
Thickening speed	rpm	7/14	-	7/14
Min/max. thickening working height	mm	3/240	-	3/240
Min. thickening working length	mm	180	-	180
Circular saw				
Saw-spindle moulder table dimensions	mm	1380x465	1380x465	-
Tilt of saw blade	degrees	90-45	90-45	-
Max. saw blade diam. with installed scoring unit	mm	350	350	-
Max. saw blade projection at 90° from table with blade 315 mm diam.	mm	118	118	-
Saw speed	rpm	4200	4200	-
Scoring blade diam.	mm	120	120	-
Scoring blade speed	rpm	9200	9200	-
Scoring unit motor power	kw (ch)/Hz	0,55 (0,75)/50 0,65 (0,9)/60	0,55 (0,75)/50 0,65 (0,9)/60	-
Max. squaring stroke (CE) standard	mm	2320	2320	-
Cutting width on rip fence	mm	1000	900	-
Spindle moulder				
Max. spindle working height	mm	125	125	-
Mechanical spindle moulder speeds (50 Hz)	rpm	1400-3500 6000-8000	1400-3500 6000-8000	-
Max. dimensions of tool lowered under table	mm	230x85	230x85	-
Max. tool diameter when tenoning	mm	275	275	-
Other technical specifications				
Exhaust hood n°/diam.	mm	3/120	2/120	1/120
Net weight basic machine	kg	1365	900	500
Available motors				
Three-phase motors 4kW 5,5ch 50Hz (4,8kW 6,6ch 60Hz)	(n°)	● (3)	● (2)	● (1)
Three-phase motors 5,5kW 7,5ch 50Hz (6,6kW 9ch 60Hz)	(n°)	○ (3)	○ (2)	○ (1)
Single-phase motor 3,6kW 4,8ch 60Hz	(n°)	○ (3)	○ (2)	○ (1)

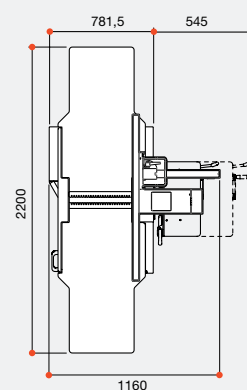
○ = option ● = standard



CU410



ST5



FS41

A = carriage 2250
B = carriage 2600
C = carriage 3200

D = 1110x695 mm with supplementary table
E = 1110x1070 mm with supplementary table

In this catalogue, machines are shown with options. The company reserves its right to modify Technical specifications without prior notice, provided that such modifications do not affect safety as per E.C. norms.



TECNOMAX

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