

Combined machines

smart

CU 300 smart CU 350 smart CU 410 smart

FS 30 smart FS 35 smart FS 41 smart

ST 3 smart













Foundry



Sheet processing



Assembly line



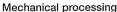
Component manufacturing



Testing

scmegroup A great group, great products, great quality







Painting



Groups assembly





Training

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 world-wide. 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 largesized 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 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.

100% made in Italy

MINIMAX is a SCM Group company

Minimax has over 30 years experience in the woodworking machinery sector and today offers a wide range of products, from universal combined machines through to single-function machines for the professional woodworker.

Minimax joined the SCM Group in 1986 and ever since has been able to count on the experience and expertise of this world leader for woodworking machinery.

Minimax continues the great tradition started by SCM in 1952 with the introduction of the first combined machine, a machine that combined several woodworking operations in a single machine. The machine became famous, first in Europe and then world-wide, as a major innovation offering top level reliability. Today, the SMART range of combined machines produced by Minimax is considered the best of its kind.

Minimax has UNI EN ISO 9001-2000 quality certification. It operates from a 15,000 square metre production facility in the Republic of San Marino not far from Rimini on Italy's Adriatic coast. The production facility has five automated production lines.

Minimax produces 10,000 machines annually. Machines are designed primarily for the small woodworking company and the craft woodworker. Minimax machines are simple, reliable and incorporate the latest technical innovations. There is also a product range aimed specifically at the advanced DIY woodworker.

Minimax can count on the services of a well-established network of branches and distributors in 120 countries. In 2002 the company opened its first branch dealing direct with the final customer - Minimax USA covering the entire American market. Our network of dealers offers a top quality after-sales service world-wide.





Quality control

Preassembly line











Assembly line

CSR (Reserch and development dept. SCM GROUP) – Semi-anechoic room.

Mini Max

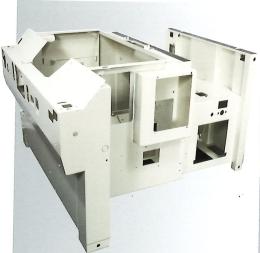
smart



Smart range



smart



All Minimax machines have a welded, single-piece steel base. There are no bolted components to work loose. The base structure has been designed to guarantee strength, rigidity, resistance to torsional stress and the complete absence of vibrations.

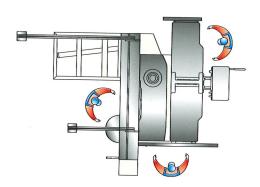


The special planing action aids workpiece feed and prevents any suction effect.

Unit operation.

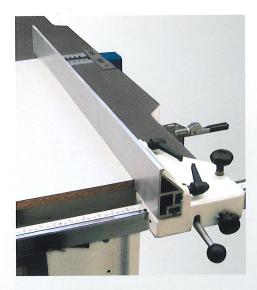
On the Smart series the operator controls are in an ergonomic position.

Machining units are all adjusted from the front of the machine. There are Start and Stop pushbuttons for each machining function.





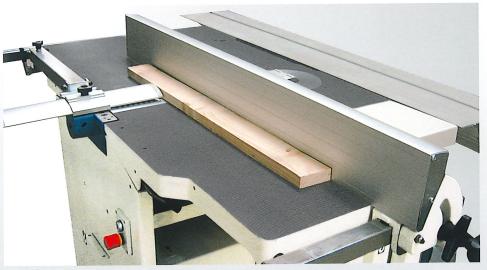
The quality shows in the details.



Professional fences

Standard equipment includes two dedicated fences, one for the saw and another for the surfacer unit. MiniMax fences are designed to be easy to remove so that the changeover from one type of operation to another is quick and easy.

The saw fence has a quick-release lock and micrometric adjustment. Maximum cutting width is 1050 mm.

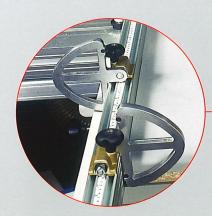


The surfacer fence is made from anodised aluminium and is large-size (1700 x 150mm) to ensure a solid, rigid support surface for the workpiece. This fence can be tilted from 90° to 45° and comes complete with a support and a clamping mechanism.

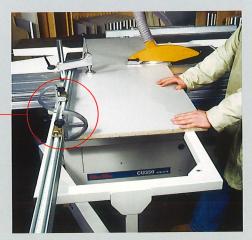
Sliding table

The Smart combined machine has a sliding table with the following features:

- telescopic fence with graduated rule, two flip-over stops and work clamp
- telescopic support
- the fence is easy to adjust in both directions from 90° to 45° for mitre cuts on large panels.



Crosscut flip-over stops

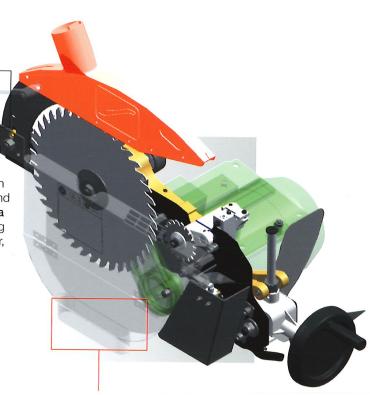




smart

Circular saw unit

The Smart circular saw unit is firmly anchored to the cast-iron worktable at two points. This ensures the maximum rigidity during cutting and reduces vibration to the minimum. This is a large-size unit and will take a 315 mm diameter blade with a scoring saw mounted. The optional scoring saw unit is complete with a 80 mm diameter, Z 12 blade and guarantees a perfect finish on veneered panels.



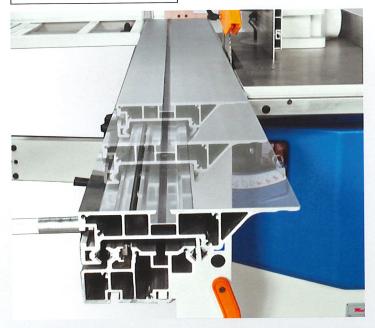
The saw unit has a guard hood which is designed for connection directly to extraction equipment to ensure that sawdust and shavings do not drop down inside the machine.



The max. saw blade projection is 103 mm

The heart of a combined machine: the machining units

Carriage unit



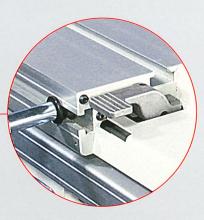
The MiniMax carriage is made from extruded anodised aluminium with a closed, honeycomb structure. The carriage runs on an exclusive slideway system consisting of guides made from calibrated and hardened F550SX steel. The carriage is the result of 50 years' experience and expertise at SCM and include:

- top quality precision.
- smooth, silent action.
- self-cleaning dustproof system.
- long lasting accuracy, no adjustments required.



Available strokes:

- 1600mm (standard)
- 2250mm (option)
- 2600mm (option)
- 2800mm (option)



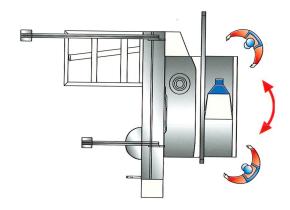
The carriage locking system makes it easy to load panels.



The heart of a combined machine: the machining units

Surfacer-thicknessing unit

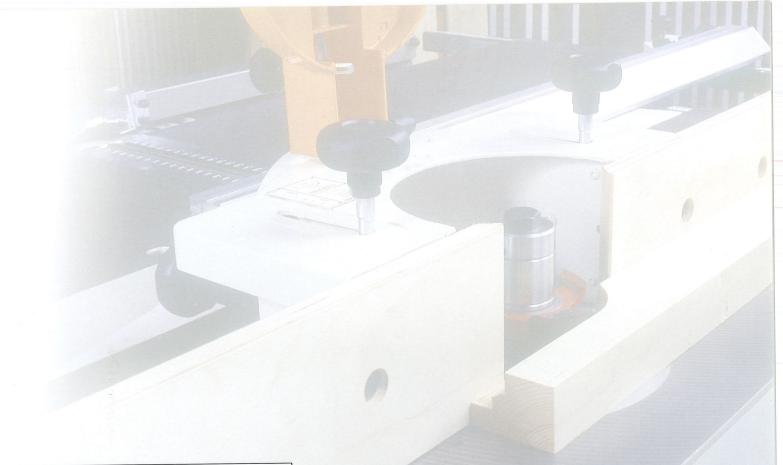
The Smart surfacer-thicknessing units features a cutter block with three re-usable knives and two feed rollers. Cutter blocks with Tersa disposable knives are also available. The exclusive thicknessing feed system makes it possible to adjust feed roller pressure to match the type of wood being machined. The infeed roller has helical toothing to guarantee perfect workpiece feed. The outfeed roller is made from sand-blasted steel to leave a perfect finish.







The surfacer unit tables open up towards the saw-spindle moulder unit thus reducing overall dimensions and ensuring easy access to the thicknessing unit.



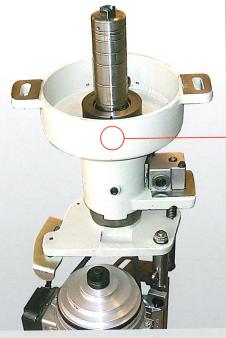
Spindle moulder unit

The Smart spindle moulder is designed to provide the maximum stability and rigidity under all working conditions. Top performance features include:

- large-size, cast-iron moulder spindle.
- large distance (230 mm) between the two bearings on the moulder spindle.
- tools can be mounted at a minimum distance (5 mm) from the first bearing.

The Smart spindle moulder with tools up to 275 mm for tenoning and up to 215 mm for moulding; tools retract under the worktable. 4 standard speeds (1400, 3500, 6000, 8000 rpm) are ildeal for all types of machining operation: sanding, moulding, routing against the grain.

A tilting spindle moulder is available as an option. This tilts 45° forwards and 5° backwards to meet all machining needs in complete safety.

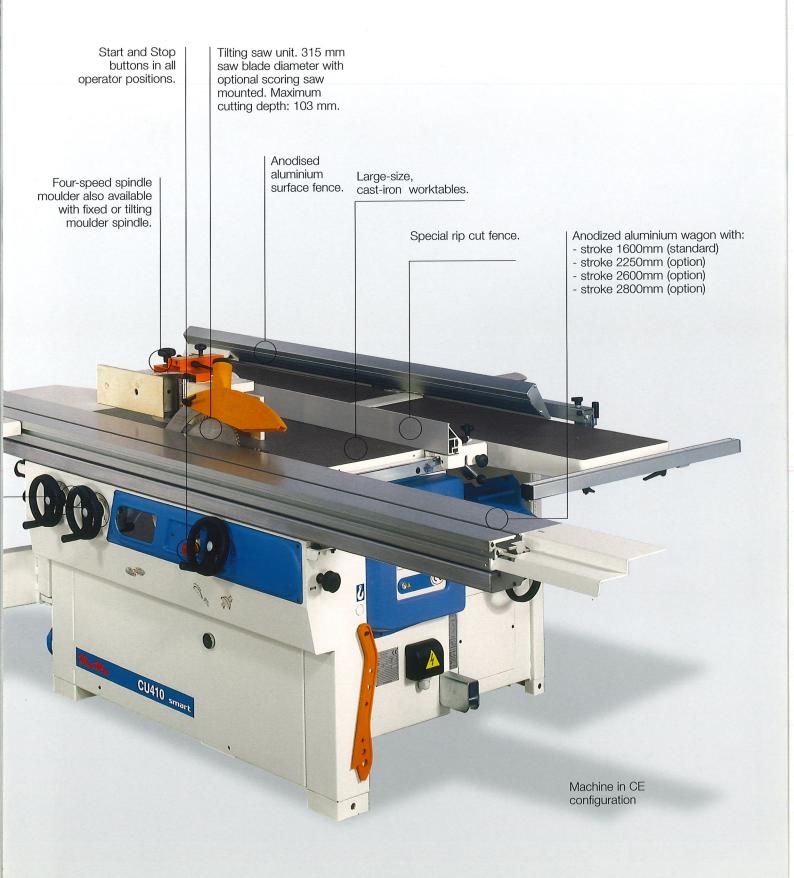


The spindle moulder spindle is closed off by a cast-iron plate to protect mechanical components inside the machine from sawdust, shavings and dirt.



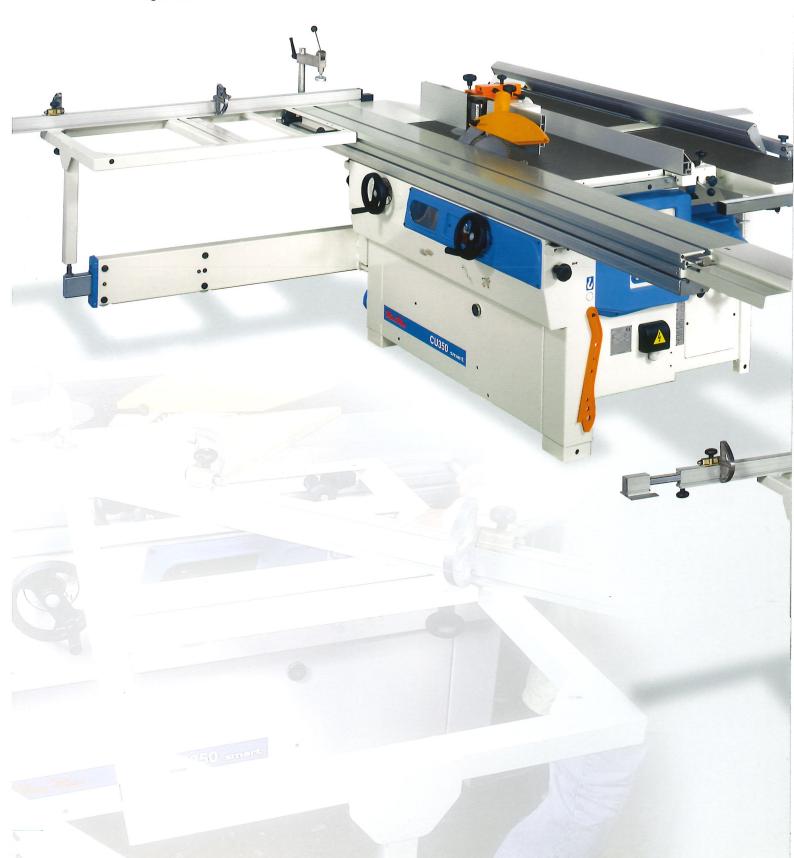
Spindle moulder fence with millimetre adjustment for moulding profiles.

Combined universal machine with 6 functions



CU350 smart

Machine in CE configuration



Combined universal machine with 6 functions

CU300 smart









ST3 smart

Combined circular saw – spindle moulder





Options



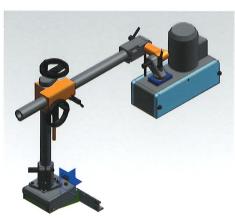
Scoring saw unit complete with 80 mm diameter blade (arbor hole 20 mm), Z12 tapered, 7.600 rpm. Easy height and sideways adjustment.



New **mitre cut unit** with telescopic fence rule and flip-over stops. Selecting an angle is quick and precise.



The interchangeable moulder spindle and the Minimax spindle clamping system make tool changeover on the spindle moulder quick and easy. The interchangeable spindle enables greater flexibility in tool changeover.



Removable support and electrical fittings for a feeder unit



Tenoning unit consisting of a tenoning table, guard for tools with diameter up to 275 mm and an extractor hood (diameter 120 mm)



Smart cast iron mortiser with 16mm chuck, table dimension 430x220



Elite cast iron mortiser with 16mm chuck, table dimension 490x270



Mortiser trolley to facilitate assembly and disassembly of the machine.



Technical specifications

CU300 smart

CU350 smart

Surface unit			
working width of surface tables	mm	300	350
total length of surface tables	mm	1510	1900
tiltable surface fence	degrees	90-45	90-45
no. of knives	n°	3	3
spindle speed	r.p.m.	5200	5300
Thicknessing unit	•		
saw-spindle moulder table dimensions	mm	585x300	775x363
feeding speed on thicknesser	m/min	7	7
min./max. working height on thicknesser	mm	3/230	3/230
Circular saw			
saw-spindle moulder table dimensions	mm	430x1112	430x1112
saw blade tilting	degrees	90-45	90-45
max. saw blade diameter with installed scoring unit	mm	315	315
max. saw blade projection at 90° from table with blade diameter 315	mm	mm	103
max. saw blade projection at 45° from table with blade diameter 315	mm	mm	80
cutting width at rip fence	mm	820/900	1050
rotating speed	r.p.m.	4000	4000
Spindle moulder			
max. spindle working height	mm	125	125
tiltable spindle moulder 95-45 degree			•
spindle moulder speed (50 Hz)	r.p.m.	1400/3500/6000/8000	1400/3500/6000/8000
max. tool diameter lowered under table	mm	210	210
max. tool diameter when tenoning	mm	275	275
Wagon strokes			
1600 mm stroke to saw blade		0	0
2250 mm stroke to saw blade (2450mm not CE)		•	•
2600 mm stroke to saw blade		•	•
2800 mm stroke to saw blade		•	•
Motors			
3 motors hp 4 kw 3 Hz 50 three-phase		0	0
3 motors hp 5,5 kw 4 Hz 50 three-phase		•	•
3 motors hp 2,5 kw 1,5 Hz 50 single-phase			•
net weight	kg	570/615	700
spindle moulder shaft available with following diam.:	-		
30 - 35 - 40 - 50 mm, 3/4" - 1" - 1 1/4"		0	0

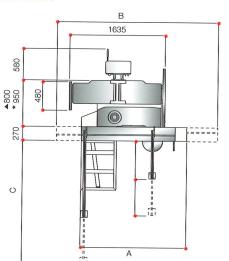
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O standard

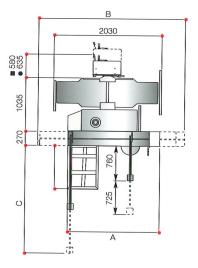
option

Overall dimensions

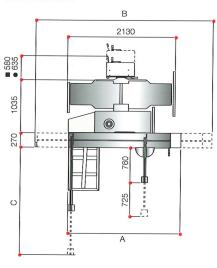
CU300 smart



CU350 smart



CU410 smart

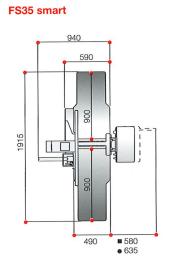


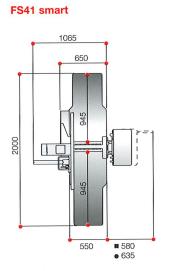
CU410 smart	FS30 smart	FS35 smart	FS41 smart	ST3 smart
	000	050	410	
410	300	350 1900	2000	-
2000	1510	90-45	90-45	
90-45	90-45	3	3	-
3	3		5300	
5300	5200	5300	3300	
775 400	F0F000	775x363	775x423	_
775x423	585x300 7	7 / 14	7 / 14	_
7		3/230	3/230	_
3/230	3/230	3/230	3/230	
430x1112	430x1112	_	-	430x1112
90-45	90-45		-	90-45
315	315	-	_	315
103	103	-	-	- 103
80	80	-	-	- 80
1050	-	-	_	900 (1270)
4000		-	-	-
4000	-			
125		_	-	125
•	_	-	-	•
1400/3500/6000/8000	_	-	-	1400-3500-6000-8000
210	-	-	-	210
275	_	-	-	275
210				
0	_	-	-	0
•	_	-1	-	•
•	_	-	-	•
•	-	-	-	
0	0	0	0	0
•	•	•		•
•	•	•	•	• •
-				
750	300	390	450	430/480
100				
0	-	-	-	0
_				

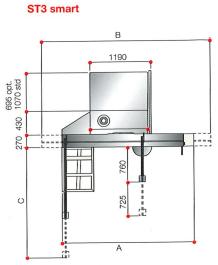
	Α	В	С		Smart cast iron mortiser
1600 mm	1935	3805	2260	•	Elite cast iron mortiser
2250 mm	2585	5210	2260	A	Fix spindle moulder
2600 mm	2935	5895	2910	*	Tiltable spindle moulder
2800 mm	3135	6200	2910		

1380

FS30 smart







Mini Max



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 CE norms.

The widest range of machines for the small woodworking workshop









Mini Max

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