

Combination Woodworking Machines

TechSoft Minimax Combination Machines

Space Saving Combination Machines with True Sliding Tables



One Machine – Sawing, Planing & Thicknessing

Our Minimax Combination machines can provide a cost and space saving way to fully equip a preparation area. Each machine comprises a circular saw bench and a planer-thicknesser arranged back-to-back in one integrated unit. The work table is shared by both functions so, despite their compact size, combination machines retain their full capacity for either sawing or planing. The saw and planer-thicknesser are each powered by separate motors so swapping between operations is very straightforward. Needless to say, only one function at a time can be used. Mechanical and electrical control systems are built into these machines to ensure that only the function being used is 'live' and remaining systems are in a safe state.

Combination Machines in Schools and Colleges

For less than the cost of two separate machines, schools can have the precise sawing and planing capability they need for all basic stock preparation. In terms of space saving, it is best to think of combination machines as offering alternatives rather than substitutes. Separate machines need a safe working area that allows for in-feed and out-feed at each end of the machine and enough space at the side for the operator. They also need sufficient space between them to make sure one machine is not hindered by the other. Combination machines have a smaller 'footprint' but need space on all four sides. This means they need central placement in a preparation area. Where this is possible, you have the added bonus of more space to position larger boards and the ability to cross-cut longer stock on the saw table. In this situation, a combination machine will always be a space saving and convenient option.

Full Machining Capability

Despite their compact size, our Minimax combination machines do not compromise on quality or performance. The main saw table features a rise and fall tilting arbor for angled cuts with convenient handwheel adjustment and locking. A welded steel main chassis and ribbed cast iron work tables ensure accuracy and vibration free operation. Deep, positive locking fences for cross cutting and ripping feature hold-down clamps and stops for repeat working. A precision engineered sliding table runs close to the blade for accurate ripping. The smaller C30E machine includes a squaring frame to allow repeat sawing of panel components to accurate dimensions including angles and bevel cuts. The planer features a three-knife Tersa © cutter block for clean surfaces and easy blade changing. The efficient feed system allows rapid stock removal up to the maximum table width. Planing datum faces is easy to achieve - the robust saw fence provides the necessary datum and an easily adjusted bridge guard will ensure safe operation. For convenience, the main surfacing table opens toward the operator for thicknessing.

When sold commercially these machines also have a spindle moulder and optional extra slot morticer. However, current regulations (BS4163:2014, paragraph 13.3, page 64) mean that school and colleges are unable to exploit these.



TechSoft and SCM – Global Quality, Local Support

To give schools and colleges the quality of machine they need at an affordable price, TechSoft are delighted to have entered into a partnership with Italian company SCM for our full range of woodworking machinery. SCM have been established for over 50 years and are now global leaders in the design, manufacture and supply of production machinery for all sectors of the furniture and construction industry. Products range from huge CNC controlled machines for mass production, to the Minimax range of traditional machines for workshops, schools and colleges. All machines are built to the highest standards at SCM's state-of-the-art plant in Rimini, and all undergo rigorous quality procedures to ensure years of reliable service. In the UK, SCM's large and well established facility in Nottingham provides the assurance of speedy and dedicated service and support should it be needed.

**Generously proportioned,
robust rip fence with
positive locking and
adjustment.**



**Bearing-guided
sliding table with
built-in length stop
and material clamp
for accurate cross-
cutting.**

Surface Planing



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TechSoft Minimax C30E Genius



The C30E is likely to provide sufficient capacity and cutting speed for most schools. Although too small to break down full 1200 x 2400mm sheets into quarters, the included squaring frame will make it easy to prepare accurate batches of large panel components. Cutting depth and width against the rip fence will almost certainly exceed the capacity needed for most student projects. The C30E shares the same planing width as the CU300E model.

Specification	
Saw:	
Saw Blade Diameter:	250mm
Cutting depth at 90°:	80mm
Max. squaring stroke:	1200mm
Cutting width on rip fence:	540mm
Speed:	4000rpm
Planer Thicknesser:	
Max Surfacing Width:	300mm
Surfacing Table Length:	1200mm
Min/Max Thicknessing:	3/200mm
Cutter Block:	TERSA with 3 knives
Feed Speed on Thicknesser:	6m/min
Overall:	
Motor:	2 x 1.8kW (2.5hp)
Weight:	320kg
Dimensions:	2084(W) x 2460(D) x 1250(H)mm
Power Requirements:	415V 3.6kW or 240V 3.6W Lockable rotary isolator
Warranty:	UK Mainland: 1 Year On-Site Elsewhere: 1 Year Return and Collect

Prices £*		*See Pricing Information on page 2	
MM-COMB1KFT	TechSoft Minimax C30E Genius Combination Machine 3 phase (includes Key Switch + 3 Emergency Footstops)		
MM-COMB1KFS	TechSoft Minimax C30E Genius Combination Machine 1 phase (includes Key Switch + 3 Emergency Footstops)		
Essential Extras			
Extraction is essential when using a combination machine. We offer a range of extractors to suit all budgets/requirements.			
Centralised Vac Extraction System, see page 186.			
CUSTOM-CVAC	Centralised Vac Extraction System.		
Fixed Local Extraction System, see page 187.			
MM-EXTRACT100P	TS100 Extractor with attachment fittings for Combination Machine (manual switch). Please specify whether 1 phase or 3 phase is required.)		
MM-SWITCH10	Auto-switched upgrade for fixed extractor (fitted to machine at time of purchase)		
Mobile Extraction System, see page 189.			
MM-EXTRACTION70P2	Minimax Dust Extractor with Attachment Fittings for Combination Machine (manual switch). Please specify whether 1 phase or 3 phase is required.)		
MM-SWITCH7	Integrated auto-switched socket for Minimax Dust Extractor (fitted to machine at time of purchase)		

TechSoft Minimax CU300E Classic



The same functionality as the C30E Genius but with greater machining capacity and longer tables for accurate preparation of larger stock. 820mm capacity against the rip fence means full size boards can be cut to any width. The squaring frame is therefore less important but one can be ordered as an optional item. Where there is high demand for prepared materials and thicker section tougher timbers are likely, then the CU300E will be an ideal choice.

Specification	
Saw:	
Saw Blade Diameter:	315mm
Cutting depth at 90°:	100mm
Max. squaring stroke:	1600mm
Cutting width on rip fence:	820mm
Speed:	4000rpm
Planer Thicknesser:	
Max Surfacing Width:	300mm
Surfacing Table Length:	1510mm
Min/Max Thicknessing:	3/200mm
Cutter Block:	TERSA with 3 knives
Feed Speed on Thicknesser:	7m/min
Overall:	
Motor:	2 x 2.2kW (3hp)
Weight:	420kg
Dimensions:	4002(W) x 3793(D) x 1250(H)mm
Power Requirements:	415V 4.4kW or 240V 4.4kW Lockable rotary isolator
Warranty:	UK Mainland: 1 Year On-Site Elsewhere: 1 Year Return and Collect

Prices £*		*See Pricing Information on page 2	
MM-COMB3KFT	TechSoft Minimax CU300E Classic Combination Machine 3 phase (includes Key Switch + 3 Emergency Footstops)		
MM-COMB3KFS	TechSoft Minimax CU300E Classic Combination Machine 1 phase (includes Key Switch + 3 Emergency Footstops)		
Essential Extras			
Extraction is essential when using a combination machine. We offer a range of extractors to suit all budgets/requirements.			
Centralised Vac Extraction System, see page 186.			
CUSTOM-CVAC	Centralised Vac Extraction System.		
Fixed Local Extraction System, see page 187.			
MM-EXTRACT100P	TS100 Extractor with attachment fittings for Combination Machine (manual switch). Please specify whether 1 phase or 3 phase is required.)		
MM-SWITCH10	Auto-switched upgrade for fixed extractor (fitted to machine at time of purchase)		
Mobile Extraction System, see page 189.			
MM-EXTRACTION70P2	Minimax Dust Extractor with Attachment Fittings for Combination Machine (manual switch). Please specify whether 1 phase or 3 phase is required.)		
MM-SWITCH7	Integrated auto-switched socket for Minimax Dust Extractor (fitted to machine at time of purchase)		