



MERLIN

Premium 2 year warranty included

Designed in the UK 



CNC ROUTER SYSTEM

Premium 2 year warranty included

MERLIN CNC

Machine Overview



Common Materials:

WOOD
SOFT METALS
ACRYLIC
HDPE
POLYCARBONATE
SOLID SURFACE MATERIAL
ACM SIGN PANELS
FOAMEX
FOAM SHEET

& Much More...

Our Merlin range is used in many different sectors and industries such as **aerospace, woodworking, automotive, marine engineering, education and so many more!**

This manual tool change machine is fast and affordable, some may say best in class.

With unrivalled speed and precision the Merlin range will make light work of a huge range of materials such as wood, metal, plastics, solid surface, composite materials and so much more. Combined with the powerful vacuum & rapid hybrid drive systems this machine offers high performance capabilities yet its also more affordable than most of the competition. At the heart of the system we run a **6.0kW air cooled spindle** with our in-house developed **M-Tech Motion Control System and touch screen controls & wireless pendant.**

The Merlin is also extremely customisable with upgrade options such as oscillating knife, drill bank and extended gantry heights (please note these are special factory orders and not stock machines).

Our Merlin CNC systems can also be converted to ATC models at a later date, giving you the full freedom to make the right choice for your business today. Truly industry leading!

Coupled with our renowned after sales service, this CNC router system should be at the

Aerospace | Automotive | Sign Making | Fabrication | Prototyping

“Fast, affordable and extremely reliable. Built with the same attention To detail as our Auto Tool Change (ATC) Routers, the Merlin is a CNC Powerhouse”.

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MERLIN CNC ROUTERS

Standard Features & Equipment

High performance spindles	6.0KW (8hp) ER32 air cooled spindle system - Manual tool change.
Vacuum System	Multi-zone, touch screen activation - including pump system and filter.
Drive Motors	Rapid hybrid drive system - Exceptional performance with lower power consumption
Mechanical Drive type	Helical rack and pinion X & Y axis, with reciprocating ball screw on the Z axis.
Linear Guid Rails/Carriers	HIWIN oil inject centralised linear rail lubrication.
Dust Extraction System	NEW enhanced , 'Focused' dust extraction system included.
Material Positioning Stops/Guides	Pneumatic pop-up end stops for material location system.
Tool Cooling	Integrated pneumatic cutter cooling/lubrication system.
Unrivalled Control System	In-house developed M-TECH motion control that includes a Touch based PC based system, wireless pendant and podium.
Safety Features	Modular safety fences with optical IR guarding
Software	M-TECH Control & Vectric V Carve Pro (Optional AlphaCAM
Delivery	UK mainland included (Offloading and siting of the machine is the end user's responsibility; additional cost option if required). HIAB delivery also available, ask for details.
Installation	Our professional installation team will fully commission your new machine - customer must have the correct electrical/air outputs available (we will advise you on what is required).
Training	Full operational training included, combined with basic software use.
Warranty	2 years standard parts and labour warranty with extended warranty periods available.

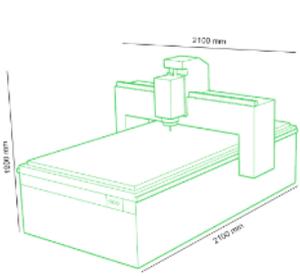
M-Tech Motion Control Features

Touch Screen Operation	Control your CNC router via touch operation (including traditional methods such as mouse and keyboard).
Microsoft Windows Based Operating System	Familiar operating environment - easy to use.
Network Capable	Connect the machine to your network - easy transfer files from your design department to the CNC.
Run Third Party Software	As this is a windows based machine, run other software such as V-carve or Alphacam, directly at the machine.
Touch Based Vacuum Operation	Control your vacuum zones via touch - vacuum can also be automatically operated when the machine starts and stops (energy saving and convenient)
Wireless Pendant	Control your machine with your wireless pendant for ultimate granular controls. Including custom macro functions assigned to your pendant.
Pneumatic Material Location Stops Control	Automatic operation of location stops
Work-piece Simulation Mode	Get a 3D view of your project and simulate processing just before cutting. Saving on waste materials.
Project Duration	Easily see how long the cutting process will take with accurate time measurements.
Advanced Algorithms	The system constantly reads g-code multiple steps ahead of the actual movement, analysing and adjusting pre the event. Extremely efficient operation.
Enhanced Spindle Control (ATC Models Only)	As our motion control system uses an analogue rather than digital signal, you can get granular control over your spindle speed, right down to 1rpm increments.
Enhanced Tool Change Control (ATC Models Only)	Direct control over tool changes including speed, distance and clearance.
Accurate tool measurement	Extremely accurate tool length measurement, taking tool wear into consideration.
G-Code Edit	Enables the user to make alterations to the g-code. Including a jump to line function.
Built-in support for up-to 6 axis	M-tech allows for support for up-to 6 axis, included within the software. Allowing for upgrades such as a rotary axis tool or aggregate head function.

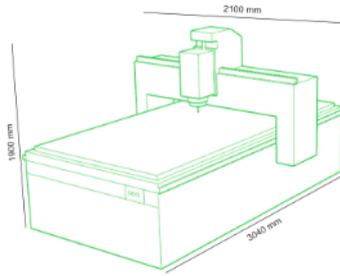
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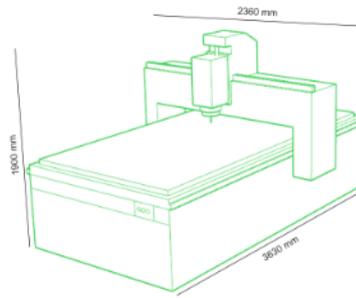
Machine size options



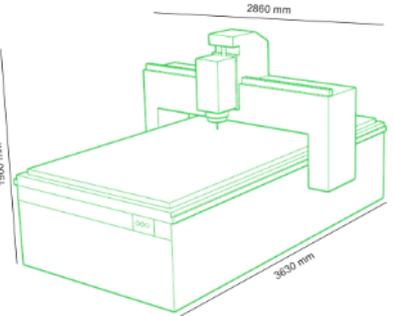
Merlin 1313
1300 x 1300 mm bed



Merlin 1325
1300 x 2500 mm bed



Merlin 1530
1500 x 3000 mm bed

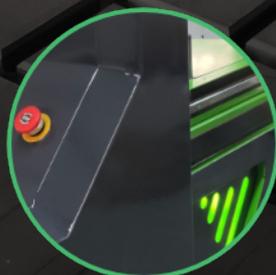
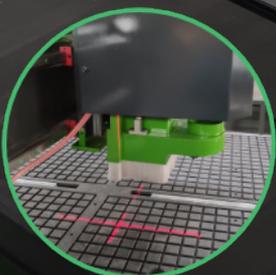


Merlin 2030
2000 x 3000 mm bed

Range weights & dimensions

Model	Length (mm)	Height (mm)	Width (mm)	Weight (Approx) (kg)
Merlin 1313	2100	1900	2100	1350
Merlin 1325	3040	1900	2100	1400
Merlin 1530	3630	1900	2420	1750
Merlin 2030	3630	1900	2860	1900

**Custom bed sizes are available,
Please ask for details.**



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Samples

