

MULTICAM

COMPUTER NUMERIC CONTROLLED ROUTERS



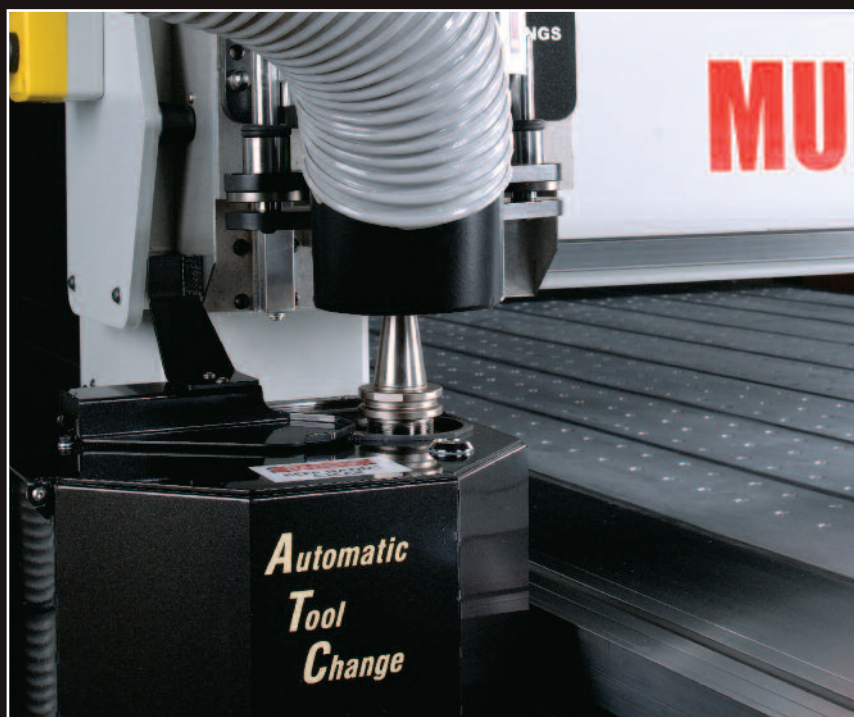
MULTICAM
SYSTEMS PTY LTD

CNC ROUTING MACHINES • TOOLING • SOFTWARE • SALES • SERVICE

CNC CONTROLLER

Our Multicam A2MC Controller is a totally new concept in CNC machine control. It delivers much smoother and faster motion based on S-CURVE trajectories the highest level of machine control capabilities available on the market today. Unlike PC based controllers which run the motion right from the PC the A2MC on the Multicam uses a motion card dedicated to the machine motion. Whereas PC based controllers only integrate the motion at 40 to 60 KHz (40,000 to 60,000 integrations per second) the A2MC runs both 2D and 3D motion at 4.125 million integrations per second which is the fastest controller of any kind. This provides exceptionally smooth and continuous motion.

The A2MC incorporates a "machine area network" based on industry standard modbus protocol. This network allows for the connectivity of a limitless variety of tools, peripherals, and devices making the A2MC unmatched in flexibility and versatility.



Features include: Gigabit Ethernet connection to a host LAN system, Wireless networking. (WiFi), Limitless file data storage, Remote accessibility activity log via Internet, Remote machine administration via Internet, Axis drive load sensing, Automatic Tool Calibration and "plug & play" connectivity of peripheral devices.

The Multicam Router runs G-Code and is fully compatible with all major CAD/CAM software packages including AlphaCam, ArtCam, BobCam, Cabinet Vision, Camworks, Enroute, MasterCam, Microvellum, StairBiz, SolidCam, and any other program that has CAD/CAM capabilities. There are NO machine memory restrictions or download time as the nc files are selected by the machine operator.

HEAVY DUTY CNC MACHINERY

The fully Australian manufactured SR Series of Multicam CNC Routers are manufactured for heavy duty production. The steel gantry is manufactured from 250 x 150 x 5mm RHS. The steel column supports are welded to the gantry beam making it and the column supports, one rigid construction. The X axis bearings are mounted to the gantry with the Linear rails secured horizontally on our specially designed section. This section is milled prior to the bearing rails being fitted. The robust steel gantry is designed to carry heavier spindles and for cutting through thicker material at higher feedrates. The machine incorporates precision machined rack and pinion drives on the X and Y axis with a fully controllable 200mm ball screw on the Z axis as standard. The machine frame is manufactured from 150 x 150 x 5mm Steel RHS while the Z axis spindle mount is machined from 16mm plate.

Multicam CNC routing machines are used by manufacturers in various industries including Aluminium Boats, Aerospace Components, Bull Bars, Truck Body Parts, Kitchens, Timber Doors, Plastic Engineered components and Point-of-Sale displays to mention a few.

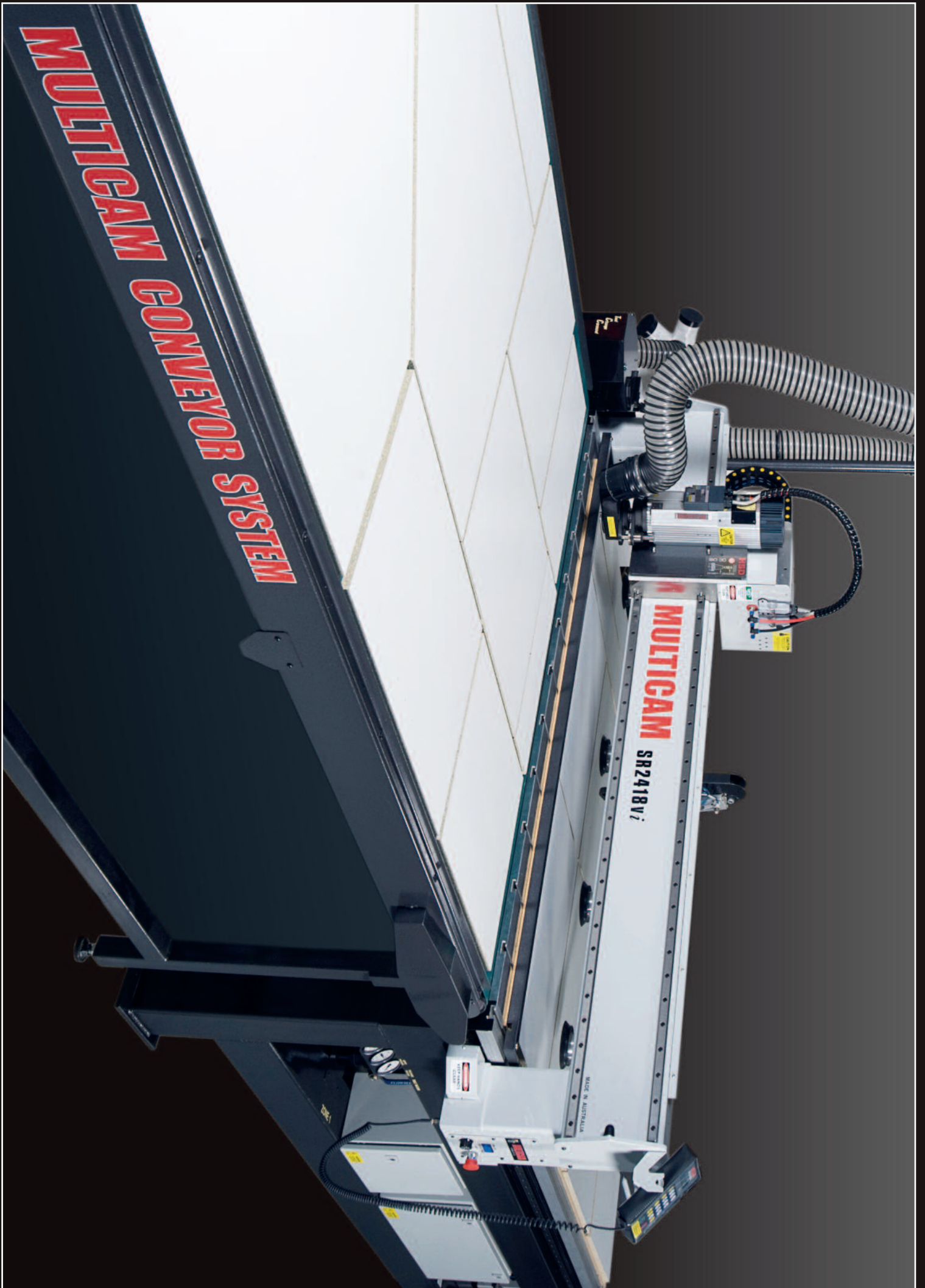
AUTOMATIC TOOL CHANGE

All Multicam SR Routing Machines are available with our unique "State of the Art" fully enclosed automatic Tool Change Carousel which replaces the older fixed position static Linear Tool Changers. These new enclosed tool changers, provide rapid tool changes at any position along the X-axis, no need to travel to the back or front of the machine to change tools, and no exposed tooling on the table top. When the workpiece requires multiple tools for complex profiles, routing and boring, the tool change will perform all tasks without operator intervention.

**Multicam CNC Routing Systems
proud to be members of:**

AWISA

AMTIL
AUSTRALIAN MANUFACTURING
TECHNOLOGY INSTITUTE LIMITED

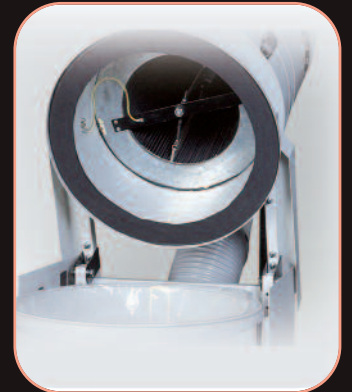


THE FUTURE IN DUST AND CHIP EXTRACTION

INVEST IN A SAFER WORKPLACE

Very fine sawdust or materials that produce highly toxic abrasive matter are a problem in the working environment. The new MULTICAM Canister Dust & Chip Extraction range is the latest technology in efficient dust & chip collection and takes air filtration to the next level.

If health and safety are a priority for your business, the Multicam Canister Dust & Chip Extractors are the perfect choice.



Opening the filter housing for dust bag removal



See through glass for checking dust level

- New Design has pleated filter and plastic dust bag contained in sealed metal canisters. This reduces toxic, hazardous dust in the air.
- Pleated filter with large filter area increases filter density to 0.03microns. A standard bag system has a filter density of approximately 30microns.
- Cleaning of the filter is made easy by simply turning the handle on the top of the canister. This rotates a set of cleaning brushes inside the filter.
- Vacuum gauge shows the air flow status.
- See through glass window for checking the level in the bag.
- Choice of powerful 3hp or 5hp models.

The Multicam Canister Dust & Chip Extractor takes dust collection to the next level of safety.

NESTED BASED MANUFACTURING



NESTED BASED PRODUCTION

Seldom are great leaps in productivity made for manufacturers of sheet products using Plywood, MDF and Particleboard. A notable exception is Nested-Based Manufacturing (NBM), a concept that offers the opportunity to increase productivity and material yield. Multicam Routing Systems is one of the pioneers of Nested Based Manufacturing in Australia, developing much of the currently used technology over the last 15 years. Nesting parts greatly simplifies the manufacturing process, because all machining operations are performed in one setup, the process eliminates the need to cut parts to size prior to machining. In Nested-Based Manufacturing, parts are grouped by material type and thickness, quantities are identified for each part to be machined according to production requirements. Once you enter the number of parts required, a full sheet is loaded onto the machine then all the optimised components are drilled, routed and cut from the sheet in one setup.

We manufacture our machines to suit material sizes, process areas of 2400mm x 1200mm, 2400mm x 1800mm, 3600mm x 1800mm are standard. The larger the process area, the more efficient your NBM operation will be. If a kitchen takes 65 square metres of material, using 2400 x 1200 sheets you will nest and cut 23 sheets; with 3600x1800 sheets you will nest and cut only 10 sheets. The sheet changing on the machine alone will saving approx 1hour per kitchen. At 3 kitchens per day that's over 3 hours a day, PLUS the savings from better yield that the larger sheet will give you.

The switch to Nested-Based Manufacturing will benefit multiple aspects of your production, from yield to lead times, freeing up employees and floor space, stop waste and eliminating current bottlenecks. NBM could revolutionise your operation.

CABINET MANUFACTURERS ACCESSORIES

POP UP PINS

Automatic Pop up pins enable you to quickly position material on the machine bed. Once processing has commenced they automatically retract providing a totally clear bed surface and eliminate the need for fixed locators.

SURFACE TO DEPTH FEATURE

Our Unique Air Assisted Surface To Depth Head with Pneumatic counter - balance is used for accurate material surface to depth control when routing with profile tools or producing pencil round edges. The surface to depth system is essential to ensure a constant depth of cut into the material and compensates for any variations in the material thickness.

AUTOMATIC SHEET LOADING SYSTEM

Our Gantry suction System is designed to automatically pick sheet material from an indexing material lifter and place it on the machine bed ready for cutting. Ideal for high production environments or where OH&S issues arise due to manual handling of heavy sheets.

AUTOMATIC SHEET UNLOADING SYSTEM

Combine the product offloading arm and the auto conveyor off loading table with our Sheet loading system you have a full automatic material handling solution for your factory.

MULTI DRILL

Fully independent X/Y axis drilling head with industry standard 32mm centres. Holes are produced in a single Z movement of the head.

BARCODE SCANNER

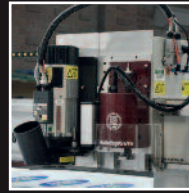
Our barcode scanner reads bar codes generated by leading cabinet programs. Once scanned the machine automatically selects the correct file and begins the cutting process.

MULTICAM MACHINE OPTIONS



Multicam Vision System (MVS)

The primary application of the MVS system is digital print finishing where the camera is used to quickly locate registration marks and adjust the machine cutting path to achieve exact alignment with the printed shapes. It includes non-linear/linear distortion, skew and rotation correction.



Multiple Head Systems

Multiple head systems, available in any configuration, allow for greater flexibility in processing a wide variety of materials in a single, uninterrupted operation. Print and Cut, Rout and Knife, Rout and Drill operations are just a few examples.



Multi Spindle "L shaped" Drill Head

Fully independent X/Y axis drilling head used primarily in the Kitchen and Cabinetmaking industries, a number of system 32 holes are able to be produced in a single Z movement of the head. Various number of configurations are available.



Pop Up Pins and Side Locators

Automatic pop up pins and side locators enable you to quickly position material on the machine bed. Once processing has commenced they automatically retract providing a totally clear bed surface and eliminate the need for fixed locators.



7 or 11 Straight Multi Drill Head

These straight style drill head attachments are available with centres of 25mm, 32mm and 50mm allowing you to choose the unit that matches your requirements. Ideally suited to applications where large numbers of holes are required.



Automatic Material Loader

Designed to automatically pick sheet material from an indexing material lifter and place it on the machine bed ready for cutting. Ideal for high production environments or where OH&S issues arise due to manual handling of heavy sheets.



Air Assisted Surface to Depth System

The surface to depth system is essential to ensure a constant cut depth into material. It compensates for variations in the material thickness. Used mainly when routing pencil round edges, OR V-Grooving Aluminium-Polymer composite material.



Conveyor Off Loading System

Combine the conveyor off loading table with the Automatic indexing table and material loader you have a full automatic material handling solution for your factory. Very popular in Nested Based Manufacturing situations.



Chisel Head

Ideal for door manufacturers or processes where a square corner is required. The chisel head is driven in to the material producing a square vertical corner. Typically the chisel head set up in with a second head and rotary tool change unit.



Mist Sprayers

When cutting ferrous and non ferrous materials cooling and lubricating of the cutter edge is critical. Our Mist Sprayer Units increase tool life and improve cut edge quality. Automatic operation during cutting ensures consistent results.



Tangential Knife and Creasing Wheel

The tangential knife can be fitted with attachments ranging from straight knife blades, angled knife blades to "pizza" wheels for cutting or creasing a variety of materials including foams, card boards and matting materials.



Cutting Tools

We stock a wide range of cutters for routing everything from MDF and plywood to exotic composites, laminates, plastics and non ferrous metals in all popular sizes. High performance, solid carbide cutters enable you to get the most from your Multicam.



Oscillating Tangential Knife

This oscillating style knife can be fitted with different blades for cutting a variety of materials including foams, card boards, composite panels and matting materials. The reciprocating blade makes the head ideal for cutting thicker materials.



3D Digitising

For applications where templates or odd shaped profiles need to be entered in to the machine the 3D Digitiser allows you to trace an object and create a routing file. Robust and fully portable, the digitiser is ideal for off site applications.

SPECIFICATIONS	MULTICAM S2412	MULTICAM S2418	MULTICAM S3618
MAXIMUM ROUTING LENGTH	2500mm	2500mm	3600mm
MAXIMUM ROUTING WIDTH	1300mm	1800mm	1800mm
TABLE HEIGHT	950mm	950mm	950mm
GANTRY CLEARANCE	150mm	150mm	150mm
OVERALL MACHINE LENGTH	3200mm	3200mm	4300mm
OVERALL MACHINE WIDTH	1900mm	2400mm	2400mm
DRIVE SYSTEM	X and Y Rack & Pinion, Z Ball screw		
REPEATABILITY	0.025	0.025	0.025
MEMORY TYPE	Flash Ram	Flash Ram	Flash Ram
POSITIONING SPEED	Up to 30,000 mm/min		
POWER REQUIREMENTS	32 amp 3 Phase with neutral		
WARRANTY	One year. Lifetime technical support.		
	Routing Lengths of up to 20,000mm and Routing Widths of up to 3000mm available.		

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OR VISIT OUR INTERNET WEB SITE
<http://www.multicam.com.au>



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Specifications may vary on different models and are subject to change without notice.