

FUSION CNC ROUTER 3S 25/13



DESIGN FEATURES

GANTRY - STYLE MACHINING CENTRE FOR PROCESSING SOLID WOOD, MDF/PARTICLE BOARD PANELS, PLASTICS, ALUMINIUM AND COMPOSITE MATERIALS.

HIGH PERFORMANCE (INDUSTRY PROVEN) PRECISION MAIN ROUTER SPINDLE WITH TWO ADDITIONAL DRILLING SPINDLES.

HEAVY-DUTY SOLID STEEL MACHINE FRAME CONSTRUCTION.

NESTED BASED MANUFACTURING (NBM) MACHINE.

RELIABLE AND COST EFFECTIVE MACHINING SOLUTION.

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MAIN SPINDLE

1 x High precision heavy-duty 4.5kw (6.0Hp) HQD router with internal cooling fan with ER32 collet.

DRILLING SPINDLES

2 x High precision heavy-duty 1.5kw (2.0Hp) HQD router with internal cooling fan with ER20 collet.

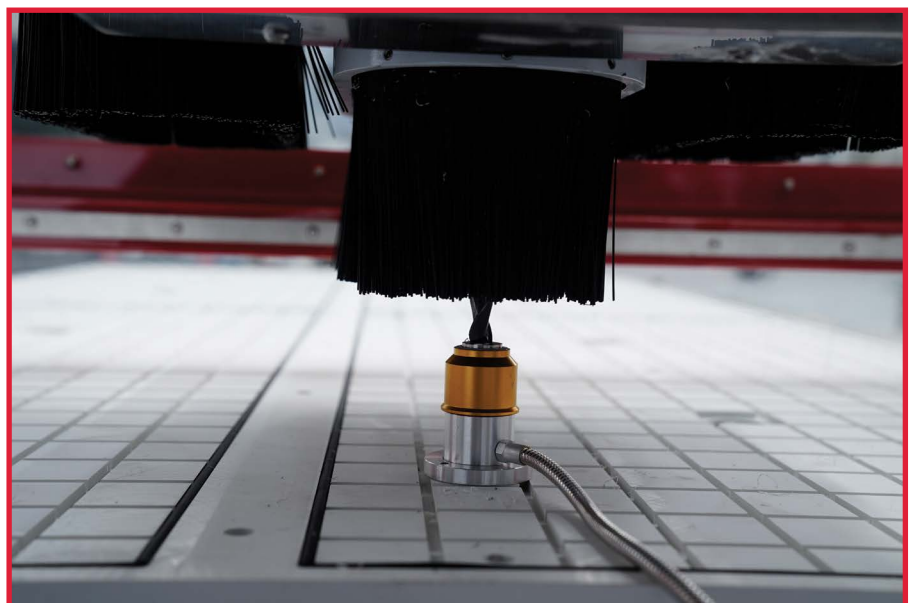


PC CONTROL

On-board PC with user friendly Windows 11 operating system. Network interface facility for file sharing. File format for the controller software configured in* .NC.

TOOL CALIBRATION PAD

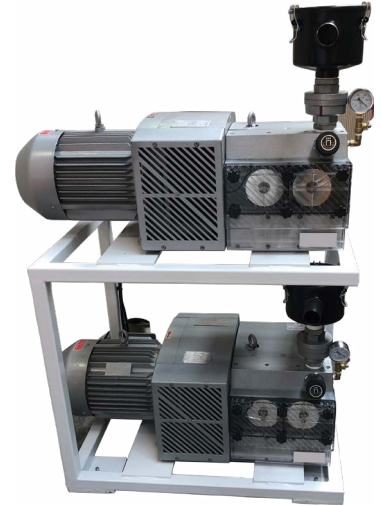
The integrated sensor pad allows the operator to quickly and accurately calibrate each tool. The tool length is then automatically stored in the tool offset file.





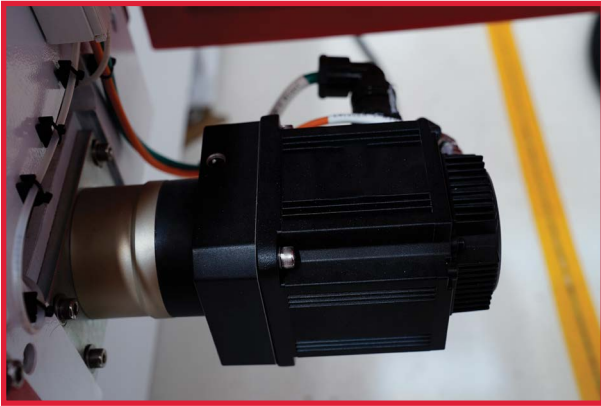
PHENOLIC TABLE TOP

There are 4 individually controlled vacuum zones, both vacuum pumps can be used on any one vacuum zone at a time for maximum suction.



VACUUM PUMP

Vacuum for the table top is provided by two quality 5.5kW (7.5Hp) rotary vane vacuum pumps. These two pumps displace 320 cubic metres per hour. Oil-free discharge gas is guaranteed, even in adverse operating conditions.

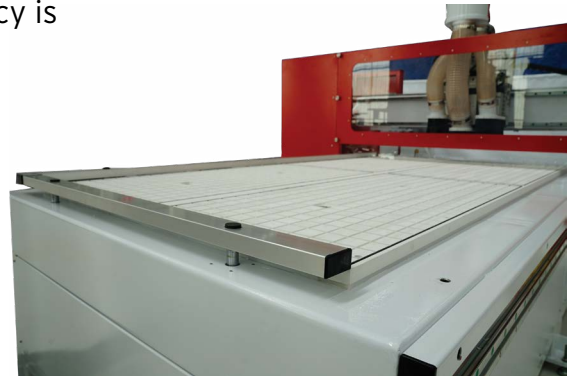


DRIVE GUIDE SYSTEM

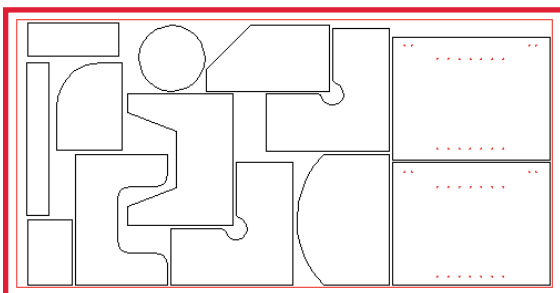
All axis are driven by ESTUN Servo motors with Planetary Gear boxes. Superior quality linear guides and bearings units are used on all three of the machine's axis. Precise movement along the X and Y axis is achieved via induction hardened oblique/helical rack and pinion drive systems. Z axis (vertical) movement accuracy is assured via a precision ground re-circulating ball screw.

LOCATOR STOPS

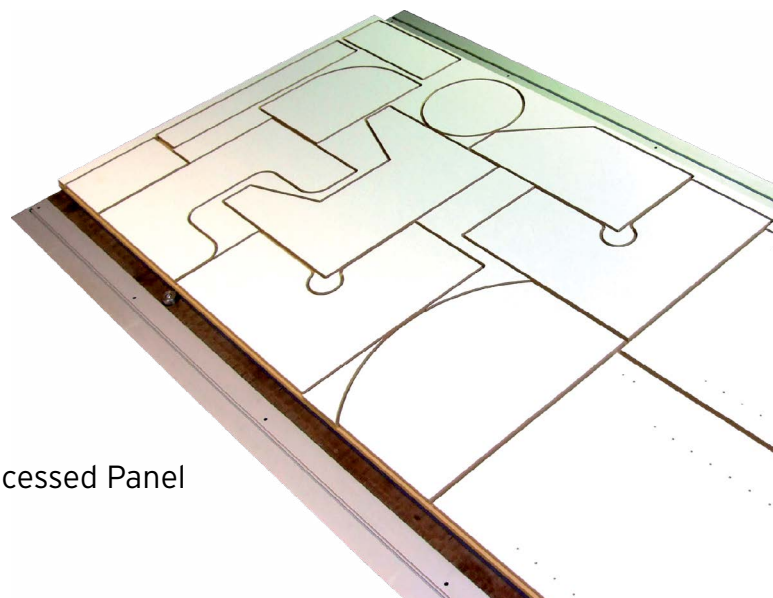
The table is fitted with two heavy duty pneumatically activated locator bars. Precise and effortless positioning of each work piece is assured.



COMPUTER CONTROLLED SHAPE NESTINGS



Software Generated NBM Drawing

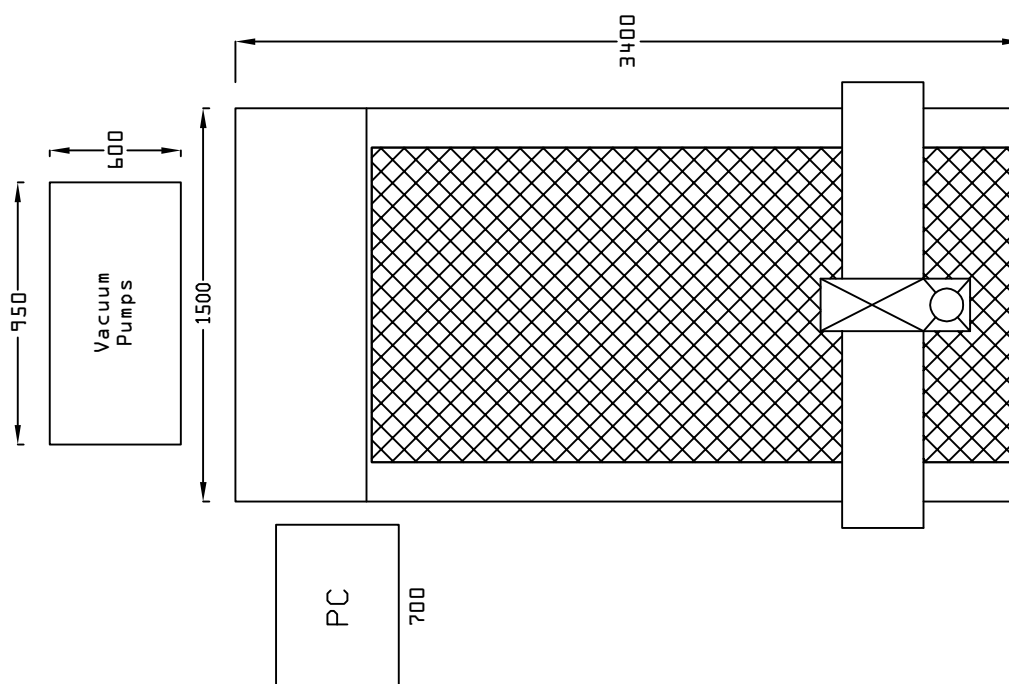


Processed Panel

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TECHNICAL SPECIFICATIONS

STROKE	X – Axis	1480 mm
	Y – Axis	2525 mm
	Z – Axis	250mm
TABLE SIZE		1220 X 2440 mm
MAX. FEED SPEED	X,Y – Axis	45m /min
	Z – Axis	5m /min
AT HEAD WITH	No. Of Spindles	3
	Tool Holder Shank Main	ER32, Air Cooled
	Tool Holder Shank Drill	ER20, Air Cooled
	Number Of Tools	3
	Speed	1000–18000 rpm
	TOOL SHANK DIA	For Router Bit
	For Drill Bits	12.7mm Max
MOTOR POWER	AT Head	4.5 kw (6.0hp)
	Drilling	1.5 kw (2hp)
	Vacuum Pump 320bm/hr	5.5 kw (7.5hp) x 2
NC CONTROLLER		NC Studio
DIMENSIONS	Floor Area	2.4m x 3.4m
	Height	1700 mm
	Weight	2300 kg
TOTAL CONNECTED LOAD		15 kw / 28amp



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