

# FUSION CNC ROUTER ATC 75/20



## DESIGN FEATURES

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

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HIGH PERFORMANCE (INDUSTRY PROVEN) PRECISION ROUTER SPINDLE.

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AUTOMATIC TOOL CHANGE.

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HEAVY-DUTY SOLID STEEL MACHINE FRAME CONSTRUCTION.

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NESTED BASED MANUFACTURING (NBM) MACHINE.

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RELIABLE AND COST EFFECTIVE MACHINING SOLUTION.

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## SPINDLE

High precision heavy-duty 9kW (12.0Hp) HSD router with internal cooling fan and ISO30 collet.

Manufactured in Italy, HSD routers are renowned worldwide for their superior quality and durability. The Automatic tool change feature combined with left or right spindle rotation make this a very versatile machine that is also suitable for counter tops.



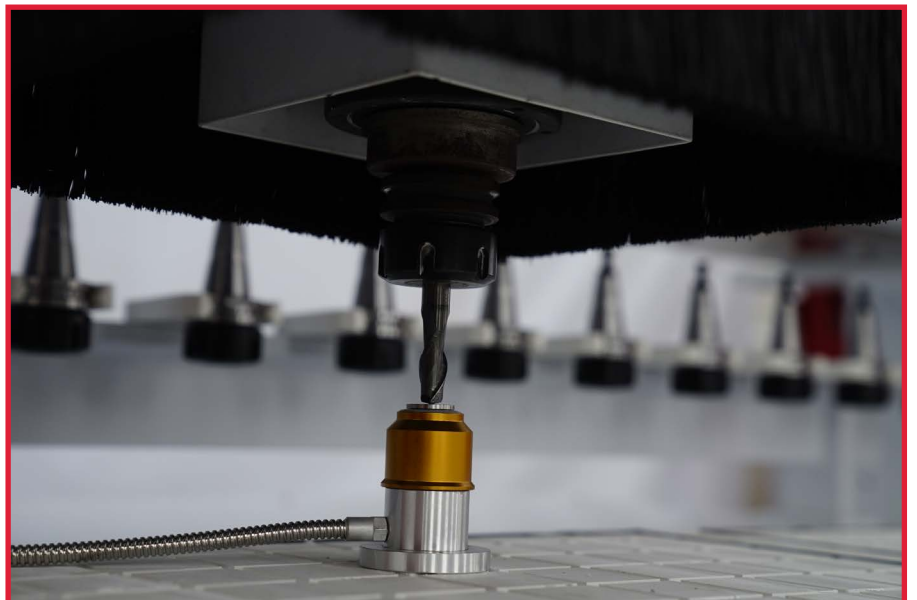
## PC CONTROL

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.

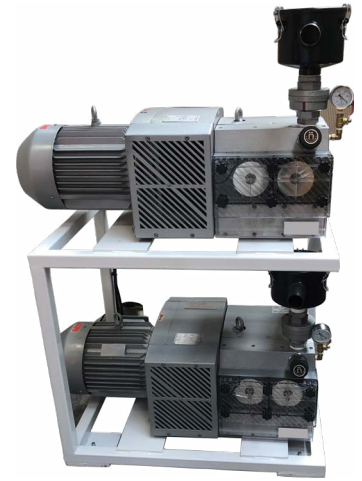
The tool length is then automatically stored in the tool offset file.





## PHENOLIC TABLE TOP

The machine comes standard with a flat table to enable screw fixing of the material to be cut or a portion can be a vacuum table allowing various vacuum options.  
eg: spoiboards and jigs.



## VACUUM PUMP

Vacuum for the table top can be provided by three quality 5.5kW (7.5Hp) rotary vane vacuum pumps. These three pumps displaces 480 cubic metres per hour.  
Oil-free discharge gas is guaranteed, even in adverse operating conditions.



## TOOL RACK

Rear mounted linear magazine with 16 tool capacity.  
Auto tool change via NC.

### Optional

12 Rotary ATC Tool Changer

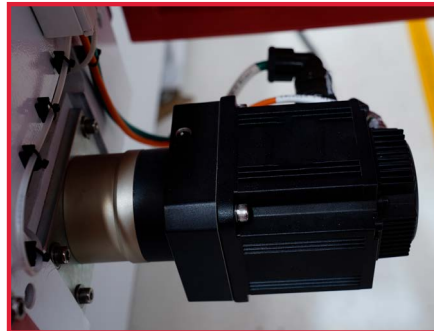


## DRIVE GUIDE SYSTEM

All axis are driven by ESTUN Servo motors with Planetary Gear boxes.

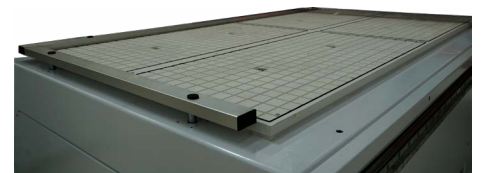
Superior quality linear guides and bearings units are used on all three of the machine's axis.

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.

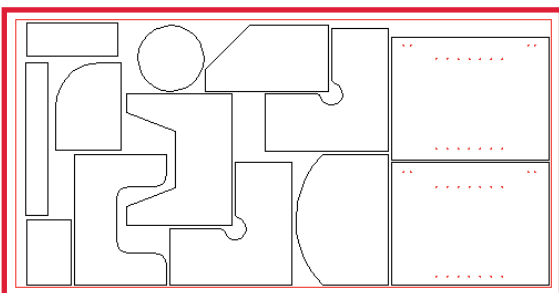


## LOCATOR STOPS

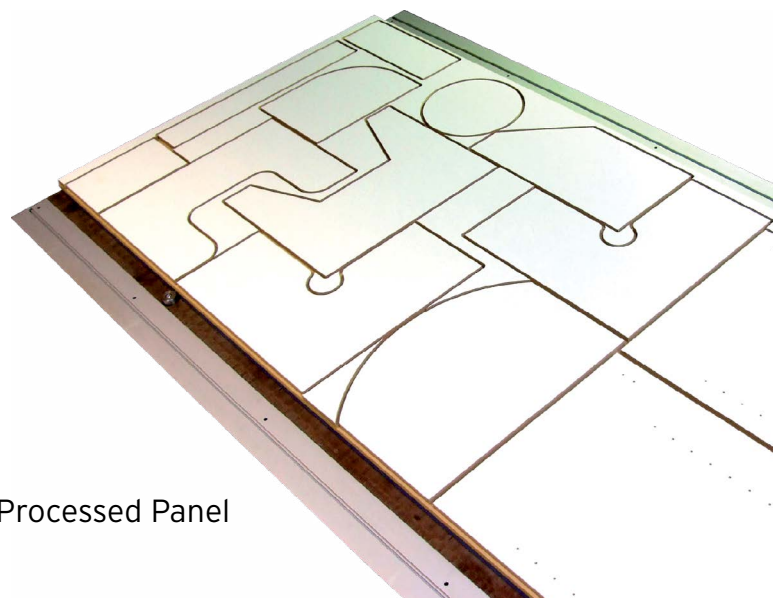
The table is fitted with two heavy duty pneumatically activated locator bars. Precise and effortless positioning of each work piece is assured.



## COMPUTER CONTROLLED SHAPE NESTING



Software Generated NBM Drawing

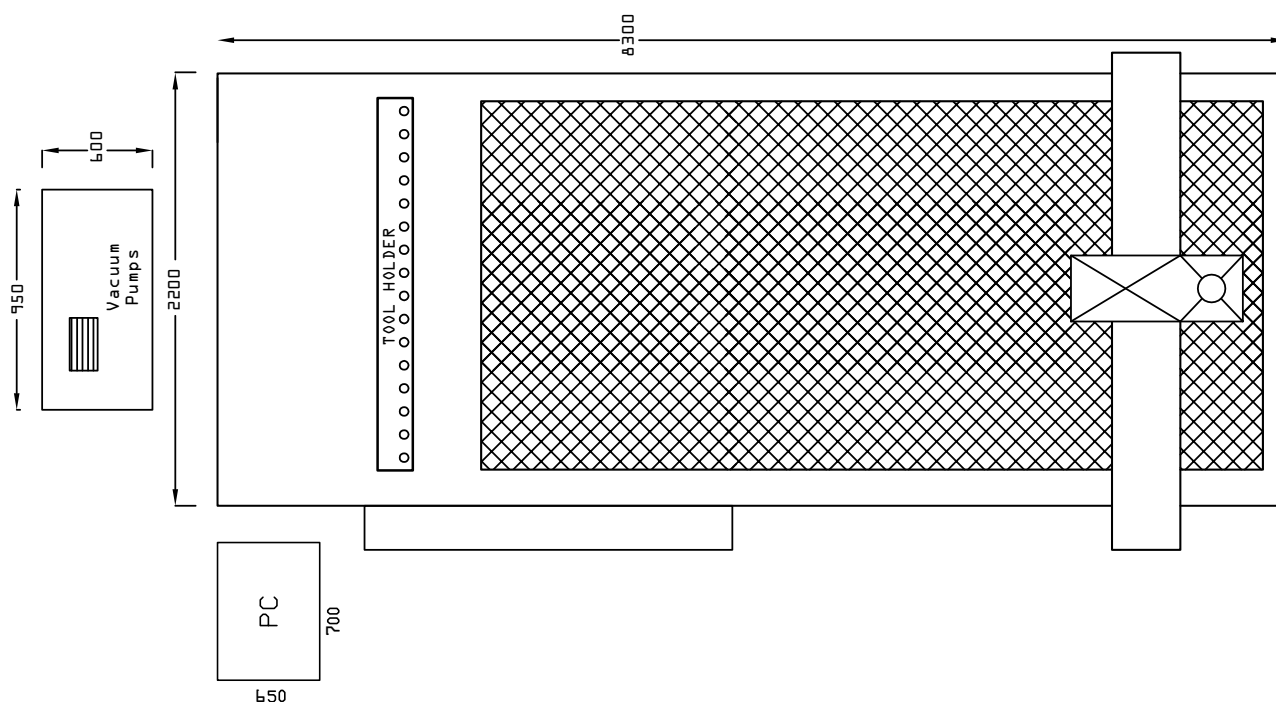


Processed Panel

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## TECHNICAL SPECIFICATIONS

<b>STROKE</b>	X – Axis	2000 mm
	Y – Axis	7500 mm
	Z – Axis	200mm
<b>TABLE SIZE</b>		7500X 2000 mm
<b>MAX. FEED SPEED</b>	X,Y – Axis	58m /min
	Z – Axis	5m /min
<b>AT HEAD WITH</b>	No. Of Spindles	1
	Tool Holder Shank Main	ISO30, Air Cooled
	Number Of Tools	16
	Speed	1000–24000 rpm
<b>TOOL SHANK DIA</b>	For Router Bit	25 mm Max
<b>MOTOR POWER</b>	ATC Head	9.0 kw (12.0hp)
	Vacuum Pump 480bm/hr	5.5 kw (7.5hp) x 3
<b>AIR PRESSURE</b>		6 bar (85psi)
<b>NC CONTROLLER</b>		NC Studio
<b>DIMENSIONS</b>	Floor Area	3.1m x 8.3m
	Height	1850 mm
	Weight	5800 kg
<b>TOTAL CONNECTED LOAD</b>		19.5 kw / 37amp



## FARNESE

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