



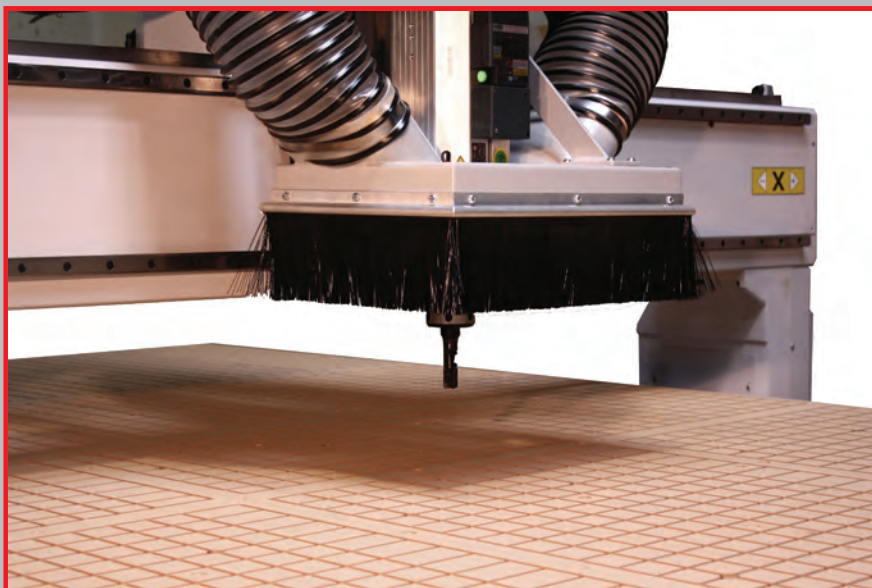
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CNC LTD

FUSION CNC ROUTER ATC 38/19



- Gantry - Style machining centre for processing solid wood, MDF/Particle board panels, plastics, aluminium and composite materials.
- High performance (industry proven) precision router spindle.
- Automatic tool change.
- Heavy-duty solid steel machine frame construction.
- Nested Based Manufacturing (NBM) machine.
- 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 10 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 9 individually controlled vacuum zones. The table surface has a gasket matrix configuration with T-Slots along the Y axis, allowing various vacuum options e.g. spoilboards and jigs.



VACUUM PUMP

Vacuum for the table top is provided by three quality 5.5kW (7.5Hp) rotary vane vacuum pumps. These three pumps displace 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.



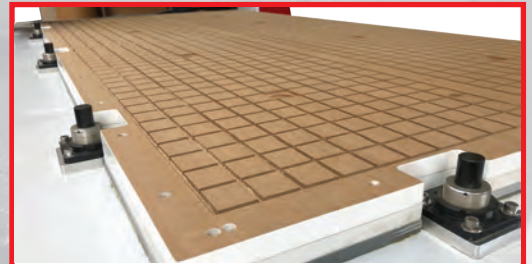
Optional 12 Rotary ATC Tool Changer



DRIVE GUIDE SYSTEM

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

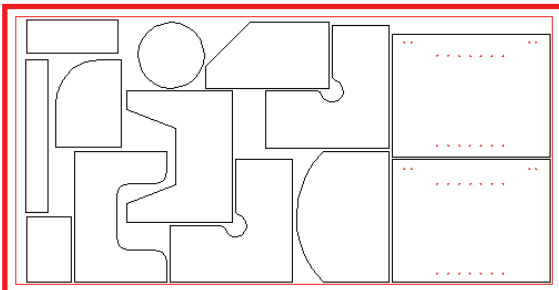
Superior quality linear guides and bearings units are used on all three of the machine's axis. Precise movement along the X and Y axis is achieved via induction hardened oblique/helical rack and pinion drive systems. Z axis (vertical) movement accuracy is assured via a precision ground re-circulating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



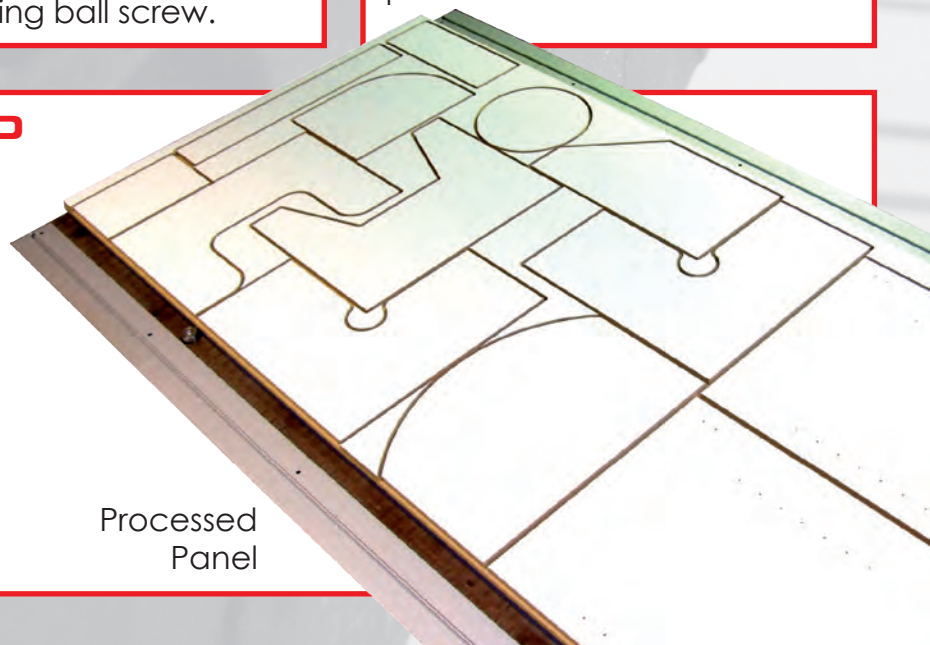
LOCATOR STOPS

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

COMPUTER CONTROLLED SHAPE NESTING



Software Generated NBM Drawing



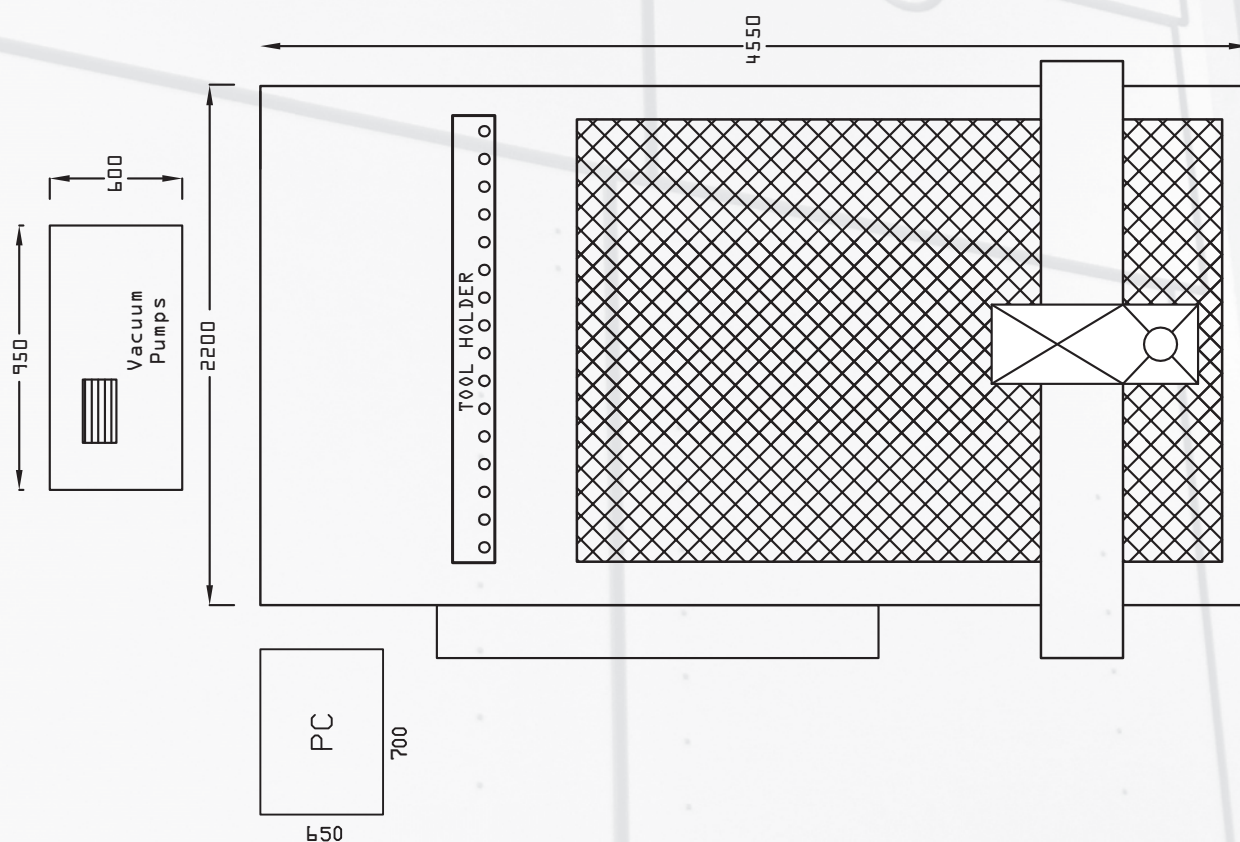
Processed Panel

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TECHNICAL SPECIFICATIONS

STROKE	
X - Axis	1900 mm
Y - Axis	3800 mm
Z - Axis	200 mm
TABLE SIZE	3666 X 1830 mm
MAX. FEED SPEED	
X,Y - Axis	25m /min
Z - Axis	5m /min
SPINDLE HEAD	
No. Of Spindles	1
Tool Holder Shank	ISO30, Air Cooled
Number Of Tools	16
Speed	1000-24000 rpm

TOOL SHANK DIA	
For Router Bit	25 mm Max
MOTOR POWER	
ATC Head	9.0 kw (12.0hp)
Vacuum Pump 480bm/hr	5.5 kw (7.5hp) x3
AIR PRESSURE	
	6 bar (85psi)
NC CONTROLLER	
	NC Studio
DIMENSIONS	
Floor Area	2200 X 4550 mm
Height	1850 mm
Weight	3200 kg
TOTAL CONNECTED LOAD	
	19.5 kw / 37amp



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