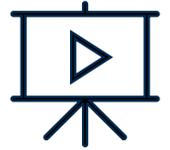


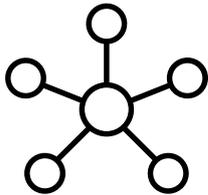
Wood Tech CNC Nesting Machine with labeling



A HIGH INDUSTRIAL LEVEL OF CNC NESTING MACHINE TAILORED FOR SMALL BATCHES OF ORDERS. FULLY AUTOMATIC NESTING PRODUCTION INCLUDING AUTO-LOADING WITH LABELING, NESTING CNC, AUTO-UNLOADING.



SEE IN ACTION
HERE



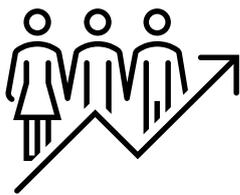
EASY APPLICATION
WITH OTHER BRANDS



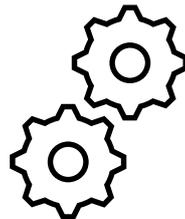
HIGH QUALITY FOR
LOWER COST



EASILY REDUCE MATERIAL
CONSUMPTION



SAVE ON LABOR FORCE
WITHOUT COMPROMISING



SAW, DRILLING &
ROUTING ALL IN ONE



3 YEARS OF
WARRANTY

TECHNICAL HIGHLIGHTS

High industrial level of CNC nesting machine model NCG3021LE-LL. The capacity of the machine is 50 - 80 boards per shift, depending on whether double milling is used to avoid tension inaccuracies in chipboards (3.100 x 2.100 mm)

The CNC Nesting machine can perform drilling, milling and cutting of required formats in a high level of precision even considering tensions in the raw material boards. The CNC is especially good for you working in small batches of orders.

The machine is in compliance with the applicable CE directives.

DESCRIPTION OF DELIVERY

AUTOMATIC LOADING



Hydraulic lift table

- Lift table with safety curtain on all 4 sides, stop falling when someone's hand is there
 - Single scissor
- 3 tons load capacity;
- Min height: 390mm;
 - Max height: 1650mm;
 - Stack height: 560mm (machine height 950mm)



Pre-pushing

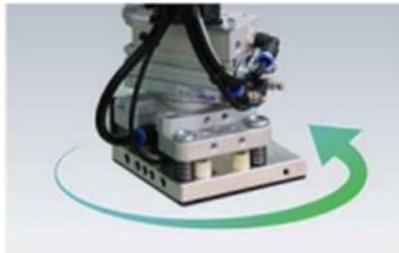
A pushing device to pre-push the panel to front position, save loading time.

INFEED BY 4 SUCTION CUPS



Four suction cups installed on machine gantry to pull panel in position. Extended roller brackets, friendly for different size table.

ROTABLE LABELING



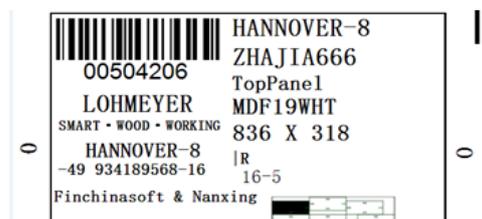
Movement of X and Y axis by rack and pinion makes labeling accurate. Label printer moves with rotatable labeling bar, and printer is Honeywell brand, stable and fast.

Perfect time arrangement: auto labeling and nesting processing work simultaneously saves waiting time;

Tip

Additional furniture making software is necessary for labeling function, but not included in standard machine

LABEL



The necessary work piece information including panel size, barcode, QR code, customer name, order info, edge banding info can be shown as request.

REAR POSITIONING CYLINDERS AND DUST COLLECTOR



Friendly for flip over processing

DESCRIPTION OF DELIVERY

AUTOMATIC LINE TOOL CHANGER WITH 12 SLOTS



The automatic line tool change magazine with 12-slots suitable for complicated process requirements, no need to change tool manually offers maximum operation convenience, and shorter distance between main spindle and tool position, changing tool us faster.
Type ISO30 ER32

Tip:

Standard with two tool holders.

UNLOADING PUSHER&SWEEPER



Unloading pusher with dust collection to sweep the scraps left on the working table while unloading boards, which offers most convenience for following processing work.

12KW MAIN SPINDLE + 10 DRILLS DRILLING BLOCK



10 drills drilling block,
Rotating speed: 4000rpm/min



Big Cover

Processing unit is fully covered by dust cover of good appearance for better working condition. With LED light strip, machine status is available at a glance.

Main Spindle

12kw air cooling spindle: powerful, max rotating speed up to 24000rpm/min, can work with 50mm thick panel. Coupler type ISO30 making contact between tool holder and clamp closely, fix tightly, fast for ATC. With air jet around the main spindle for better dust collecting performance.

AUTO UNLOADING



Unloading table also equipped with dust extraction reduces dust and chips further while unloading work pieces for better working condition. Table's 4 sides are covered

TECHNICAL DETAILS

WORKING TABLE



- Pressure plate is easy to install or change. 3098*2103mm size
- Table has divided by 10 sections; easy to control by valve based on processing requirement.
- The crisscrossed grooves on top side ensure uniform distribution vacuum of absorption zone.
- 2 layers table plate with a chamber in between ensure uniform distribution vacuum of absorption zone.

2PCS VACUUM PUMP



2pcs 7.5kw cooling vacuum pumps with suction flow rate 250m³/h, pressure 0.5 kg/cm² for high-performance sorption on the table, thus panel could be fixed on the table firmly.

TOOL MEASURER AND BRACKET



Automatic tool measure of 100mm diameter is suitable for different size of cutters, measure tools automatically precise and fast. Tool bracket is used to put tool for the time being.

TANK CABLE CHAIN



High-quality cable chain in world famous brand, very wear proof and of longer service life, electric cables and tube can be protected well during high-speed movement.

MOVEMENT OF EACH AXIS



X and Y direction

Transmitted by high-stiffness inclined rack and pinion with large contact area, higher accuracy.

25mm guiding rail along X direction to ensure accurate and stable movement under high speed

Processing stroke; X axis: 3100mm; Y axis: 2100mm, Z axis: 200mm

MOVEMENT OF EACH AXIS



Z direction

Ball screw gives the machine added precision in Z direction.



Servo Motor

The accurate movement of each axis is ensured by the high-power servo motors.

Y axis: 1.3kw*2; X axis: 1.3kw Z axis: 1.3kw

Max travelling speed: X/Y/Z:
70/70/20m/min

HAND CONTROLLER AND FOOT SWITCH



Hand wheel and foot switch make commissioning more convenient.

AUTOMATIC GREASING



Grease main transmission components automatically so as to prevent machine components from aging thus reducing the maintenance work by operators.

SIDE POSITIONING CYLINDERS & POSITIONING CUPS



Alignments on each side of Y direction, and each alignment raised automatically via two side positioning cylinders.



There are 4 vacuum cups around main spindle to move panel in reference point before processing for positioning, friendly for different panel size.

SAFETY FENCE & LIGHT BARRIER



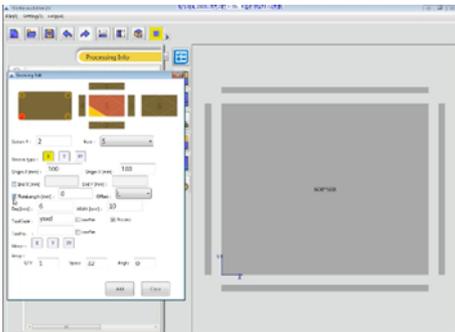
Machine is with whole set safety fence with safety door and light barrier ensure the safety of operator.

START/STOP BUTTON ON GANTRY



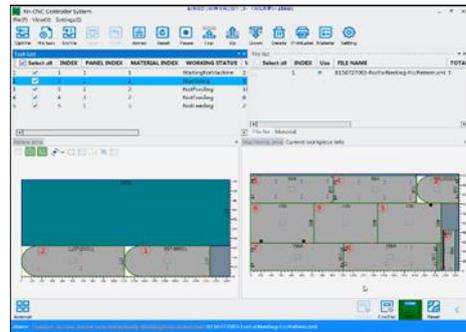
Additional buttons on side of gantry, easier operation for flip over panel in process for double side process.

WORKPIECE EDITOR SOFTWARE (OPTION)



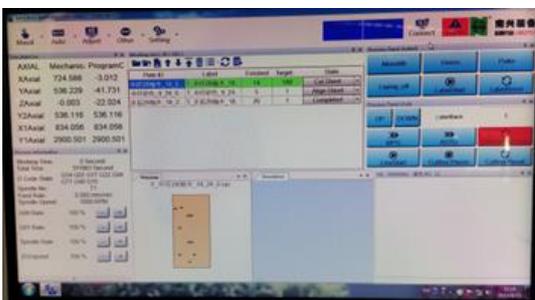
Office version editor software for basic design for single workpiece, linkable to FCC to generate layout, machine is optional even without furniture design software.

OPTIMIZING SOFTWARE



Machine is standard with FCC optimizing software. Combination of automation Smartech and Infotech in production.

CONTROL SYSTEM



Powerful SYNTEC control system provides stable performance, powerful functions and ease of use with friendly interface. Processing path is available at a glance (English and Chinese language are available).

Open port equipped to link with various international nesting software making processing much optimized, under controlled, well managed, design intended, and data networking included for easy operation.

MACHINE BODY



Heavy duty bed structure machine body is welded with square tube and laser-cut steel plates by professional robots welding line, even welding marks and distance ensures high stability of body.

Vibration and aging to release internal strength.

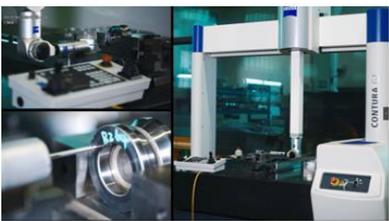
Parts and machine body are processing by advanced CNC machine for metal work, just one positioning to finish most processing work, hence guarantees processing accuracy and reduce the vibration in the process.

PROFESSIONAL ASSEMBLY LINE



Wood Tech follow the SOP and set up the professional assembly lines. All the assembling is worked out by the experienced technicians that guarantee machine standardization and performance.

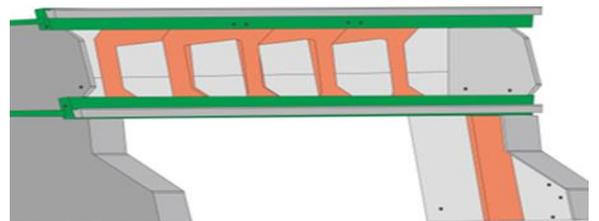
QUALITY CONTROL



Advanced measuring equipment and strict QC system help to make sure the machines and parts are checked and certificated by very high standard.

All the machines are delivered with Quality Certificate signed by QC specialist.

GANTRY FRAME

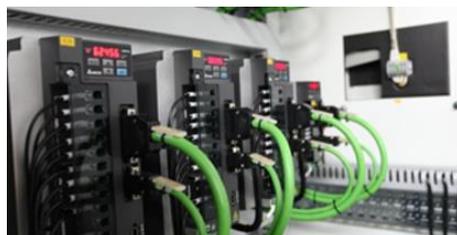


Gantry frame, reliable for high-speed milling work and ensure high precision in the long term.

Compact support ribs inside gantry ensure the higher strength and stability, that means higher machining quality and longer service life.

All the machine bodies and gantries are through stress relief before installation.

ELECTRIC EQUIPMENT



Computer

IPC with Windows operating system
DELL display
USB port
Moveable operation computer, easy to use.

Independent control cabinet

Electric components are of high quality and famous brand. Equipped with air conditioner to control the operating temperature for highest performance.
Door with sealing strip avoids dust and chips.

Air conditioner

Machine is with air conditioner to ensure proper working temperature of electrical components for optimal performance and longer service life, very safe. Especially suitable for high-temperature zone.

SPLIT TYPE MACHINE BODY



Specially split design of machine body, working table and infeed area is separate. Whole body is integrally processing and tested in factory, contacting surface is being specially surface processed, don't need to remove machine gantry for shipment and accuracy can be ensured after connecting which ensures the machine accuracy.

Control system	SYNTEC
Working range	X-axis: 3,100 mm Y-axis: 2,100 mm Z-axis: 50 mm
Working table	Size: 3,098x2,103 mm Height: 950 mm
Max traveling speed	X-axis: 70 m/min Y-axis: 70 m/min Z-axis: 20 m/min
Main spindle	Quantity: 1 Power: 12 kW Max rotating speed: 24,000rpm
Servo motor	X axis: 1.3kw*2 Y axis: 1.3kw Z axis: 1.3kw
Vacuum pump	Quantity: 2 Power: 7,5 kW Suction flow rate: 250 m ³ /h
Dust extraction	Outlet: Ø 150 mm*1 Ø 125 mm*3 Speed required: 30 m/s
Air supply	Air pressure required: 6~7 kg/cm ²
Power supply	Voltage: 380V, 3-phase Frequency: 50 Hz
Total power	37 kW
Floor space	L×W×H: 12,300×3,200×2,500 mm
Net weight	5,500 kg

