WOODPECKER PERFORMANCE 3

Made in Italy Woodworking center

SAOMAD

WOODPECKER PERFORMANCE 5 COMPOSITION

Standard composition

- Intelligent Everest warehouse for loading (400 pieces)
- GENIUS positioning unit
- N. 10 INDIPENDENT clamps
- Nr. 3 principal motors
- Shuttle tool storage (up to a max. 256 positions)

Max working length: L=6.000 mm

SIEMENS NUMERICAL CONTROL

Full-digital CNC with SIEMENS SINUMERIK ONE numerical control, which combines all CNC, PLC and communication functions on a single multiprocessor board

- Basic macro graphics for elementary and advanced processing
- Input and output diagnostics
- Tool configurator (machine setup - tool editor)
- Possibility to define all tools freely (horizontal, vertical, inclined)
- Possibility to define the rotation speeds proper (limitations) of each individual tool (for tools belonging to the stock pantograph)
- Automatic execution of ISO programs (imported via ethernet network peripherals, USB key, etc.) or locally generated
- Import of DXF files also generated by CAD systems or commercial programs for the realization of wooden windows (optional)

And much more besides...

TECNICAL CHARACTERISTICS

Workpiece dimensions

HEIGTH	MIN	MAX
	15 mm	160 mm
WIDTH	MIN	MAX
	45 mm	240 mm
LENGTH	MIN	MAX
	260 mm	6.000 mm
	(internal tenon)	

GENIUS POSITIONING UNIT

New generation MOD positioning unit. GENIUS for the automatic passage of workpieces with a maximum length of 6.000 mm from the loading area to the calipers. The system guarantees the maximum stability, straightness and tightness of the pieces as they are always bound during all the movements from one side to the other of the clamp.

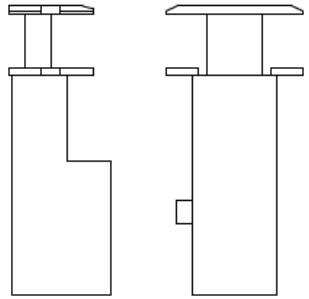
The double clamp system, which is equipped with the manipulator, allows the following handling phases:

- Automatic removal of workpieces from the workpiece alignment bench or from the load automation with first-stage loading into the clamps;
- Automatic movement of the pieces from the first or second phase;
- Automatic movement of parts from the second phase to the unloading area.

INDIPENDENT SINGLE CLAMPS

In axis X there are n. 10 independent single clamps. The pliers have been specially designed to allow profiling, tenoning and milling operations even for small workpieces.

Thanks to the extreme positioning precision, they ensure clamping rigidity both on the outside and on the inside of the workpieces to be machined, allowing the "U" machining of the pieces in the first phase.



The workpiece clamps are operated as independent interpolation axes. This adopted solution allows further flexibility in the combination of simultaneous work between the different spindles, with the possibility of ensuring a significant increase in production capacity.

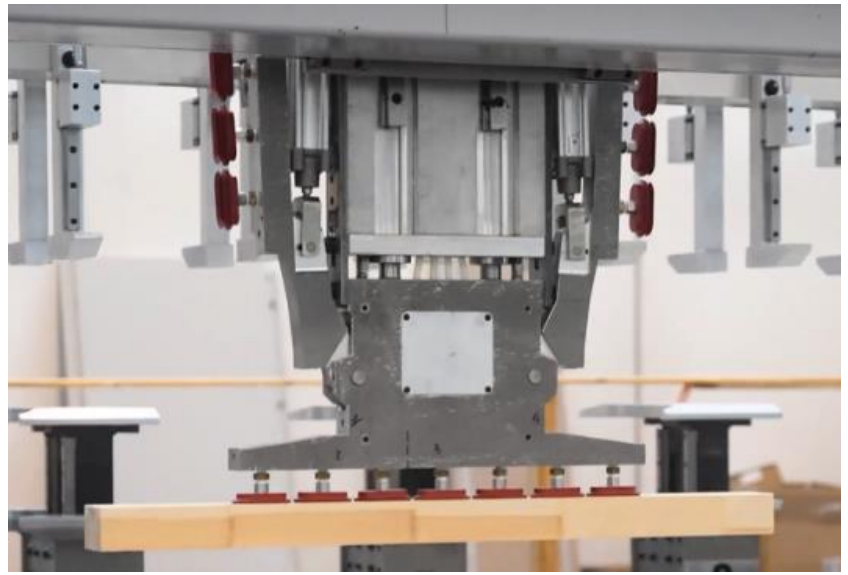
You can load simultaneously:

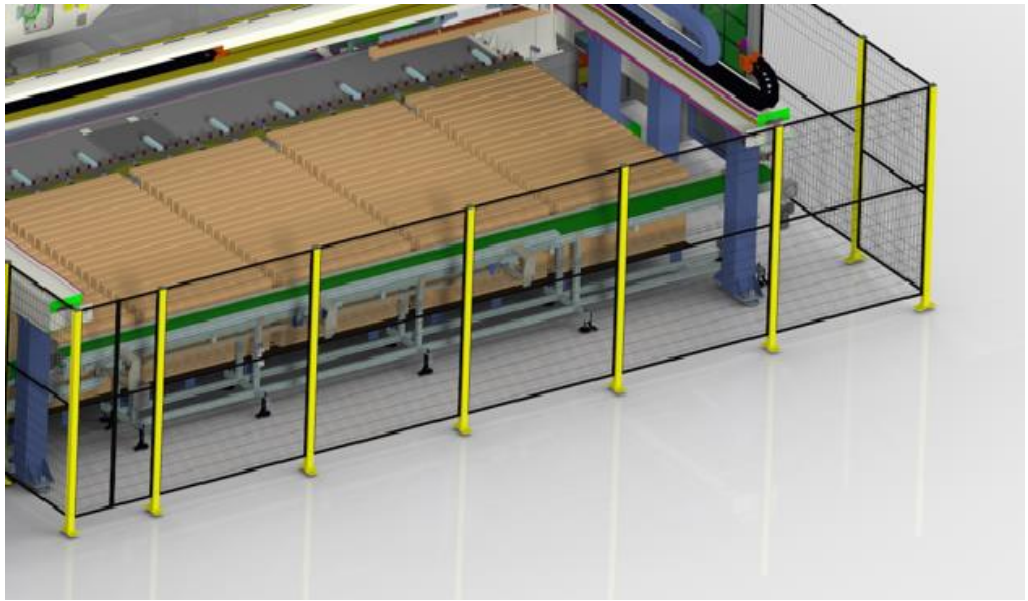
- up to **10 pieces 600 mm** long,
- up to **4 pieces** simultaneously from **1.500 mm** each.
- **1 piece of 6.000 mm**, plus various other combinations.

EVEREST INTELLIGENT WAREHOUSE

- Warehouse composed of 1 module
- Capacity 400 pieces of 80x80x1000 arranged on 8 worktops
- Complete with automatic loading mat in aluminium structure

Designed as a storage lung, it can receive pieces of various lengths manually. The workpiece is picked up by a crane manipulator with suction cups, which take the workpiece and deposit it on the parts warehouse. Successive pieces of equal shape and length are either deposited in the same position above the first by 8 levels, or are deposited alongside in a subsequent stack of 8 other levels, up to the maximum capacity of the warehouse.





The strength of this system is that the machine control has in memory all the different positions of the pieces, so it knows exactly where to go to pick the desired piece.

When the Woodpecker machine starts working, it can pick up in a sequential way 2 sashs and 2 frames to make a door and a frame, or work in series all the sashs and all the frames depending on how the final operator will want to perform the work. The operator can also load many orders and decide which order to work with first

T5/SMILLING HEAD WITH A+C AXES-19 KW

Integrated electrospindle

Thanks to the new structure of the electrospindle, vibrations during high-speed operation can be reduced to a minimum, thus ensuring exceptional surface finish and maximum tool life.

Regolation of the spindle temperature

To ensure high precision machining, the electrospindle is cooled to liquid through a temperature-controlled system that minimizes any thermal expansion.

Motor technical data

• Motor power S1	19 Kw
• Motor power S6 60%	22 Kw
• Max. rotation speed	15.000 rpm
• Spinlde length	250 mm
• Tool diameter	180 mm
• Cooling liquid conditioner	7.5 l/min
• Volt	380 V
• Tool coupling	HSK 63 E
• Pneumatic tool release	70 Bar
• Tool working position	Vert./Oriz.
• Tool balancing	G6.3 ISO 1940-1

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Motor technical data

• Motor power S1	19 Kw
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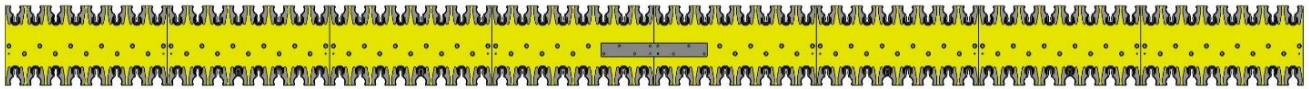
• Max. rotation speed	15.000 rpm
• Max. tool length	290 mm
• Max. tool diameter	180 mm
• Tool weigth	15 kg
• Tool coupling	HSK 63 E

TOOL STORAGE AT 128 POSITIONS-interaxis 105mm

N.1 linear tool magazine for a total of 128 positions with 105 mm interaxis.

The translation is controlled by a high-precision brushless motor for each shuttle independent in positioning and speeds. Faired storage to protect all tool cones from dust and chips.



Brushes and air puffs for cleaning cones **HSK 63 E**

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65 YEARS OF INNOVATIVE IDEAS

WOODPECKER PERFORMANCE 5

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WOODPECKER PERFORMANCE 5 COMPOSITION

Standard composition

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- N. 10 INDIPENDENT clamps
- Nr. 5 principal motor
- Shuttle tool storage (up to a max. 256 positions)

Max working length: L=6.000 mm

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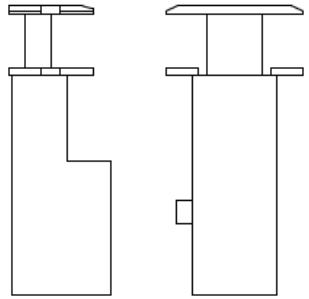

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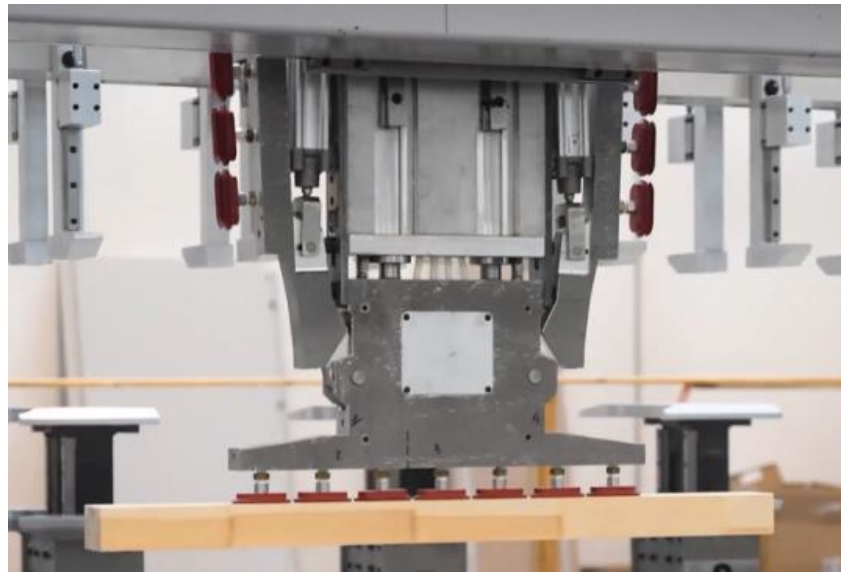

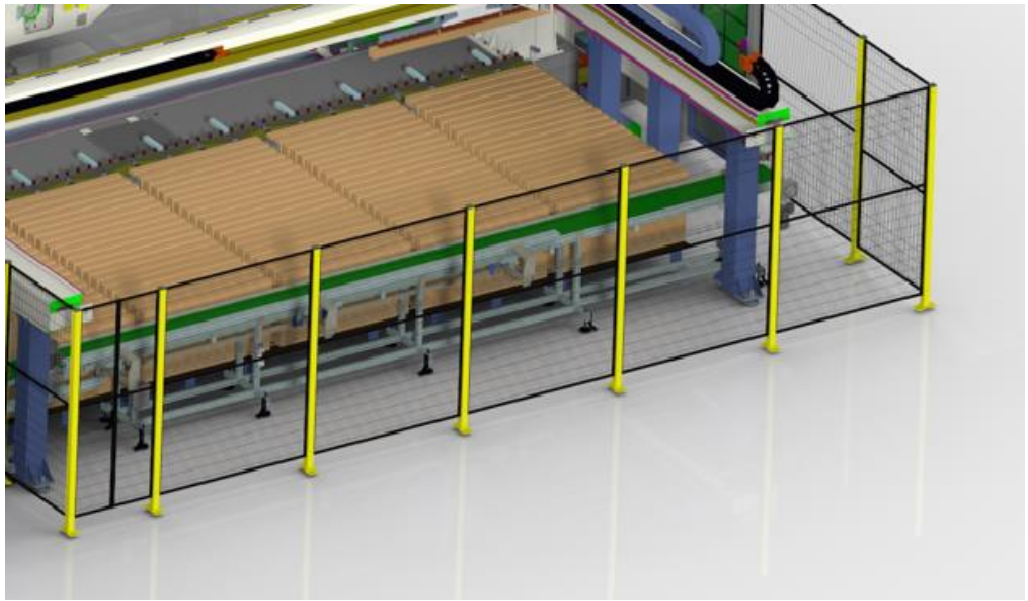

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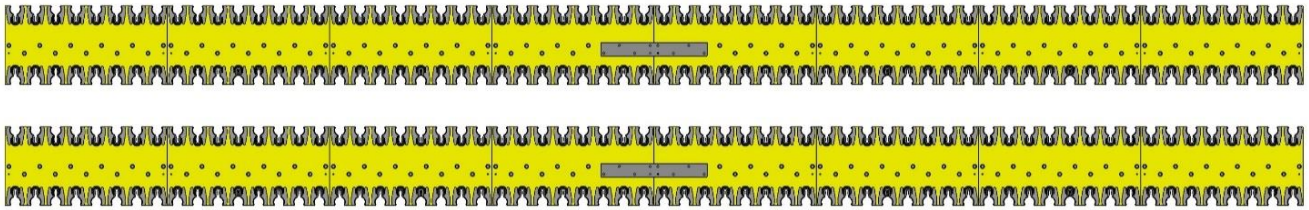

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