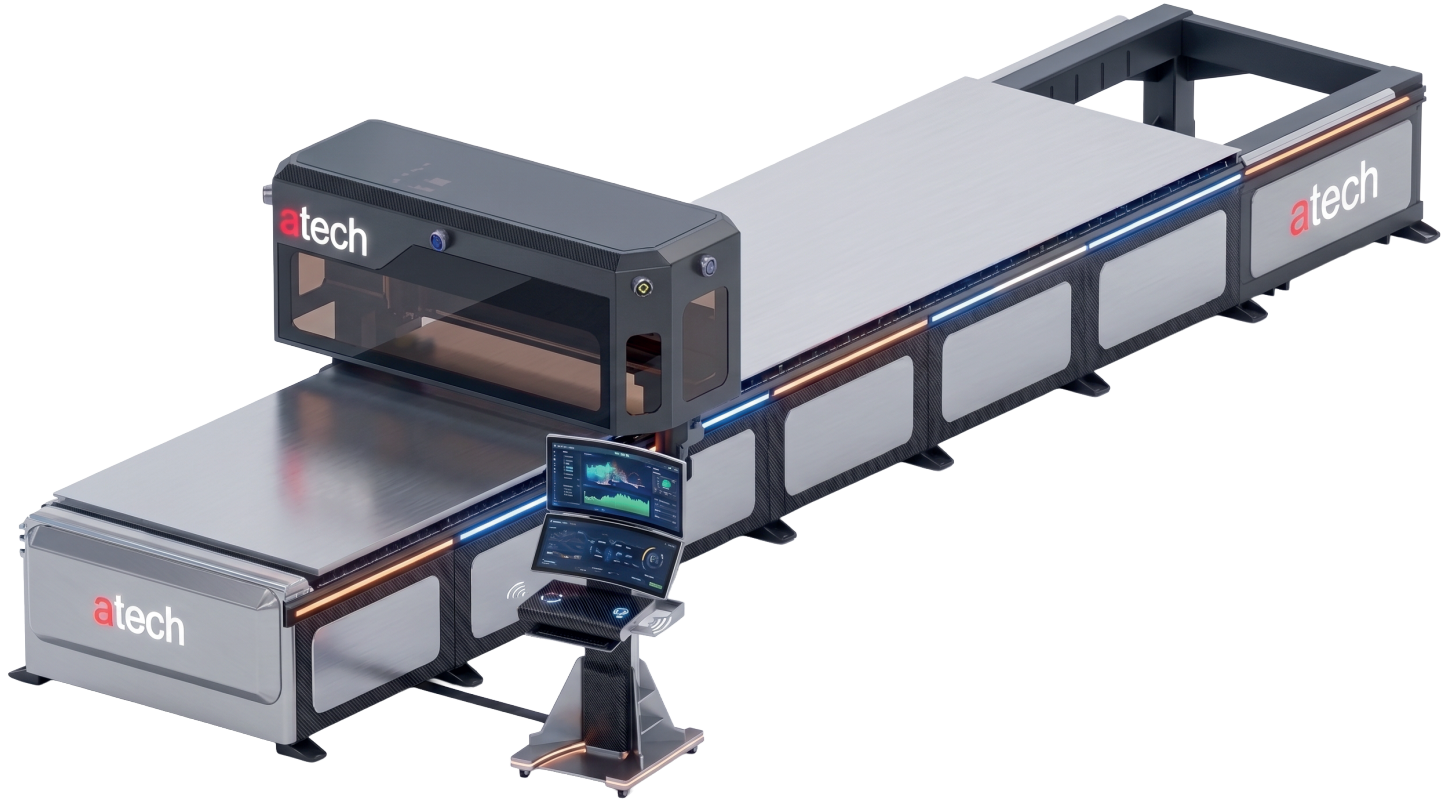


CNC COMPOSITE PANEL MACHINING CENTER

ALUMEGA



» This is a CNC machining center developed for the high-speed, high-precision machining of composite panels and sheets. It was designed based on the speed, precision, and efficiency requirements of modern production lines.

Models:

- AluMega-7316: With a processing capacity of 7350 x 1660 mm, it offers the capability to operate on two stations simultaneously. This allows material to be loaded at one station while processing is underway at the other
- AluMega-4416: Combines compact design and comfort with a processing capacity of 4410 x 1662 mm

General Features

- A CNC automation system with 3-axis movement enables precise and fast machining
- 10 vacuum chambers at each station and the ability to select vacuum zones via a PC
- The compact laminated vacuum table ensures long-lasting, precise machining
- Steel-framed body, chassis, and bridge with a dynamic and rigid design ensure precise machining
- An 8-tool capacity magazine unit that moves in tandem with the gantry, preventing downtime during tool changes
- Automatic tool length measurement probe mounted on the bridge
- Chip extraction system that leaves no chips on the workpiece
- Ergonomically designed enclosure that fully houses the bridge assembly
- A camera and LED lighting system that allows you to monitor the interior of the cabin via a monitor
- An air cushioning system that allows plates to move easily on the table
- A pneumatic reference support system - with five units at each station - that ensures plates are precisely positioned on the table
- User-friendly machine operation via a portable control panel
- Windows-based PC with a 27" curved monitor
- Wireless handwheel control unit for settings and manual movement
- Easy program transfer via Wi-Fi, Ethernet, and USB flash drive
- Precise lubrication capability with an automatic guide lubrication system



» Standard Accessories

- 3 tool holders
- 2 tool sets (1 finger router bit + 1 groove cutter)
- Automatic tool length measurement probe
- In-cab LED lighting
- Chip extraction system
- Wireless handwheel
- Keyboard and mouse
- 2 air guns
- 2 pedals
- Laser barrier and safety fence system
- Automatic guide lubrication system

» Optional Accessories

- Alpha CAM Software
- Barcode Printer
- In-cab camera
- Spare HSK 63F tool holder
- Replacement tool holder jaws
- Replacement cutting tool
- Climate control inside the electrical panel
- Liquid-cooled spray system for the tool
- Cutting oil spray and separation system

» Technical Specifications Table

Maximum Processing Capacity	
X Axis – Lengthwise (mm)	7.350
Y Axis – Transverse (mm)	1.660
Z Axis – Vertical/Without Milling (mm)	300

Maximum Axis Speeds

X Axis – Longitudinal (m/min)	95
Y Axis – Transverse (m/min)	60
Z Axis – Vertical (m/min)	25

Rotor Motor

Power (S1) (kW)	8,5
Maximum RPM	24.000
Tools Holder	HSK 63F
Cooling Type	Elektro Fan

Tools

Type of Tool Change	Automatic
Automatic Tool Length Measuring Probe	✓
Number of Magazines	8
Maximum Tool Diameter (mm)	Ø20
Maximum Tool Length (mm)	150
Tool Cooling (Standard)	Air Cooled

Station	
Dual Station Operation Feature	✓
Single Station Measurement (mm ²)	3.675 x 1.660
Maximum Processing Capacity (mm ²)	7.350 x 1.660
Number of X Axis Supports per Single Station/Total	3 / 6
Number of Y-Axis Stops at a Single Station/Total	2 / 4

Control Unit

Mobile Control Panel	✓
27" Curved Monitor with Windows-Based PC	✓
Data Transfer via Wi-Fi, Ethernet, and USB	✓
Technical Support with Remote Access Capability	✓

Vacuum and Dust Suction

Dust Suction Unit	✓
Total Number of Vacuum Zones	20
Number of Vacuum Zones in a Single Station	10
Dimensions of Vacuum Zones No. 1, 2, 3, 8, 9, and 10 (mm ²)	245 x 1.660
Sizes of Vacuum Zones No. 4, 5, 6, and 7 (mm ²)	490 x 1.660
Vacuum Zone On – Off	Automatic
Number of Vacuum Blowers	2
Vacuum Blower Power (kW)	7,5
Vacuum Blower Flow Rate (m ³ /h)	265
Creating an Airbag by Reverse Blowing	✓