

GARNET ECOplus

CNC Profile Machining Center (3+1 Axis)



FEATURES

GARNET ECOplus, which is a 3+1-axis CNC machining centre, provides a wide range of solutions to its users by processing different sizes of Aluminum and PVC profiles by means of its spindle that can operate in fixed angles of -90° , 0° and $+90^\circ$. By means of the Industrial PC located on the machine as well as the easily programmable CAM software and the user-friendly interface, GARNET ECOplus is developed to carry out all-in-one milling, drilling, machining, marking operations on Aluminum and PVC / Vinyl profiles. Along with performing these operations, it is appreciated for its high level machining capacity $7 \frac{7}{8}'' \times 7 \frac{1}{16}''$.



Focused on providing easy solutions to its customers, GARNET ECOplus leaves its processing capacity to the imagination of users combining power and precision thanks to its 4.5 kW spindle motor.



By means of its 4 tool replacement stations, it provides saving on time while performing different operations.



By means of the clamps that can be moved manually and is height-adjustable according to profiles, GARNET ECOplus provides a flexible operating space to its users.



The cooling system of the automatic tool bit on the spindle motor allows you to create a clean and precise machining surface as well as it extends the service life of the tool bit.

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AXIS TRAVEL

X Axis (Longitudinal)	98 7/16" (2500mm)
Y Axis (Lateral)	7 7/8" (200mm)
Z Axis (Vertical)	7 1/16" (180mm)
A Axis (Angle of Profile Rotation)	-90° 0° 90°

POSITIONING SPEED

X Axis (Longitudinal)	2520" (64m) / min
Y Axis (Lateral)	2520" (64m) / min
Z Axis (Vertical)	1574" (40m) / min
A Axis (Rotational Motion)	60°/sec

SPINDLE

Maximum power	4.5 kW
Maximum rotation speed	24000 - 18000 rpm/min.
Tool holder type	ISO 30
Cooling type	Electric Fan

ELECTRIC

Power	9,6 kW
Electric	30 A
Voltage / Frequency	220V / 3~, 50-60 Hz

AIR

Pressure	6-8 Bar
Flow rate	18 gal/min

TOOL CHUCK

Manual tool station	•
Maximum tool capacity	4

PROCESSABLE UNITS

With direct tool (upper surface)	3
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PROFILE POSITIONING

Right pneumatic profile reference alignment	•
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CONTROL UNIT

Touchscreen	15" Industrial PC
Data transfer via Ethernet and USB	•

OPERATIONAL AREA

Clamps, standard quantity	4
Manual clamp positioning on X-axis	•
Lubrication of tool process area	•
Safety Barrier (Light sensor)	○

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