

GARNET ECO III

CNC Profile Machining Center (3 Axis)



GARNET ECO III, which is a 3-axis CNC machining centre, provides a wide range of solutions to its users by processing different sizes of aluminium and PVC profiles by means of its spindle that can operate vertically. By means of the Industrial PC located on the machine as well as the easily programmable CAM software and the user-friendly interface, it can collectively perform the milling, water discharge channel opening, puncturing and marking operations of aluminium and PVC profiles. Along with performing these operations, it is appreciated for its high level machining capacity (200mm x 180mm).



Focused on providing easy solutions to its customers, GARNET ECO III leaves its processing capacity to the imagination of users combining power and precision thanks to its 6 kW manual tool displacement spindle motor.



By means of its 5 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 ECO III 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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MACHINING LENGTHS

X Axis (Longitudinal)	2500 mm
Y Axis (Lateral)	200 mm
Z Axis (Vertical)	180 mm

POSITIONING SPEED

X Axis (Longitudinal)	60 m/min.
Y Axis (Lateral)	60 m/min.
Z Axis (Vertical)	15 m/min.

SPINDLE

Max. Power	6 kW
Max. Rotation Speed	24000 - 18000 rpm/min.
Tool Holder Type	ISO 30
Cooling Type	Electric Fan

ELECTRIC

Power	9 kW
Current	26 A
Voltage / Frequency	400V / 3~, 50-60 Hz

AIR

Pressure	6-8 Bar
Flow Rate	35 lt/min.

TOOL CHUCK

Manual Tool Station	●
Max. Tool Capacity	5

PROCESSABLE UNITS

With direct tool (upper surface)	1
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PROFILE POSITIONING

Right pneumatic profile reference alignment	●
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CONTROL UNIT

Touchscreen	15" Industrial PC
Data transfer via remote network connection, Ethernet and USB	●

OPERATIONAL AREA

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

● Standard ○ Optional



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