## GARNET

CNC Profile Machining Center (4 Axis)

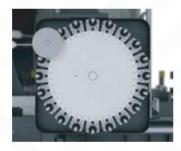




The GARNET, a 4-axis CNC profile machining center, tackles a wide range of aluminum [PVC, light alloy and even steel] profile sizes with its versatile spindle, enabling machining at any angle between -90° and +90°. This all-in-one solution streamlines milling, drainage channel opening, punching, marking, and end milling operations on diverse profiles. Furthermore, it excels at non-standard tasks, maximizing its user appeal. The generous working area of 580 mm x 290 mm further enhances user experience by facilitating efficient processing.

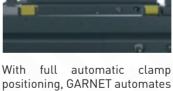


By focusing on providing convenient solutions for customers and combining power and precision, the processing capacity is only limited by the users imagination, thanks to the 9 kW spindle motor with automatic tool replacement feature.



High speed rates on axes and internal automatic tool replacement magazine which moves with gantry for 20 tools allow for time savings when running different processes which require tool replacement.

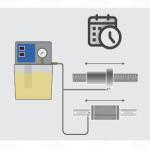
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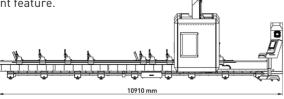
With full automatic clamp positioning, GARNET automates many tasks assuming the work load of the user.

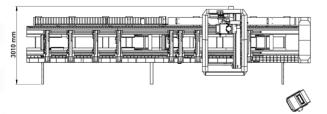
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Maintenance of transmission elements is accomplished by the automatic lubrication system which is offered as an optional feature increasing the service life for accuracy in processes. Capacity may be varied for processing of non-standard profiles with on demand optimization of size and number of clamps.





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| MACHINING LENGTHS  |   |
|--|---|
| X Axis (Longitudinal)  | 8000 mm   |
| Y Axis (Lateral)   | 515 mm (Tool length 50 mm from the collet)                |
| Z Axis (Vertical)  | 450 mm (Tool length 50 mm from the collet)<br>-90° / +90° |
| A Axis (Head processing angles)  |   |
| Optional length on X axis  | 0   |
| POSITIONING SPEED<br>X Axis (Longitudinal)                               | 84 m/min  |
|  |   |
| Y Axis (Lateral)   | 75 m/min  |
| Z Axis (Vertical)  | 40 m/min  |
| A Axis (Rotational Movement)   | 100°/sec  |
| AIR  |   |
| Pressure   | 6-8 Bar   |
| ELECTRICAL   |   |
| Maximum power  | 18.3 kW   |
| Voltage  | 400V 3N PE AC   |
| Frequency  | 50-60 Hz  |
| SPINDLE  |   |
| Maximum power  | 9 kW  |
| Maximum rotation speed   | 24.000 rpm  |
| Tool holder  | ISO 30  |
| Cooling type   | Elektric Fan  |
| TOOL STORAGE   |   |
| Tool storage system with umbrella ATC                                    | •<br>20   |
| Maximum tool storage system number with umbrella ATC                     |   |
| Maximum saw blade diameter in to the storage system                      |   |
| Automatic Tools Measuring TAPPING CAPACITY                               | •   |
| Compressed tapping head  | M8  |
| PROFILE POSITIONING  |   |
| Right and left pneumatic profilr reference alignment (with 4 station pro | ocessing capability)                                      |
| CONTROL UNIT   |   |
| Industrial PC - Touchscreen  | 15"   |
| Data transfer via remote network connection, Ethernet and USB            | 15  |
| Barcode reader   |   |
| Camquix CAM program  |   |
| CadXtract CAD-CAM Production program                                     |   |
| OPERATIONAL AREA   |   |
| Steel profile machining thickness  | 5 mm  |
| Clamps, standard quantity  | 8   |
| Clamps, maximum quantity   | 10  |
| Servo-controlled automatic clamp positioning system                      | 0   |
| Automatic clamp positioning with the X-axis                              |   |
| Automatic lubrication in processing area                                 | •   |
| Guard cabin for machining area   | •   |
| Safety barrier   | •   |
| Automatic lubrication system for X, Y and Z axes                         | 0   |
| Automatic sawdust discharge unit (8 m)                                   | 0   |
| FESTO pneumatic system   | 0   |
|  |   |

• Standard • Opsiyonal

Özçelik Makina continuously improves its products and offers new and modern solutions for PVC and Aluminum Profile Processing. Accordingly, Özçelik reserves the right to change the information in this document without notice. All dimensions and weights are reference values. Valid from January 2023