PRODUCT WEB LINK

CENTER



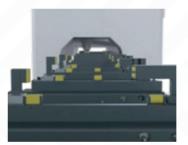
The GARNET, a 4-axis CNC profile machining center, tackles a wide range of aluminum [PVC, light alloy and even steel] profile sizes with its versatile spindle, enabling machining at any angle between -90° and +90°. This all-in-one solution streamlines milling, drainage channel opening, punching, marking, 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.



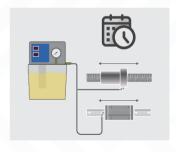
By focusing on providing convenient solutions customers and combining power and precision, the processing capacity is only limited by the users imagination, thanks to the 9 kW spindle motor with automatic tool replacement feature.



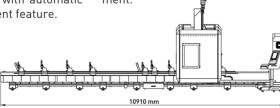
High speed rates on axes and automatic internal tool replacement magazine which moves with gantry for 20 tools allow for time savings when running different processes which require tool replacement.

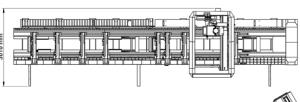


With full automatic clamp positioning, GARNET automates many tasks assuming the work load of the user.



Maintenance of transmission elements is accomplished by 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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GARNET

CNC Profile Machining Center (4 Axis)



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MACHINING LENGTHS	
X Axis (Longitudinal)	8000 mm
	80 mm-515 mm (Side surfaces tool length from collet mouth 50 mm)
Z Axis (Vertical)	450 mm (Tool length 50 mm from the collet)
A Axis (Head processing angles)	-90° / +90°
Optional length on X axis	0
POSITIONING SPEED	
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	Liquid
TOOL STORAGE	
Tool storage system with umbrella ATC	<u> </u>
Maximum tool storage system number with umbrella ATC	20
Maximum saw blade diameter in to the storage system	180 mm
Automatic Tools Measuring	•
TAPPING CAPACITY	
Compressed tapping head	M8
PROFILE POSITIONING	
Right and left pneumatic profilr reference alignment (with 4 stati	on processing capability) •
CONTROL UNIT	
Industrial PC - Touchscreen	15"
Data transfer via remote network connection, Ethernet and USB	
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	C
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	C
Automatic sawdust discharge unit (8 m)	C
FESTO pneumatic system	0
• Standard	Opsiyonal