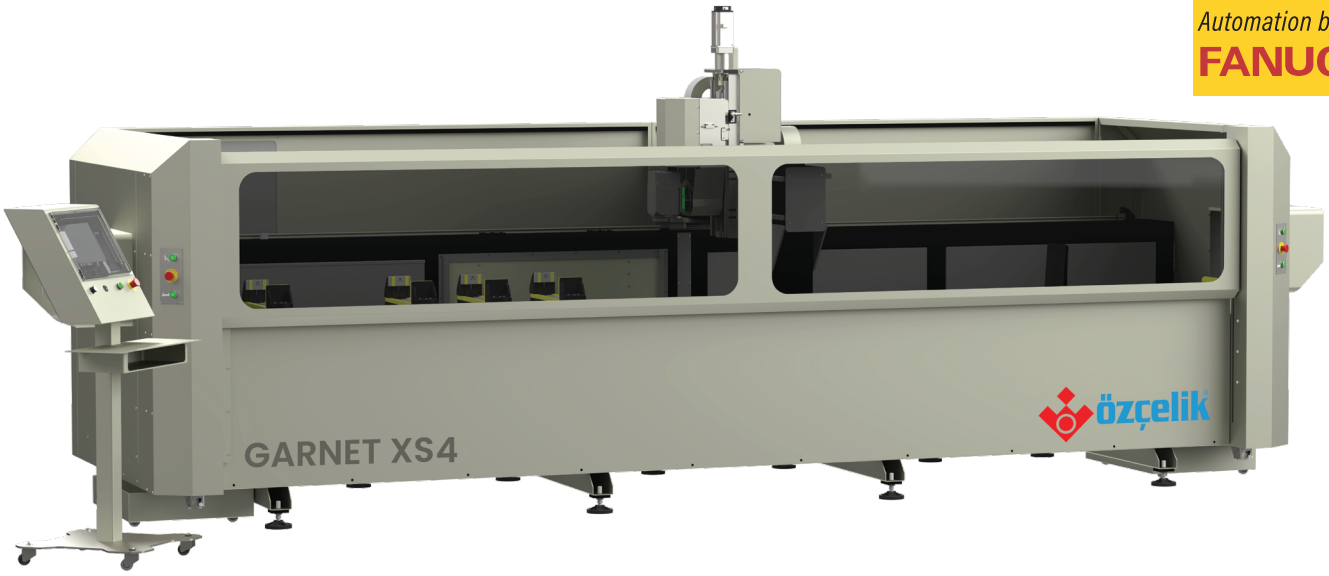
# GARNET XS4

CNC Profile Machining Center (4 Axis)

Automation by FANUC




PRODUCT WEB LINK

YouTube

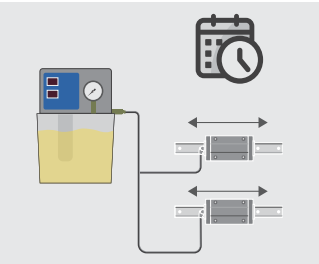
WEB

The 4-axis CNC machining center, GARNET XS 4, boasts a versatile spindle that tackles a wide range of materials, including aluminum, PVC, light alloys, and even steel. With its ability to operate between -90° and +90°, the GARNET XS 4 tackles profiles of various sizes. This all-in-one powerhouse streamlines milling, water channel opening, punching, marking, and end milling for diverse materials, excelling at both standard and non-standard operations. An impressive working area of 320 mm x 255 mm further enhances user experience by enabling efficient processing.

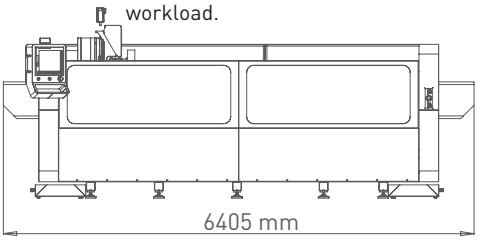
By focusing on providing convenient solutions for customers, and combining power and precision, GARNET XS4 lets the processing capacity be only limited by the users imagination, thanks to the 5.6 kW spindle motor with automatic tool replacement feature.

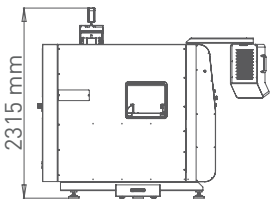
Thanks to its built-in automatic magazine with capacity for 8 tools, GARNET XS4 saves time when switching to different operations.The GARNET XS4, which positions its clamps ful-ly automatically using the X-axis, completely takes on the user's workload.

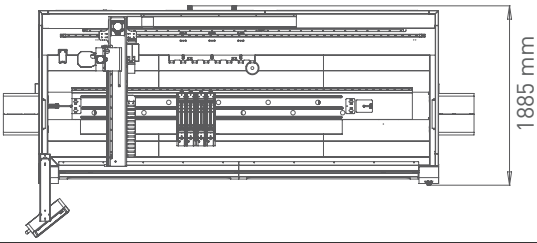
Double-Linear Guide bridge systems have are more rigid and durable compared to single-Linear Guide bridge systems. Reduced vibration and allows for more precise processing of the profiles.



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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# GARNET XS4

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|---|---|
| **MACHINING LENGTHS** | |
| X Axis (Longitudinal) | 4000 mm |
| Y Axis (Lateral) | 320 mm |
| Z Axis (Vertical) | 255 mm |
| A Axis (Head processing angles) | -90° / +90° |
| **POSITIONING SPEED** | |
| X Axis (Longitudinal) | 90 m/min |
| Y Axis (Lateral) | 60 m/min |
| Z Axis (Vertical) | 20 m/min |
| A Axis (Rotational Movement) | 166° /sec |
| **AIR** | |
| Pressure | 6-8 Bar |
| **ELECTRICAL** | |
| Max. Power | 8 kW |
| Voltage | 400V 3P, N, PE AC |
| Frequency | 50-60 Hz |
| **SPINDLE** | |
| Max. Power | 5.6 kW |
| Maximum rotation speed | 20.000 r.p.m |
| Tool holder | HSK F50 |
| Cooling type | Liquid |
| **TOOL STORAGE** | |
| Automatic Linear Type Tools Magazine | ● |
| Maximum tool storage system number | 8 |
| Maximum saw blade diameter in to the storage system | 150 mm |
| Automatic Tools Measuring | ● |
| **SCREW-CUTTING CAPACITY** | |
| M8 - with compressed tapping head | ○ |
| **PROFILE POSITIONING** | |
| Right and left pneumatic profile reference alignment | ● |
| **CONTROL UNIT** | |
| Industrial PC - Touch Screen | 15” |
| Barcode reader | ● |
| Camquix CAM program | ● |
| CadXtract CAD-CAM Production program | ○ |
| **OPERATIONAL AREA** | |
| Clamps, standard pcs | 4 |
| Clamps, maximum pcs | 6 |
| Automatic clamp positioning with the X-axis | ● |
| Spray-Automatic lubrication in processing area | ● |
| Cabinet providing protection in processing zone | ● |
| Clamp Automatic Tool lubrication system | ○ |
| FESTO pneumatic system | ○ |
| Side tunnels | ● |
| Additional Clamp | ○ |
| Automatic lubrication system for X, Y and Z axes | ● |

● 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 2025