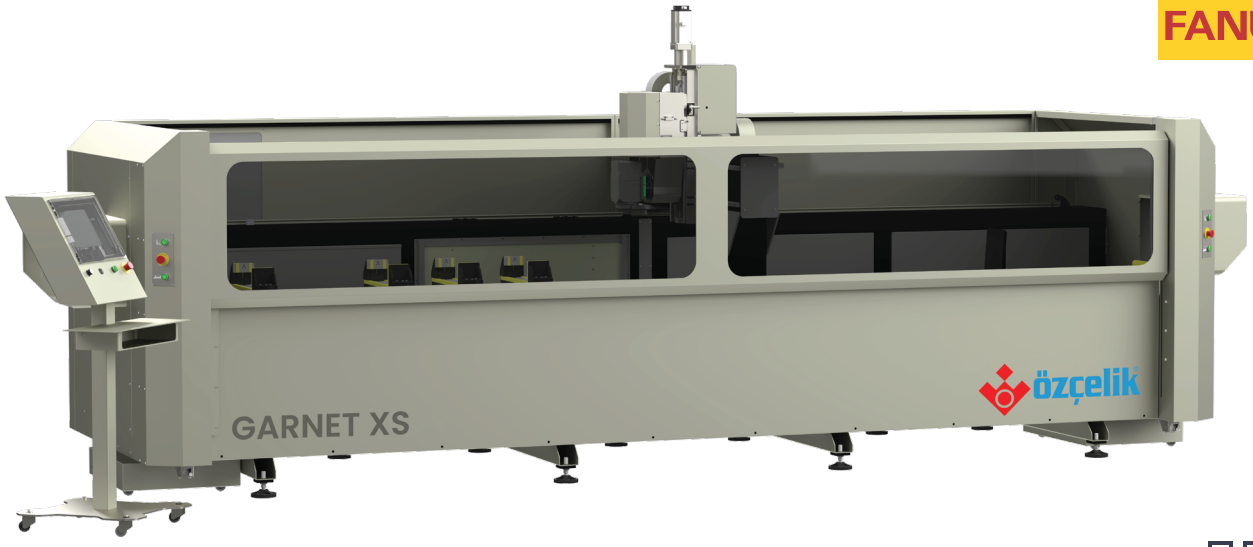
GARNET XS

CNC Profile Machining Center (3+1 Axis)

özçelik

Automation by FANUC

PRODUCT WEB LINK



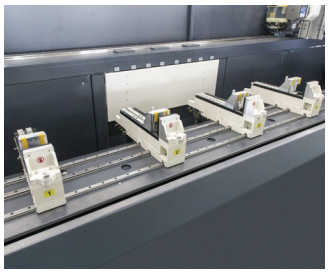
YouTube

WEB

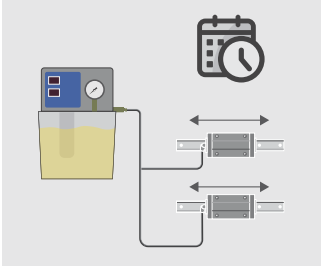
Thanks to its spindle which can operate in -90°, 0° and +90° fixed angles, the 3+1 axis CNC machining center, GARNET XS can process different sizes of aluminum and PVC profiles and offer a wide spectrum of solutions to the user. The machine is developed to carry out all-in-one milling, drain channel opening, punching, marking and end milling operations on aluminum and PVC profiles, and to perform special non-standard operations on different profiles. The high processing capacity (320 mm x 255 mm) provides satisfactory user experience with the machines' performance in all operations.

By focusing on providing convenient solutions for customers, and combining power and precision, GARNET XS lets the processing capacity be only limited by the users imagination, thanks to the 5.5 kW spindle motor with automatic tool replacement feature.

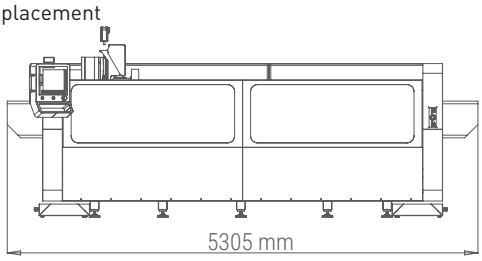
Thanks to its built-in automatic magazine with capacity for 8+1 tools, GARNET XS saves time when switching to different operations.

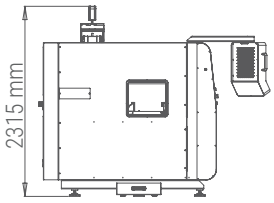


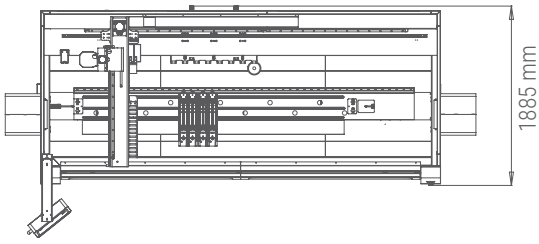
The GARNET XS, which positions its clamps fully automatically using the X-axis, completely takes on the user's workload.



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)	4000 mm
Y Axis (Lateral)	320 mm
Z Axis (Vertical)	255 mm
A Axis (Head processing angles)	-90° | 0° | +90°
POSITIONING SPEED	
X Axis (Longitudinal)	90 m/min
Y Axis (Lateral)	60 m/min
Z Axis (Vertical)	20 m/min
AIR	
Pressure	6-8 Bar
ELECTRICAL	
Maximum power	8,46 kW
Voltage	400V 3N PE AC
Frequency	50-60 Hz
SPINDLE	
Maximum power	5,5 kW
Maximum rotation speed	24.000 rpm
Tool holder	ISO 30
Cooling type	Liquid
TOOL STORAGE	
Automatic Linear Type Tools Magazine	●
Maximum tool storage system number	8+1
Maximum saw blade diameter in to the storage system	150 mm
Automatic Tools Measuring system	●
TAPPING CAPACITY	
Compressed tapping head M8	○
PROFILE POSITIONING	
Right and left pneumatic profile reference alignment	●
CONTROL UNIT	
Industrial PC - Touch Screen	15”
Data transfer via remote network connection, Ethernet and USB	●
Aggregate	●
Barcode reader	●
Camquix CAM program	●
CadXtract CAD-CAM Production program	○
OPERATIONAL AREA	
Clamps, standard quantity	4
Clamps, maximum quantity	6
Automatic clamp positioning with the X-axis	●
Spray-Automatic lubrication in processing area	●
Guard cabin for machining area	●
B&R automation system	○
Automatic Tool cooling system	○
FESTO pneumatic system	○
Side tunnels	●

● 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