

# GARNET XS

CNC Profile Machining Center (3+1 Axis)

Operated by  
**FANUC**



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 (300 mm x 265 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.



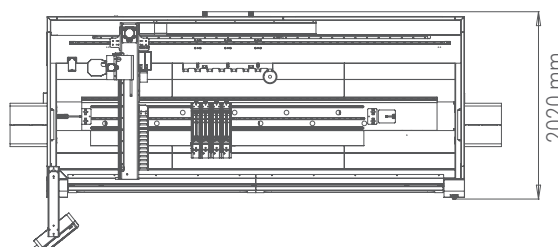
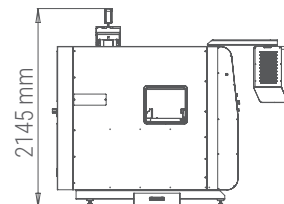
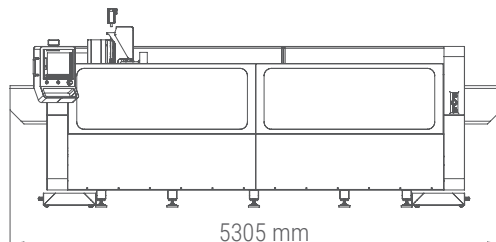
Thanks to its built-in automatic magazine with capacity for 8+1 tools, GARNET XS saves time when switching to different operations.



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



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.



## MACHINING LENGTHS

X Axis (Longitudinal)	3000 mm
Y Axis (Lateral)	300 mm
Z Axis (Vertical)	265 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
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## 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	Elektric Fan

## TOOL STORAGE

Tool storage system with umbrella ATC	•
Maximum tool storage system number with umbrella ATC	8+1
Maximum saw blade diameter in to the storage system	150 mm
Tools Measuring	•

## TAPPING CAPACITY

Compressed tapping head	○
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## PROFILE POSITIONING

Right and left pneumatic profile reference alignment	•
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## CONTROL UNIT

Industrial PC - Touchscreen	15" HMI
Data transfer via remote network connection, Ethernet and USB	•
Aggregate	•
Barcode reader	•
Smart CAM post processing	•
Camquix CAM software	•
CadXtract CAM software	○

## OPERATIONAL AREA

Clamps, standard quantity	4
Clamps, maximum quantity	6
Automatic clamp positioning on X-axis	•
Automatic lubrication in processing area	•
Guard cabin for machining area	•
B&R automation system	○
Automatic lubrication in processing area	○
FESTO pneumatic system	○
Side tunnels	•

• Standard    ○ Optional