

# GARNET XS

CNC Controlled Profile Machining Center (3 + 1 Axis)



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.



[www.oz-machine.com](http://www.oz-machine.com)

### MACHINING LENGTHS

X Axis (Longitudinal)	3000 mm
Y Axis (Lateral)	300 mm
Z Axis (Vertical)	265 mm
Fixed angles with angular head	-90°   0   +90°

### POSITIONING SPEED

X Axis (Longitudinal)	127 m/min
Y Axis (Lateral)	40 m/min
Z Axis (Vertical)	10 m/min

### SPINDLE

Maximum power	5.5 kW
Maximum rotation speed	24000 rpm
Tool holder	ISO 30
Cooling type	Electro Fan

### TOOL STORAGE

Tool storage system with stationary ATC	●
Maximum tool storage system number with stationary ATC	8 + 1
Tool storage system with umbrella ATC	○
Maximum tool storage system number with umbrella ATC	10 + 1
Maximum saw blade diameter in to the storage system	150 mm

### TAPPING CAPACITY

With compensator chuck	M8
Rigid tapping	○

### PROCESSABLE UNITS

With direct tool (upper surface, lateral surfaces, heads)	5
With saw blade (upper surface, heads)	3

### PROFILE POSITIONING

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

Touchscreen	15" HMI
Remote access	●
Data transfer via remote network connection, Ethernet and USB	●
Barcode reader	○
Industrial PC	○
Smart CAM post processing	●

### OPERATIONAL AREA

Clamps, standard quantity	4
Clamps, maximum quantity	6
Automatic clamp positioning on X-axis	●
Automatic lubrication in processing area	●
Full guard cabin	●
Side tunnels	○

● Included

○ Optional