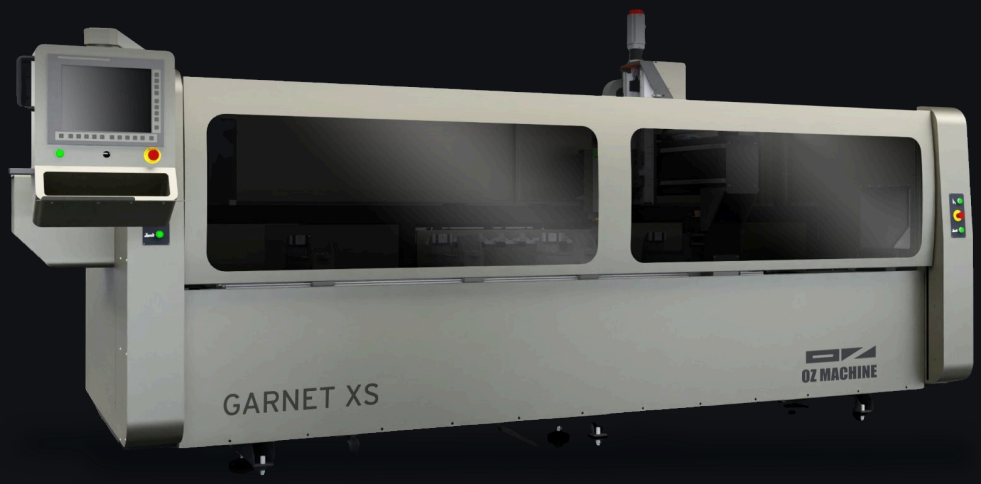
OZ MACHINE USA

# GARNET XS

CNC Profile Machining Center (3 + 1 Axis)




A 3+1 axis machining center for aluminum profiles, with a 5.5 kW spindle, automatic tool change and an 8+1 tool magazine. It mills, drills, taps and end mills profiles up to 12.6" x 10.0", and fully automatic clamp positioning takes most of the setup work off the operator.

| | | | |
|---|---|---|---|
| **118"** | **5.5 kW** | **8+1** tools | **0 · 90 · 180°** |
| X-axis travel | Spindle, 24,000 rpm | Tool magazine | Spindle positions |

## KEY FEATURES

- + Milling, drilling, tapping and end milling
- + Automatic clamp positioning on X axis
- + FANUC CNC control, 15" HMI, Ethernet / USB
- + Machining capacity 12.6" x 10.0"
- + 6" saw blade in the tool magazine
- + Full guard cabin, automatic lubrication

**WATCH IT RUN**
**GARNET XS video on the Oz Machine USA YouTube channel**
youtu.be/HIFVswTBd2M

| Max. power | Voltage | Speeds | Air |
|---|---|---|---|
| 8.46 kW / 22 A | 220V 3P, 60 Hz | 295 / 197 / 66 ft/min | 100 psi |

TECHNICAL DATA

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## MACHINING LENGTHS

| | |
|---|---|
| X axis (longitudinal) | 118.1" (3000 mm) |
| Y axis (lateral) | 12.6" (320 mm) |
| Z axis (vertical) | 10.0" (255 mm) |
| Fixed spindle angles | 0° · 90° · 180° |

## POSITIONING SPEED

| | |
|---|---|
| X axis (longitudinal) | 295 ft/min (90 m/min) |
| Y axis (lateral) | 197 ft/min (60 m/min) |
| Z axis (vertical) | 66 ft/min (20 m/min) |

## SPINDLE

| | |
|---|---|
| Maximum power | 5.5 kW |
| Maximum rotation speed | 24,000 rpm |
| Tool holder | ISO 30 |
| Cooling | Fan cooled |

## TOOL STORAGE

| | |
|---|---|
| Stationary tool magazine | ● |
| Maximum number of tools, stationary | 8 + 1 |
| Rotary tool magazine | ○ |
| Maximum number of tools, rotary | 10 + 1 |
| Maximum saw blade diameter in the magazine | 6" |

## TAPPING & MACHINABLE SURFACES

| | |
|---|---|
| With compensator chuck | M8 |
| Rigid tapping | ○ |
| Surfaces with direct tool (top, sides, ends) | 5 |
| Surfaces with saw blade (top, ends) | 3 |

● Standard ○ Optional

## PROFILE POSITIONING

| | |
|---|---|
| Right and left pneumatic profile reference alignment | ● |

## CONTROL UNIT

| | |
|---|---|
| FANUC CNC control | ● |
| HMI touchscreen | 15" |
| Remote access | ● |
| Data transfer via Ethernet and USB | ● |
| Barcode reader | ○ |
| Industrial PC | ○ |
| Smart CAM post processing | ● |

## OPERATIONAL AREA

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

## AIR & ELECTRICAL

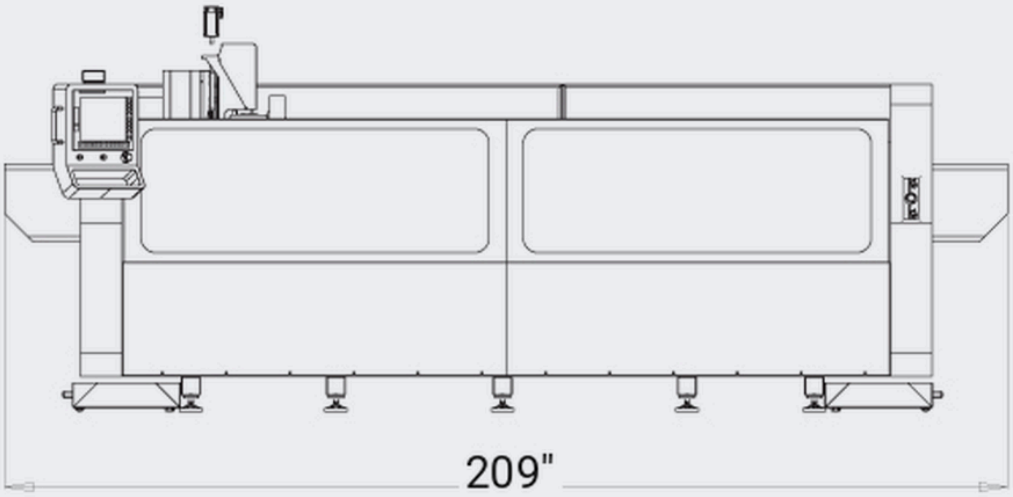
| | |
|---|---|
| Maximum power / current (220V) | 8.46 kW / 22 A |
| Voltage | 220V 3P, 60 Hz |
| Air pressure | 100 psi |

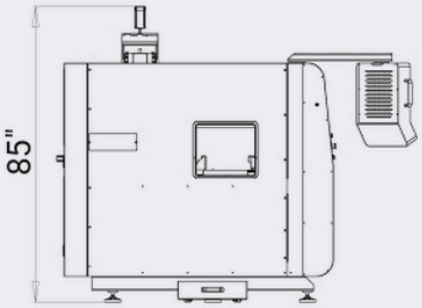
# GARNET XS

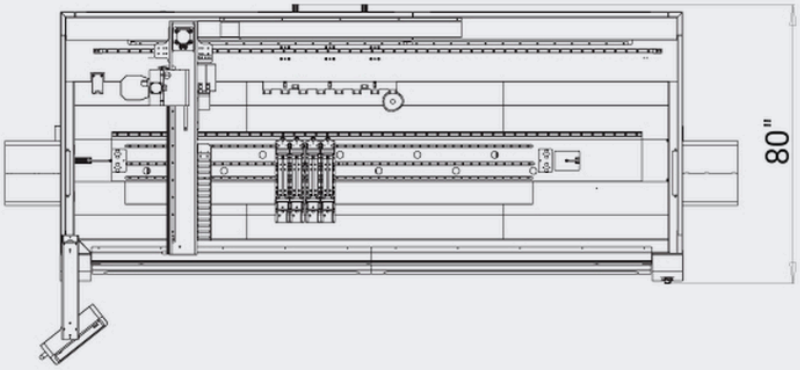
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## LAYOUT PLAN




Dimensions in inches. Front, side and top views.

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Product data, descriptions and illustrations may change without prior notice.