OZ MACHINE USA

GARNET 5X

CNC Profile Machining Center (5 Axis)



Five axes for complex parts: the spindle turns 0°–180° on the A axis and 0°–360° on the C axis. An 11 kW spindle and a 20+1 umbrella magazine on the gantry, with machine length and clamp count built to your profiles. A sawdust conveyor keeps the machining area clean.

5 axes	**11 kW**	**20+1** tools	**315"**
A 0–180° · C 0–360°	Spindle, 24,000 rpm	Umbrella magazine	X-axis travel (std.)

KEY FEATURES

- + Machining capacity 20.3" x 14.6"
- + 16" saw blade in the tool magazine
- + Automatic tool measuring and clamp positioning
- + Liquid-cooled HSK F63 spindle
- + Longer X axis on request
- + FANUC CNC control

WATCH IT RUN
GARNET 5X video on the Oz Machine USA YouTube channel
youtu.be/BJIWQyAjAIY

Max. power	Voltage	Speeds	Air
50 kW	220V 3P, 60 Hz	276 / 246 / 131 ft/min	100 psi

TECHNICAL DATA

GARNET 5X

CNC Profile Machining Center (5 Axis)

OZ MACHINE USA

MACHINING LENGTHS

X axis (longitudinal)	315.0" (8000 mm)
Longer X axis	○
Y axis (lateral), tool length 2" (51 mm)	20.3" (515 mm)
Z axis (vertical), tool length 2" (51 mm)	14.6" (370 mm)
A axis (head machining angles)	0°–180°
C axis (head rotation)	0°–360°

POSITIONING SPEED

X axis (longitudinal)	276 ft/min (84 m/min)
Y axis (lateral)	246 ft/min (75 m/min)
Z axis (vertical)	131 ft/min (40 m/min)
A and C axes	100°/sec

SPINDLE

Maximum power	11 kW
Maximum rotation speed	24,000 rpm
Tool holder	HSK F63
Cooling	Liquid

TOOL STORAGE

Automatic umbrella-type tool magazine	●
Maximum number of tools	20 + 1
Maximum saw blade diameter in the magazine	16"
Automatic tool measuring	●
Tapping with adapter	M8

● Standard ○ Optional

PROFILE POSITIONING

Right and left pneumatic reference stops, center alignment bar	●
Light steel profiles, max. wall thickness	3/16" (5 mm)

CONTROL UNIT

FANUC CNC control	●
Industrial PC touchscreen	15"
Data transfer via remote network, Ethernet and USB	●
Barcode reader	●
Camquix CAM program	●
CadXtract CAD-CAM production program	○

OPERATIONAL AREA

Clamps, standard	8
Clamps, maximum	10
Servo-controlled automatic clamp positioning	●
Cabin protecting the machining zone	●
Safety barrier (sensor)	●
Sawdust conveyor (26 ft / 8 m)	●
Automatic lubrication system	○

AIR & ELECTRICAL

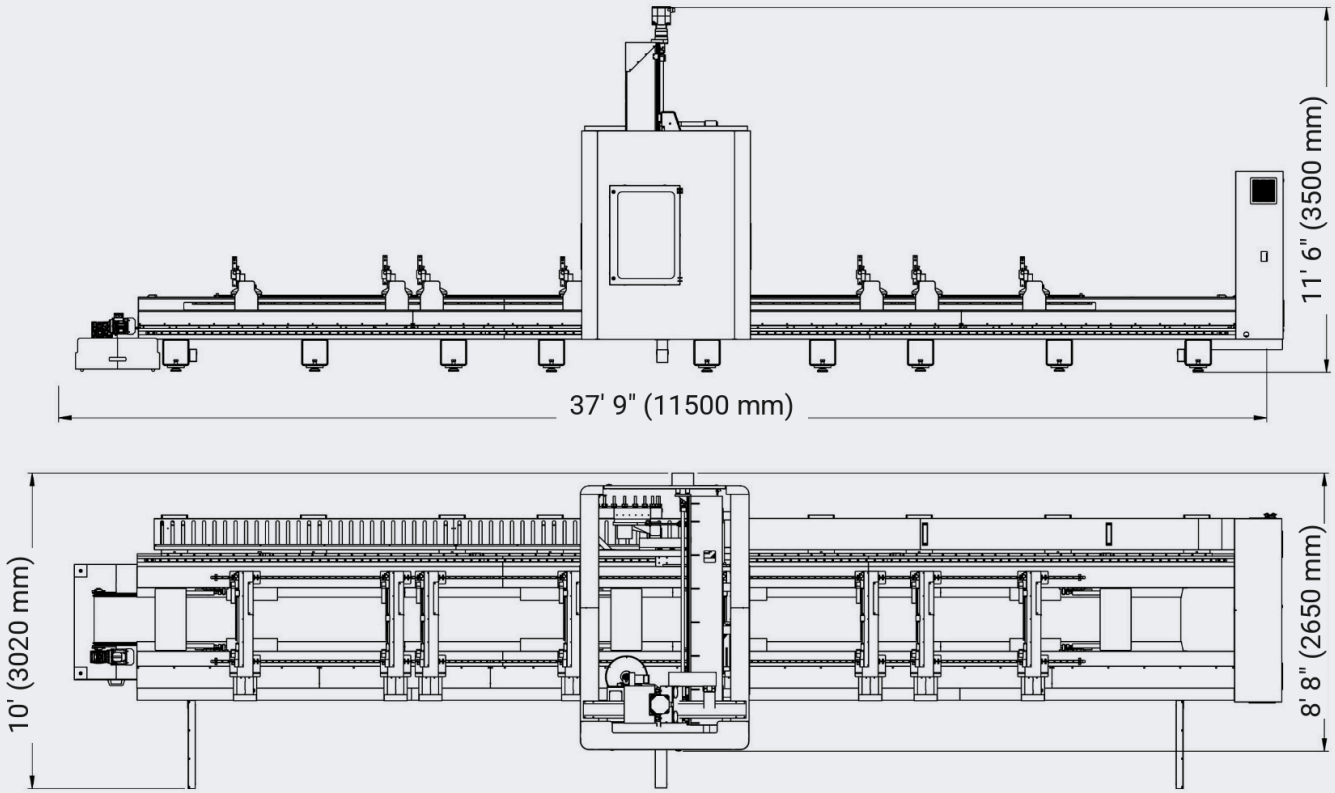
Maximum power	50 kW
Voltage	220V 3P, 60 Hz
Air pressure	100 psi

GARNET 5X

CNC Profile Machining Center (5 Axis)

OZ MACHINE USA

LAYOUT PLAN



Dimensions in feet and inches (millimeters). Front and top views.

OZ MACHINE USA
2690 West 3rd Court, Hialeah, FL 33010
+1 833-390-0060 (toll-free) · sales@ozmachineusa.com

USA · CANADA · MEXICO

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