OZ MACHINE USA

GARNET 8000

CNC Profile Machining Center (4 Axis)



For long and industrial profiles: 315" of X travel, an 8 kW spindle that works at any angle between 0° and 180°, and a 20-tool rotary magazine that travels with the gantry to keep tool changes short. Milling, drilling, tapping and end milling on aluminum profiles up to 22.8" x 11.4", and light steel profiles up to 3/16" (5 mm).

315"	8 kW	20 tools	0–180°
X-axis travel	Spindle, 24,000 rpm	Rotary magazine	Spindle angle

KEY FEATURES

+ Machining capacity 22.8" x 11.4"
+ Machines light steel profiles up to 3/16" (5 mm)
+ FANUC CNC control, 15" HMI, remote access
+ 8 clamps standard (10 max.), automatic positioning
+ 7" saw blade in the tool magazine
+ Full guard cabin, automatic lubrication

WATCH IT RUN
GARNET 8000 video on the Oz Machine USA YouTube channel
youtu.be/aW6p0BYh5Og

Max. power	Voltage	Speeds	Air
18.3 kW / 48 A	220V 3P, 60 Hz	295 / 197 / 66 ft/min	100 psi

TECHNICAL DATA

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MACHINING LENGTHS

X axis (longitudinal)	315.0" (8000 mm)
Y axis (lateral)	22.8" (580 mm)
Z axis (vertical)	11.4" (290 mm)
A axis (head rotation)	0°–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	8 kW
Maximum rotation speed	24,000 rpm
Tool holder	ISO 30
Cooling	Liquid cooling (chiller)

TOOL STORAGE

Rotary tool magazine, moves with the gantry	●
Maximum number of tools	20
Maximum saw blade diameter in the magazine	7"

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	●
Light steel profiles, max. wall thickness	3/16" (5 mm)

CONTROL UNIT

FANUC CNC control	●
HMI touchscreen	15"
Remote access	●
Data transfer via remote network, Ethernet and USB	●
Barcode reader	○
Smart CAM post processing	●

OPERATIONAL AREA

Clamps, standard	8
Clamps, maximum	10
Automatic clamp positioning on X axis	●
Automatic lubrication in machining area	●
Full guard cabin for machining area	●

AIR & ELECTRICAL

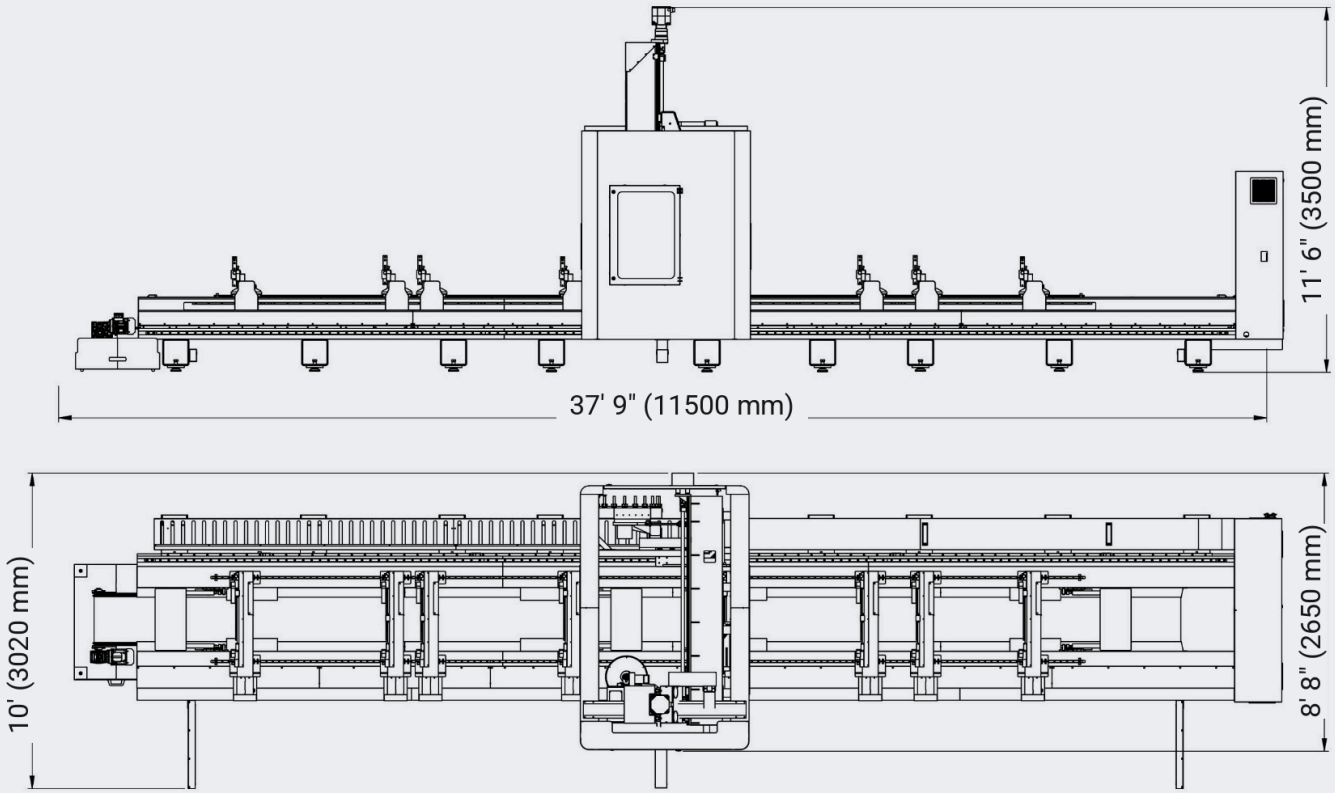
Maximum power / current (220V)	18.3 kW / 48 A
Voltage	220V 3P, 60 Hz
Air pressure	100 psi

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LAYOUT PLAN



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

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