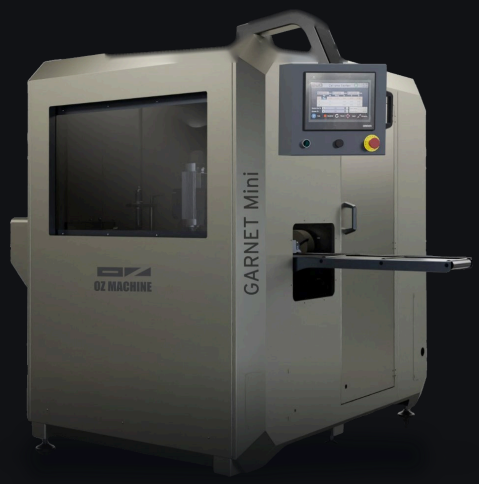
OZ MACHINE USA

GARNET Mini

3 Axis NC Compact Profile Machining Center



A compact machining center with parametric program templates for drilling and milling aluminum and vinyl profiles. Three independent spindles on top, bottom and side mean the operator never has to turn the profile.

3 spindles	**18,000** rpm	**13.8"**	**10"**
Top, bottom, side	Spindle speed	X-axis travel	HMI touchscreen

KEY FEATURES

- Parametric templates: no CAM knowledge needed
- 4 pneumatic clamps (2 top, 2 front)
- 10" HMI touchscreen, USB data transfer
- Right and left profile gauge
- Laser positioning pointer
- Guard cabin, automatic lubrication

WATCH IT RUN
GARNET series overview on the Oz Machine USA YouTube channel
youtu.be/rVBSPCAhYpc

Max. power	Voltage	Air	Dimensions · Weight
12 kW / 31 A	220V, 60 Hz	1.5 CFM · 100 psi	114 x 92 x 80" · 1,764 lb

TECHNICAL DATA

GARNET Mini

3 Axis NC Compact Profile Machining Center

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MACHINING LENGTHS

X axis (longitudinal)	13.8" (350 mm)
Y axis (lateral)	5.9" (150 mm)
Z axis (vertical)	4.7" (120 mm)

POSITIONING SPEED

X / Y / Z axes	98 ft/min (30 m/min)

SPINDLES

Spindles with cooling fan (top, bottom, side)	3
Power, each spindle	3 kW (4 HP)
Maximum rotation speed	18,000 rpm
Tool holder	ER 20
Weep hole motor	○

PROFILE DIMENSIONS

Length, max. / min.	– / 26" (660 mm)
Width, max.	5.9" (150 mm)
Height, max.	4.7" (120 mm)

PROFILE REFERENCING & CLAMPING

Right and left profile gauge	●
Right and left pneumatic profile reference alignment	●
Laser positioning pointer	●
Pneumatic clamps (2 top, 2 front)	4

TOOLING

Milling cutters, 3 × 1/4" (6 mm)	●
Milling cutter set 3/16", 1/4", 5/16", 3/8"	○

CONTROL UNIT

HMI touchscreen	10"
Parametric program templates	●
Data transfer via USB	●
Smart CAM post processing	○

OPERATIONAL AREA

Guard cabin for machining area	●
Automatic lubrication in machining area	●

AIR & ELECTRICAL

Voltage	220V, 60 Hz
Maximum power	12 kW / 31 A
Air pressure	100 psi
Air consumption	1.5 CFM

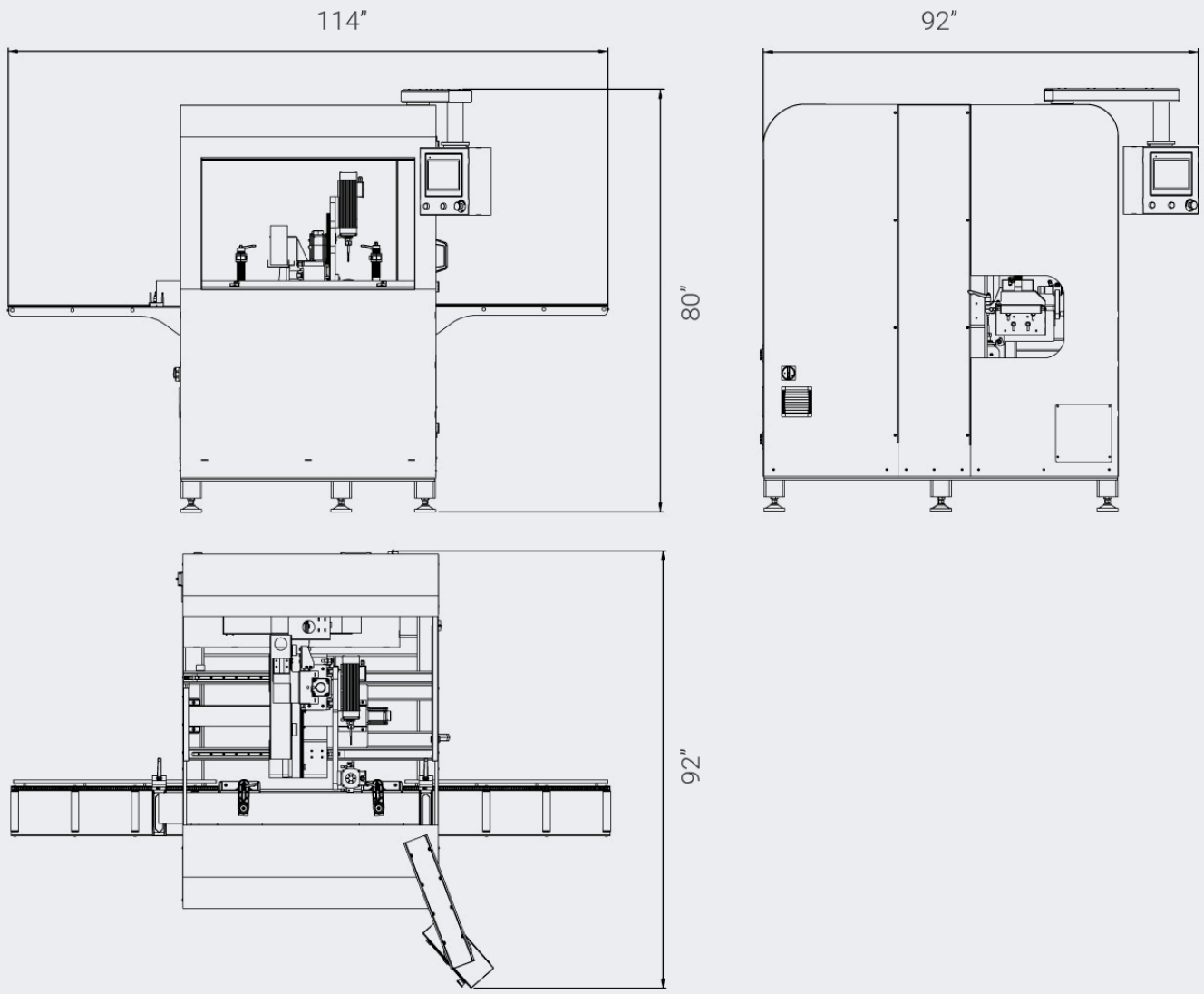
● Standard ○ Optional

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LAYOUT PLAN



Dimensions in inches. Overall machine size 114 x 92 x 80" (l x w x h), 1,764 lb.

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