OZ MACHINE USA

GARNET Mini with Digital Stop

Semi-Automatic Servo-Controlled Profile Gauge



The GARNET Mini compact machining center with a servo-controlled digital stop. Enter the length on the screen and press GO: the stop moves into position for automatic referencing on profiles up to 118" (3000 mm).

118"	**3** spindles	**18,000** rpm	**10"**
Digital stop travel (XL)	Top, bottom, side	Spindle speed	HMI touchscreen

KEY FEATURES

- + Servo-controlled digital stop
- + Right and left profile gauge
- + Laser positioning pointer
- + Parametric templates: no CAM knowledge needed
- + 4 pneumatic clamps (2 top, 2 front)
- + 10" HMI touchscreen, USB data transfer

WATCH IT RUN
GARNET Mini with Digital Stop video on the Oz Machine USA YouTube channel
youtu.be/7ik6YeuXu2Y

Spindles	Voltage	Air	Max. power
3 × 3 kW · 18,000 rpm	220V, 60 Hz	1.5 CFM · 100 psi	12 kW

TECHNICAL DATA

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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)
XL axis (digital stop)	118" (3000 mm)

POSITIONING SPEED

X / Y / Z axes	98 ft/min (30 m/min)
XL axis	131 ft/min (40 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)

DIGITAL STOP

Servo-controlled profile stop	●
Automatic referencing length, max.	118" (3000 mm)
Machine width without / with control panel arm	75" / 92"

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
Air pressure	100 psi
Air consumption	1.5 CFM

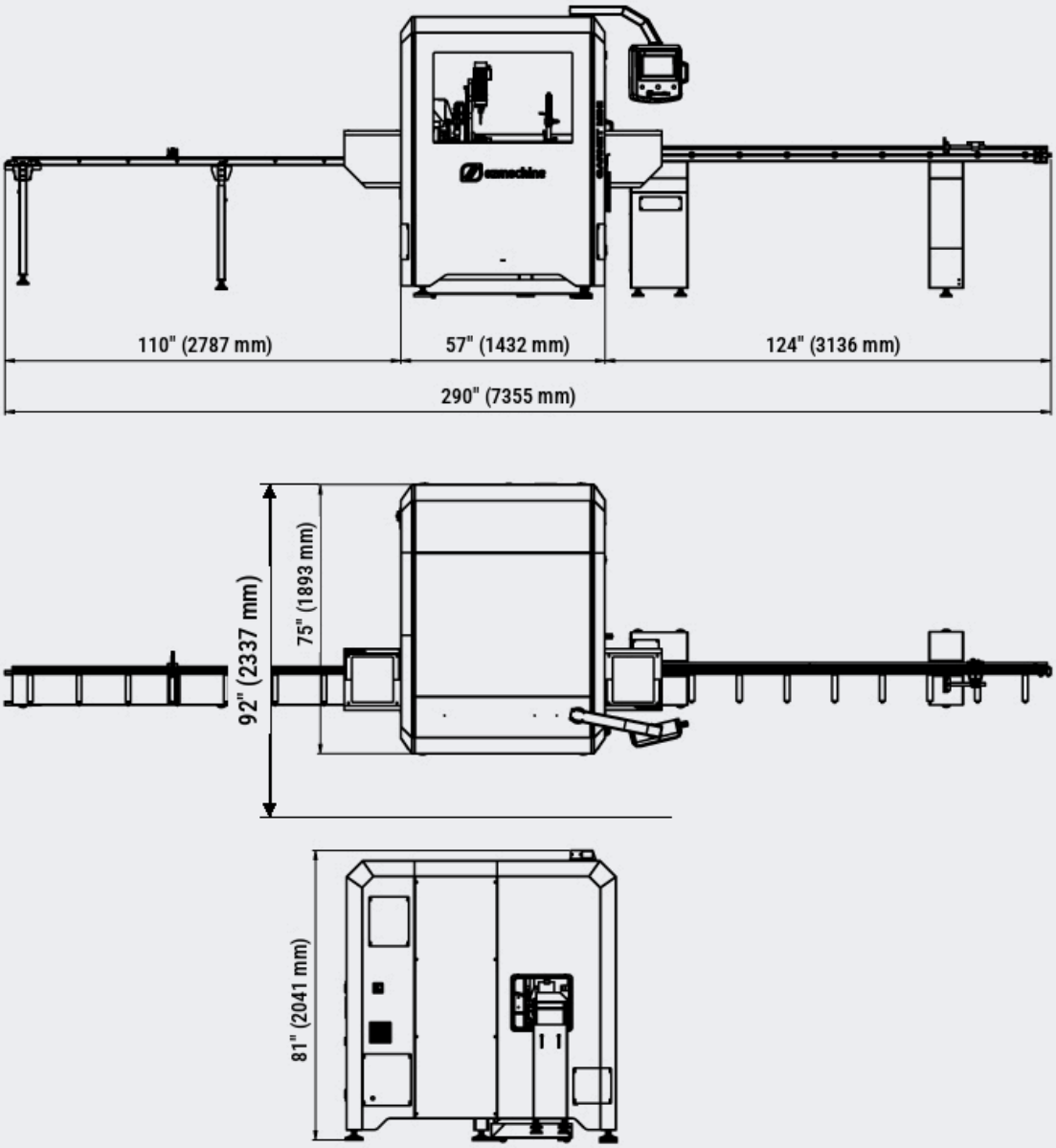
● Standard ○ Optional

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LAYOUT PLAN



Dimensions in inches (millimeters). Width 75" (1893 mm) without the control panel arm, 92" (2337 mm) with the arm.

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