

GARNET Mini with COMET Plus



Semi-Automatic Servo Controlled Automatic Profile Feeding



FEATURES

Our COMET PLUS Gripper/Pusher, a semi-automatic, servo-controlled profile feeder compatible with our GARNET Mini machine, automatically positions operations located in different areas of the profile. It can feed profiles up to 13' in length. The two handwheels on it allow for manual movement of the gripper at the end of the robot—left-right and up-down. Thanks to its servo-controlled structure, it performs positioning automatically, quickly, and precisely.

After connecting the COMET PLUS machine to the GARNET Mini, the profile is first placed into the machine. Then, the operator enters the robot's position on the screen and presses the "GO" button; the robot automatically moves to the specified position. Once positioning is complete, the operator manually adjusts the gripper according to the profile's location using the handwheels on the robot. The operator then manually pushes the profile toward the gripper opening and activates the sensor by pushing the pin at the gripper's mouth backward, allowing the robot to grip the profile.

At the same time, the pistons near the processing area are automatically activated and close. After placing the profile, the operator selects the desired operation from the five standard options available on the machine's automation screen. Once selected, the operations are performed automatically. After completion, the profile is retrieved from the left side of the machine and prepared for the next step.

Standard Equipment

- Pneumatic Clamps (2 pcs top, 2 pcs front)
- 3 piece 1/4" milling cutters
- Right and left profile gauge
- Laser marking

Optional Equipment

- 3/16", 1/4", 5/16" and 3/8" milling cutters

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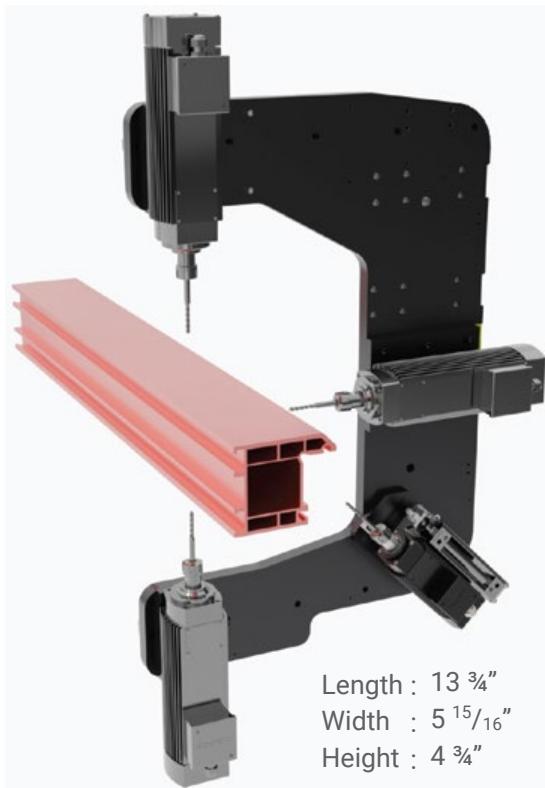
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HP kW	n	Hz	I (230 V)	HP kW	n	Hz	I (230 V)	∅ D max.	H	X	Y	Z	Air Pressure	Air Consumption	Gross Net
4 3	18000 r.p.m	300	7 A	1 0,75	3000 r.p.m	50	4,6 A	1/2"	4 5/8"	13 3/4"	5 15/16"	4 3/4"	100 psi	11 Gal / min.	2200 lbs 1764 lbs

PROCESSING CAPACITY & MILLING BIT DIMENSIONS



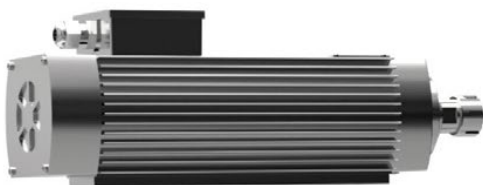
STANDARD PROCESSING

Key Hole

TOP BACK BOTTOM ID 2002 2000

Description
Profile Type
Profile Name

Y 35.000 mm Depth 2.000 mm Spindle Speed 10000 RPM
Z 60.000 mm Diameter 25.000 mm Step 0.000 mm
Length 35.000 mm
Width 10.000 mm CCW
Angle 0.00 0 90 180 270



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MACHINING LENGTHS

X Axis (Longitudinal)	13 ³ / ₄ " (350mm)
Y Axis (Lateral)	5 ¹⁵ / ₁₆ " (150mm)
Z Axis (Vertical)	4 ³ / ₄ " (120mm)
XL Axis	157 ¹ / ₂ " (4000 mm)

POSITIONING SPEED

X Axis (Longitudinal)	98' (30m) / min
Y Axis (Lateral)	98' (30m) / min
Z Axis (Vertical)	98' (30m) / min
XL Axes(Driver Robot)	131' (40m) / min

SPINDLE

Spindle with Cooling Fan	3
Maximum Power	5 kW
Maximum Rotation Speed	18.000 rpm
Tool Holder	ER 20

PROFILE POSITIONING

Xmax / Xmin (Longitudinal)	- / 26"
Ymax / Ymin (Lateral)	5 ¹⁵ / ₁₆ " / -
Zmax/ Zmin (Vertical)	4 ³ / ₄ " / -

PROFILE POSITIONING

Right and Left Profile Gauge	•
Laser Marking	•

PROFILE POSITIONING

Right and Left Pneumatic Profile Reference Alignment	•
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AIR

Pressure	6-8 Bar
Consumption	11 Gal / Min

ELECTRICAL

Maximum Power	12 kW
Voltage	220V
Frequency	50 – 60 Hz

CONTROL UNIT

HMI Touchscreen	10"
Data Transfer via USB	•
Smart CAM Post Processing	○

OPERATIONAL AREA

Clamps, standard quantity	4
Automatic Lubrication in Processing Area	•
Guard Cabin for Machining Area	•
Laser Marking	•

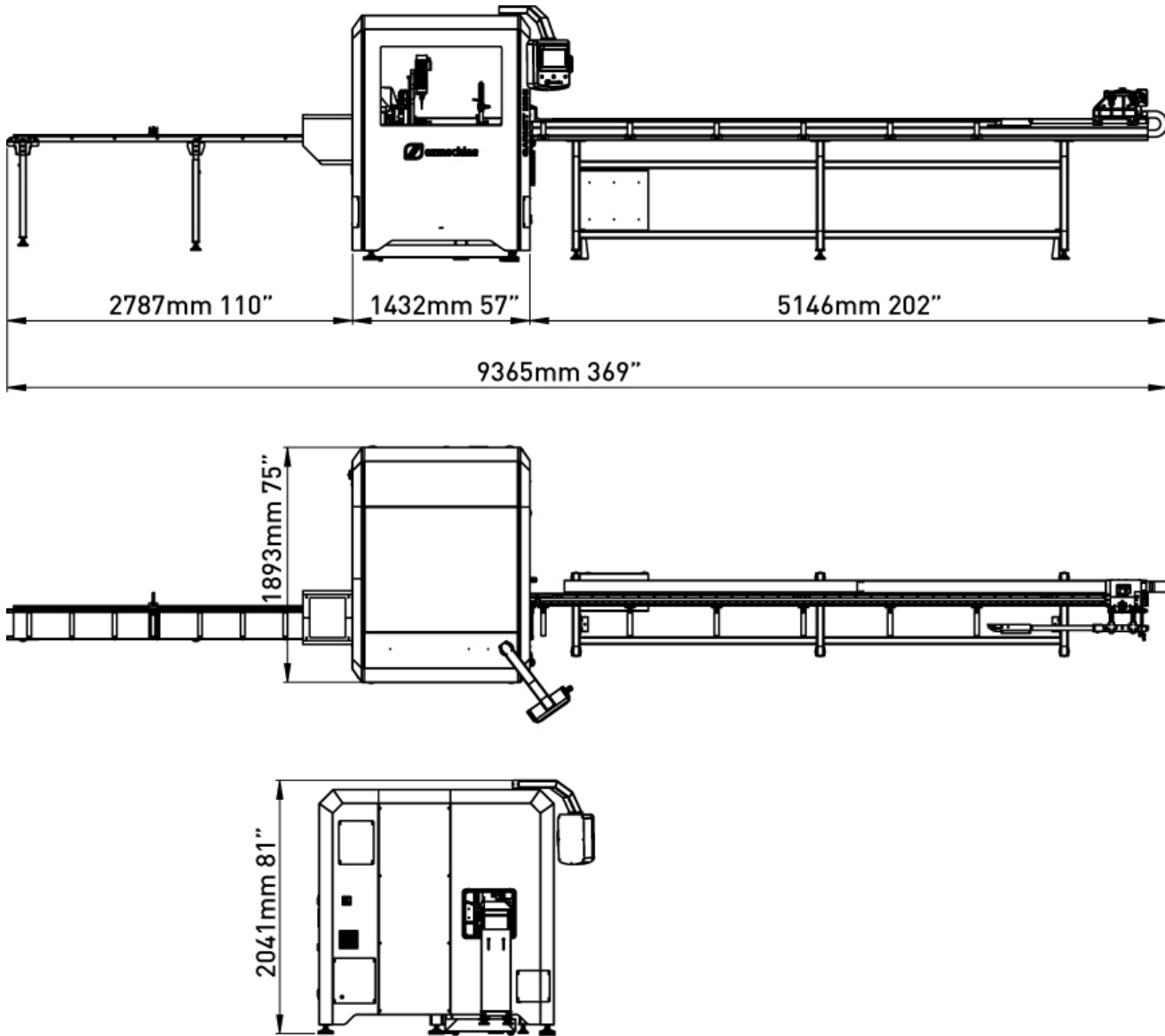
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DIMENSIONS



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