



LEADCNC

Serial No: 1

Name: Aluminium 4-axis Machining Center

Model: Emerald F260

## Product Information



- The Emerald F260 aluminum manufacturing machine is a 4-axis profile machining center.
- The Emerald F260 4-axis machining center is designed for machining aluminum and light alloy profiles.
- Gantry-type structure with a high-strength frame, heat aging, and annealing treatment ensures superior rigidity and stability.
- The milling head, equipped with appropriate tools, can drill at any position within a range of  $90^{\circ}$  to  $0^{\circ}$  to  $-90^{\circ}$ .
- The machine efficiently completes milling, drilling, flexible tapping, grooving, and steel drilling (up to 3mm thickness) with high precision in a single operation. Profiles are conveyed with precise stationary support to prevent damage.
- Incorporates high-precision linear guideways, ball screws, gear racks, and servo motors, ensuring smooth motion, accurate positioning, and high-precision processing.
- Equipped with a high-quality imported automatic tool changer based on an automated travel magazine, minimizing tool change time and rotation noise while maximizing stability, precision, and cutting performance.
- The magazine includes 9 standard tool positions and features adjustable pneumatic special fixtures for efficient processing.
- Double working zones support two types of profile loading, enabling sequential milling, interactive feeding, and non-interference operation.



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- Multiple safety protection mechanisms ensure operator safety.
- Features an automatic clamp positioning function.
- It can seamlessly integrate with ERP or design software, allowing easy retrieval of machining information through Barcode scanning.
- Includes UPS and AC to protect the operating system.
- Remote maintenance can be performed via the Internet.



90° Drilling and Milling



45° Drilling and Milling



Tool Storage Magazine



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## Product Specification

Machining Specifications	Parameter Value
Processing Length/Traverse path X-axis	7,000/9,000/12,000mm
Travel Workpiece Dimensions for Top Surface Machining	W*H= 600 × 260 mm
Work piece Dimensions for Three-Sided Machining	W*H= 400 ×260 mm
A-Axis Rotation Range	±90
Machining Precision	Parameter Value
Positioning Accuracy	± 0.03 mm
Positioning accuracy X-/Y-/Z- axis	± 0.1 mm
Positioning accuracy A-axis	± 0.1°
Technical Parameters	Parameter Value
Tool Magazine	9
Clamp	8
Spindle/Tool Holder Specification	ISO30 S1=7.5KW S6=9.5KW 24000rpm
Saw Blade Diameter	Φ 80 ~ Φ 150 mm
X-Axis Travel Speed	0~60m/min
Y Z-Axis Travel Speed	0~30m/min

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General Parameters	Parameter Value
Machine size (L ×W × H)	12000 × 2200 × 2900 mm
Machine weight	4,300KG
Air pressure	0.5-0.8MPa
Power supply	400V 50HZ 15KW
Air consumption per minute approx	200L with spraying

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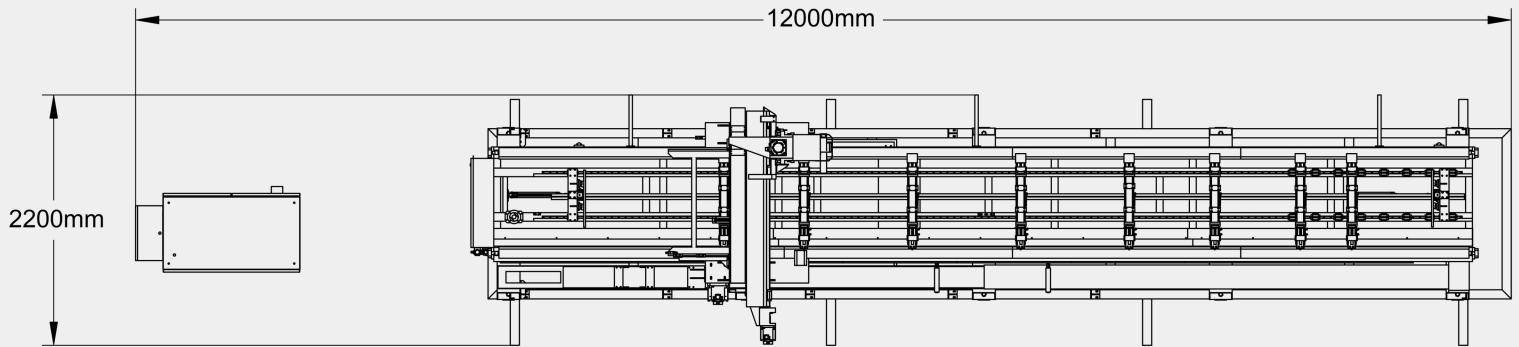
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## LAYOUT



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