LEADCNC

Product Information

Serial No: 1

Name:Aluminium 4-axis Machining Center

Model: Emerald F260



·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° to 0° to -90°.

·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.

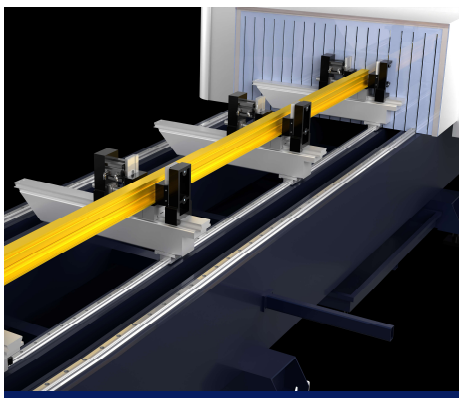
·It can seamlessly integrate with ERP or design software, allowing easy retrieval of machining information through Barcode scanning.

·Includes UPS and AC to protect the operating system.

·Remote maintenance can be performed via the Internet.



90° DRILLING AND MILLING



DEDICATED CLAMPS



TOOL STORAGE MAGAZINE

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Product Specification

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Machining Specifications	Parameter Value
Traverse path X-axis	7,000 (9,000/12,000 mm- optional)
Travel Workpiece Dimensions for Top and other Surface Machining	W*H= 600 × 260 mm
Work piece Dimensions for Three-Sided Machining	W*H= 400 ×260 mm
Travel Workpiece Dimensions for Top Surface Machining	W*H=900*260mm
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=9kW 24,000rpm
Laser Power (optional)	3KW
Saw Blade Diameter	Φ 80 ~ Φ 150 mm
X-Axis Travel Speed	0~90m/min
Y & Z-Axis Travel Speed	0~30m/min

LEADCNC Machinery Co., Ltd

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Name:Aluminium 4-axis Machining Center

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Product Specification

General Parameters	Parameter Value
Machine size (L ×W × H)	9,000 × 1,800 × 2,200 mm
Machine weight	4,300KG
Air pressure	0.5-0.8MPa
Power supply	16.5 kW 380V 50HZ
Air consumption per minute approx	60L/min

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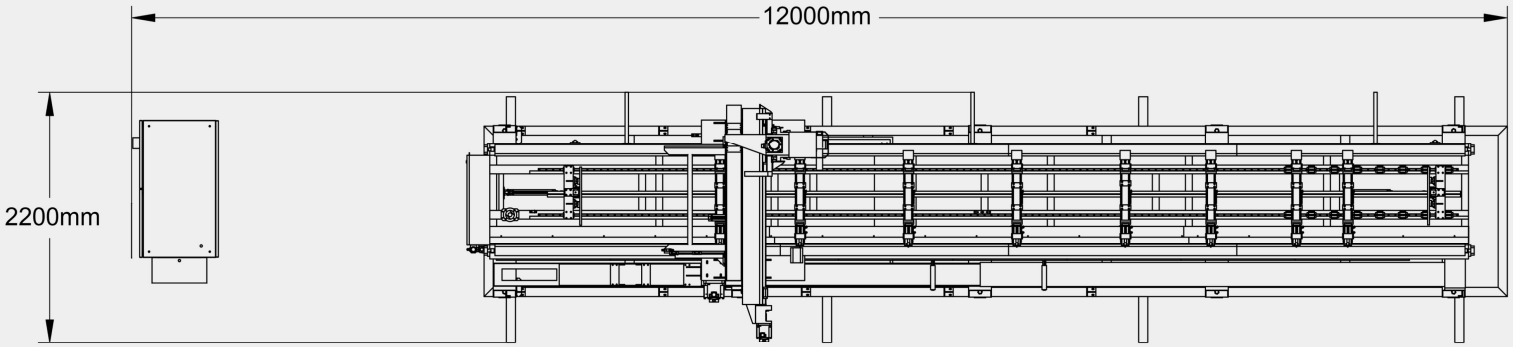
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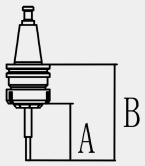
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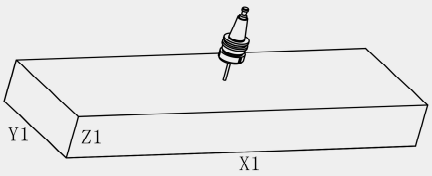
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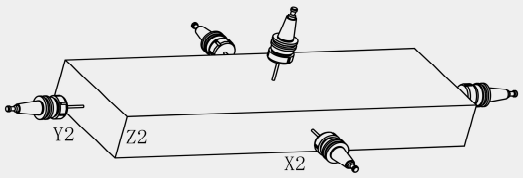
LAYOUT



MACHINING AREA OF THE MILLING UNIT







	A	B	X1	Y1	Z1	X2	Y2	Z2
Single workpiece	63	113	7000	600	260	7000	400	260
Alternate Mode	63	113	3450	400	260	3450	400	260

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