



LEADCNC

Serial No: 1

Name: Aluminium 5-axis Machining Center

Model: Emerald F550

Product Information



- The Emerald F550 aluminum manufacturing machine is a 5-axis profile machining center.
- The Emerald F550 5-axis machining center is designed for machining aluminum and light alloy profiles.
- It features a moving beam and moving column gantry frame structure, ensuring more stable movement and enhancing the machine's machining rigidity.
- Utilizes high-quality imported components such as servo motors, ball screws, linear guides, and bearings to ensure exceptional processing accuracy, stability, and reliability. The feed movement is pre-stretched to maintain consistent machining precision.
- The moving tool magazine ensures quick tool changes, enhancing production efficiency, and includes an additional specialized 500mm saw blade capable of multi-angle cutting.
- Features a pneumatic clamping worktable, enhancing loading and unloading efficiency.
- Equipped with two independent working zones to enhance production efficiency.
- Includes UPS and AC to protect the operating system.
- It can seamlessly integrate with ERP or design software, allowing easy retrieval of machining information through Barcode scanning.
- Remote maintenance can be performed via the Internet.



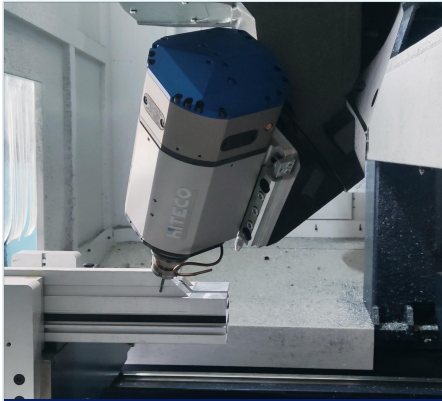
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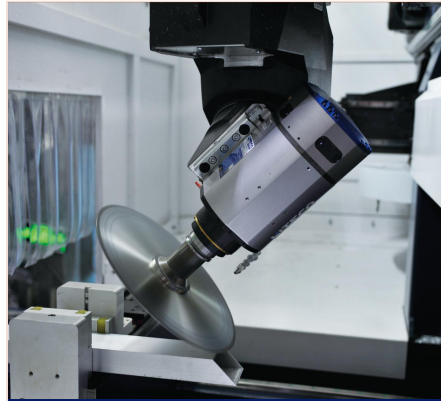
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Product Information



Drilling and Milling



Sawing



Tool Magazine



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Product Specification

Machining Specifications	Parameter Value
Processing Length	7,000/9,000/12,000mm
Travel Workpiece Dimensions for Top Surface Machining	W*H= 900 × 300 mm
Work piece Dimensions for Three-Sided Machining	W*H= 600 ×300 mm
A-Axis Rotation Range	135°
C -Axis Rotation Range	±320°
Machining Precision	Parameter Value
Positioning Accuracy	± 0.03 mm
Positioning accuracy X-/Y-/Z- axis	± 0.1 mm
Positioning accuracy A-/C- axis	± 0.1°
Technical Parameters	Parameter Value
Tool Magazine	12-18
Clamp	8
Spindle	HSK-63F S1=15KW S6=17KW 24,000rpm
Saw Blade Diameter	Φ350 ~ Φ500 mm
X-Axis Travel Speed	0~60m/min
Y-Axis Travel Speed	0~30m/min
Z-Axis Travel Speed	0~30m/min
A-C-Axis Max Speed	120°/S

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General Parameters	Parameter Value
Machine size (L ×W × H)	12,000 ×2,900×3,200 mm
Machine weight	11,000KG
Air pressure	0.5-0.8MPa
Power supply	400V 50HZ 25KW
Air consumption per minute approx	260L with spraying

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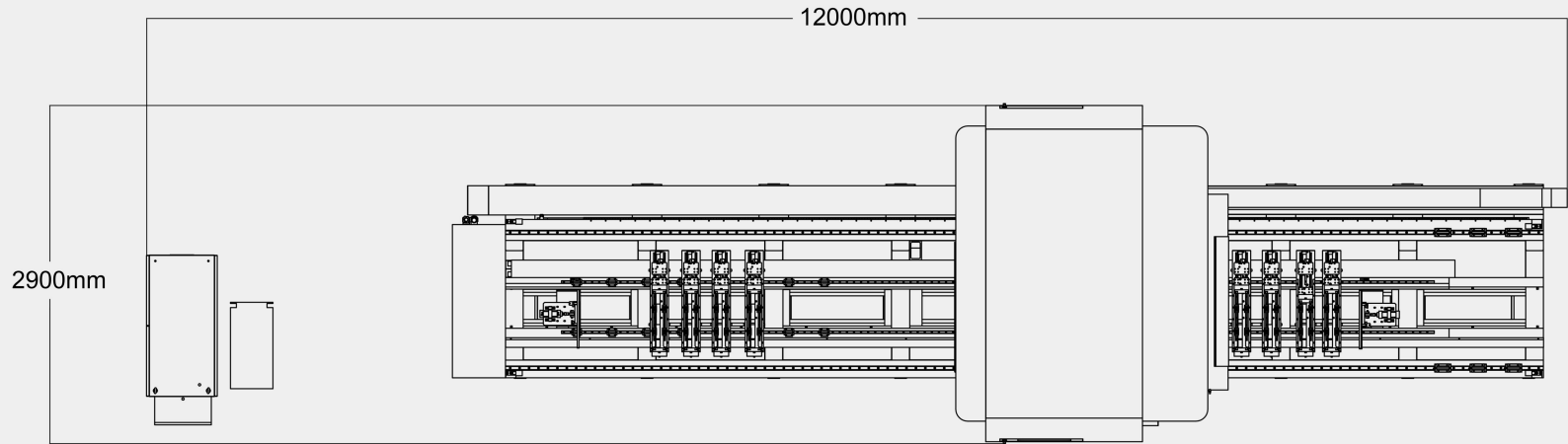
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LAYOUT



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