



LEADCNC

## Product Information

Serial No: 1

Name: Three axis machining center

Model: Emerald T300



### **User-Friendly Operation:**

Equipped with connectivity to ERP or other software systems, allowing automatic loading of machining information via barcode scanning for streamlined processing.

### **Application:**

Suitable for machining operations such as installation holes, handle holes, locking holes, and end milling on profiles.

### **Gantry Frame Structure:**

Ensures smoother operation with a high running speed of up to 60 meters per minute.

### **Stability and Precision:**

Features flat guide rails on all axes and high-quality imported components, including servo motors, ball screws, linear guides, and bearings, ensuring high stability and reliability. The machine employs a five-point support system for enhanced stability.

### **Powerful Electric Spindle:**

Equipped with an original Italian electric spindle with a speed of up to 24,000 RPM, delivering excellent performance for high-speed milling, drilling, and tapping.

### **Tool Magazine:**

A six-tool magazine design ensures fast tool changes with high precision.



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### **Intelligent Clamping System:**

Supported by advanced software, the clamps can be automatically positioned and freely combined, making it easier to machine various workpieces.

### **Dual Work Zones:**

The dual work zone design allows for interactive loading and unloading without stopping the machine. It can simultaneously clamp four workpieces, greatly improving efficiency.

### **Lubrication:**

Adopts an advanced micro-lubrication system, creating a more eco-friendly and energy-efficient working environment.

### **Safety Protection:**

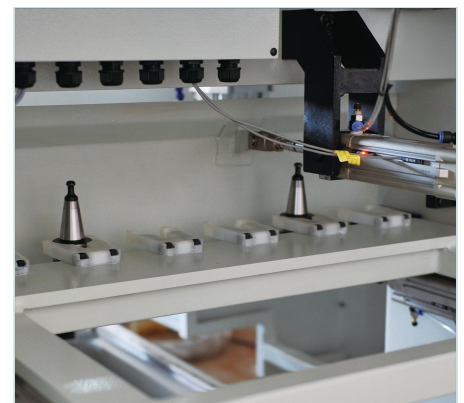
Features user-friendly infrared safety protection to ensure operator safety.



High precision machining



Close-up for the electric spindle



Close-up for tool storage magazine



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Machining Specifications	Parameter Value
Traverse path X-axis	7,000/9,000/12,000/15,000mm
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
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	4500KG
Air pressure	0.5-0.8MPa
Power supply	15 KW 400V 50HZ
Air consumption per minute approx	200L with spraying

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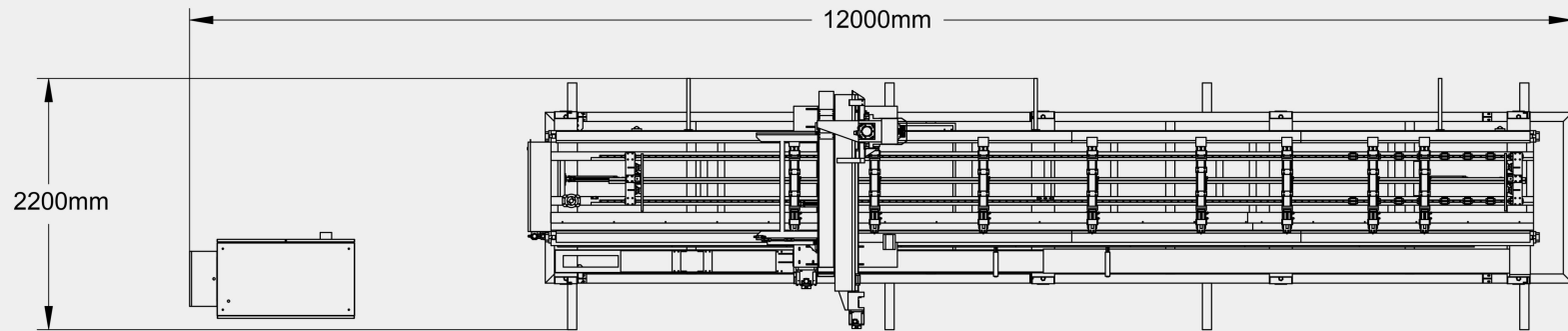
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## LAYOUT



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