



LEADCNC

Product Information

Serial No: 1

Name: 3-Axis CNC Machining Center

Model: Emerald T300



Emerald T300 3-Axis CNC Machining Center

Model: Emerald T300

Designed for high-precision milling, and machining of aluminum and light alloy profiles, Suitable for profile mounting holes, drainage holes, lock holes, special-shaped holes, end milling and other processing procedures

Key Features:

User-friendly operation: Fully integrated with ERP software for seamless barcode scanning and automatic machining, enabling simple and efficient operation.

Gantry-style frame: Ensures smoother operation with high running speeds up to 60 meters per minute.



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Outstanding stability and precision: All axes are equipped with flat linear guides and high-quality imported servo motors, ball screws, linear guides, and bearings, providing excellent reliability and machining accuracy. The machine adopts a five-point support structure for enhanced overall stability.

High-performance electro-spindle: Equipped with an original Italian HSD electro-spindle with speeds up to 24,000 rpm, delivering exceptional efficiency for high-speed milling, drilling, and tapping.

Tool magazine: A well-designed 9-position tool magazine ensures rapid tool changes with high repeatability and accuracy.

Advanced control system: Utilizes a German PA control system with an intuitive interface and unique AI contour control. This advanced function guarantees high machining accuracy at high cutting speeds while preventing tool path errors and maintaining smooth acceleration and deceleration.

Flexible clamping: Features a pneumatic clamping table with manually adjustable fixtures that can be freely combined for convenient and efficient workpiece setup.



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Serial No: 3

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Dual working zones: The dual-zone design allows alternate loading and unloading without stopping the machine, enabling simultaneous clamping of up to four workpieces for maximum productivity.

Eco-friendly lubrication: An advanced micro-lubrication system improves the working environment and promotes energy savings and environmental protection.

Safety protection: Equipped with user-friendly infrared safety protection to ensure operator safety at all times.



High precision machining



Close-up for the electric spindle



Close-up for tool storage magazine



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Serial No: 4

Name: 3-Axis CNC Machining Center

Product Specification Model: Emerald T300

Machining Specifications	
X-axis stroke	7,000/9,000/12,000mm
Y-axis stroke	800mm
Z-axis stroke	300mm
X-axis travelling speed	0~60m/min
Y-axis travelling speed	0~30m/min
Z-axis travelling speed	0~30m/min
Positioning accuracy	±0.03mm
Repeat positioning accuracy	±0.01mm
Cutting surface roughness	Ra12.5μm
Spindle	7.5KW
Type of tool magazine	Bucket hat type
Tool magazine capacity	9pcs
Lubrication/cooling system	Automatic
Clamp	8
End milling saw blade diameter	Φ80~Φ150mm

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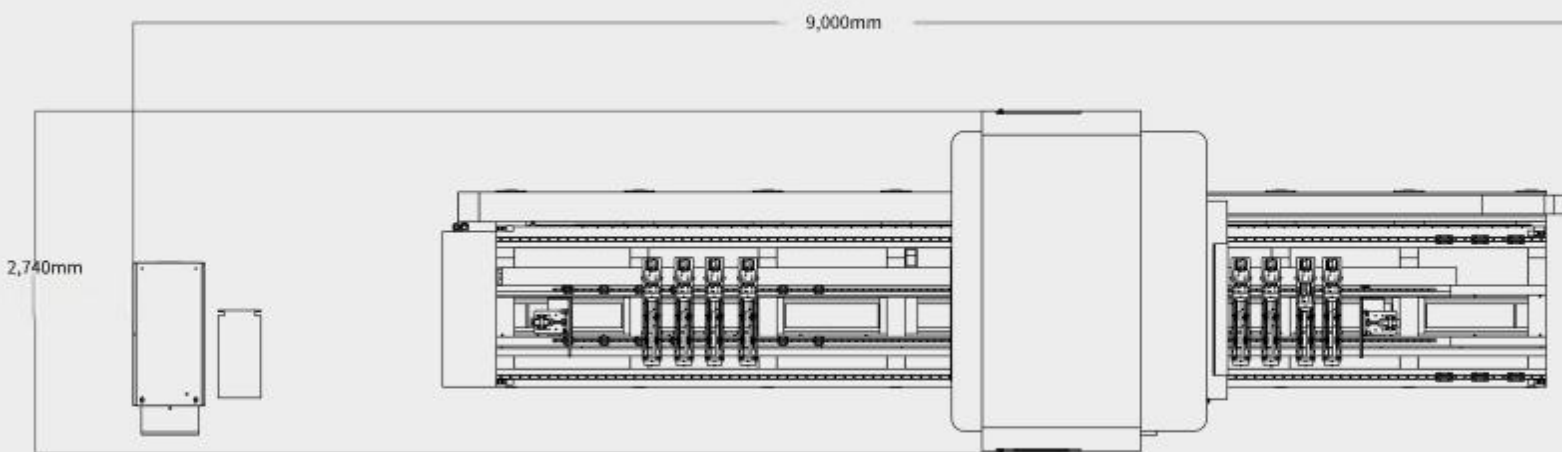
Serial No: 5

Name: 3-Axis CNC Machining Center

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General Specifications	
Power	16.5KW
Power supply	380V/50Hz
Air pressure	0.5-0.8Mpa
Air consumption	60L/min
Weight	4,300kg
Overall Dimension	9,000×2,740×2,700mm

LAYOUT



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