



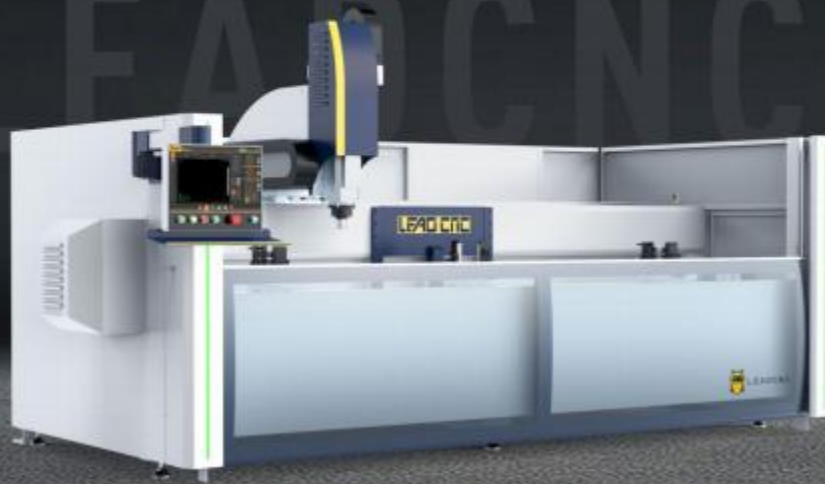
LEADCNC

Product Information

Serial No: 1

Name: 3+1 AXIS CNC Machining Center

Model: Emerald T140A



This machining center is specially designed for high-precision and fast processing of aluminum profiles.

Rotatable Worktable: Capable of milling three sides in a single clamping process.

User-Friendly Operation:

1. No skilled workers required. Features software connectivity and automatic data loading via barcode scanning.
2. Includes a standard graphics library for direct import of designs to generate machining programs.

High Efficiency: Equipped with a 9.5KW Italian electric spindle, delivering high torque. The milling efficiency is twice that of a standard drilling and milling machine and eight times that of a conventional copy milling machine.

Simplified Process: Features an automatic tool changer with a standard 6-position tool magazine.

Unique Chip Removal Design: Equipped with a bottom chip tray for a cleaner workspace.

Enhanced Safety: Enclosed protective cover with automatic lifting, ensuring high safety standards.

Double-Layer Shock-Absorbing Clamps: Facilitates machining of irregular profiles, reducing vibration and noise. Includes four clamps.



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Serial No: 2

Name: 3+1 AXIS CNC Machining Center

Model: Emerald T140A

Product Information

Automatic Lubrication: Comes standard with a guide rail and screw automatic lubrication system, extending the machine's service life.

Tool Management System: Includes a tool life management system with automatic replacement reminders.

Maintenance Alerts: Standard automatic maintenance reminders help identify potential issues early, improving equipment utilization.

Production and Equipment Monitoring: Features capacity statistics and real-time monitoring of equipment status and time usage. Ensures controllable delivery schedules, reduced inventory, and improved cash flow utilization.

Remote Service Capability: Supports remote maintenance, servicing, and training, saving service time, minimizing downtime, and reducing dependence on skilled workers.

Worktable Automation: A servo motor drives the worktable for automatic rotation, completing three-sided milling in one clamping.

Automatic Clamp Adjustment: Servo-driven automatic positioning of clamps saves time and labor.



SPINDLE



TOOL STORAGE
MAGAZINE



THREE SIDED MILLING
MACHINING



LEADCNC

Product Information

Serial No: 3

Name: 3+1 AXIS CNC Machining Center

Model: Emerald T140A

Machining Parameters	Parameter Value
Max.processing length	3,200mm
Processing profile width	150mm
Processing profile height	150mm
Machining direction	3 (top, rear, front)

Machining Precision	Parameter Value
Processing accuracy	$\pm 0.1 \text{ mm}$
Cutting surface roughness	Ra12.5 μm
Repeat positioning accuracy	$\pm 0.02\text{m}$

Technical Parameters	Parameter Value
Software	PA
Tool Magazine	6 (3 standard, 3 Optional)
Clamp	4
Spindle	9.5KW
X-Axis Travel speed	0~97.5m/min
Y-Axis Travel speed	0~30m/min
Z-Axis Travel speed	0~30m/min
X-axis traverse path	3,200mm
Y-axis traverse path	400mm
Z-Axis traverse path	300mm

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Product Information

Serial No: 4

Name: 3+1 AXIS CNC Machining Center

Model: Emerald T140A

General Parameters	Parameter Value
Power supply	380V/50Hz
Power	16KW
Overall dimensions	4,700×2,100×2,270mm
Machine weight	3,100KG
Air pressure	0.5~0.8Mpa
Air consumption	50L/min
Touch Screen	21',
Bar-code reader	1
multi-language support	Yes

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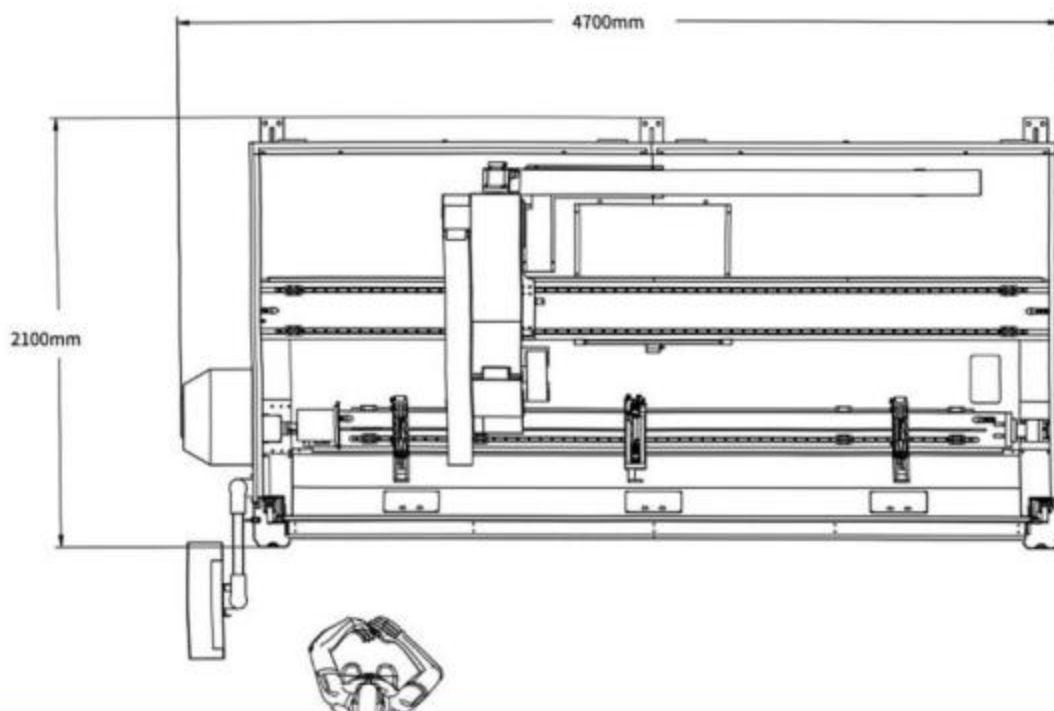
Product Information

Serial No: 5

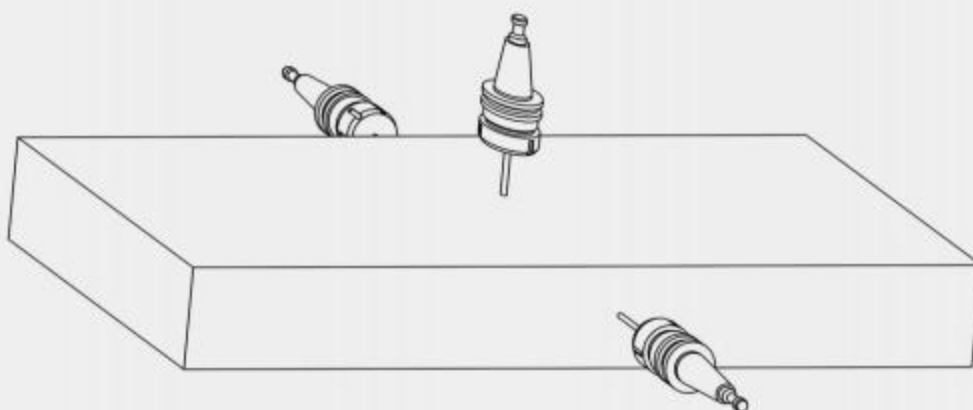
Name: 3+1 AXIS CNC Machining Center

Model: Emerald T140A

LAYOUT



MACHINING AREA OF THE MILLING UNIT



Processing profile length (mm)	450-3200
Processing profile height (mm)	0-150
Processing profile width (mm)	0-150
Workbench working position (mm)	-90°、0°、90°

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