



LEADCNC

Serial No: 1

Name:Laser-Equipped 3+1 Machining Center

Model: Garnet T140A

Product Information



This Machine is Primarily Designed for Milling, Drilling, and Tapping of Aluminum Profiles.

Symmetrical Bed Structure: The bed features a symmetrical welded structure with stress relief treatment to ensure precision and stability.

Automatic Switching: The laser cutting head and electric spindle automatically switch, allowing seamless selection between the spindle and laser head. The efficiency is double that of traditional door and window processing centers. Laser cutting is noise-free and eliminates tool wear.

Servo Rotation: Capable of processing profiles at any angle, including concealed frame drainage holes.

Automatic Clamp Adjustment: Servo-controlled clamps eliminate the need for manual adjustments. Clamps can be positioned freely on the rotating beam to accommodate different workpiece lengths.

Laser Cutting Capability: Equipped with laser cutting functionality for cutting profiles into various shapes.

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.



Product Information

High Efficiency:

1. Equipped with a 9.5kW Italian electric spindle with high torque, delivering more than twice the efficiency of conventional drilling and milling machines.
2. Features a 1.0kW laser cutting head with high cutting efficiency and excellent surface finish.

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

Unique Chip Removal Design: A bottom chip tray ensures a cleaner workspace.

Safety Features: Fully enclosed protective cover with automatic lifting, ensuring high safety standards.

Double-Layer Shock-Absorbing Clamps: Comes with four clamps for machining irregular profiles, reducing vibration and noise.

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

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

Maintenance Alerts: Features automatic maintenance reminders for proactive detection of potential issues, improving equipment utilization.

Production Monitoring: Standard with production capacity and equipment status monitoring, providing real-time control over delivery schedules, reducing inventory, and improving cash flow utilization.

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



Close-up for spindle and
Laser unit



Tool storage magazine



Automatic positioning
for servo-driven clamps



LEADCNC

Serial No: 1

Name:Laser-Equipped 3+1 Machining Center

Model: Garnet T140A

Product Specification

Machining Parameters	Parameter Value
Max.processing length	3,000mm
Processing profile width	140mm
Processing profile height	140mm
Machining direction	3 (top, rear, front)

Machining Precision	Parameter Value
Positioning accuracy	± 0.02 mm
Repeated positioning accuracy	± 0.01mm

Technical Parameters	Parameter Value
Tool Magazine	6
Clamp	4
Spindle	9.6 KW
X-Axis Travel speed	0~60m/min
Y-Axis Travel speed	0~30m/min
Z-Axis Travel speed	0~15m/min
X-axis traverse path	3,200mm
Y-axis traverse path	400mm
Z-Axis traverse path	300mm

LEADCNC Machinery Co., Ltd

www.leadcnc.com

The right to make technical alterations is reserved.



LEADCNC

Serial No: 1

Name:Laser-Equipped 3+1 Machining Center

Model: Garnet T140A

Product Specification

General Parameters	Parameter Value
Machine size (L×W ×H)	4,300×2,300×2,500mm
Machine weight	3,000KG
Air pressure	0.5-0.8MPa
Air consume	380~415V 50HZ,13KW
Air consumption perminute approx	80L with spraying

LEADCNC Machinery Co., Ltd

www.leadcnc.com

The right to make technical alterations is reserved.