



Thunder AccuMetal Series

High Precision Metal Cutting Machine

Faster. Stable. Flexible. Smart



The Professional Platform for High-Precision Metal Cutting

Thunder AccuMetal Series is a professional fiber laser cutting platform designed for precise, efficient, and flexible metal part production. Built for high-quality results and automation-ready growth, it combines accuracy, strong cutting capability, speed, stability, and intuitive control in one industrial-ready solution.

It's deal for precision metal parts,
small-batch production,
customized jobs,
and flexible
manufacturing
workflows.



Working Area

1300*1300 mm
(51.2"×51.2")

610*610 mm
(24"×24")

500 mm/s

Maximum Speed

2G

Maximum Acceleration

German P-Class
Linear Guides

Heavy-Duty
Gantry-Milled
Bed



**High Precision
Metal Cutting
Machine**



1500W

Stable Output

High-Response
Servo System



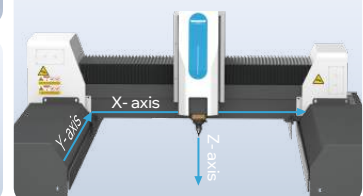
Smart
and Easy
Software



Safety First, Always



Repeat Positioning
 ± 0.02 mm



Compatible Materials



Stainless
Steel



Carbon
Steelre



Aluminum



Brass



Silver



Titanium



Bronze



Alloy Steel

...

6 Core Features of AccuMetal Series

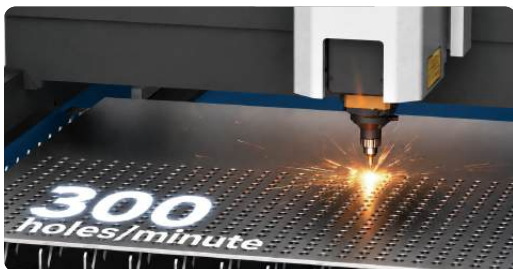
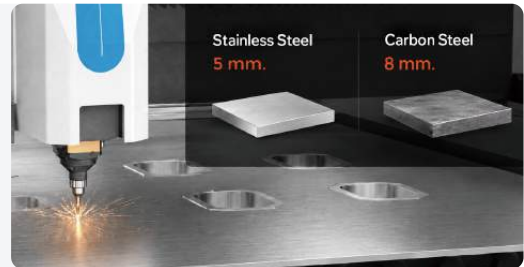


Engineered for Precision

0.02 mm repeat positioning accuracy for consistent, high-quality metal parts.

Built for Powerful Metal Cutting

Powerful cutting capability for versatile metal production, up to 8mm carbon steel and 5 mm stainless steel.



Speed Without Compromise

500 mm/s motion speed with 2G acceleration for faster throughput and responsive cutting.

Built for Long-Term Stability

Optimized system design ensures stable, consistent industrial performance over time.

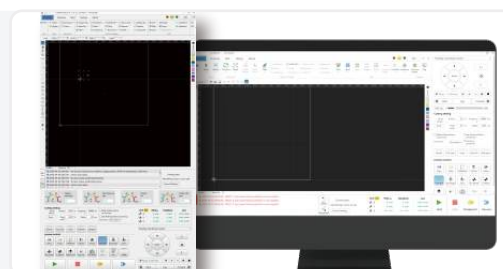


Flexible Production, Automation Ready

Flexible platform for high-mix production with expandable integration capabilities.

Smart Software, Simplified Workflow

Smart cutting functions simplify setup, optimize paths, and streamline daily cutting.



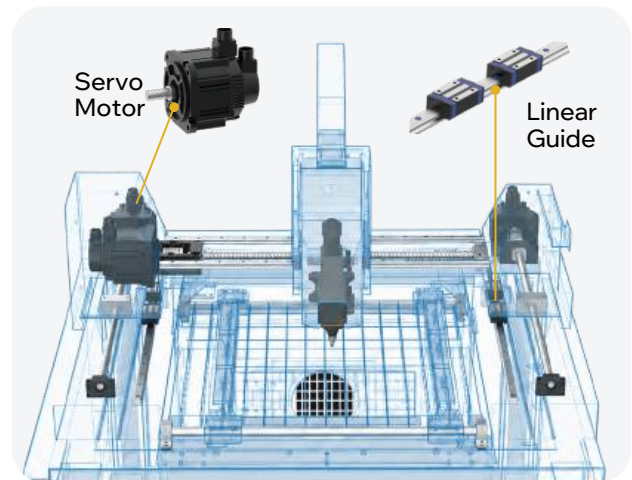
How Stable Precision Is Built In

Rigid Machine Foundation

Heavy-duty modular steel frame and precision-machined gantry base help reduce vibration and support long-term cutting stability.

Precision Motion System

Servo motor drive, high-precision linear guide, and ball screw system ensure smooth, accurate movement for consistent cutting results.



Stable Cutting System

Stable laser output, precision cutting head, and assist gas control help deliver clean edges and reliable penetration.

Smart Control & Safety

Real-time control, safety protection, and automation-ready interface support safer, more controlled production.



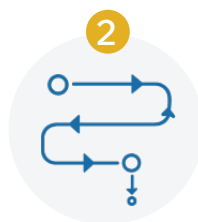
Smart Software, Simplified Workflow

From layout to piercing, AccuMetal Series helps operators reduce manual setup, optimize cutting paths, and achieve cleaner, more consistent metal parts.



Faster Setup

- One-click Nesting
- Automatic Edge Finder



Smarter Cutting Paths

- Intelligent Flowing Cutting
- Shared Edge Cutting
- Lead-in and Lead-out



Cleaner Piercing

- Second-level Piercing
- Piercing Slag Discharge



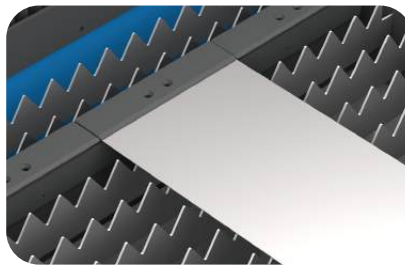
Reliable Production

- Autonomous Obstacle Avoidance
- Traceless Micro-jointing

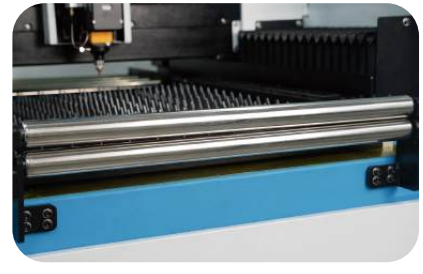
User-friendly Functions



Large Front Opening
for Easy Loading



Precision Thin
Sheet Clamping



Front Pressure Bar
for Sheet & Roll Material

Versatile Applications



Home Décor



Tool Manufacturing



Signage & Nameplates



Gift & Branding



Jewelry & Fashion



Art & Crafts



Medical Devices



Consumer Goods & Outdoor



Electromechanical
Components



Small Hardware



3C Electronic Accessories

Technical Specifications



Model Name	AccuMetal 24	AccuMetal 51
Machine Dimensions	1750*1590*2260 mm (68.9"×62.6"×89.0")	2130*2450*2015 mm (83.9"×96.5"×79.3")
Working Area	610*610 mm (24.0" x 24.0 ")	1300*1300 mm (51.2" x 51.2")
Laser Type	1500W Fiber Laser	1500W Fiber Laser
Rated Machine Power	15 kW	19 kW
Positioning Accuracy	±0.02 mm	±0.02 mm
Maximum Speed	500 mm/s (30 m/min)	500 mm/s (30 m/min)
Maximum Acceleration	2.0 G	1.8 G
Net Weight	1300 kg (2866 lb)	2000 kg (4409 lb)
Z-axis Travel	70 mm (2.76 in)	70 mm (2.76 in)
Maximum Table Load	500 kg (1102 lb)	1000 kg (2205 lb)
Voltage & Frequency	Three-phase 380 V, 50 Hz / Single-phase 240 V, 60 Hz	
Maximum Cutting Thickness (Clean Cut, No Dross)	Carbon Steel: 6 mm (0.24") Stainless Steel: 5 mm (0.20") Aluminum Alloy: 4 mm (0.16") Brass: 3 mm (0.12")	
Maximum Cutting Thickness (Cut-through Only)	Carbon Steel: 15 mm (0.59") Stainless Steel: 10 mm (0.39") Aluminum Alloy: 6 mm (0.24") Brass: 3 mm (0.12")	
Cooling Method	Water Cooling	
Assist Gas	Air / Oxygen / Nitrogen	
Pass-Through Door	Front & Rear Pass-Through, 180 mm Height	
Safety	CE, FDA Class 2	

+86 181 0304 3363

www.thunderlaser.com

Sales Email: sales@thunderlaser.com
Tech Email: tech@thunderlaser.com

Room 1101, Building 3, No.68, Xingzhou Road,
Shatian Town, Dongguan City, Guangdong
Province China



Facebook



Youtube



Linkedin



Instagram