TITAN CAN DO MORE

Tumblers

Laser Engraving

Photo Engraving

Rubber Stamp Glass Etching

Leaf Engraving

Keyboard Caps Coasters

Stone Engraving EVA Flip Flop **Engrave Mirror**

Clothes Etching Wine Bottle Etching

Laser Cutting

Photo Frames

Paper Artwork



Wood Cutting

Festival Decoration

Film Cutting

Architectural Models



THUN ER

LASER —

Titan Series

Industrial Power, Precision Performance.

Built for Professionals.

Why Choose Titan Series? =

A powerhouse laser machine engineered to outperform. With industral -arade technology, precision components, and intelligent software integration, Thunder Laser TITAN Series is built for professionals who demand the highest standard in engraving, cutting, and production versatility. It isn't just a laser—it's your production advantage.



Titan Pro dual-laser design breaks material limits, delivering next-level versatility, performance, and return on investment.



Whether engraving, cutting, or marking—on acrylic, wood, or metal
—Titan unleashes creativity across all production scales.

With 10 breakthrough innovations, Titan delivers results — faster, cleaner, and smarter.



Safety Level

Safety Level

Titan / Pro 35

Titan / Pro 27







CE Standard and Class 1 Safety



- +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















Laser Maker, LightBurn, RDWorks

CE Standard and Class 1 Safety

THAN YOU CAN IMAGINE...

Custom Jewelry

Leather Wallet

Flasks

Laser Marking

Signage

Name Plate 3D Models

Wood Puzzles

Wedding Gifts Toys & Games

Ceramic Mug

Titanium Color Engraving

Guns Marking Metal Pet Tag

Blade Marking Card Holder

Metal Wax Seals Souvenir Coins

Medical Part Marking

AND MUCH MORE!



10 Key Innovations

01. Dual Laser Sources

Titan combines an up-to 120W CERAMICORE® RF CO₂ laser with a 100W MOPA fiber laser in one chassis allowing seamless processing of both non-metal (wood, acrylic, leather) and metal (aluminum, stainless steel, anodized materials) without switching machines. Ideal for operations that need versatility with industrial

02. Dual-Camera Vision System

A 5MP overhead camera captures the entire workspace for job preview and alignment, while a 5MP headmounted camera enables mark point recognition for printed material contour cutting. Even with the lid closed, operators can monitor jobs remotely via wireless streaming.

03. 0.01mm High Precision

Titan delivers pinpoint accuracy using reinforced mechanical architecture, servo-driven motion, and factory-calibrated alignment. The 120W RF CO₂ tube's ceramic core maintains stable energy output, enabling ultra-sharp lines, clean cuts, and consistent results across long runs — ideal for luxury goods and electronics engraving.

(04. Ultra-Fast Productivity

Driven by high-precision AC servo motors and HIWIN linear guides, Titan reaches engraving speeds of 3000 mm/s with a peak acceleration of 8G. Quick-release laser heads and mirrors reduce changeover time, while barcode/serial automation in LaserMaker software boosts batch production speed and consistency.

05. Intelligent Quad Air Assist System

Four independent air assist channels control airflow during different job types. Dual internal assists reduce smoke buildup during engraving and eliminate discoloration during cutting. External air control clears optics in real time, protecting lenses and reducing costly maintenance and rework.

06. Integrated LaserMaker™ Software

LaserMaker is optimized for Titan with real-time hardware integration, a built-in material database, and productivity tools like variable text, QR/barcode generators, and camera registration alignment. It streamlines workflow, reduces setup time, and improves accuracy in high-volume operations.



07. Full Wireless Connectivity

Titan supports Wi-Fi job transfer, wireless camera streaming, and real-time control — all via stable TCP protocol (not UDP), ensuring reliable communication with your computer, tablet, or network. No tangled cords, no lag, just pure convenience.

08. Certified Industrial Safety Architecture

Titan uses dual-lid sensors, safety interlocks, and dual laser-source isolation to prevent unintended operation. A double-layer laser window with tempered glass and fiber shield blocks radiation and resists physical damage. Fully CE and Class 1 compliant — meeting global industrial safety standards.

09.65mm Pass-Through Height

Titan handles thicker or pre-assembled pieces with its spacious Z-axis clearance and pass-through door design. Ideal for cutting structural parts, foamboard stacks, layered composites, or anything tall that standard desktop lasers can't reach.

(10. Dual Working Platforms

The honeycomb vacuum table ensures stable holding for thin or lightweight materials, while the knife-blade platform minimizes reflection and is ideal for rigid substrates. Swapping platforms takes seconds keeping your workflow efficient and your cuts flawless

The Cores of High-Performance

Thunder Titan Series has equiped CEREMICORE® RF laser tube, offering high precision and ultra processing speed. For Thunder Titan Pro Series, the MOPA fiber laser is the finishing point of this industrial monster, making it achive the advanced versatility.

50W - 120W CERAMICORE® RF Laser



Experience some of the fastest rise and fall pulse times in the industry — perfect for high-speed engraving and cutting cycles

Consistent Beam Quality

Maintains stable, high-quality beam performance across long production runs, ensuring clean cuts and uniform engraving every time.

(a) High Duty Cycle for Industrial Use

Built for continuous operation, the RF tube supports long-duty production shifts without thermal drift or loss in precision.

Non-Consumable Design

No need for frequent gas refills or fragile glass components — the sealed ceramic core ensures minimal maintenance and long-term reliability.

Clean Edges, Less Post-Processin ·----

Delivers sharp vector cuts with minimal charring or melting, reducing finishing work and increasing overall throughput.

60W - 100W Mopa Fiber Laser

(4) Ultra-Fast Metal Marking

-----Achieve high-speed direct marking on metals, plastics, and coated surfaces

— ideal for serial numbers, barcodes, and logos in industrial settings.

Color Marking on Stainless Steel

Fine-tuned pulse control enables vibrant, repeatable color marks on stainless steel surfaces without additional chemicals or treatments.

Deep Engraving Capability

High peak power and adjustable pulse duration make it perfect for deep, precise metal engraving with minimal heat-affected zones.

Stable, Maintenance-Free Operation

Designed for industrial uptime — air-cooled, solid-state architecture means zero alignment, low noise, and no consumables.



Pulse Shaping for Material Versatility

Adjust pulse width and frequency to suit a variety of materials, including brass, aluminum, plastic, and coated metals — all from a single source.

High-Precision and Powerful for Any Occasion

Large-Format Marking

Unlock new possibilities in metal and stone. Titan Pro integrated fiber laser makes it easy to engrave large-format stainless steel. aluminum, and marble with sharp detail and minimal effort.





STEAM Education From STEM classrooms to maker-

spaces, Titan empowers students and educators to prototype, create, and explore with industrial-grade precision - from wood engraving to

Workshop

Workshop Upgrade your workshop with the Thunder Titan. Perfect for precise engraving and batch producing on various materials, it's a MUST for any Professionals and

Customization Business

Engrave premium products with

stunning detail — from branded

wood boxes to metal tags. Titan

empowers personalization studios

to deliver flawless results across a

wide range of client requests.





Industrial Part Marking

Need fast, permanent traceability? Titan Pro delivers high-contrast marking on metals and composites — perfect for serial numbers, QR codes, and compliance labeling at

Small-Batch Manufacturing

Scale without complexity. Titan handles custom and repeat jobs with equal ease, making it a game-changer for small manufacturers working with diverse material types and tight

LaserMaker:

Built by Thunder. Optimized for Titan.

LaserMaker isn't just compatible — it's deeply integrated into the Titan platform, with features designed specifically for high-efficiency engraving, batch coding, and smart alignment. It gives operators powerful tools with a clean interface and automates what used to take extra steps.

Key Advantages of LaserMaker on Titan:

- Auto Device Detection Automatically recognizes Titan model and laser power, applies correct parameters.
- Mark Point Recognition Automatically detects registration marks for accurate alignment in print-and-cut applications.
- Material Library Built-In Tested parameters for different materials reduce trial-and-error time.
- Smart Variable Data Support Effortlessly generate barcodes, QR codes, serial numbers, and dynamic text from CSV or templates for efficient batch engraving.
- Advanced Output Optimization Fine-tune images, add lead-in /out lines, and apply kerf offset for cleaner cuts, accurate fits, and professional engraving results.





LaserMaker + Titan = Faster setup, fewer errors, and smoother workflow — right out of the box.

Metal & Non-Metal, All Done With Titan

	Model	Titan Series	Titan Pro Series
Materials	Wood	0	0
	Cork	○ ●	O •
	Acrylic	O •	O •
	Fabric	•	•
	Glass	•	•
	Plastic	○ ●	O •
	Mirror	•	•
	Food	•	•
	Ceramics	•	•
	Stone	•	•
	Leather	O •	O •
	Rubber	○ •	O •
	MDF	O •	O •
	Cardboard	O •	O •
	Anodized Aluminium	•	•
	Slate	•	•
	Stainless Steel		•
	Titanium Sheet		•
	Brass		•
	Nickel		•
		○=Cı	utting

Unlimited Possibilities Unlocked by Titan

