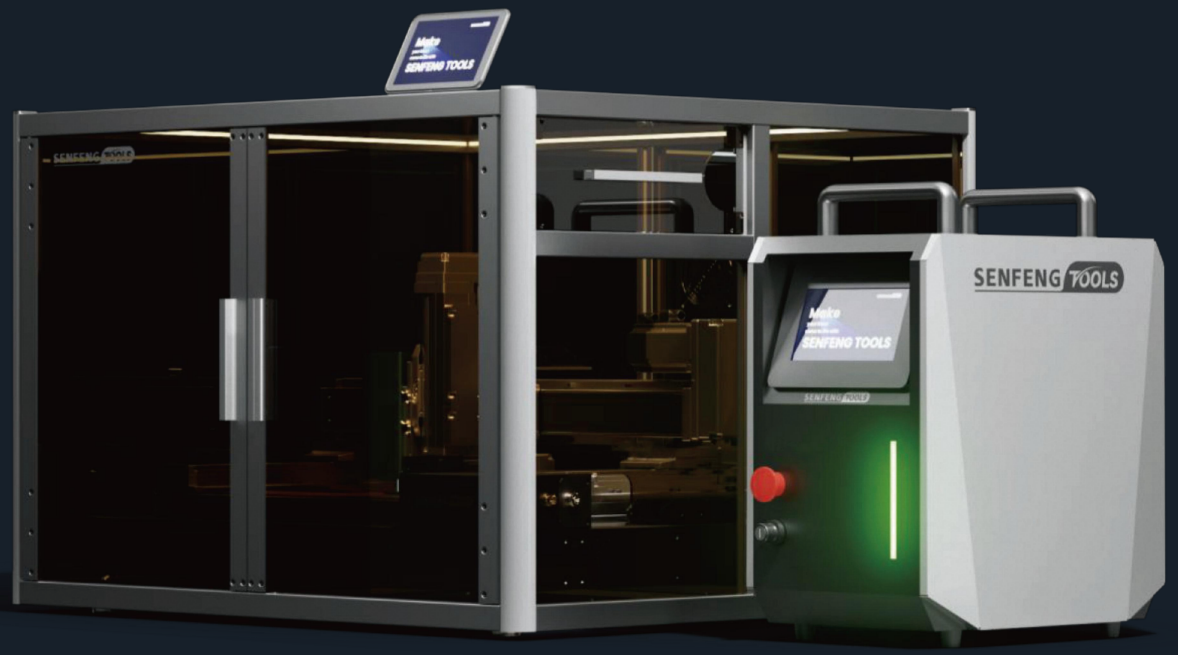
SENFENG TOOLS

SFT-D series



Fiber & Diode Laser | Up to 1200W Power | CNC & Handheld | Cut, Weld, Clean, Engrave

±0.01mm Precision | 12mm Metal & 25mm Wood

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01 Your 7-in-1 Mini Factory

02 Core Advantages

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Key Features

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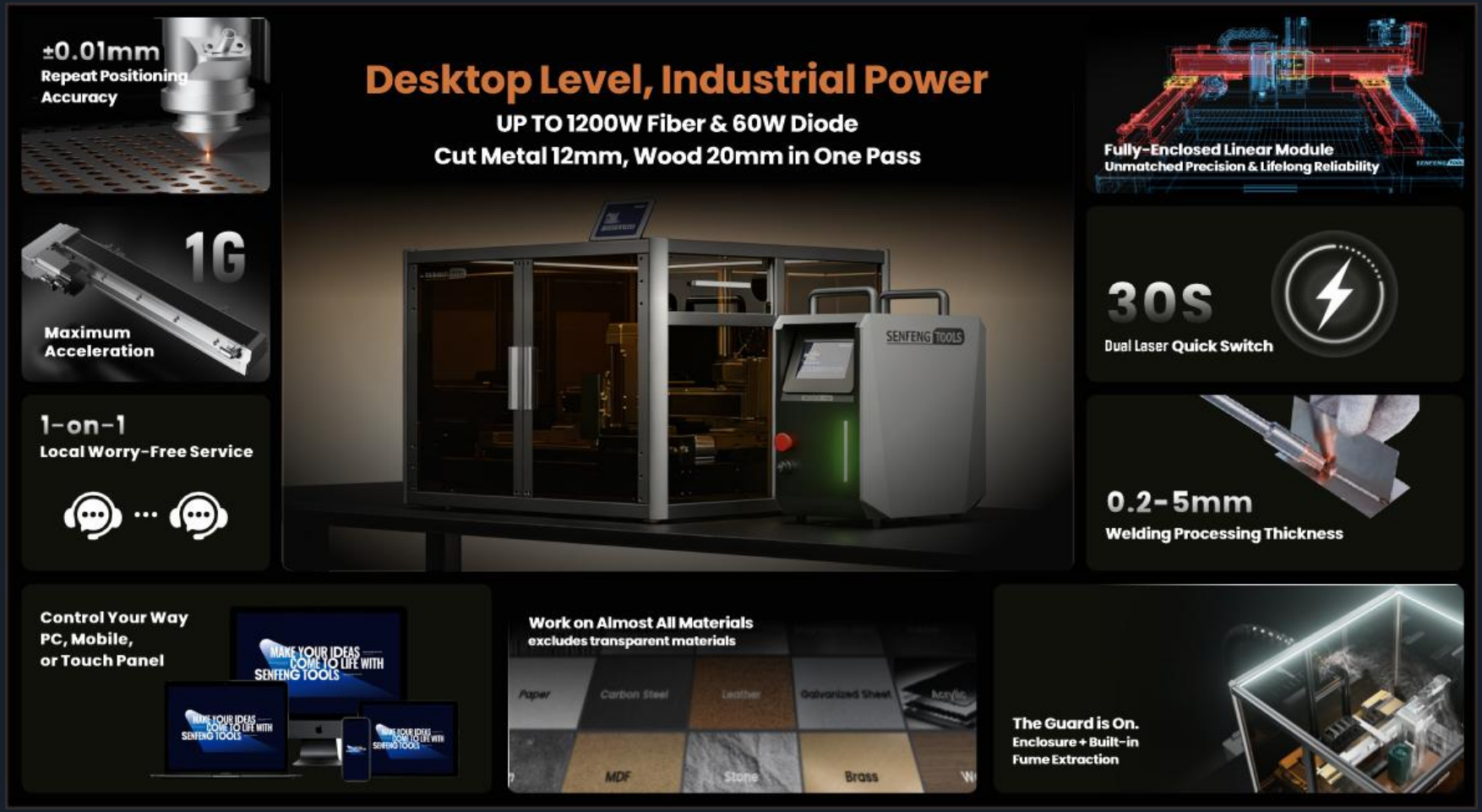
- Your 7-in-1 Mini Factory
- The Engineering Behind 0.01mm Precision
- Dual-Laser System
- 30-second Quick Change
- Comprehensive Safeguarding System
- Optimized Working Area



Your 7-in-1 Mini Factory

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Uniting handheld freedom with CNC automation, this system streamlines your entire workflow. It empowers you to shift effortlessly between precision and flexibility, handling more processes within a single platform.

1-CNC Laser Cutting

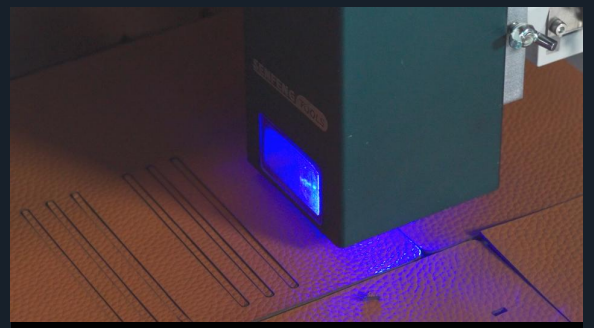
Capable of handling various metal sheets, CNC laser cutting reliably produces complex part contours and smooth edges with ±0.01mm repeat accuracy. It guarantees high consistency from small-batch prototypes to serial production, enabling you to deliver high-quality results with lower cost and faster turnaround.

2-CNC Laser Engraving

Engineered for creators and workshops, the D Series delivers precise metal marking scanning engraving and at speeds up to 500mm/s. Its accuracy renders sharp details—from serial numbers to logos—ideal for adding unique identification and enhancing brand value.

3-Diode Laser Cutting

Specializes in precise cutting of non-metallic materials such as wood, acrylic, and leather. It handles complex curves and pierced patterns cutting, delivering clean, smooth edges. Ideal for turning 2D designs into precise, separate parts—from custom signs and architectural pieces to personalized accessories.



4-Diode Laser Engraving

Add professional identification or personalization directly in your workflow. This diode laser performs precise, permanent surface marking on wood, leather, and acrylic. It efficiently applies serial numbers for traceability, logos for branding, or custom graphics for unique creations, completing your projects with a definitive mark.

Handheld Laser

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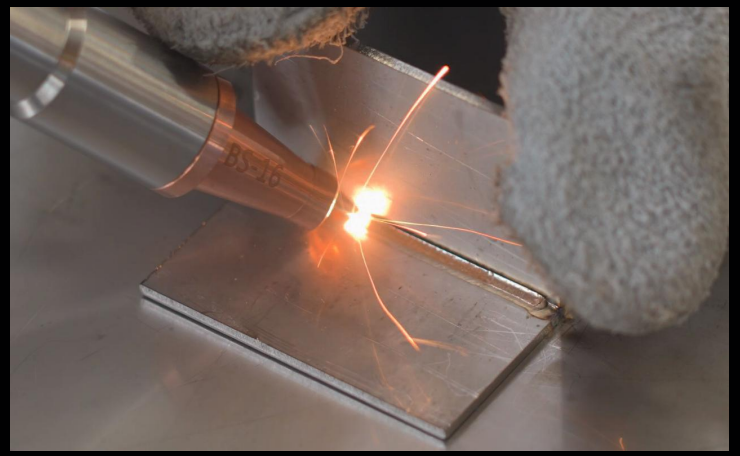
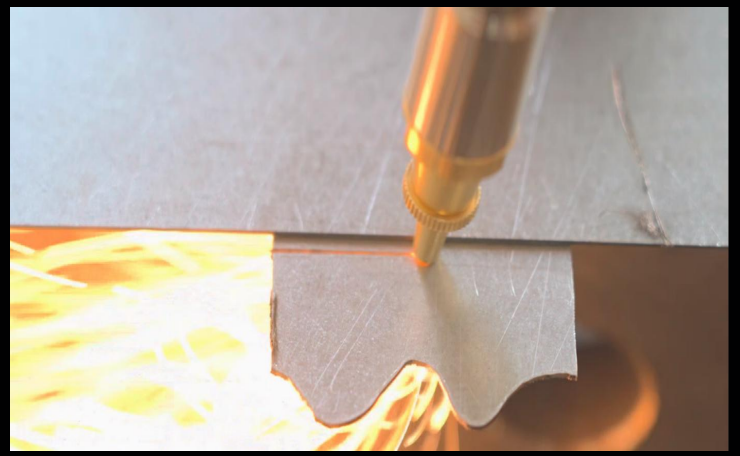
5-Handheld Laser Welding



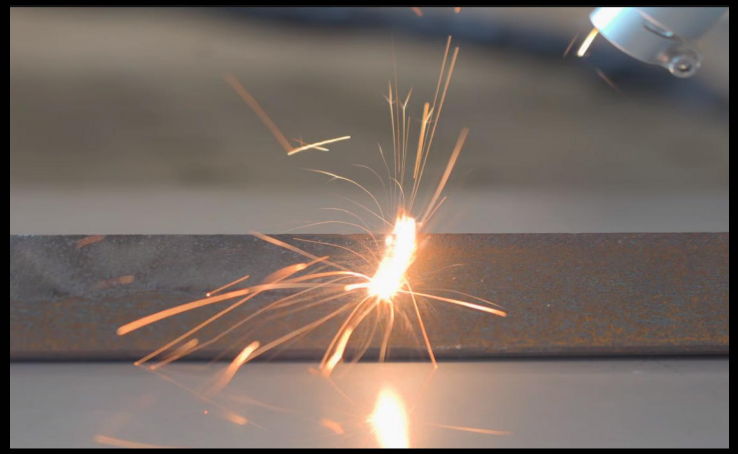
Make strong, precise metal joining simple. With a speed of 20 mm/s and support for continuous, pulse and spot welding modes, it's equally suited for custom lamp orders or personal bike repairs—the efficiency tool for workshops and creative partner for makers.

6-Handheld Laser Cutting



Handheld laser cutting puts a precise metal pen in your hand. Work directly on large or complex pieces—free from bed-size limits. It redefines metal fabrication, from on-site custom installations to personalized art.

7-Handheld Laser Cleaning



Laser Cleaning selectively removes rust, oil, and coatings while preserving the base material. With a max scan width of 20mm and speed of 250mm/s, it delivers a controlled, waste-free solution for mold maintenance, equipment renewal, and restoration.

The Engineering Behind 0.01 mm Precision

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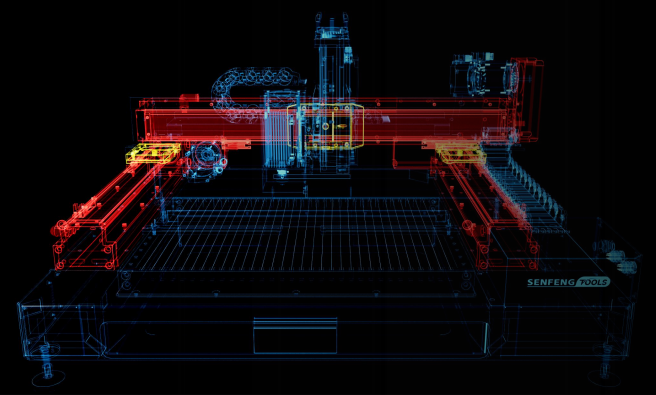
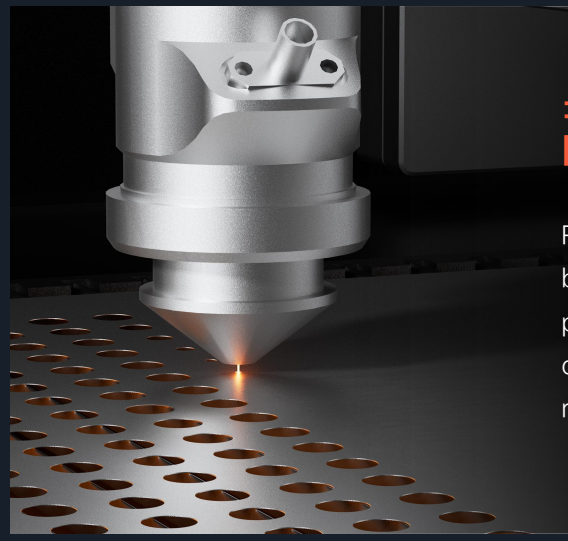
Fully-Enclosed Linear Module



The motion mechanism features fully enclosed linear modules. This design physically seals out dust and debris, guarding the drive system's cleanliness at the source to ensure long-term reliability and unwavering precision.

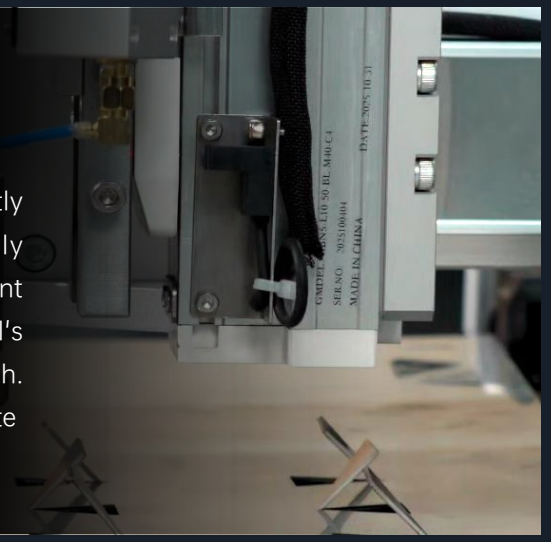


± 0.01mm Repeat Positioning Accuracy

Rigorously tested, D series system achieves both ±0.01mm repeated accuracy and ±0.01mm positioning accuracy. Whether you're making 10 or 1,000 pieces, expect identical, high-quality results every time.

Intelligent Auto-Follow

D series handles both warped sheets and slightly misaligned material with ease. It intelligently adjusts the laser head height to maintain constant focus while automatically detecting the material's edges and orientation to adapt the cutting path. This ensures consistently sharp focus and accurate contours with every cut.



Automatic Obstacle Avoidance

When encountering obstacles, the path can be automatically adjusted to prevent collisions, reducing production interruptions caused by manual intervention, improving operational efficiency, and ensuring workplace safety.

The Engineering Behind 0.01 mm Precision

SENFENG TOOLS

Seamless Micro-Joint for Deformation Prevention and High Precision

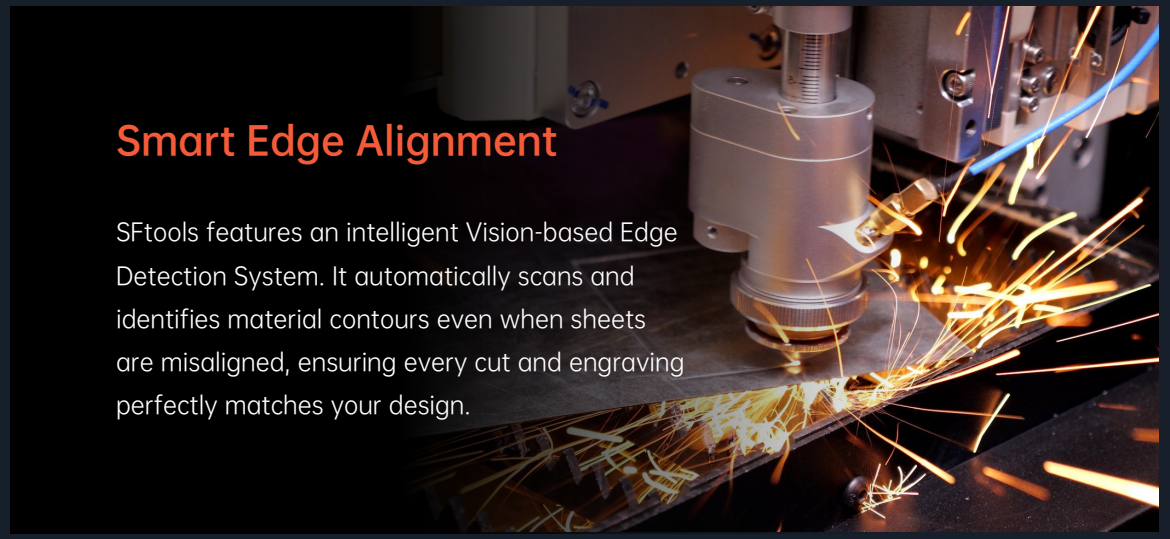
When cutting complex contours, micron-level micro-joints are reserved to maintain the overall structural stability of the material. This prevents deformation or displacement of thin sheets (0.1–1 mm) caused by stress release during the cutting process.

Intelligent Continuous Cutting to Boost Production Efficiency

With a nonstop cutting process, idle time is minimized, allowing an entire sheet to be processed in a single positioning. The cutting head does not need to return to its original position after each operation, enabling rapid repositioning and continuous cutting.

Common-Edge Cutting for Material and Time Savings

Traditional independent cutting requires leaving a cutting allowance (typically 0.2–0.5 mm per edge). Common-edge cutting, by sharing cutting lines, eliminates redundant areas and can increase material utilization by 10%–25%.



Smart Edge Alignment

SFtools features an intelligent Vision-based Edge Detection System. It automatically scans and identifies material contours even when sheets are misaligned, ensuring every cut and engraving perfectly matches your design.

Dual-Laser System

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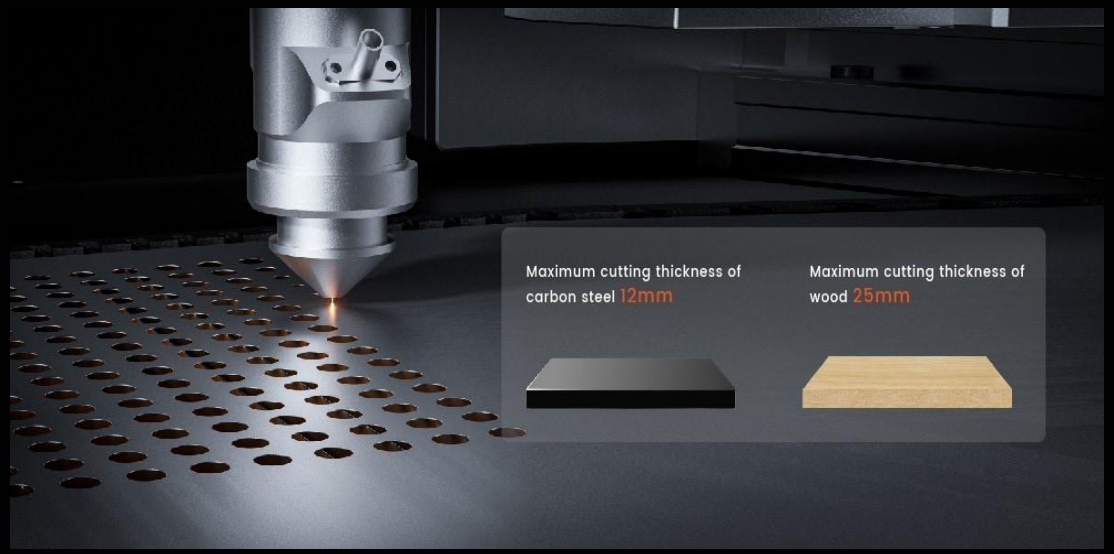

The dual-laser system delivers professional solutions: the fiber laser cuts carbon steel up to 12mm thick, while the blue diode laser handles wood up to 25mm thick. Achieving this level of capability in a compact, desktop-class machine empowers you to expand your business and take on more complex, challenging custom projects.

30-second Quick Change

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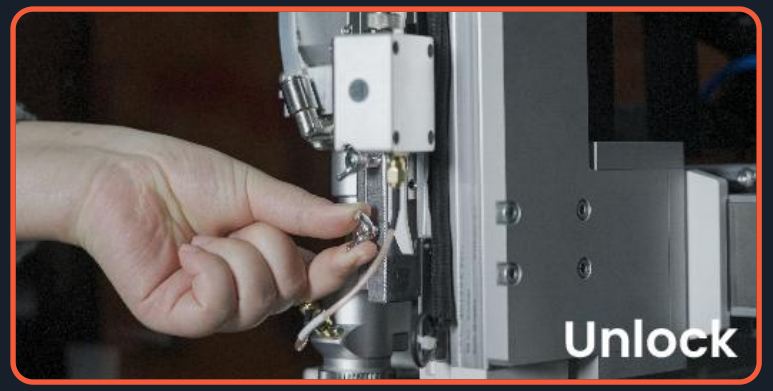
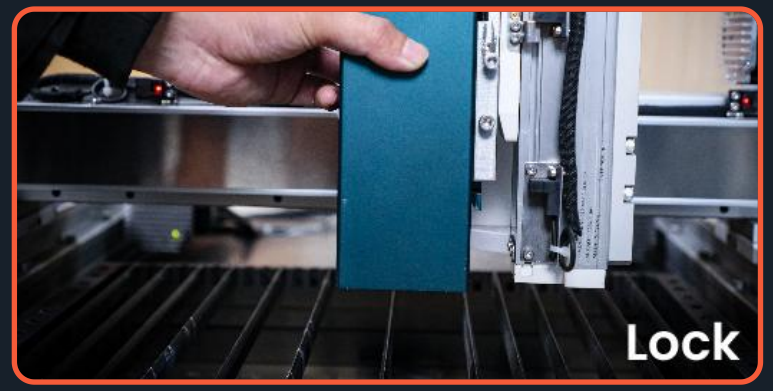
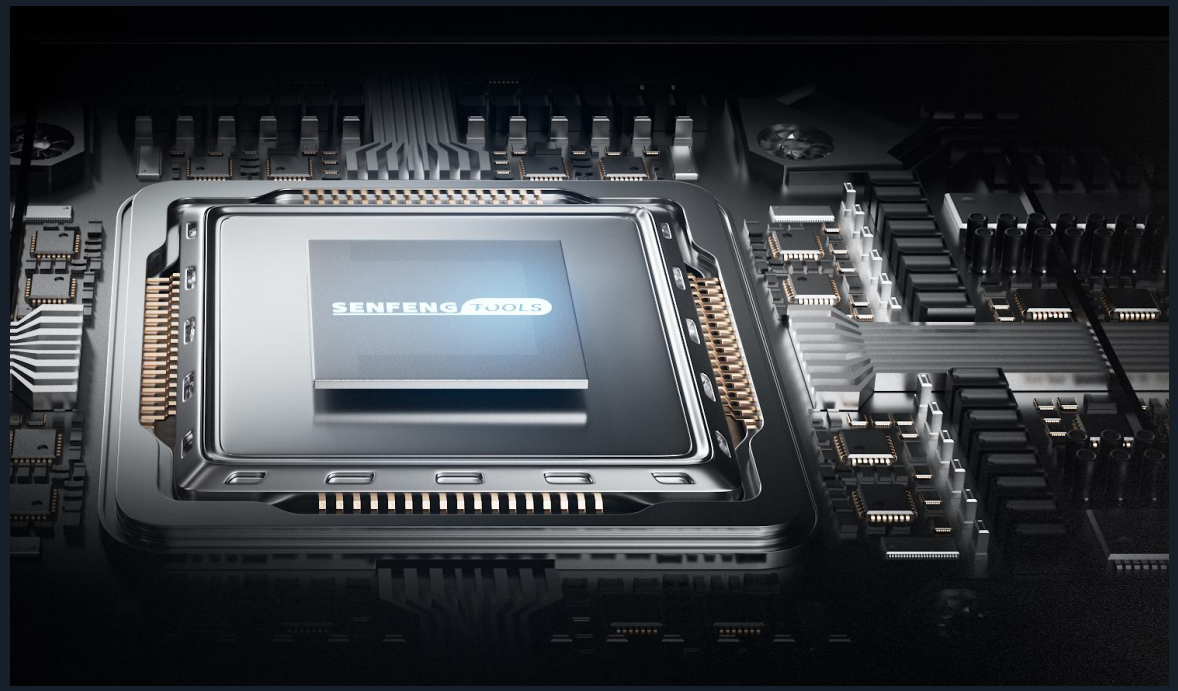




The system supports dual laser sources — fiber for metal processing and blue laser for non-metal materials. The laser head can be switched within 30 seconds by simply unscrewing the current module, inserting the alternative head, and tightening it securely, ensuring fast and efficient material transition.

Intuitive Control Hub



Utilizing efficient algorithms—such as automatic nesting, common-edge cutting, and leftover material splicing—this software maximizes sheet material utilization. It is particularly suitable for parts with complex shapes, enabling material savings of 15%–30%.

The detachable touchscreen serves as a standalone control terminal. It enables direct file transfer from computers or mobile devices and supports image import straight from your phone gallery for immediate engraving—eliminating computer conversion and accelerating your production workflow.

Optimized Working Area

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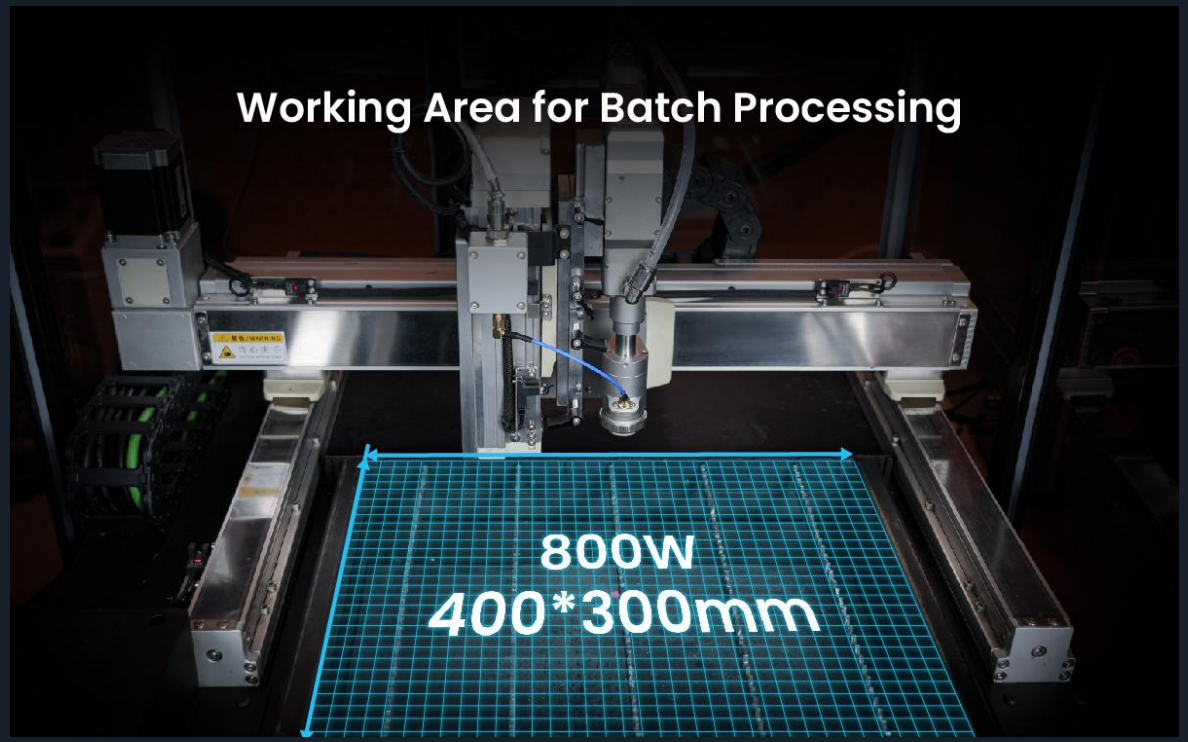
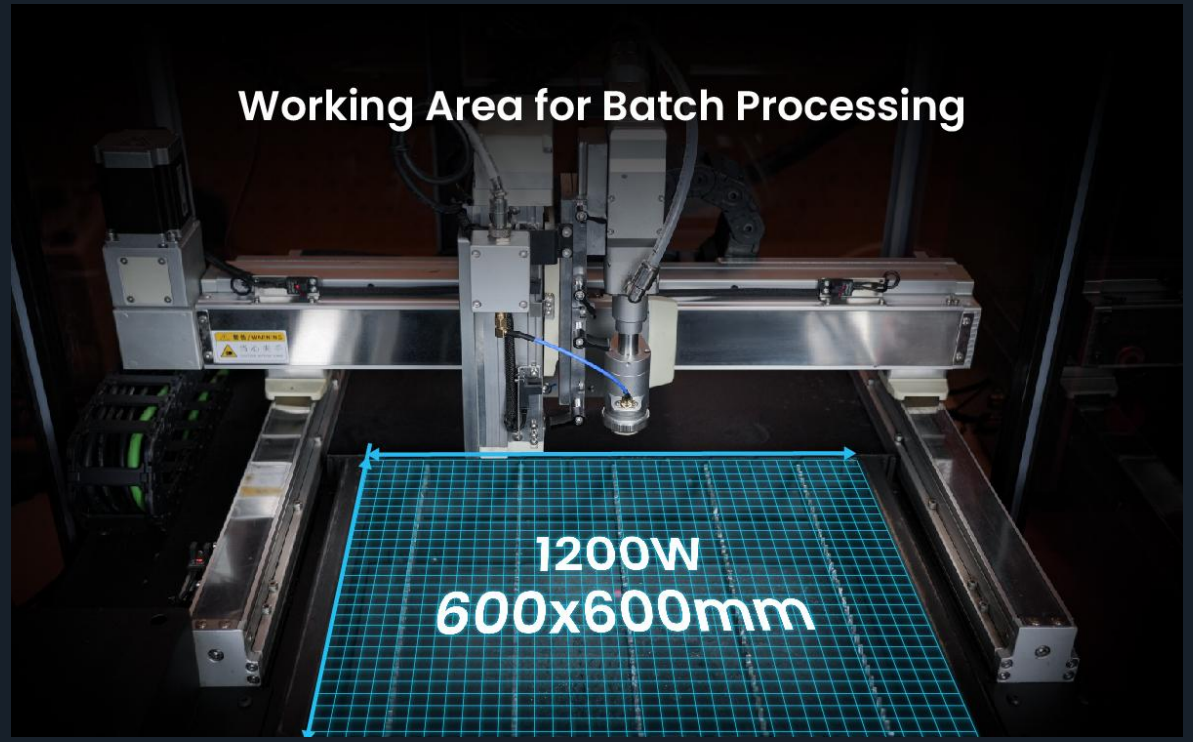
D series offers two precision-matched configurations

800W for a 400x300mm area (≈15.7"x11.8"), and 1200W for a versatile 600x600mm area (≈23.6"x23.6").

Both maintain a minimal desktop footprint, empowering you to handle everything from detailed pieces to standard signage efficiently within a compact space.





Comprehensive Safeguarding System

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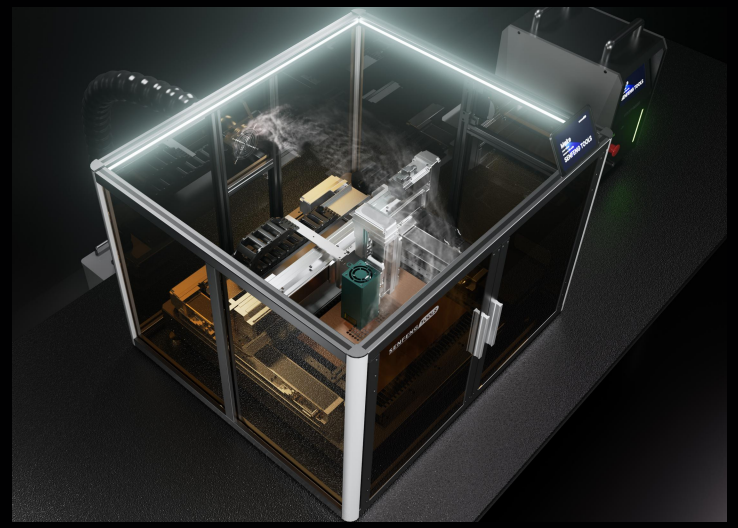
Graphite Board

The high-temperature-resistant graphite protective plate and drawer design provide reliable protection for high-intensity laser cutting, preventing the work surface from being burned by the laser while collecting all fallen parts and waste.

Enclosed Fume Extraction



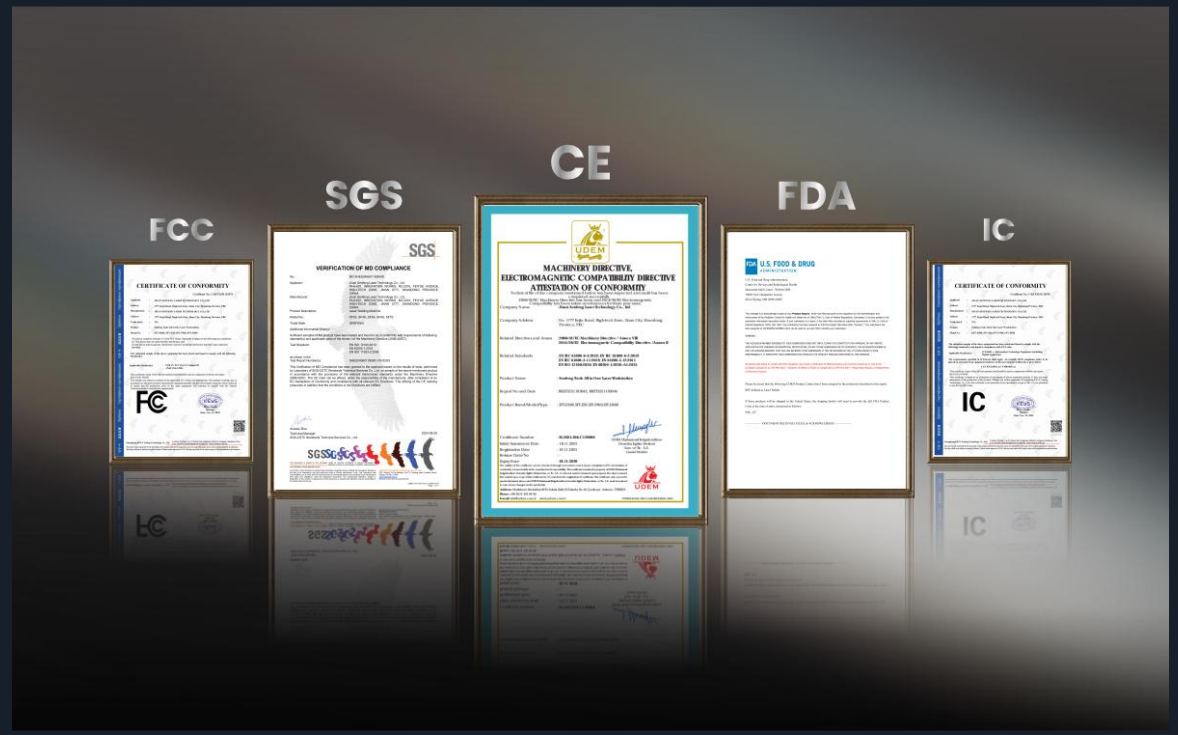
The standard enclosed processing chamber and high-efficiency exhaust fan swiftly capture and remove most fumes at the source.For demanding indoor or small-space operations, an optional high-power air purifier can be added.

Laser Selection Knob

The laser selection knob prevents software errors via physical detents. It is divided into three levels: fiber laser, non-laser output, and diode blue laser.

Comprehensive Safeguarding System

SENFENG TOOLS



Visible & Guarded Safe Zone

The fully sealed enclosure provides a physically guarded, visible work area. It effectively mitigates risks from laser leakage and accidental contact, allowing you to focus on the process itself within a safe, transparent barrier.

The Trust Behind the Tool

Operate and sell with confidence. SFtools is fully certified by FDA, CE, SGS, IC, and FC.

The Capable Partner for Every Project

SENFENG TOOLS

Home Workshops

VS

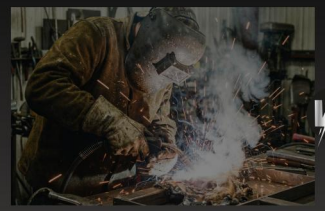
Traditional Setup:

Multiple tools, cluttered workspace, limited flexibility.

D Series Advantage:

7-in-1 desktop metal workstation — one compact system,unlimited creativity.

Auto Repair Shops



VS

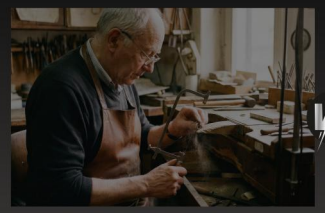
Traditional Methods:

Spark-heavy welding, dust-filled cleaning, low repair efficiency.

D Series Advantage:

Handheld laser welding & cleaning for fast, precise, and clean repairs — at the press of a button.

Customization Studios



VS

Traditional Methods:

Manual cutting causes deformation; engraving is slow and inaccurate.

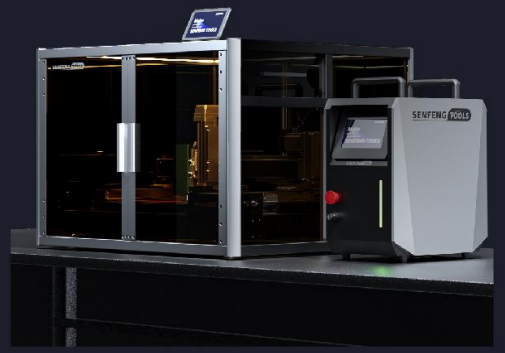
D Series Advantage:

Desktop CNC laser delivers high-precision cutting and engraving — even on thick metal.

A Tool That Pays Its Own Way

SENFENG TOOLS

SENFENGTools D Series



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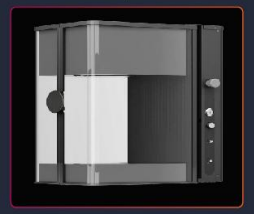
Industrial Laser Cutters

$50,000 -$200,000+

Not suitable for small studios

+



Laser Engraving

$3000+

Insufficient machine precision

+

Laser Welder

$5,000 -$8,000+

Single-functionality

You needed something BETWEEN and it didn't exist.
Until now. Help us bridge this gap.

This machine quickly pays for itself by consolidating tools, cutting outsourcing, and expanding what jobs you can take on. It's a productivity asset, not just an expense.

Iron Courtyard Decoration

- Priced at $300 per piece
- Blank material cost: $50 per unit
- Profit per unit: $250

Daily output: 6 units
Potential daily profit: up to $1,500

Metal Alloy Decorative Model

- Priced at $30 per piece
- Blank material cost: $5 per unit
- Profit per unit: $25

Daily output: 40 units
Potential daily profit: up to $1,000

Aluminum Wall Art

- Priced at $60 per piece
- Blank material cost: $8 per unit
- Profit per unit: $52

Daily output: 26 units
Potential daily profit: up to $1,352

Explore What's Possible

SENFENG TOOLS

Metal

Non-Metal

Specification

SENFENG TOOLS

D Series

Welder

Model	D300 Welder	D600 Welder
Laser Power	800W	1200W
Laser Type	Fiber Laser	
Processing Mode	Welding / Cutting / Cleaning& Rust Removal	
Welding Mode	Continuous Welding / Spot Welding/ Oscillation Welding	
Welding Thickness	0.2-4mm	0.2-5mm
Wire Diameter	0.8/1.0/1.2/1.6	
Welding Speed	Max 55mm/s	Max 55mm/s
Cleaning Width	Max 120mm	Max 120mm
Cleaning Scan Frequency	Max 100Hz	Max 100Hz
Cleaning width of weld seam	Max 6mm	Max 6mm
Wavelengths	1080±5nm	
Photoelectric Conversion Rate	> 30%	> 30%
Recommended Gases	Nitrogen / Argon	
Cooling System	Air-cooling	
Safety Certification	Class 4 Laser Safety	
Input Voltage	AC 220V±10% 50Hz/60Hz	
Rated Power	3.6kw	5.5kw
Full-load Current	16.5A	25A
Matching Socket	≥30A	≥30A
Operation Temperature	-10℃~40℃	
Storage Temperature	-10℃~40℃	-10℃~40℃
Output Fiber Length	7m	10m
Machine Dimensions	500*380*520mm	680*430*580mm
Machine Weight	30kg	50kg

Specification

SENFENG TOOLS

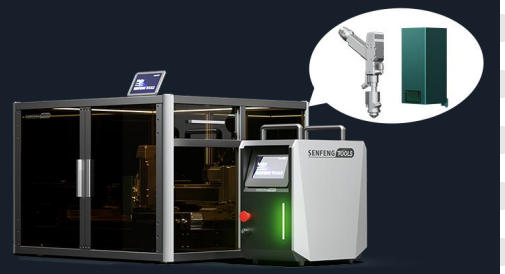
D Series

Combo

Model	D300 Combo	D600 Combo
Laser Power	800W	1200W
Laser Type	Fiber Laser	
Processing Mode	CNC Cutting / CNC Engraving / Handheld Welding / Handheld Cutting / Handheld Cleaning& Rust Removal	
Welding Mode	Continuous Welding / Spot Welding/ Oscillation Welding	
Welding Thickness	0.2-4mm	0.2-5mm
Wire Diameter	0.8/1.0/1.2/1.6	
Welding Speed	Max 55mm/s	Max 55mm/s
Cleaning Width	Max 20mm	Max 20mm
Cleaning Scan Frequency	Max 60Hz	Max 60Hz
Cleaning width of weld seam	Max 6mm	Max 6mm
CNC Max Processing Speed	500mm/s	500mm/s
Repeat Positioning Accuracy	±0.05mm	±0.05mm
Cutting Thickness	Max carbon steel 8mm	Max carbon steel 12mm
Maximum Acceleration	1G	1G
X-Axis Travel	300mm	600mm
Y-Axis Travel	400mm	600mm
Z-Axis Travel	50mm	50mm
Working Area	300mm*400mm	600mm*600mm
Drive Method	Belt	
Wavelengths	1080±5nm	
Photoelectric Conversion Rate	> 30%	> 30%
Recommended Gases	Nitrogen / Oxygen (CNC) Nitrogen / Argon (Welder)	
Cooling System	Air-cooling	
Safety Certification	Class 4 Laser Safety	
Input Voltage	AC 220V±10% 50Hz/60Hz (Welder) 110V±10% 50Hz/60Hz (CNC) or 220V±10% 50Hz/60Hz (CNC)	
Rated Power	3.6KW (Welder) 1.1KW (CNC)	5.5KW (Welder) 1.1KW (CNC)
Full-load Current	16.5A MAX (Welder) 6A MAX(CNC)	25A MAX (Welder) 6A MAX(CNC)
Matching Socket	≥30A(Welder) ≥10A(CNC)	≥30A(Welder) ≥10A(CNC)
Operation Temperature	-10℃~40℃	
Storage Temperature	-10℃~40℃	-10℃~40℃
Output Fiber Length	7m	10m
Machine Dimensions	865*905*715mm+500*380*520mm	1110*1205*775mm+680*430*580mm
Machine Weight	74kg+30kg	101kg+50kg

Specification

SENFENG TOOLS



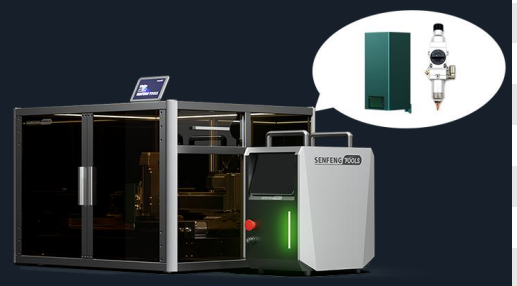
D Series

Combo Pro

Model	D300 Combo Pro	D600 Combo Pro
Laser Power	800W+40W	1200W+60W
Laser Type	Fiber Laser + Diode Laser	
Processing Mode	CNC Cutting / CNC Engraving / Non-metal Cutting / Non-metal Engraving / Handheld Welding / Handheld Cutting / Handheld Cleaning& Rust Removal	
Welding Mode	Continuous Welding / Spot Welding/ Oscillation Welding	
Welding Thickness	0.2-4mm	0.2-5mm
Wire Diameter	0.8/1.0/1.2/1.6	
Welding Speed	Max 55mm/s	Max 55mm/s
Cleaning Width	Max 20mm	Max 20mm
Cleaning Scan Frequency	Max 60Hz	Max 60Hz
Cleaning width of weld seam	Max 6mm	Max 6mm
CNC Max Processing Speed	500mm/s	500mm/s
Repeat Positioning Accuracy	±0.05mm	±0.05mm
Cutting Thickness	Max Carbon Steel 8mmMax wood 20mm	Max Carbon Steel 12mmMax wood 25mm
Maximum Acceleration	1G	1G
X-Axis Travel	300mm	600mm
Y-Axis Travel	400mm	600mm
Z-Axis Travel	50mm	50mm
Working Area	300mm*400mm	600mm*600mm
Drive Method	Belt	
Wavelengths	1080±5nm	
Photoelectric Conversion Rate	> 30%	> 30%
Recommended Gases	Nitrogen / Oxygen (CNC) Nitrogen / Argon (Welder)	
Cooling System	Air-cooling	
Safety Certification	Class 4 Laser Safety	
Input Voltage	AC 220V±10% 50Hz/60Hz (Welder) 110V±10% 50Hz/60Hz (CNC) or 220V±10% 50Hz/60Hz (CNC)	
Rated Power	3.6KW (Welder) 1.1KW (CNC)	5.5KW (Welder) 1.1KW (CNC)
Full-load Current	16.5A MAX (Welder) 6A MAX(CNC)	25A MAX (Welder) 6A MAX(CNC)
Matching Socket	≥30A(Welder) ≥10A(CNC)	≥30A(Welder) ≥10A(CNC)
Operation Temperature	-10℃~40℃	
Storage Temperature	-10℃~40℃	-10℃~40℃
Output Fiber Length	7m	10m
Machine Dimensions	865*905*715mm+500*380*520mm	1110*1205*775mm+680*430*580mm
Machine Weight	74.5kg+30kg	101.5kg+50kg

Specification

SENFENG TOOLS



D Series

Ultra Cut

Model	D300 Ultra Cut	D600 Ultra Cut
Laser Power	800W+40W	1200W+60W
Laser Type	Fiber Laser + Diode Laser	
Processing Mode	CNC Cutting / CNC Engraving / Non-metal Cutting / Non-metal Engraving	
CNC Max Processing Speed	500mm/s	500mm/s
Repeat Positioning Accuracy	±0.01mm	±0.01mm
Cutting Thickness	Max carbon steel 8mm	Max carbon steel 12mm
Maximum Acceleration	1G	1G
X-Axis Travel	300mm	600mm
Y-Axis Travel	400mm	600mm
Z-Axis Travel	50mm	50mm
Working Area	300mm*400mm	600mm*600mm
Drive Method	Lead Screw	
Wavelengths	1080±5nm	
Photoelectric Conversion Rate	> 30%	> 30%
Recommended Gases	Nitrogen / Oxygen	
Cooling System	Air-cooling	
Safety Certification	Class 4 Laser Safety	
Input Voltage	110V±10% 50Hz/60Hz or 220V±10% 50Hz/60Hz	
Rated Power	4.7KW	6.6KW
Full-load Current	21.5A	30A
Matching Socket	≥30A	≥40A
Operation Temperature	-10℃~40℃	
Storage Temperature	-10℃~40℃	-10℃~40℃
Output Fiber Length	7m	10m
Machine Dimensions	865*905*715mm+500*380*520mm	1110*1205*775mm+680*430*580mm
Machine Weight	104kg	151kg

Handheld & Automatic Cutting Process Library

SENFENG TOOLS

Handheld Cutting Process Library

Material	Thickness (mm)	Laser Power (W)	Speed (mm/s)
Stainless Steel	1	1200	50
	2	1200	35
	3	1200	20
Carbon Steel	1	1200	50
	2	1200	35
	3	1200	20
Aluminum Alloy	1	1200	35
Copper	1	1200	20
Galvanized Alloy	1	1200	50
	2	1200	35
	3	1200	20

In welding mode, set the oscillation width to zero and the oscillation speed to zero.

Automatic Cutting Process Library

Material	Thickness (mm)	Speed (m/min)
Stainless Steel	0.5	>21
	1	12~18
	2	3.6~4.2
	3	1.2~1.8
	4	0.78~1.2
Carbon Steel	1	12~18
	2	4.2~5.4
	3	3~3.9
	4	1.8~2.4
	5	1.2~1.8
	6	0.9~1.2
	8	0.72~1.84
	10	0.6

800W

Material	Thickness (mm)	Speed (m/min)
Stainless Steel	1	24
	2	6
	3	2.8
	4	1.8
	5	0.8
Carbon Steel	1	18
	2	6.6
	3	4.5
	4	2
	5	2
	6	1.8
	8	1.3
	10	0.9
	12	0.6
Aluminium	2	6.6
	3	1.8

1200W

4 in 1 Head Light version (Applicable to D300/D600 Welder)

SENFENG TOOLS

Ultra-light & Effortless Control – Expertly Engineered for Handheld Use

Description:

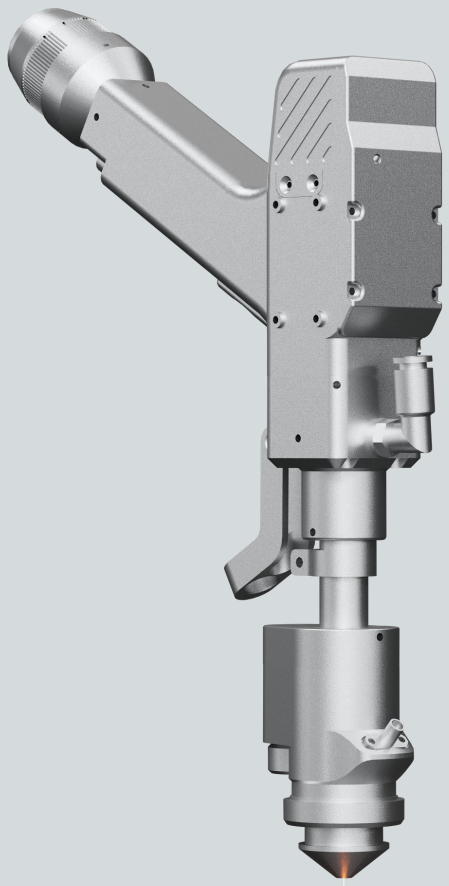
1. More stable and intelligent digital galvanometer control
2. Multi-point temperature monitoring for motor, chip and lens
3. Triple-knob control for adjusting laser power weld width, and welding speed
4. Built-in self-diagnosis system to help users troubleshoot internal issues

Parameters	
Fiber Interface Type	QBH
Applicable Wavelength	1080nm
Laser Power	2kw air cooling
Collimator Lens	D16F60-T5
Focus Lens	D20F150-T4.5/D20F200-T4.5
Protective lens	D18-T2
Cleaning lens	D20F800-T4.5
Focus adjustment tubes	L80mm@F150/L125@F200
Weight	550g
HMI	7 inches screen with Triple-knob panel

4 in 1 Head Omni version (Applicable to Combo/Combo pro)

SENFENG TOOLS

Compact Body, Unrestricted Handling – One Tool, Endless Capabilities



Description:

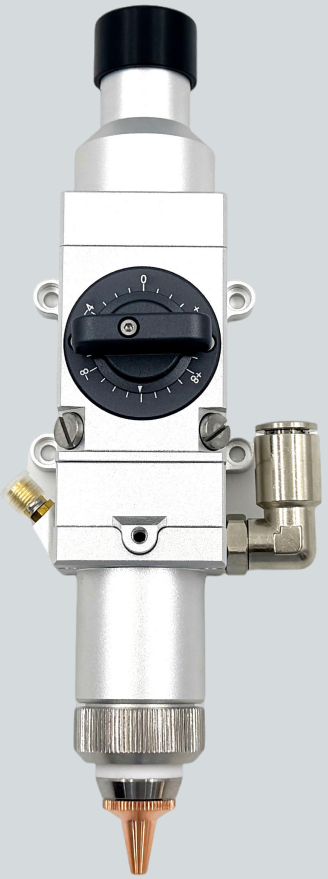
1. The precise system configuration and wiring ensure smooth switching between handheld and machine-based processing.
2. Dual-mode laser head supporting both water cooling and air cooling.
3. Cutting air pressure and focusing range comparable to dedicated cutting heads.
4. Optional main control screen supports image transfer and processing.

Parameters	
Fiber Interface Type	QBH
Applicable Wavelength	1080nm
Laser Power	≤3KW
NA	NA≤0.07
Optical Configuration: Collimating Focal Length/Focusing Focal Length	D16-F50 D20-F150
Focusing Range: *Horizontal *Vertical	-1~+1mm-8~+10
Pipeline Interface: *Cutting Gas	Φ8 Connector
Working Voltage	24V±10%, Max 4A
I/O Interface (6-pin Connector)	Switch output current limited to ≤30 mA
Working Temperature	5°C~55°C
Humidity	30%~95%, non-condensing
Weight	800g

Cutting Head UltraCut version (Applicable to Ultra Cut)

SENFENG TOOLS

Mini Size, Max Precision – Born for Ultimate Cutting Performance



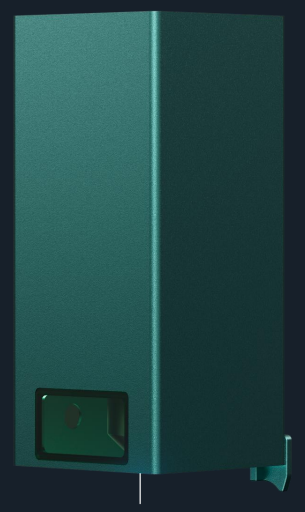
Description:

1. Utilizes precision optical components for excellent and stable beam quality
2. High-grade dust-proof design effectively prevents dust ingress
3. Precision mechanical machining ensures stable and reliable component integration
4. ±5mm focal point adjustment along the Z-axis for extensive cutting process coverage

Parameters	
Fiber Interface Type	Mini QBH
Applicable Wavelength	1080nm
Laser Power	≤1.2KW
NA	NA≤0.07
Collimator Lens	D20 F50
Focus Lens	D20 F100
Maximum Clear Aperture Diameter	14mm
Nozzle Diameter	1mm-4mm
Focus X-Y adjustment range	±1mm
Focus Z adjustment range	7mm-+7mm
Weight	≤0.5 kg

Key Components Introduction—Blue Diode Laser Module

SENFENG TOOLS



Blue Diode Laser Module	
Power	40W
Size	67*70*164.5mm
Operating Voltage	24V
Electric Power	120~132w
Working current	5~5.5A
Laser Wavelength	455±5nm
Optical Lens	Glass
Cooling System	Air-cooling
focal length	50±1nm
focal size	< 0.5mm
Operation Temperature	0℃~35℃
Storage Temperature	-40℃~85℃

Cost Benefit Analysis

SENFENG TOOLS

Power	800W			1200W		
	Non-metal	Metal(O2)	Metal(N2)	Non-metal	Metal(O2)	Metal(N2)
Power Consumption (KW)	0.8	2.5	2.5	0.8	4	4
Gas Consumption(L)	/	4	45	/	4	45
Electricity for Air Pumps(KW)	0.2	/	/	0.2	/	/
Electrical Power for Dust Removal(KW)	0.25	0.25	0.25	0.25	0.25	0.25
Electricity Rate Per Unit(KWH)	0.55	0.55	0.55	0.55	0.55	0.55
Oxygen Unit Price(USD/L)	/	0.12	/	/	0.12	/
Nitrogen Unit Price(USD/L)	/	/	2	/	/	0.29
Total Operating Cost(1USD/KWH)	0.10	0.68	13.21	0.10	0.76	13.32

Production Implementation—Site Requirements

SENFENG TOOLS

No.	Item	Description	Requirement	Remarks
1	Power Supply	Single-phase three-wire system	Voltage: 110V ±10% / 50Hz / 60Hz or 220V ±10% / 50Hz / 60Hz Grounding resistance ≤4Ω	For overseas installations, a transformer may be required depending on local conditions
2	Gas	Oxygen, Nitrogen, Argon purity ≥ 99.99%		Bottled gas should be equipped with a cylinder pressure regulator
3	Working Environment	Temperature Requirement	-10~40℃	In winter, if temperature is below freezing, antifreeze is required
		Humidity Requirement	≤70%	/
		Foundation Requirement	Flat site, no strong vibrations	Must build foundation according to supplier drawings

What is SENFENGTOOLS

SenfengTools is a tool-focused sub-brand of SENFENG, created to extend the group's industrial manufacturing expertise into compact, desktop-grade equipment.

The SenfengTools portfolio includes desktop CNC systems, multi-function desktop laser workstations, as well as laser marking and laser cleaning tools designed for flexible, small-scale applications.

Built on SENFENG's more than 20 years of experience in industrial laser systems, SenfengTools carries forward proven motion control technology, system stability, and manufacturing standards.

These industrial foundations are re-engineered into practical tools that balance professional performance with ease of use, serving professionals, creators, and small-scale producers who require reliable precision in everyday production and development environments.

SENFENG TOOLS

New headquarters
(High-tech Zone,Jinan City)

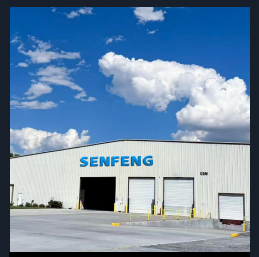
Production base
(Qihe)

Production base
(Lingang Road, Jinan City)

Senfeng (Suzhou)
Branch

Senfeng (Bonded Zone)
Import and Export Co., Ltd.

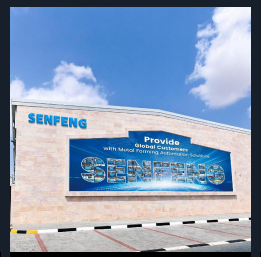
Senfeng (Wuhan)
Branch



SENFENG USA(Chicago)

SENFENG USA (Los Angeles)

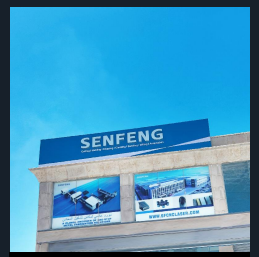
SENFENG Germany



SENFENG UAE

SENFENG Vietnam

SENFENG Vietnam



SENFENG Jordan

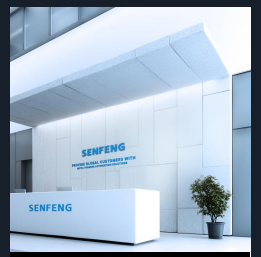
SENFENG Japan

SENFENG India

SENFENG Indonesia

SENFENG Australia

SENFENG Türkiye



SENFENG Poland

GLOBAL STRATEGY

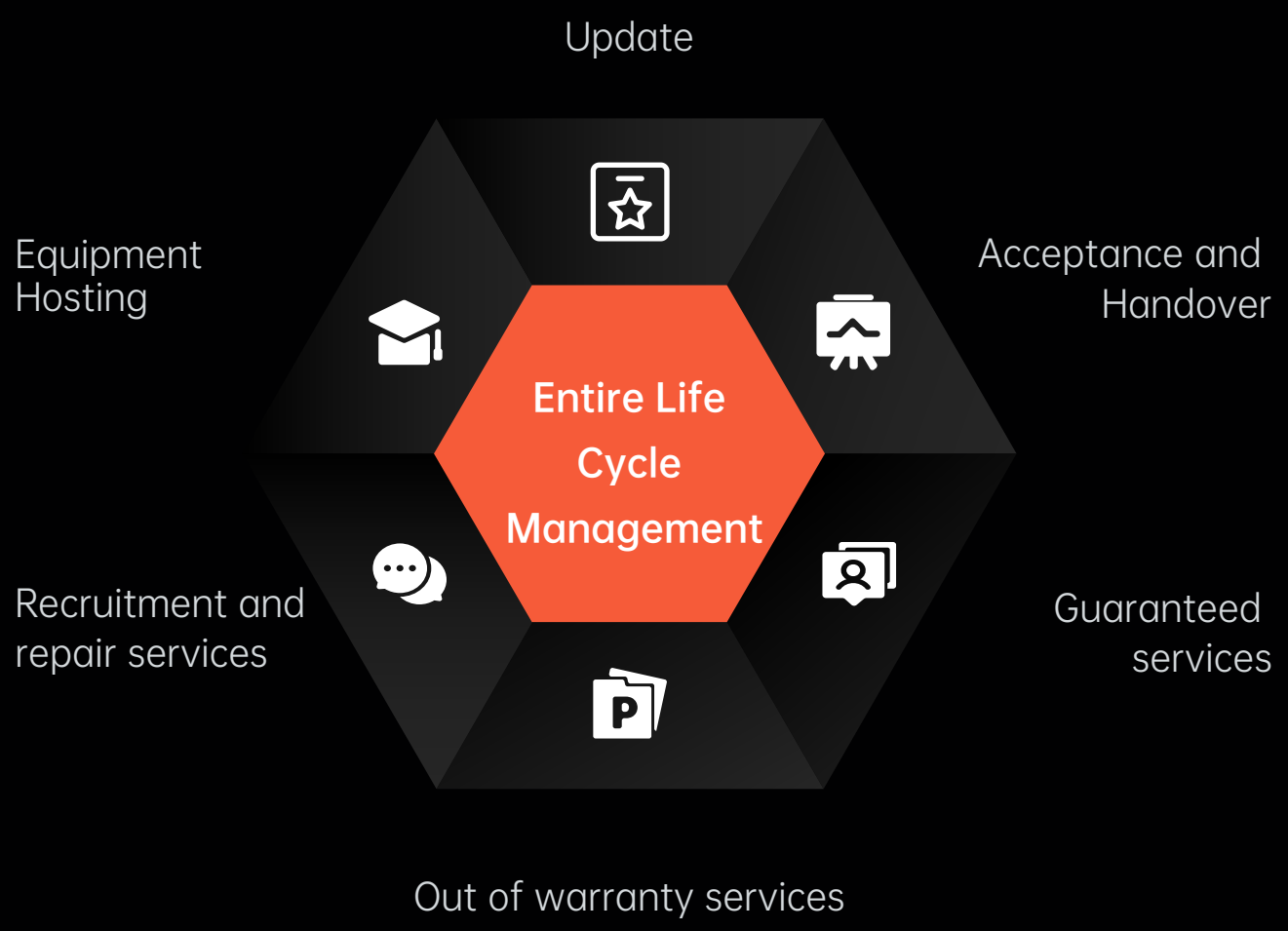
SENFENG deeply explores the global market and creates dual channels of domestic and international development

6 domestic bases

13 international locations

Entire Life Cycle Management

SENFENG TOOLS



Service Standards

- Quick response within 5 minutes
- Solution provided within 2 hours
- Spare parts shipped within 24 hours

Service Criteria

- One-stop service
- No delay until tomorrow
- Always finish what we start
- Result-oriented

Global Service Network

SENFENG TOOLS

13	10	150+	220+	24X7
Overseas Service Centers	Overseas Parts Warehouses	Countries Served	Total Personnel	Service Time

SENFENG TOOLS

Make your Ideas Come To Life With Senfeng Tools

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Website：https://senfengtools.com
Add：No. 1777 Kejia Road, High-tech Zone, Jinan City, Shandong Province, PRC