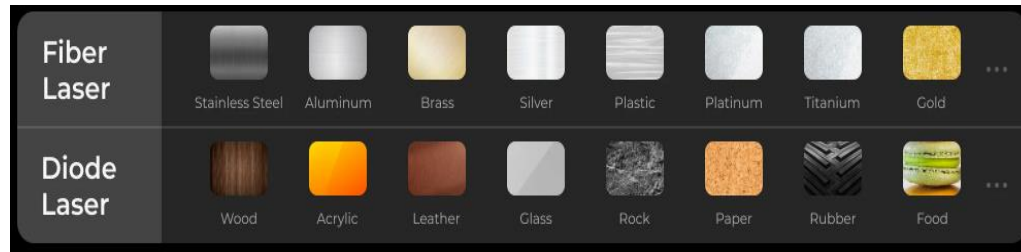


F1 Ultra – Product overview

- **World's First 20W Fiber & 20W Diode Dual Laser, Work on Almost All Materials**

A fiber laser for its exceptional metal engraving performance and a blue diode laser for engraving the most common. F1 Ultra is potent enough for **deep engraving, embossing and cutting on metals, wood, acrylic, etc. materials.**



- **Auto Streamline™ with Conveyor**

Ideal for **long materials and batch processing**, perfect for various educational or industrial tasks



- **Designed for Safe Use**

Enclosed Design / Emergency Button / Fire Safety Alarm & Stop / Extraction Fan / USB security key

- **Fast, Powerful and Easy to Use**

Up to **10,000 mm/s** speed

16 MP **Smart camera** for auto focus and smart fill

7GB Offline-use Touchable **Control panel**

3D Curve surface engraving

F1 Ultra – Main Specifications

Point 1: One machine can process almost any material

01 Wide range of consumables

The world's **first 20W Fiber laser +20W Diode laser** machine which can process almost any material.

- ❑ Doide laser: Wood / Leather / Acrylic / Glass / Ceramics / Rubber / Fabric / Slate
- ❑ Fiber laser: Gold / Silver / Copper / Platinum / Aluminum / Iron / Most common metals

02 High-value of art work

Compared to regular engraving machine, The high-power 20W machine enables **deep and color engraving** of high-value handmade goods.

Deep engraving



Embossing engraving



Color engraving

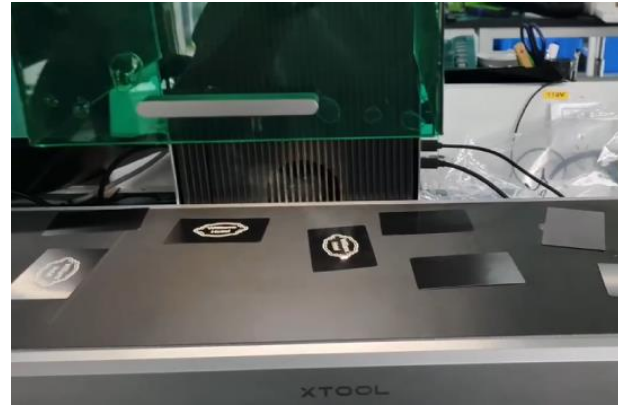


Metal Cutting



Point 2: Everyone can easily possess with factory efficiency

- a) The machine uses **a camera and conveyor** to instantly recognize and engrave moving objects.
- b) **Batch process**, Reduce production time and minimizes errors, provides industrial level productivity.
- c) The machine can operate at speeds of up to **8000 mm/s**.
- d) Largest fiber laser table area (220*220mm) for large project or batch processing.
- e) Curved surface processing.



Point 4: High security

- Clean environment: efficient dust adsorption, no pollution; enclosure filters laser, preventing eye injury.
- Enclosed Cover: Most fiber lasers on the market are open machines, which are dangerous because fiber itself is not visible.

Point 5: Meet all In-Store customization needs

- On-site processing: fast and convenient.
- Small in size: suitable for shops.
- Engraving all material in-store

Point 6: Everyone can make money by laser

- No assembly is required.
- Machine with camera for instant focus on objects
- Easy-to-use software: XCS 2.0 software with easy and perfect editing features
- Built-in control screen: The processed XCS files will be automatically saved to the control screen, and can be processed even offline



Processing Capacity	
Laser Type	20W Diode Laser + 20W Fiber Laser
Processing Mode	Laser Engraving
	Laser Cutting
Supported Materials	Laser Cuttable:
	Diode Laser: Paper, Wood, Leather, MDF, Felt, Some dark opaque acrylic
	Fiber Laser: Brass, Stainless Steel, Aluminum
	Laser Engravable:
	Diode Laser: Paper, Wood, Leather, MDF, Stainless steel, Some dark opaque acrylic, Bamboo, Fabric, Dark glass, Ceramic, Jade, Marble, Shale, Cement, Brick, Plated metal, Painted metal
	Fiber Laser: Stainless Steel, Aluminum, Brass, Silver, Plastic, Platinum, Titanium, Gold
Working Area	8.6" × 8.6" (220 mm × 220 mm)
	8.6" × 19.6" (with conveyor) (220 mm × 500 mm)
Max. Working Speed	10000mm/s
Max. Laser Cutting Capacity (Basswood)	15 mm in Multiple Passes
Max. Laser Cutting Capacity (Acrylic)	12 mm in Multiple Passes
Max. Blade Cutting Capacity	N/A
Max. Processing Height	145 mm
Max. Rotary Engraving Diameter	145 mm

Smart Software

Supported Software	xTool Creative Space/Lightburn
Operating System	Android/iOS/iPad/Windows/macOS
Connection Method	USB/Wi-Fi/IP/Hotspot
Supported Files	SVG/DXF/JPG/JPEG/PNG/BMP/TIF
Almake Compatibility	Yes

Easy Operation

Pre-assembled	Yes
Built-in Camera	16 MP Smart Camera
Positioning Method	Camera Positioning
Focus Mode	Autofocus
Ranging System	/
Preview Method	Smart Camera Preview
	High-speed Light Live Preview

Accuracy & Precision

Laser Spot Size	0.08*0.1mm (20W Diode Laser)
	0.03*0.03mm (20W Fiber Laser)
Positioning Precision	N/A
Ranging Precision	0.5 mm, Camera
Image Resolution	N/A
Motion Accuracy	0.00482 mm

General Information

Safety Certification	Classr 4 Laser Safety
Product Dimensions	273*373*492mm
	10.74" × 11.81" × 11.81"(273 mm × 373 mm × 492 mm)
Product Weight	32.4 lb (14.7kg)
Max. Machine Input Power	250 W - 275 W
Power Adapter Input Voltage	100 V - 240 V, AC 50/60 Hz



Use Scenarios

- Handy Craft
- Gift Customization: gift shop, event, souvenir store
- Jewelry Business
- Metal Cutting
- Laser Marking: small factory

