

2-in-1 xTool F2 Ultra laser engraving machine



Model: P1010155

Manufacturer: XTOOL

EAN: 6928819532069

Product Code: 1411745

R149,755

2-in-1 laser engraving machine xTool F2 Ultra

The xTool F2 Ultra is the world's first laser engraving machine to feature a dual MOPA (Master Oscillator Power Amplifier, a technology that enables precise control of laser pulses) system, combining the power of a 60 Watt MOPA laser with a 40 Watt diode. This revolutionary design makes the device ideal for a wide variety of materials - from stainless steel and aluminum, to silver, plastic and wood, to leather, glass, stone, rubber and more. With advanced artificial intelligence and dual 48 MP cameras, the product automatically recognizes plastics and optimizes settings to increase precision. In addition, speeds of up to 15,000 mm/s and a 220 x 220 mm work area ensure maximum efficiency.

Revolutionary technology - dual MOPA system

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A 60 W MOPA laser combined with a 40 W diode laser creates unprecedented material processing capabilities. Among other things, it allows engraving, creating colorful patterns, 3D embossing and cutting in various types of metals. The system also enables holographic engraving on stainless steel and titanium in more than 100 consistent colors, covering 7 color spectra. With this technology, you can easily achieve amazing visual effects - a great option for crafters, craft business owners, jewelry makers and more!

AI-powered laser engraving machine

The F2 Ultra is the first MOPA laser that uses AI (Artificial Intelligence, artificial intelligence) to automatically detect materials and apply optimal settings without manual setup. Dual 48 MP cameras increase positioning accuracy to 0.2 mm and improve precision by 60% over single-camera systems.

Maximum productivity with ultra-fast engraving

Engraving speeds of up to 15,000 mm/s make the F2 Ultra one of the fastest machines in its class. A 40 x 40 mm brass coin will be engraved in just about 3 minutes and 19 seconds, while a 100 x 30 mm metal statuette will be engraved in just about 23 seconds. Such high speed means you can perform your daily tasks even more efficiently - whether as a hobby or for work.

Larger work area opens up new possibilities

The 220 x 220 mm work area provides significantly more space than standard solutions. Plenty of working space allows you to complete larger projects without compromising on precision - from small jewelry pieces to large cutting boards, coasters or decorations. Also available as an option is the Auto Streamline™ feeder, which expands the area to approximately 220 x 500 mm, providing additional capabilities - useful, for example, during mass production and bulk orders.

Innovative 3D Curve™ engraving and cylindrical machining

The exclusive xTool 3D Curve technology automatically creates 3D models for curved surfaces, enabling seamless engraving of designs on irregular shapes. In addition, the RA2 Pro is the world's first 4-in-1 rotary system (sold separately) to support 90% of cylindrical engraving, supporting 4

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forms of rotation tailored to shapes such as rings, Christmas baubles and mugs, for example.

Safety at the highest level

A stable extraction system effectively removes smoke and dust during engraving, maintaining a clean and safe working environment. A fully enclosed cover effectively blocks harmful light from both the 455nm diode laser and the MOPA laser, and an emergency stop button and fire safety alarm with automatic stop further enhance safety.

xTool software ecosystem

The advanced yet user-friendly xTool Creative Space (xcs) software greatly simplifies the engraving process. A library of more than 300 materials allows for test-free setup, and intelligent path planning increases productivity by up to 300%. Simultaneous operation of several devices is also possible. In addition, the Atomm platform offers more than 5,000 ready-made design ideas with detailed instructions, and the Almake system creates various designs in as many as 10 available styles based on user prompts.

Included

- xTool F2 Ultra laser engraving machine
- Touchscreen controller
- Tube
- Power supply
- Power cable
- USB cable
- Key
- Ribbed panel
- L-shaped positioning element
- Dust-free cloth
- Screwdriver
- Material package
- Quick reference guide
- Safety instructions

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Manufacturer	xTool
Model	P1010155
Laser type	40 Watt diode + 60 Watt MOPA laser
Operation mode	Laser engraving, laser cutting For laser cutting: Laser diode: paper, wood, leather, MDF, felt, some dark opaque acrylics; MOPA laser: brass, stainless steel, aluminum;
Supported materials	For laser engraving: Laser diode: paper, wood, leather, MDF, stainless steel, some dark opaque acrylics, bamboo, fabric, dark glass, ceramic, jade, marble, slate, cement, brick, coated metal, painted metal; MOPA laser: stainless steel, aluminum, brass, silver, plastic, platinum, titanium, gold
Working area	Approx. 220 x 220 mm (8.6" × 8.6"); Approx. 220 x 500 mm (8.6" × 19.6") with optional feeder
Max. operating speed	590.55 ips (15,000 mm/s)
Max. thickness of laser cutting (linden)	23 mm (0.91") in multiple passes
Max. thickness of laser cutting (acrylic)	20 mm (0.79") in multiple passes
Max. processing height	150 mm
Max. diameter of rotary engraving	150 mm
Supported software	xTool Creative Space / Atommm
Operating system	Windows / macOS
Connection method	USB / Wi-Fi / IP
Supported files	SVG / DXF / JPG / JPEG / PNG / BMP / TIF

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Almake compatibility	Yes
Pre-assembled	Yes
Built-in camera	48 MP, dual
Positioning method	Camera positioning
Focusing mode	Autofocus
Metering system	Not applicable
Viewing method	Intelligent camera viewing
Laser spot size	0.09 x 0.1 mm (40 W diode laser); 0.03 x 0.03 mm (60 W MOPA laser);
Positioning precision	0.2 mm
Measurement precision	0.2 mm, camera
Image resolution	Not applicable
Motion accuracy	0.00482 mm
Safety certification	Laser Class 4
Product dimensions	294 x 429 x 521 mm (11.57" x 16.88" x 20.51")
Weight	F2 Ultra: 21.6 kg
Max input power of the device	400 W
Input voltage of the power supply	100 V - 240 V, AC 50/60 Hz

Gross weight: 31030, Net weight: 29870, Box length: 65,00, Box width: 63,00, Box height: 39,50, Power (W) [eng]: 60, GPSR Link: https://psr-assets.innpro.pl/creative_technologies/sg_creative_technologies_laser_engravers_and_cutters.pdf, Information about data generation: <https://dataact.innpro.pl/xTool/6928819532069>