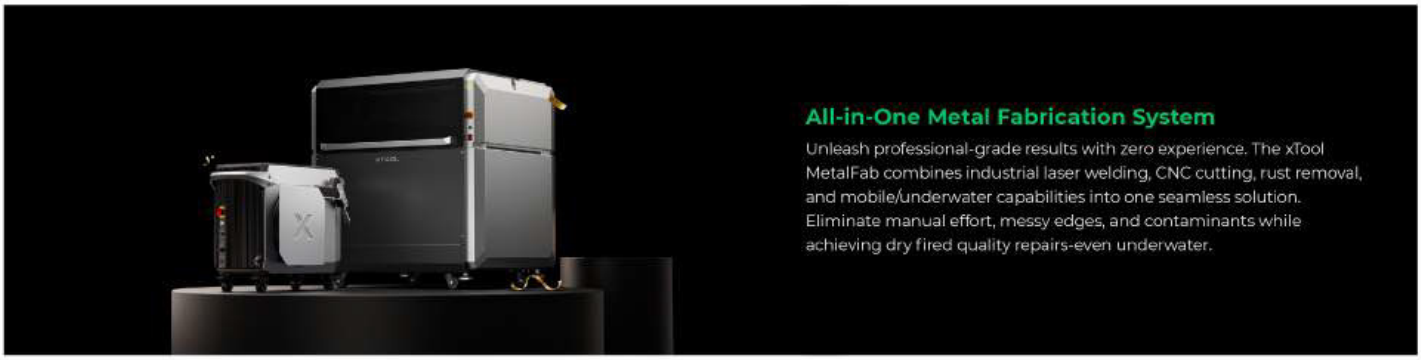
XTOOL

xTool MetalFab Laser Welder and CNC Cutter 1200W/800W

Metalworking Made Simple



All-in-One Metal Fabrication System

Unleash professional-grade results with zero experience. The xTool MetalFab combines industrial laser welding, CNC cutting, rust removal, and mobile/underwater capabilities into one seamless solution. Eliminate manual effort, messy edges, and contaminants while achieving dry fired quality repairs-even underwater.

One Laser, Two Masteries

Weld Perfectly: Fiber laser technology minimizes heat-affected zones (<0.002 inch), enabling distortion-free welding for metals up to 0.2 inch thick.
Cut Precisely: 1200W fiber laser effortlessly slices through carbon steel (0.39 inch) with smooth, clean edges.

Industry-Grade Technologies Made Smarter

The 16MP + Z-axis macro dual-camera system achieves 98.7% material efficiency and <0.2mm precision. Supports large-scale and micro-component production, with manual feeding for expanded capacity. Smart Flow Cutting boosts repetitive tasks by 50% via optimized paths.

Redefining Metalworking: Faster. Simpler. Cleaner

This innovative solution simplifies professional processing into two steps, enabling 90% faster operations with no experience needed. It removes complex workflows, skill requirements, and hazardous byproducts like metal spatter/fumes, while ensuring an 80% cleaner workspace. Designed for all skill levels, it combines industrial precision with user-friendly operation.

Module	Project	xTool Metal Welder	xTool CNC Platform
Processing Capacity	Laser power	1200W | 800W	/
	Laser type	Fiber laser	
	Processing mode	Welding / Cutting / Rust Removal & Cleaning	CNC Cutting / CNC Rust Removal & Cleaning
	Supported materials	Stainless Steel, Aluminum Carbon Steel, Titanium, Nickel Alloy, Copper Galvanized sheet, Magnesium, Wood, Acrylic, Glass, Leather, Plastics & more	
	Working area	/	610mm*610mm
	Pass-Through Size	/	610*+∞
	Max. Working Speed	/	400/mm
Accuracy & Precision	Laser Spot Size	0.1mm	/
	Work Table Maximum Load	/	100KG
General	Machine Dimensions	728mm * 327mm * 512mm	Storage mode: 1175*1157*749mm Usage mode: 1175*1157*1130mm
	Machine weight	41KG	150KG
	Machine output	4.5kw	250w
	Machine power supply	220V 20A	110~240V 2.5A
	Storage temperature	10°F ~ 140°F	10°F ~ 140°F
	Operation temperature	10°F ~ 140°F	10°F ~ 140°F
	Safety	Enclosed with built-in safety sensors	
	Filtration	Compatible with xTool Air Purifier 2	