



ID1 SOURCE

L A S E R W E L D I N G S Y S T E M



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| 1 | INTEGRATED TOUCHPAD FOR SETTING AND STORING PROCESS PARAMETERS | 6 | WORKPIECE ILLUMINATION |
| 2 | 10x LEICA MICROSCOPE WITH CROSSHAIRS FOR FOCAL CLARITY, AIMING PRECISION, AND LIGHT PROTECTION | 7 | 220V SINGLE PHASE POWER REQUIREMENT |
| 3 | EXTERNAL TRIGGER TO FIRE LASER | 8 | 300 - 600 W SOLID STATE LASER POWER SYSTEM |
| 4 | TILT AND ROTATION ADJUSTMENTS FOR ERGONMIC POSITIONING AND PART FLEXIBILITY | 9 | AIR COOL POWER SUPPLY |
| 5 | CONTROLLABLE ASSIST GAS NOZZLE SYSTEM | 10 | FIBER AVAILABLE IN 3 LENGTHS |

INTELLIGENTLY DESIGNED FOR YOUR CUSTOM APPLICATIONS

Laser welding is an irrefutable technology in tool repair, production applications, and beyond. Rather than introducing a more rigid system, built specifically for a certain application, we are presenting a base model of our proven laser welding equipment.

The American-Made ID1-Source is a laser welding system engineered with full flexibility in mind. At its core, this base model can be used as a standalone unit for spot-welding, but the flexibility really happens when it's integrated into your dedicated automated motion system. This is where you are able to achieve more versatility, such as seam welding and additive wire welding. The compact ID-1 Source is ideal for automation businesses, inhouse production purposes, a machine add-on, insourcing needs, research work, and beyond.

The ID1-Source features a lightweight head for mounting, changeable working distance lens options, and a compact laser with tablet control for easy integration into manual, automated, and robotic equipment. It has real-time viewing, via microscope, of the laser location and welding process, as well as programmable welding formulas, and interface for laser firing.

<p>MACHINE BENEFITS:</p> <ul style="list-style-type: none"> • Easy to integrate modular design • Low maintenance fiber laser • Full parameter control • High pulse-to-pulse stability • Precision beam quality and spot control • Compact footprint cabinet 	<p>FIBER LASER BENEFITS:</p> <p>Fiber lasers are the most efficient easiest to maintain laser made today. They use diodes coupled with fibers to replace the YAG crystal and lamp assembly that typically wear down. These laser types have extended service life, higher power versatility, and greater wall plug efficiency.</p>
	<p>MATERIAL APPLICATION:</p> <p>Most tool steels, Copper based materials, Aluminum, Gold, Silver, Titanium, Stainless Steels, some exotic materials, etc.</p>

ID1. **SOURCE** LASER WELDING SYSTEM

TECHNICAL SPECS:

	300 Watt	450 Watt	600 Watt
PRODUCT NAME:	ID1-SOURCE FIBER LASER WELDER		
LASER SAFETY:	CLASS 4 STANDARD		
BEAM SOURCE:	FSS - FIBER LASER		
WAVELENGTH:	1070 nm		
MAX PULSE ENERGY:	30 Joules	45 Joules	60 Joules
MAX AVG POWER:	300 Watt	450 Watt	600 Watt
ENERGY ADJ MODE	10 - 100%		
VOLTAGE:	220 V Single Phase		
PULSE WIDTH:	0.1 - 20 ms		
MODES:	PULSED / CW		
PULSE FREQUENCY:	1 - 50 Hz *		
FOCAL LENGTH:	200 mm STANDARD *		
SPOT SIZE:	0.002" - 0.060"		
MICROSCOPE TYPE:	LEICA® 10x STEREO MICROSCOPE *		
ILLUMINATION:	INTEGRATED LED RING LIGHT		

* - OPTIONS AVAILABLE



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