



a1D1

LASER WELDING SYSTEM
FIBER TECHNOLOGY INTELLIGENTLY DESIGNED FOR THE MOLDING INDUSTRY.



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| 1 | INTEGRATED TOUCHPAD FOR SETTING AND STORING ALL PROCESS PARAMETERS | 7 | 220V SINGLE PHASE POWER REQUIREMENT |
| 2 | 20x LEICA MICROSCOPE WITH CROSSHAIRS FOR FOCAL CLARITY, AIMING PRECISION, AND LIGHT PROTECTION | 8 | 300-600 W SOLID STATE LASER POWER SYSTEM |
| 3 | 250 mm OF MOTORIZED X AND Y TRAVEL | 9 | AIR COOL POWER SUPPLY |
| 4 | TILT AND ROTATION ADJUSTMENTS FOR ERGONMIC POSITIONING AND PART FLEXIBILITY | 10 | PROGRESSIVE JOYSTICK WITH COMPLETE X,Y,Z MOVEMENT CONTROL AND 2 SPEED RANGES |
| 5 | ASSIST GAS NOZZLE SYSTEM FOR CLEANER WELDS | 11 | 760 mm OF MOTORIZED Z TRAVEL |
| 6 | ACCOMODATES PALLET JACK FOR PORTABILITY | | |

INTELLIGENTLY DESIGNED FOR THE MOLDING INDUSTRY

The ID-1 Welding System is a pure, hands-on laser welding machine. Every part of the machine is easily adjustable to allow the versatility and flexibility necessary to meet your repair demands. Our engineers have removed unnecessary features that tend to raise prices and focused on creating a manually adjustable, high precision, maintenance-free, affordable laser welding solution with a small footprint.

With Solid State fiber laser technology, the ID-1 is powered through a series of diodes instead of conventional hard optics, making it the preferred method of generating processing energy. This type of laser eliminates the need for annual service calls and repairs.

If you are looking for a laser welding system that you can trust day-in and day-out to produce the best results for your precision jobs, the ID-1 is the only choice.

<p>MACHINE BENEFITS:</p> <ul style="list-style-type: none"> • Very versatile and easy to use • Low maintenance fiber laser • Outstanding control • Very little wear on parts • Greater wall plug efficiency • Flexibility to work on complex jobs 	<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>

a ID.1

LASER WELDING SYSTEM

TECHNICAL SPECS:

	300 Watt	450 Watt	600 Watt
PRODUCT NAME:	ID - 1 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:	0.0002" - 0.060"		
MICROSCOPE TYPE:	LEICA® 10x STEREO MICROSCOPE *		
ILLUMINATION:	INTEGRATED LED RING LIGHT		
JOYSTICK:	3-AXIS HAUL EFFECT WITH LASER TRIGGER		

* - OPTIONS AVAILABLE



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