



# a1D1

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



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

# 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><b>MACHINE BENEFITS:</b></p> <ul style="list-style-type: none"> <li>• Very versatile and easy to use</li> <li>• Low maintenance fiber laser</li> <li>• Outstanding control</li> <li>• Very little wear on parts</li> <li>• Greater wall plug efficiency</li> <li>• Flexibility to work on complex jobs</li> </ul> | <p><b>FIBER LASER BENEFITS:</b></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><b>MATERIAL APPLICATION:</b></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® 20x STEREO MICROSCOPE *        |           |           |
| ILLUMINATION:     | INTEGRATED LED RING LIGHT             |           |           |
| JOYSTICK:         | 3-AXIS HAUL EFFECT WITH LASER TRIGGER |           |           |

\* - OPTIONS AVAILABLE



265 INDUSTRIAL DR. WAUCONDA IL 60084  
P: 847.487.1945 E: INFO@ALLIANCELASERSALES.COM  
[ALLIANCELASERSALES.COM](http://ALLIANCELASERSALES.COM)