



# a1D1UR

**ROBOTIC LASER WELDING SYSTEM**

# INTELLIGENTLY DESIGNED FOR MANUFACTURING FLEXIBILITY

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Automation is a key component of manufacturing, and that need is only going to continue to grow. Laser welding is now a proven technology when it comes to tool repair and production applications. We figured it was time to marry the two technologies into the first ever, Robotic driven, laser welding system for mold repair, repetitive welds, and light automation.

The all-new American-Made ID1-UR is a laser welding system engineered to handle every project that comes your way. Built utilizing a Universal Robot™ UR10e co-bot to control the 6 axes either by joystick control, UR pendant, or automated programming; production laser welding applications have never been easier, and you can use the same system for all of your tool repair needs.

The ID1-UR comes standard with 300 watts of fiber laser power allowing you the ability to weld virtually most metallic materials without the need for a water chiller, high wall-plug current, or costly maintenance worries.

<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>• Teach planes for production welding</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, MoldMax, Stainless Steels, some exotic materials, etc.</p>

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| <b>1</b> INTEGRATED TOUCH PAD FOR SETTING AND STORING PROCESS PARAMETERS  | <b>7</b> 220V SINGLE PHASE POWER REQUIREMENT  |
| <b>2</b> LEICA™ MICROSCOPE - WITH CROSS HAIRS FOR FOCAL AIMING PRECISION AND REAL-TIME VIEWING  | <b>8</b> IPG™ LASER - SOLID STATE 300 TO 600 WATT                                     |
| <b>3</b> UNIVERSAL ROBOT™ CO-BOT - EASY PROGRAMMING & WORLDWIDE TRAINING SUPPORT  | <b>9</b> AIR COOL POWER SUPPLY  |
| <b>4</b> 6-AXES OF MOTION FOR COMPLEX WELD PATHS, TILT & ROTATION ADJUSTMENTS FOR ERGONOMIC POSITIONING, PART FLEXIBILITY, AND UNCOMPLICATED FIXTURING. | <b>10</b> PROGRESSIVE JOYSTICK WITH COMPLETE 6 AXIS MOVEMENT CONTROL & 2 SPEED RANGES |
| <b>5</b> SHIELD GAS NOZZLE SYSTEM FOR CLEANER WELDS   | <b>11</b> STRONG HAND TOOLS™ TABLE - ROBUST, INDUSTRY ACCEPTED                        |
| <b>6</b> ACCOMMODATES PALLET JACK FOR PORTABILITY   | <i>*OPTIONS: REAL TIME CAMERA &amp; MONITOR, ROTARY AXIS, PROGRAM TRAINING.</i>       |

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## ROBOTIC LASER WELDING SYSTEM

### TECHNICAL SPECS:

	300 Watt	450 Watt	600 Watt
PRODUCT NAME:	ID - 1 UR ROBOTIC LASER WELDING SYSTEM		
LASER SAFETY:	CLASS 4 STANDARD		
BEAM SOURCE:	IPG™ 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 VAC 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® 20x STEREO MICROSCOPE *		
ILLUMINATION:	INTEGRATED LED RING LIGHT		
ROBOT:	UNIVERSAL ROBOT™		
JOYSTICK:	3-AXIS HAUL EFFECT WITH MULTIFUNCTION SWITCH		

\* - OPTIONS AVAILABLE



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