

# Laser Welding Cell

## Cobot Systems

Discover the industry-first Laser Welding Cobot System designed as a complete engineered package for automating welding processes typically done with MIG/GMAW or TIG/GTAW.

Take Advantage of an All-in-one Laser Welding Robot

Our comprehensive solution includes a UR10e cobot, IPG LightWeld laser welder, UR Cap software, safety interface, work cell enclosure, work table, and modular fixtures and clamps. The Laser Welding Cobot System can weld a wide range of materials and material gauges, ensuring high-quality, repeatable results on every job.

Traditional welding methods are time-consuming and difficult to learn. TIG welding is a time-consuming, two-handed method requiring an experienced, highly-skilled welder. MIG welding requires a consumable wire, material pre-cleaning, and beveled joints for thick metals for full penetration. Using the IPG LightWELD laser welder, this cobot system works wonders on a variety of materials and thicknesses, delivering flawless results with minimal distortion, deformation, undercutting, or burn-through.

## Features

- The Laser Welding Cobot System combines an IPG LightWeld laser welder with the UR10 cobot, offering less distortion and faster welds. It is completely automated. The typical laser welding cobot cell comes with:
  - UR10e Cobot
  - IPG LightWeld Laser Welder & Utilities Dress Package
  - URCap Software
  - Safety Interface
  - Laser-Certified Work Cell Enclosure
  - Work Table
  - Modular Fixtures and Clamps
- Laser Welding can confidently replace any MIG or TIG processes. IPG's LightWeld laser welder is 4X faster than manual TIG welding and doesn't have the same material and gauge limitations. Unlike MIG welding, the handheld laser welding machine is highly versatile and can easily accommodate a wide range of travel distances, angles, and vertical positions.



## Specifications:

### ■ Software version required

UR Polyscope 5.11, Laser Welding URCap 1.2

### ■ Dependencies

Electrical: 110 VAC, 30 AMP, 60 Hz, Single Ph,; 230 VAC, 30 AMP 60Hz, Single Ph

Air: 90 PSI @ 5 CFM

Shield Gas: Argon or Nitrogen, with Pressure regulator (20-60 psi)

### ■ Certifications and standards

Machinery Directive 2006/42/

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

### ■ Dimensions

64" X 43" X 52" ; 1100lb

### ■ What's in the box?

LightWELD1500

EOAT

Welding Table

Enclosure

Cobot

Software

Clamping Fixtures

### ■ LICENSE

One time purchase

