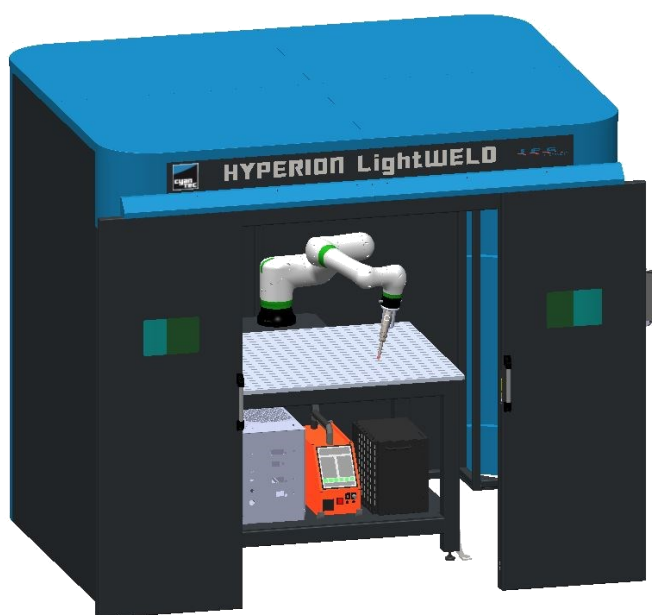


Hyperion - LightWELD

PRODUCTION LASER SYSTEM

**CYAN
TEC**

EASY TEACH ROBOTIC LASER SYSTEM



Advantages

- Fast and Easy Setup
- Built-In Presets for Optimized Welds
- Welding Steel, Aluminum, Copper, Titanium, Nickel Alloys
- Up to 4X Faster than TIG
- Cleaning Pre-and Post-Weld
- Very small heat affected zone (Minimal distortion)

Hyperion™ LightWELD is a high-quality, fully integrated robotic laser welding and cleaning system. Easily programmable using simple icons on the teach pendant for lead-through teaching and simple drag and drop programming. Alternatively manually guide the robot to teach it the weld paths and points you want. This coupled with the state of the art LightWELD laser, makes this the ideal solution for quality one off parts, small batch runs and larger scale production.

Robot

The standard system utilises the latest Fanuc CRX Collaborative robot, controlled by the compact R30ib Mini Plus controller. This compact robot has an impressive 1418mm reach and a repeatability of +/- 0.04mm.

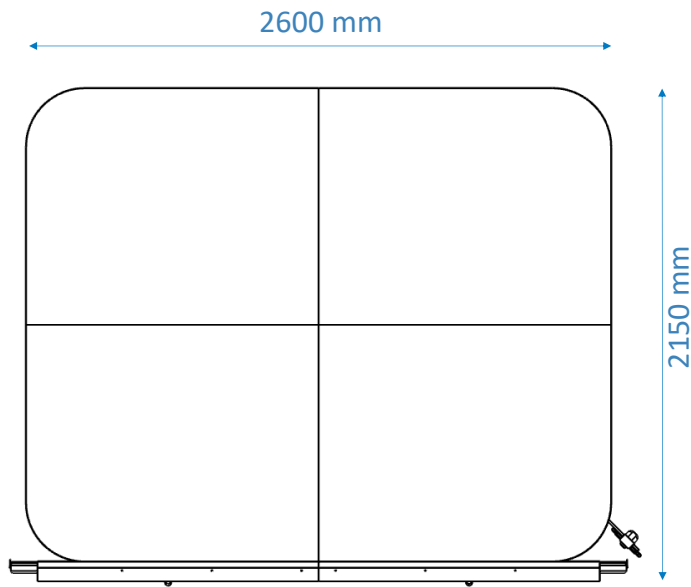
Laser System

An IPG LightWELD XC is integrated into the system, giving up to 1500W of power for welding, and high-frequency pulsed power up to 2500W. It is easily adjusted with intuitive controls to quickly call optimum weld settings for various materials and thicknesses. With 74 stored preset and user-defined process parameters, novice welders can be trained and welding in a matter of hours.

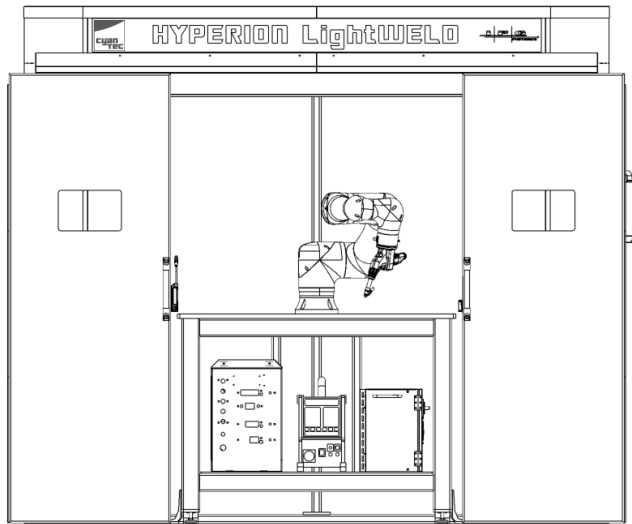


www.cyan-tec.com

+ 44 (0) 1509 815186



Footprint



Front access door open



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Compact Footprint

One of the impressive features of this cell is the compact footprint whilst still allowing clearance around the work table for ease of job set up.

A smaller footprint 'Ultra-Compact' system is also available. (See separate Datasheet)

Guarding

The fully enclosed guard system is designed as a class 1 laser enclosure with fully interlocked access doors, to ensure safety for personnel working on or around the laser system. Large sliding doors to the front of the cell give great access without taking up valuable floor space.

Work Table

The work table can be provided as either a hole based or T-Slot system allowing easy fixing of multiple tools or direct clamping of parts. This is mounted onto a robust steel framework which also houses the weld system, robot controls and any ancillaries.

Options

A number of options can be provided as integrated solutions with the system:

- Wire Feeder
- Extraction
- Rotary Axis (Manual)
- Rotary Axis as 7th Axis working with robot for complex welding paths
- Clamps and datums for table.

If the above machine is not to your exact requirements please talk to us about other systems from our standard range or alternatively a bespoke option.

Cyan Tec Systems Limited

1 Red Rood Way
 Birstall, Leicester
 LE4 3EJ, United Kingdom
 Tel +44 (0)1509 815186
 Email sales@cyan-tec.com
 Web: www.cyan-tec.com

