

**Oxford
sensors**
a new vision for welding

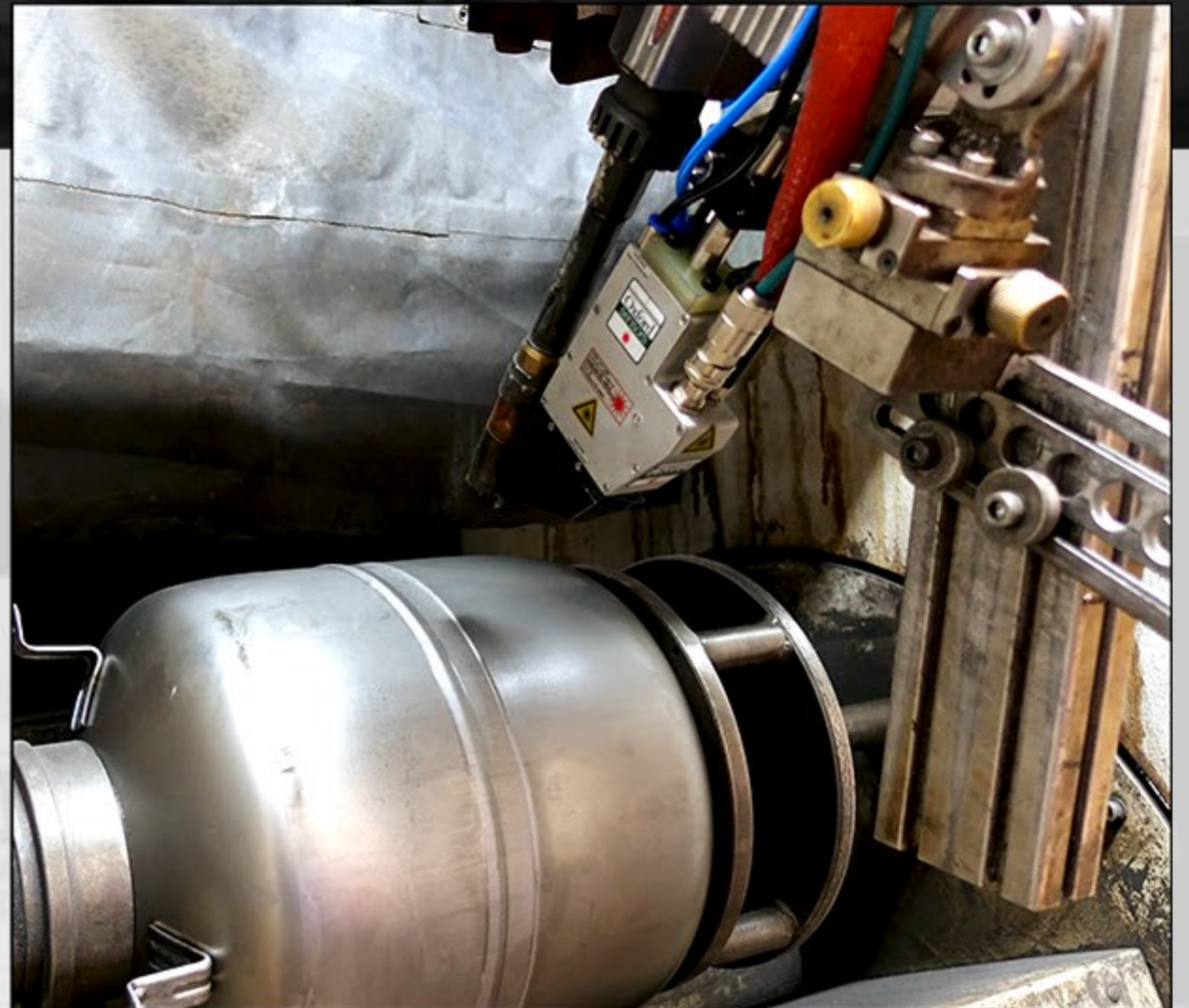
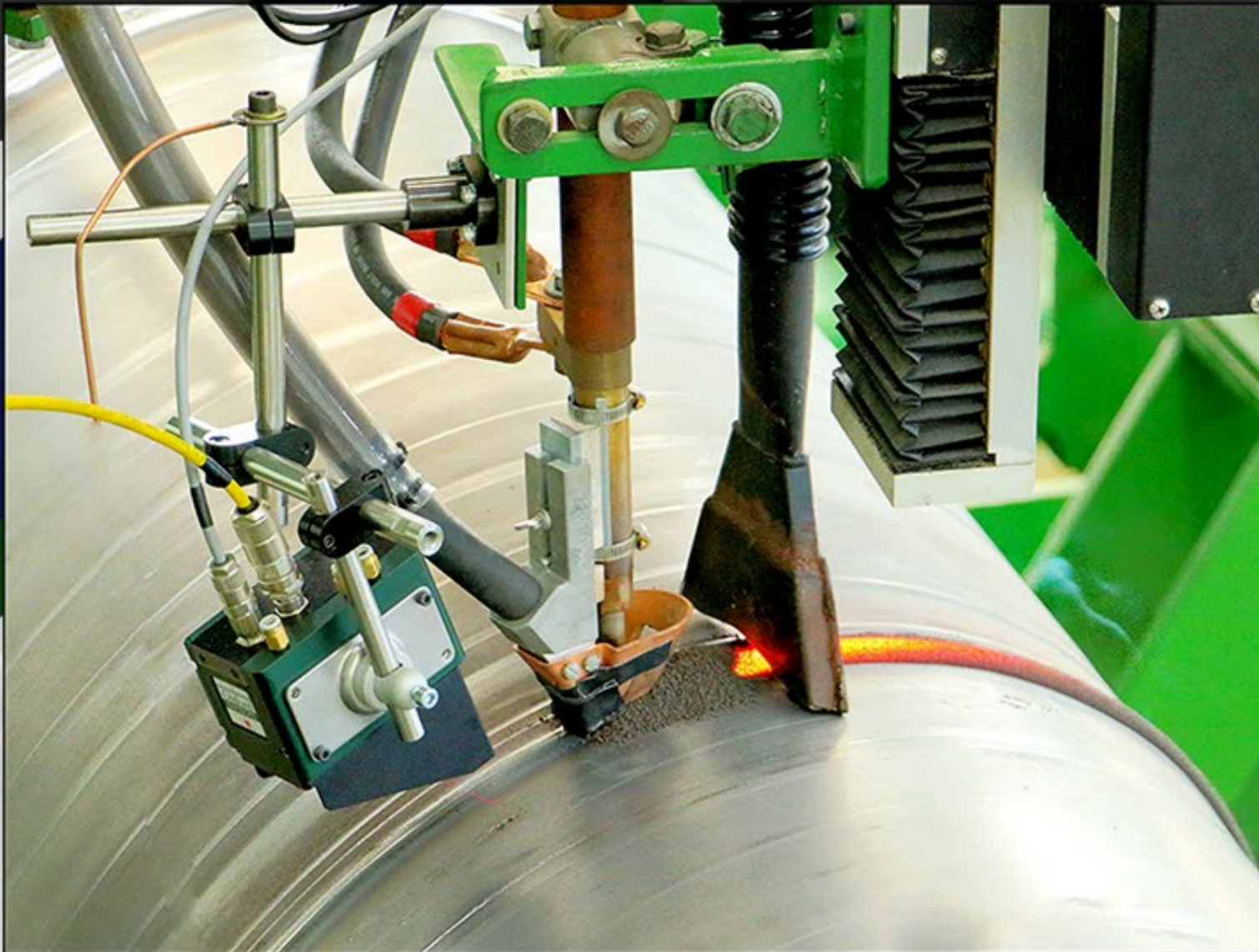


OSL Laser Seam Tracking Systems
Automated Welding

OSL Laser Seam Tracking Systems for Automated Welding

OSL OTrack-M is a laser seam tracking system for automated welding machines.

The system has been designed from the ground up for arc welding with special consideration given to performance, robustness, reliability and ease of use.



Features

- Laser Sensors Designed for Arc Welding
- High standoff, high resolution and large depth of field make for great performance and flexibility in use
- Controller is an industrial PC with no moving parts running OSL's all new Laser seam tracking software
- Informative full colour touchscreen for easy setup, production monitoring and problem resolution
- Sensor isolation module to protect the system from welding shorts

Benefits

- Reliable seam finding and accurate seam tracking
- More accurate than manual or tactile guidance
- Enables higher welding speeds compared to manual control
- Improved weld quality by keeping the electrode in the joint
- Higher productivity from faster starts and higher speeds
- Reduced scrap and rework
- Frees machine operator for other tasks
- Gives better looking welds

Applications

- Tube & Pipe
- Automotive
- Tanks & Fittings
- Construction Equipment
- Aerospace & Defence
- Cabinets, containers & housings

Typical Welding Machine Types

- Column & Boom
- Welding Lathe
- Sidebeam Welder
- Gantry Welder
- Seamer

With all of these benefits, the system gives a rapid return on investment

System Structure

The laser tracking system has four main parts:

1. Laser sensor – usually mounted from the torch
2. Servo Slides – providing high accuracy motion
3. Control Cabinet – with integrated colour touchscreen
4. Operator Pendant

A range of laser sensors are available with different fields of view for different welding types. They all share high resolution and high frame rates for top performance.

Servo slides are available with a range of strokes and load capacities. They all feature high performance brushless servo motors for precise control.

The control cabinet contains an industrial Panel PC with no moving parts, a small plc for connection to the machine control, servo drives and a sensor isolation module which protects the system against short circuits at the welding head.



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