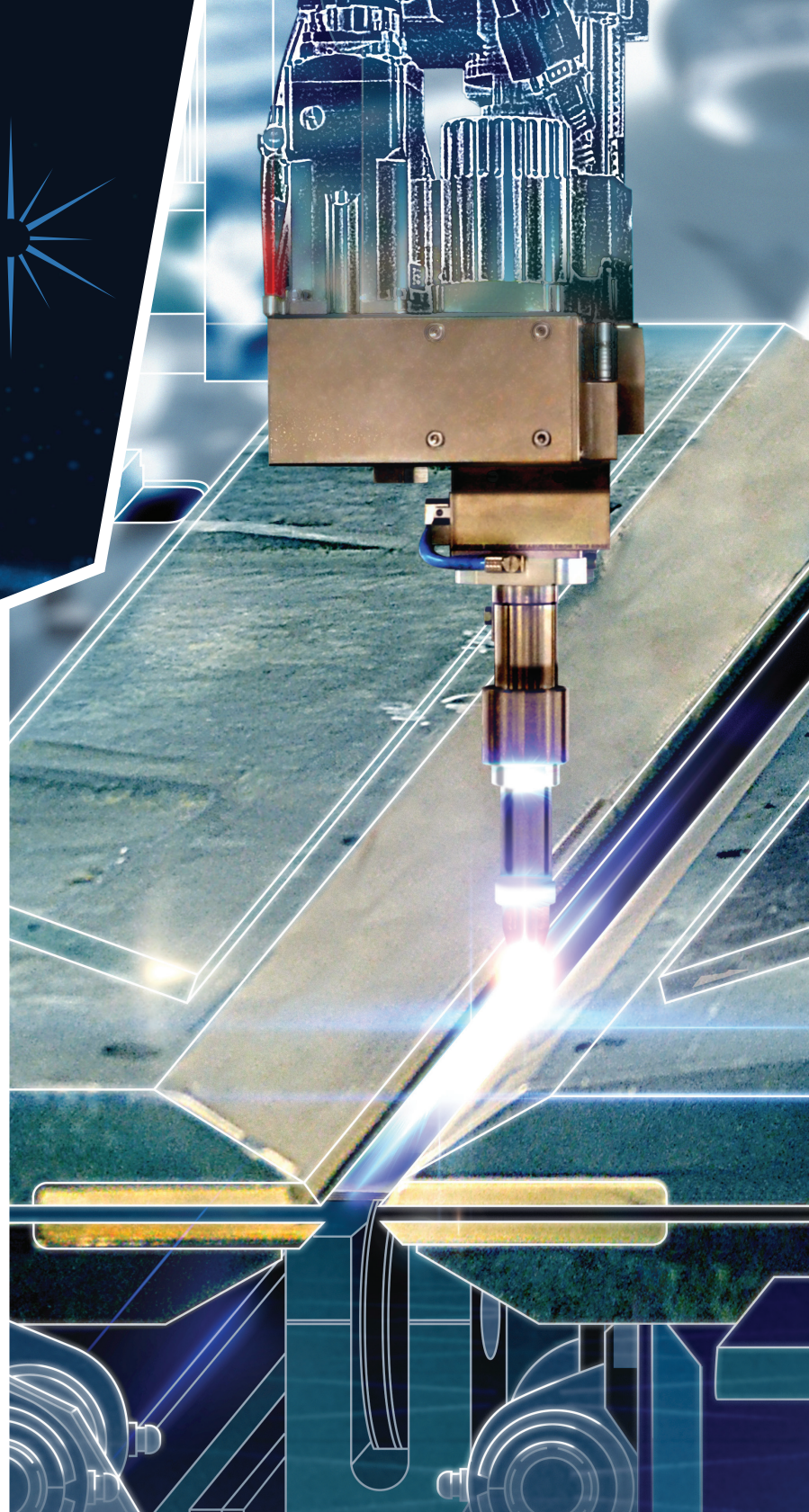


# THE NEW ECLIPSE X1

## LASER WELDING SYSTEM

FOR METAL FINISHING  
AND GALVANIZING LINES

- JOINS LCS THROUGH AHSS & UHSS STEEL GRADES AND OTHER METALS
- ZERO WELD OVERTHICKNESS
- OVERCOMES VARIATION IN STRIP SHAPE AND PRESENTATION
- REAL-TIME FEEDBACK WITH GOOD/BAD WELD QUALITY VERIFICATION
- MADE IN THE USA



**Taylor-Winfield** has a long and substantial history of providing the highest quality coil joining welding machines to the metals processing industry. Our new **Eclipse X1** solid-state fiber laser welder is no exception. The Eclipse X1 is the most technologically advanced laser welder for metal finishing and galvanizing lines, eclipsing all other current systems on the international market.

**Taylor  
Winfield**  
TECHNOLOGIES, INC.

330-259-8500

info@taylor-winfield.com

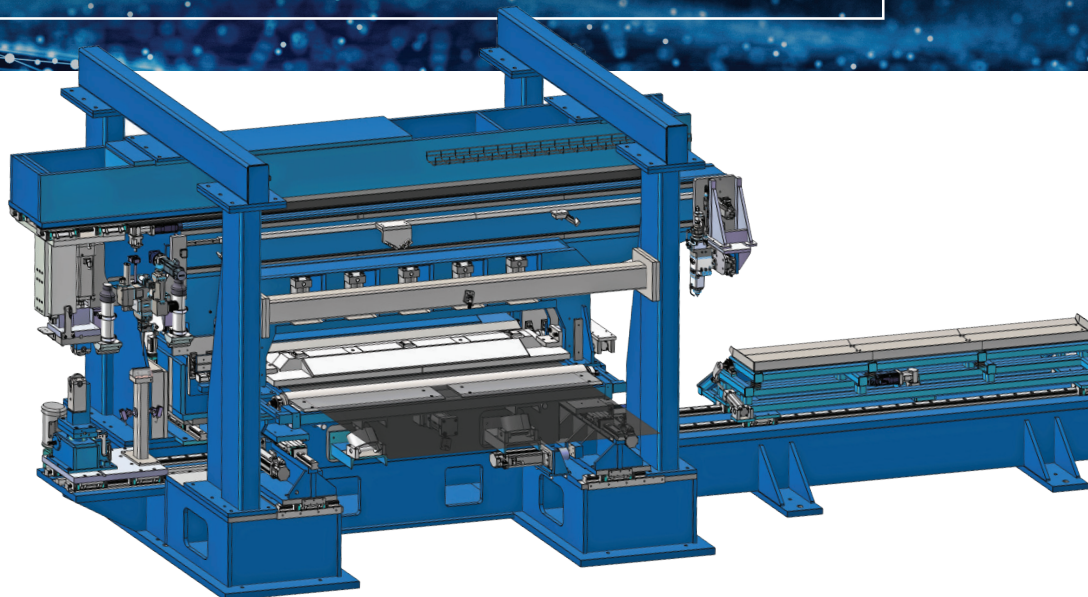
taylor-winfield.com



**PUSHING BOUNDARIES. UPHOLDING TRADITION.**

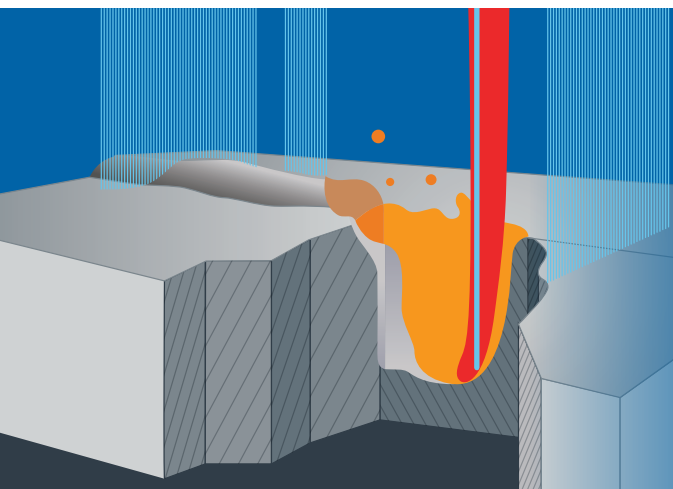
## Strip Material Specifications:

- Steel Grades: Cold & Hot Rolled Steels (LCS, AHSS, UHSS, SS & Silicon)
- Other Materials: Aluminum, Copper & Titanium (grades evaluated per inquiry)
- Strip Thickness: 0.41mm to 4.00mm (0.016" - 0.160")
- Strip Width: 850 - 1930mm (33" - 76")



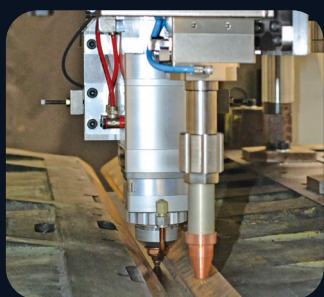
## Mechanical Features:

- Servo Controlled Carriage Drive for Laser Welding & Cutting Head Arrangements
- Entry Clamp with Horizontal and Longitudinal Movement
- Exit Clamp with Vertical Height Adjustment
- Laser Cutting and Welding Heads with Integral Gas Shielding Delivery Systems
- Modular Quick-Change Welding & Cutting Laser Heads
- Servo controlled Upper and Lower Planish Rolls (selectable on/off)
- Laser Weld Identification Hole Cutting
- "No-Touch" Scrap Handling System
- Induction Heating Pre and Post Weld Heat Treatment Power Supplies, Coils & Support Structure (Optional)



## Electrical Features:

- Real-Time Weld Quality Monitoring System, Weld Profiling and GOOD/BAD Weld Quality Feedback
- Dual Screen HMI Operator Station with Live Video Feed
- Machine Operation and Verification System with Data Acquisition, Analysis and Reporting; Industry 4.0 Ready
- Programmable Logic Controller (PLC) for Machine Sequences
- Connectivity: Profinet & I/O Link
- Live Online Remote Machine Monitoring Support via TWConnect



## LASER COIL JOINING R&D LABORATORY

Our full-service metal joining and induction heating R&D Laboratory is now equipped with a fully functional Coil Joining Laser Welder complete with:

- 1930mm Laser Welder with Solid State Fiber Laser Power Supply
- Servo Controlled Laser Cutting & Welding Heads
- Induction Pre & Post Weld Heat Treatment

The Coil Joining Laser Laboratory is available for customer sampling and proof of process validation.