

TITANZ™ MULTI ZONE CONCEPT

ZEMAN SYSTEMS

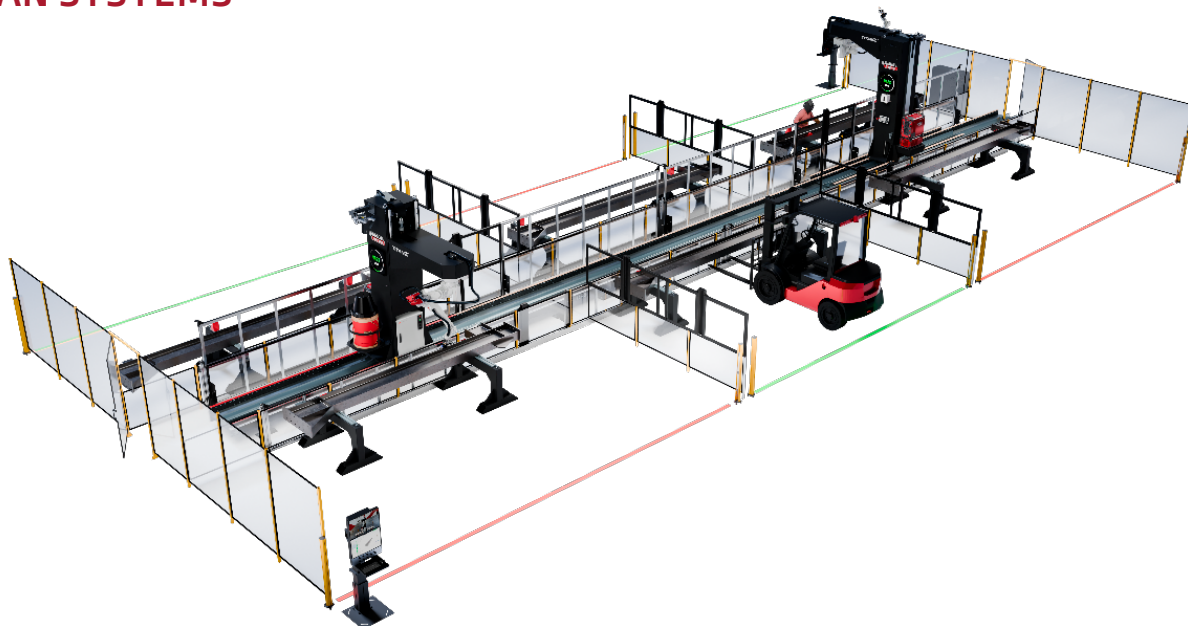


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AUTOMATED MULTI ZONE WELDING CELL | CONCEPT

The TitanZ™ Multi Zone Configuration Concept brings greater flexibility and productivity to structural steel fabrication. With up to two welding towers and up to six custom-sized welding zones, automated and manual welding operations can run side by side. This flexible setup enables efficient use of the available workspace while supporting high throughput and consistent weld quality.

SYSTEM INCLUDES

- Up to 6 Custom Welding Zones
- Welding Tower(s)
- Beam Racks f.e. Welding Zone
- 3D-Vision System (ENVISION)
- Operating Software
- Control Panel(s)
- Safety Equipment
- Camera System for Remote Support
- proFIT™ Manager

OPTIONS AVAILABLE

- Visual Production Timer(s)

INDUSTRIES

- Structural Industry
- General Industry

BENEFITS

- One Zone. Every Weld. Done.
- Lincoln Electric®'s Power Wave® with Proven Welding Technology
- Collaboration between Robot and Human
- Flexibility: Handle Multiple Beams
- Modular Machine Configuration

OPERATING SOFTWARE

With the Zeman TitanZ machine, you receive our proprietary proFIT software to manage the welding process. Using the proFIT Weld import, the software evaluates whether each weld is accessible to the welding torch.

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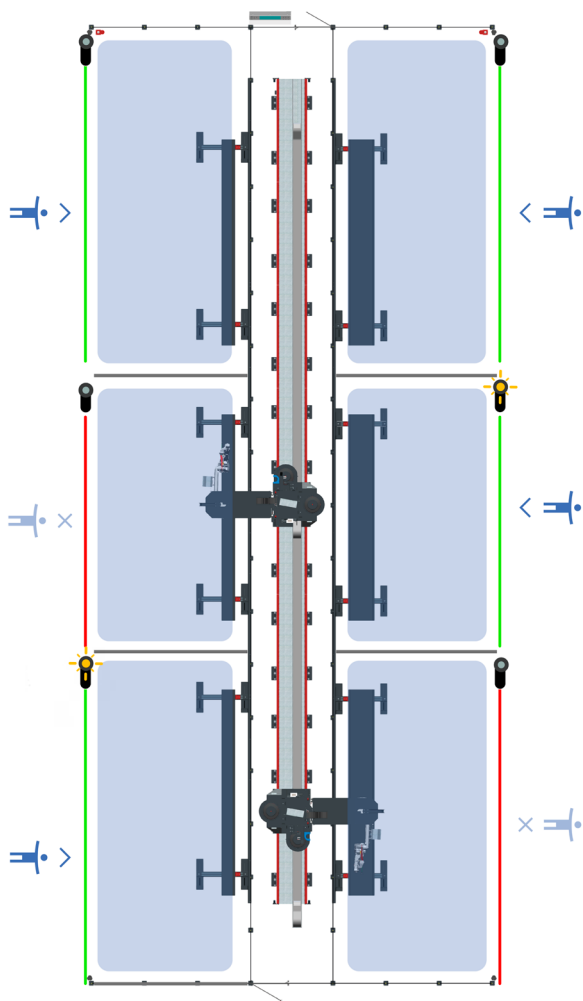
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CUSTOMIZED LAYOUT



Drawing is for reference only

SYSTEM DETAILS

MULTI ZONE WELDING

The system enables a flexible workflow by allowing beams to be processed, rotated, loaded and unloaded independently. Individual welding zones remain accessible without stopping the entire machine, supporting efficient and continuous operation. Floor marking projectors clearly indicate safe access areas and show when entry into the machine area is restricted.

WELDING TOWERS

The two welding towers operate on high-precision tracks and feature industrial robots equipped with laser vision systems and welding guns. A 180° rotational axis enables each tower to operate on multiple back to back work zones with dedicated safety systems.

CONTROL PANEL

The control panel displays production data and allows the operator to monitor and oversee the production process.

ENVISION SYSTEM

ENVISION provides precise 3D-measurement and deviation detection by comparing scanned data with CAD data. The interactive 3D visualization helps operators verify tolerances and identify potential errors before welding.

VISUAL TASK TIMER (OPTIONAL)

Maintain a clear overview of production time and progress at every stage. Real-time information on remaining task time and upcoming operator interactions helps employees coordinate their work efficiently, identify potential issues early and reduce machine downtime.

PRODUCT AND PART SPECIFICATIONS

Depends on machine configuration, weld zones and selected options.

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment, or to provide engineering advice in relation to a specific situation or application. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

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