

A-1 is leading the future of truss manufacturing



In today's rapidly evolving manufacturing landscape, A-1 Industries is at the forefront of a transformative shift in the truss industry, driven by strategic investments in next-generation robotic systems.

This forward-thinking initiative is set to enhance production efficiency, boost output, and significantly improve safety across A-1's facilities, positioning the company as a leader in technological advancement within the structural building component industry.

The Rise of Robotics in Manufacturing

Robotics have revolutionized industries worldwide, and the truss sector is no exception. These advanced systems execute tasks with unmatched precision and speed, reducing human error and streamlining operations. In a sector that demands high accuracy and consistency, robotics minimize errors while driving productivity, making them indispensable to the future of manufacturing.

Boosting Efficiency and Production Output

At A-1, staying competitive means embracing innovation. The company's investment in cutting-edge robotic systems automates repetitive, labor-intensive tasks, allowing skilled workers to focus on complex, value-added aspects of production. This shift not only accelerates output but also maintains the exceptional quality that customers expect. By harnessing the power of robotics, A-1 increases efficiency, lowers costs, and sets new standards for productivity.

Prioritizing Workplace Safety

Safety is a top priority at A-1, and robotics play a crucial role in reducing workplace hazards. Manufacturing environments often pose risks, especially with heavy machinery and repetitive tasks. By assigning robots to handle dangerous jobs, A-1 minimizes the likelihood of accidents, fostering a safer and healthier work environment. This commitment to

safety creates a culture of well-being and trust while driving operational excellence.

Leading the Truss Industry Into the Future

A-1 is poised to lead the truss industry into a new era of automation and efficiency. The company's investment in robotics reflects its dedication to innovation, safety, and delivering superior products. As A-1 looks ahead, it is not just preparing for the future of manufacturing but setting the benchmark for what is possible in the truss industry.

A centerpiece of A-1's automation efforts is the back plating robotic system, which automates the application of back plates to trusses. This technology ensures precision and consistency in each component, reducing human error and improving overall product quality. The system operates with exceptional efficiency, resulting in faster production times while upholding the high standards customers rely on.

Cart Tugger for Lumber Transportation

To enhance material handling, A-1 has introduced the cart tugger system, designed to transport lumber carts within the facility. This innovation streamlines the movement of materials, reducing physical strain on the workforce and enabling them to focus on more complex tasks, thereby significantly improving operational efficiency and workflow.

Plate Management System

The plate management system is a sophisticated software solution that tracks plate inventory in real-time. It provides instant access to stock levels and locations, ensuring materials are available when needed, preventing production delays, and reducing waste. This system optimizes inventory management and cuts costs while maintaining an uninterrupted production flow.

What's Coming Next

A direct feeding system from pre-plating to assembly will be introduced, enabling a seamless transition that will significantly accelerate production times. The company's automated lumber-picking system is set to revolutionize material handling by improving accuracy and efficiency while reducing the physical strain on workers.

A-1 is also enhancing its splicer ejection system, improving its functionality to contribute to smoother



and more efficient operations. Finally, the implementation of pre-plate systems for roof and floor lines will increase production speed and optimize assembly, allowing A-1 to meet growing demand with greater efficiency and precision.

Together, these advancements represent a strong commitment to staying at the forefront of technological progress, setting new standards for quality and performance while reshaping the future of truss manufacturing.

"Our investment in cutting-edge technology isn't just about increasing output; it's about delivering unmatched consistency and quality for our customers," said Miguel Amiuny, president, manufacturing. "By enhancing automation, we ensure that every product meets the highest standards, reinforcing the trust our partners place in us."

Employee-owned A-1 Industries stands as the premier manufacturer of pre-engineered wood trusses and the EZWALL® Innovative Framing Solution™ in the Southeastern

United States. Since 1977, A-1 has proudly set industry standards through an unwavering commitment to quality and innovation.

With state-of-the-art facilities in Florida and Georgia, cloud-backed design capabilities, and a dedicated company-owned fleet, A-1 is fully equipped to manufacture and deliver building components with unmatched speed and reliability. A-1 partners with single-family, multi-family, custom home, and commercial builders across the region, providing top-quality structural components at competitive prices. Through the A-1 Partner Pledge, the company ensures timely delivery—where and when needed.

Guided by the mission, "Using Technology to Change the Way America Builds Homes," A-1 tackles projects of any size or complexity, establishing itself as a trusted source for structural building component solutions.

