



One such example is the new WSA Automatic Robotic Top Pad Inserter & Label Applicator designed for finished goods lines and sheet lines. This system features an ABB Robot with special vacuum gripper head, measures each unit, automatically places customisable dunnage patterns on top of each stack, folds the dunnage down and has an option to automatically apply a load tag. No longer do you need to rely on an operator to apply top dunnage, fold the sheets down and apply a load tag. This is a game changer which further promotes full automation in plants. WSA's goal is to eliminate the menial tasks and continue to advance automation. Now running in North America!

WSA USA is also a North American leader in Vertical AS/RS Storage solutions for WIP and Finished Goods applications. They have the first three installations running successfully in the USA at plants in the Midwest and Northeast with more to come in 2025 and beyond. These high-capacity systems support the largest and most automated plants in the industry. The benefits include an increase in corrugator efficiency, significantly reduced product handling and waste, increased storage capacity, greatly improved energy consumption, reduction in plant footprint and building construction costs to name a few. If you are planning a new greenfield or looking to upgrade an existing facility there is no economic reason not to consider vertical storage.

WSA USA also continues to advance Finished Goods Solutions with its new Pallet Inserter and Load Tying Device.

CONTINUED EVOLUTION IN AUTOMATION

2024 WAS AN EXCITING YEAR FOR WSA USA AS THEY DESIGNED AND COMMISSIONED SOME OF THE MOST ADVANCED AND AUTOMATED PLANTS IN THE INDUSTRY. THE COMPANY CONTINUE TO ADD TO ITS AUTOMATION SOLUTIONS AVAILABLE FOR CUSTOMERS.

In one compact machine, you can automatically stack two units and place on one pallet. Or palletize individual units as required. Its another example of how WSA USA automate customers' processes. Why ask a fork lift driver to double stack a unit and place on a pallet if this can be done with automation?

The WSA iFAS Factory Automation System seamlessly integrates material handling system with the plants ERP system and other OEM equipment from corrugator takeoff through WIP and throughout the finished goods line and warehouse with advanced order tracking and automation. All supported by the company's US based team which provides intimate customer support. This is one of the most advanced

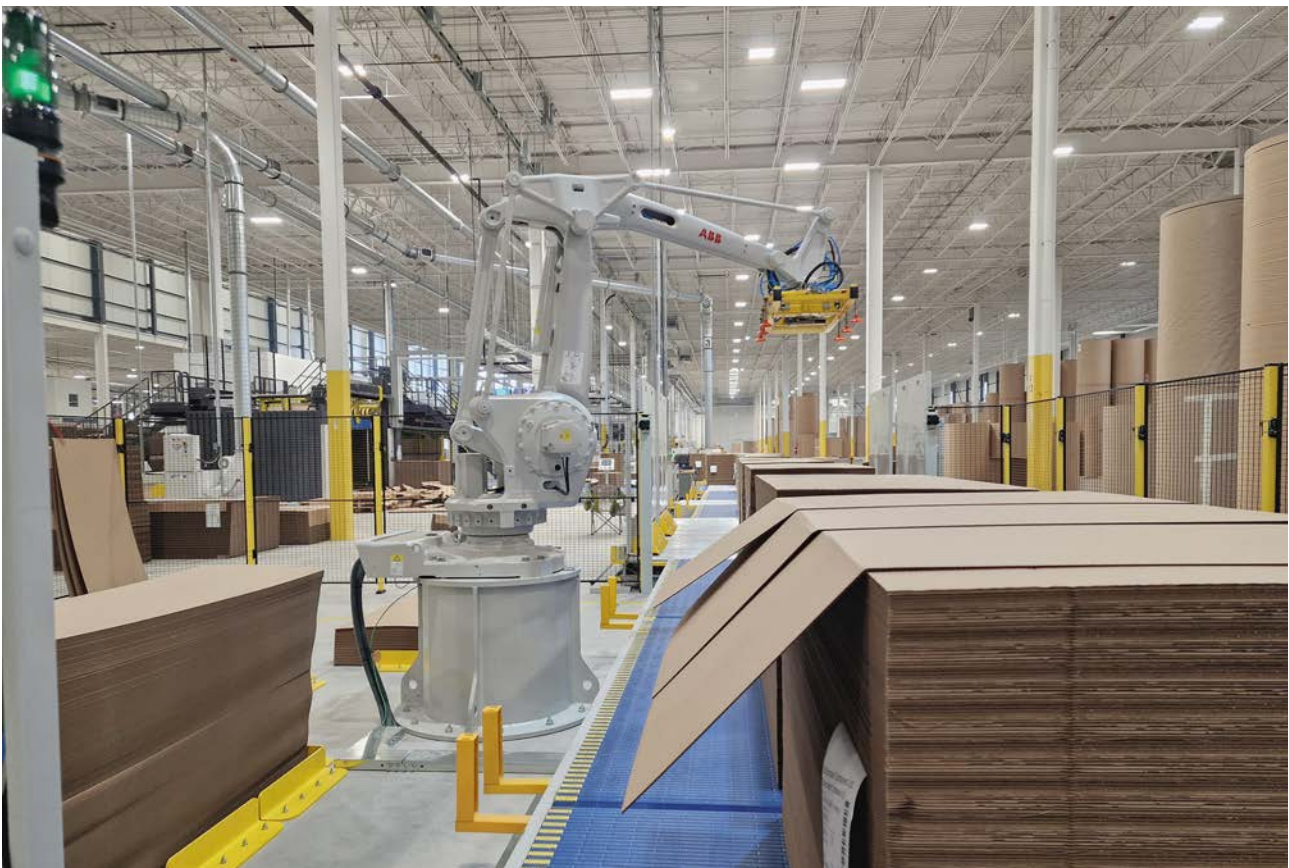
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Industry 4.0 Smart Factory systems available running in many plants across North America today.

When we think about the future of finished goods warehouses, WSA USA see high bay fully automated dark warehouse storage and retrieval systems and a fully automated truck staging and loading process. They have this technology available to industry today. Fully automated truck loading in eight minutes which is already used in other industries.

Digital Twin Simulation

"How do we know if this layout and investment will support a planned business mix and company goals and objectives? Can we present this to the board with true confidence in the end results? Trust the factual data and not the salesman." WSA USA take a different approach to a new greenfield or major plant upgrade with its Digital Twin Simulation Team. In the simulation module, WSA USA create a digital twin of the exact planned





CAD layout, include all of the specifications of the converting machines, corrugator and ancillary equipment, input all the order data statistics from your ERP system, factor in shifts, scheduled and unscheduled downtime, PM's and much more. They include details from A-Z including number of fork lift drivers in shipping, truck loading times etc. "What happens next year if I replace an older

machine with a new high speed flexo or die cutter? What if I upgrade my corrugator to a higher speed." WSA USA maintain your layout in digital form to be able to have intelligent and educated discussions now and in the future as your business grows or changes.

WSA USA also offers a full complement of peripheral solutions from pre-feeders, robotic

palletizers, bundle breakers and bundle line systems, pairing corners, load formers and so much more. WSA USA sees themselves as an automation partner in every aspect; not just in conveyance and storage systems but also in peripherals.

Jim McLaughlin, President, says, "What I am most proud of beyond all of our advances in our automation solutions is the team we have assembled for 2025 and beyond and in our approach to how we manage our projects and installations. We are different; I am told that regularly. We have a very intense focus on project management from inception to completion. No small detail is spared which helps ensure we meet every customer expectation and more and that we stay on time and on budget."



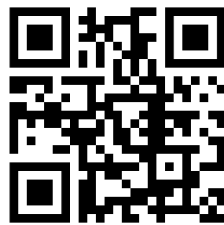
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to get started.

