

KNAPP Launches Shuttle for Freezer Applications

Press Release: Published on March 12, 2024 in **Automated Storage & Retrieval Systems (ASRS) Systems**

Industry Leading OSR Shuttles Technology Released for Sale Across North



merican Cold Chain

their industry leading AS/RS shuttle technology for cold chain applications and projects.

Regarded as one of the most demanding application categories for any type of automated storage & retrieval application, KNAPP announced that it has completed a rigorous testing process in a beta testing application that includes conveyor hardware, AS/RS shuttles and software. The successful beta test included over 2 million cycles and 7000 miles of travel. Israel's leading supermarket chain, Shufersal, is the first customer to implement the solution. This 294,000 square feet fulfillment center covers all temperature zones for its ecommerce food retail business.

Cold chain technology has been frequently used since the 1950s when it was used to preserve animal-based tissue. As medical breakthroughs have increased, including Covid 19 and other vaccinations, so has the need for innovative cold chain automation solutions. According to Jusuf Buzimkic, CSO of KNAPP Inc., "The company is uniquely positioned to enter this market and rapidly succeed as it is currently a market leader in 'track and trace' technology, software and shuttle-based automation."

Another factor that contributes to the prospective success of KNAPP is the desire on the part of cold chain operators to keep workers out of the harsh freezer environment which is both costly and hard to staff.

According to Mr. Buzimkic there are other factors and synergies that have driven KNAPP's interest in this market, including:

- Automation solutions help to address labor volatility.
- Automating work in the freezers by giving tasks to robots is safer
- Cold-chain warehouses are typically tasked with assembling pallets containing different products. KNAPP mixed load palletizing technology includes a unique set of attributes that are conducive to the needs of many cold chain operators.

six levels.

- Automated warehouses often use automated storage and retrieval systems (ASRS), which deploy cranes and shuttles programmed to retrieve pallets as directed by warehouse management systems (WMS). That configuration allows freezers to be built taller, which has several advantages.
- Taller freezers create greater density of product in the same footprint and can reduce the land costs for the cold-chain warehouse.
- Building taller contributes to more efficient building designs. These high-density structures are much more efficient to cool. Additionally, the openings in the freezer get a lot smaller because you have only a conveyor and a pallet or a box moving through a smaller aperture.
- Robots are more accurate and systems calculate up front how they're going to build out a pallet and how to load it in an economical way.

KNAPP is the reliable technology partner for value chain innovation.

Headquartered in Austria with 49 subsidiaries worldwide, KNAPP provides proven software and hardware solutions for intelligent logistics automation, from production and distribution to point of sale. A collaborative approach and excellent service position KNAPP as a trusted, stable partner for success in healthcare, retail, fashion and apparel, food retail, wholesale, manufacturing, or ecommerce.

Download PDF

Share on LinkedIn

MEDIA CONTACT: