



Fast Food

Following the success of the first system that completely automated the handling of its fruit and vegetable range, Migros Zürich has taken delivery of a second FAST Picking solution from KNAPP to automate the fulfilment of orders for dairy products and other fresh items.

One of ten co-operatives within the Migros Group, Migros Zürich is Switzerland's second largest retail company with a network of 104 supermarkets, 25 specialist stores, 47 restaurants and 11 retail partners. Every day at the co-operative's DC near Zurich, up to 1,400 different SKUs of dairy, convenience and catering products – including baked goods – arrive on site and are assembled for delivery to around 150 stores.

The distribution centre is now operating two of KNAPP's FAST (Fully Automated Standard Tray) Picking systems, designed for automatic, high-performance picking of standard handling units. Commented Beat Erb, Head of Engineering at Migros Zürich, 'Our experience with the first automatic picking solution for the fruit and vegetable range was so positive that we decided to implement another KNAPP solution. The



Crates are retrieved from the OSR Shuttle™ in the correct sequence for orders and conveyed to high-performance stacking machines

KNAPP automation technology ensures economical and on-time delivery.' The new system is designed to process 90,000 handling units per day of fresh products within a temperature range of 1 to 4°C, most of which are dairy goods.

Making light work of heavy crates

Chilled fresh products usually arrive on site in standardized Migros crates or in foldable crates from an external pool. These units tend to be heavy, so manual picking would place a great deal of physical strain on employees. Automatic processing of the crates not only avoids this but also ensures highly economical and accurate picking.

Efficient automation

The core components of the FAST Picking solution are fully automatic depalletizing and palletizing machines, along with KNAPP's OSR Shuttle™ storage system. In a special splitting procedure carried out during depalletization, store-ready loads

are created directly from the incoming original pallets for delivery to shops. The remaining quantities of stock are depalletized and loaded into crates for buffer storage in the OSR Shuttle™ system. With 12 rack lines and seven levels, the OSR Shuttle™ offers space-efficient storage for goods in around 12,500 locations.

Stacking machines

Prior to dispatch, the crates are retrieved from the OSR Shuttle™ store and conveyed in the correct sequence to high-performance stacking machines. KNAPP's KiSoft Pack Master software calculates the optimal pallet profile so that the loads are formed automatically in a shop-friendly manner. After automatic palletizing, completed loads are stretch-wrapped, labelled and conveyed on KNAPP's Powerline pallet conveyor to the dispatch area.

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Migros Zürich's DC prepares orders for delivery to around 150 stores daily