

CASE STUDY



CALJAN BELTRACK WITH VACULEX PARCELIFT – JYSK, DENMARK



HIGH CAPACITY – OPTIMAL WORK ENVIRONMENT

EMPTYING CONTAINERS AT SPEED

More than 50% of the goods arriving at JYSK's warehouse and distribution facility in Denmark come in tightly packed containers. Annually, more than 7,500 containers are expected to pass through the facilities. Each container, the majority of which are 40 ft, holds boxes of goods from the far east. Each box weighs between 1 and 50 kg and is identified by a stock number. There can be several different stock numbers in each container.

To safeguard employee safety, JYSK decided that ergonomic aids or tools were necessary when emptying containers. Various solutions were considered, some of which were very costly, complex and cumbersome. Caljan BeltTrack fitted with Vaculex Parcelift was considered to be the best solution available as it is compact, simple and easy-to-operate.

CALJAN RITE-HITE PUT TO THE TEST

JYSK thoroughly check equipment before making any changes to the work flow. Therefore, a test machine was installed prior to writing a purchase order. Training employees to use the new lifting aid took very little time. Within an hour they were working at speed, moving naturally to lift and release each parcel. Although containers are usually emptied at only 6 of the 31 goods-in doors, every one on all shifts has been trained to optimize flexibility.

When a container backs up to the door, the operator lines up the BeltTrack by moving it along the rails lying flush in the concrete floor. Using the joystick at the head of the machine, the operator is able to extend the conveyor belt so that it reaches inside the container. Sensors fitted to the top of the lifting aid register the framework of the door and reduce the height accordingly – extending automatically to full operating height once inside the container.



GEARED FOR GROWTH

Currently the goods handled by the warehouse in Uldum are distributed to JYSK shops in Denmark, Norway, Greenland, Iceland, the Baltic States and USA. When current expansion plans are implemented, the centre will also distribute to the Czech Republic, UK and China. Plans are also underway to build similar facilities in Poland. The Uldum facility will naturally be used as a blue-print, using best practice to ensure the best possible result.

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Bjarne Mikkelsen, Section Manager, Goods In

»We are quite satisfied with the solution we have chosen. We cover 6 doors with 2 Caljan BeltTrack fitted with Vaculex Parcelift. The machines are fitted on rails embedded in the concrete floor so that we can move them to the relevant door, just by pressing a button.

There haven't been any problems. Each 3-man team works at their own speed, one person unloading and two palleting. The container is unloaded quickly, but without stress. There is little bending involved and the Vaculex Parcelift takes the weight of the parcel. Work positions are natural and optimal for the individual, even when parcels weigh 25kg. Vaculex Parcelift is a lifting aid that can be used, but its not obligatory. Some of the guys take the lighter parcels manually, parking the suction cup until they need it again.

At the other end of the belt, where the parcels are palletised, we can also see benefits. The parcels are at the correct height and can simply be placed onto the pallet. The pallet itself is raised or lowered electronically to suit.

We haven't had an opportunity to stress test the equipment yet. But there is no doubt that it helps us unload containers faster.«

JYSK, Denmark

JYSK is one of Europe's leading retailers of articles for the bedroom, the bathroom, the living room, the window and the patio.

The JYSK group consists of approx. 1,450 shops, located in 32 European countries with a staff of almost 14,000.

JYSK believes that responsible attitudes and initiatives aimed at the environment, ethics and product quality are essential factors in the world of business, including focus on safety issues.

The storage and distribution facilities in Uldum, Denmark are among the largest in Scandinavia with an area of 1.43 million m³ – space enough for 134,000 EUR pallets. Three high-bay warehouses are serviced by fully-automatic cranes. These are 39 metres high and operate at speeds of approx. 17 kph. In addition to the warehouse itself, goods are also stored in up to 700 containers parked immediately outside the building. This facilitates cross-docking.

The facilities are designed to handle up to 8,500 pallets in and out each day.



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