K.Handle

VarioStack

State-of-the-art automatic destacker workstation system

The challenge

Fulfillment centers today are challenged with space and time; too many empty totes sitting around the facility take up a lot of space, inventory arriving quickly and in large quantities, and insufficient time to get the inventory stocked. Additionally, it takes a long time to gather the totes and re-insert them into the distribution system. Efficient centers need to collect and store the accumulated totes in a single area in an automated fashion. Automating the tote destacking process can increase throughput, saving time and money.
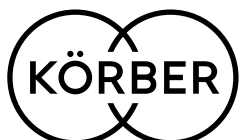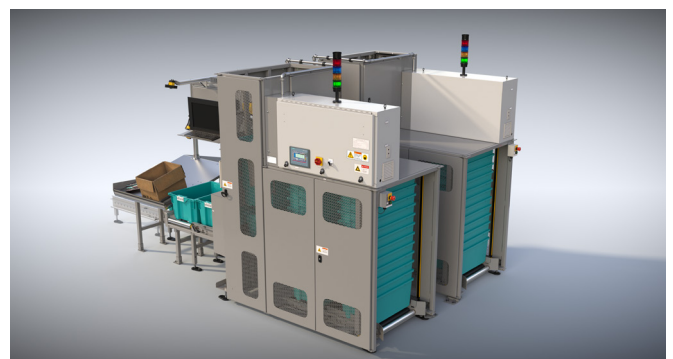
Our solution

VarioStack is an innovative, fully-automatic, and low-maintenance solution that works in conjunction with conveyors to handle the accumulation and dispensing of empty totes. The VarioStack destacker can maintain a steady flow of totes to the fulfillment centers operation without bottlenecking or damaging the totes.

Operation of the VarioStack is designed to minimize operator effort; it's simple, intuitive, and ergonomic. There are only four connections needed to get the VarioStack up and running. Once started, the machine operator requires no interaction; they walk up to a

running machine, put a stack in, and press start. The VarioStack is equipped with safety light curtains for safeguarding personnel and can be used in various industries from logistics, warehousing, manufacturing to supermarket distribution and fulfillment centers.

Customer benefits

- Provides reliable staging, storage, and retrieval of totes

- Ideal for small spaces

- Able to retrofit into existing systems or design into a new installation

- Maintenance-friendly, easy, ready-to-use installation

- World Class OEE Performance (>95%)

- Automated unstacking allows operators to focus on product and inventory process

Technical data

Material	steel frame construction
Dimensions	116"L x 43"W x 99"H
Weight	2,100 lbs
Power requirements	208Y120- 20AMP
Throughput	8 Totes per minute
NRTL certifications	UL508A , NFPA79, ISO12100
PackML compliant	ANSI/ISA-TR88.00.02-2015

Detectable exceptions (examples)

- State-of-the-art controls system

- Reliable, smooth, and efficient destacker with a small footprint

- TCP/IP customer interface allows for accurate status reporting and remote and local web server diagnostics

- Intuitive graphical user interface (GUI)

- Customizable to a wide range of tote sizes, multiple configurations to fit any application

- Profinet Field Bus

- Functional Safety includes safety rated PLC and PROFIsafe motion control

- Dry contact safety inputs and outputs

- Mounting for barcode scanning, monitor, and thin client PC