

**K.HARTWALL**

# CREATING **FUTURE-FIT** SUPPLY CHAIN SOLUTIONS



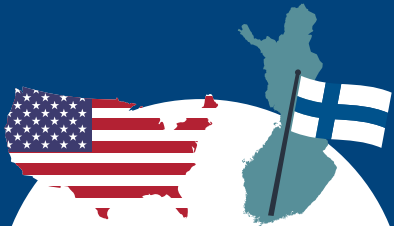
# MANUFACTURING SUPPLY CHAIN SOLUTIONS SINCE 1932



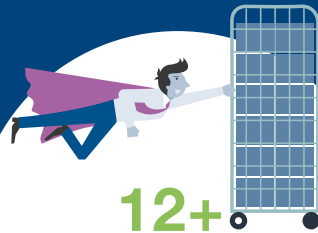
**65  
COUNTRIES**  
worldwide



**1500+  
SATISFIED**  
customers

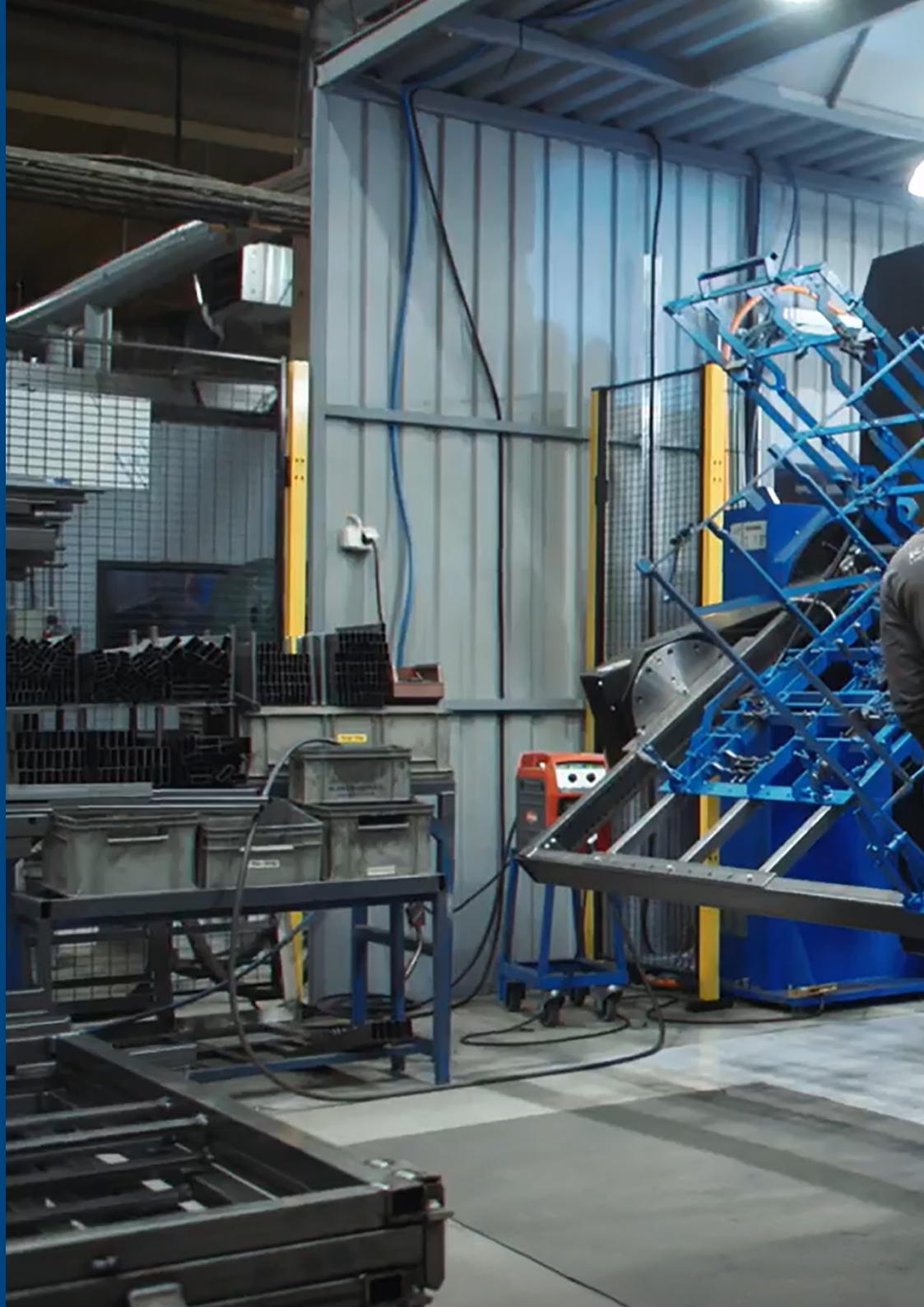


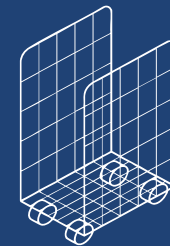
**90+  
YEARS**  
of design and  
innovation



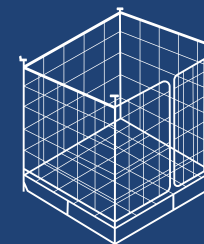
**12+  
MILLION**  
roll carts &  
dollies sold

K.HARTWALL IS A GLOBAL MATERIAL HANDLING SUPPLIER  
WITH LOCAL HEADQUARTERS IN ROMEOVILLE, ILLINOIS.

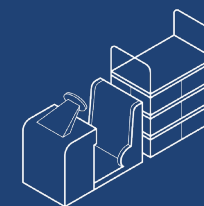




**RETAIL &  
GROCERY**

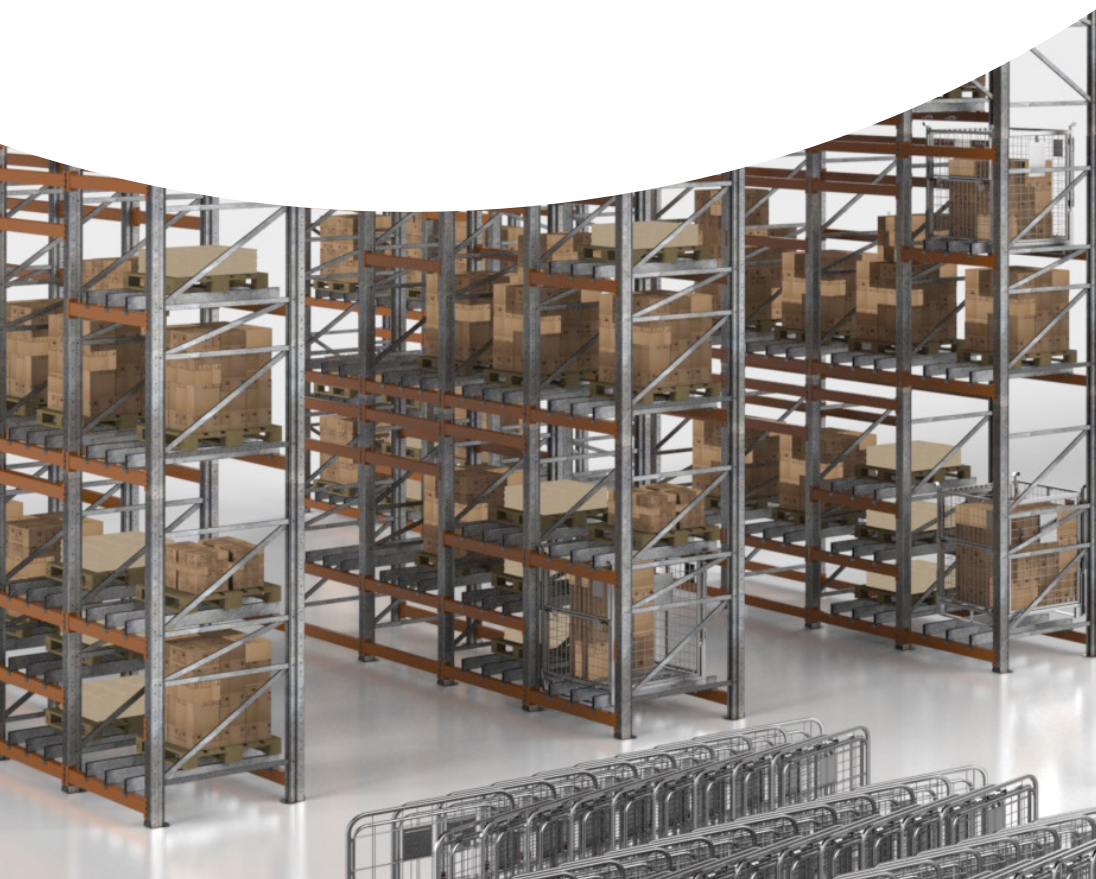


**PARCEL &  
E-COMMERCE**



**INDUSTRIAL  
MANUFACTURING**

# WE CAN HELP YOU REDUCE COSTS AND INCREASE SALES



## DISTRIBUTION CENTER

### Saving costs

Minimize material handling and secondary packaging costs with K.Hartwall material handling solutions.



## TRANSPORT

# Space-Efficient

Boost the bottom line by cutting down fleet and fuel costs with higher cubic fill.



## STORE-FRIENDLY

# Cost-Efficient

Display-ready merchandising units decrease handling costs by a whopping 25% in the last 170 feet of supply chain.

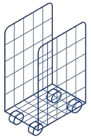


## EXPERIENCE

# Adding Value

Increase sales by creating the perfect shopping experience with improved product availability and enhanced visualization.



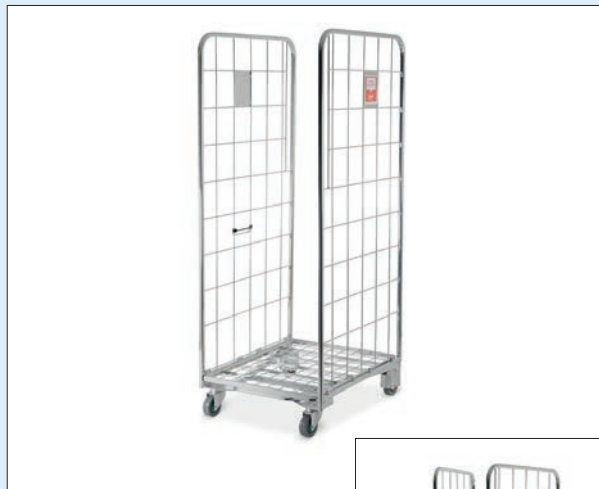


## RETAIL & GROCERY



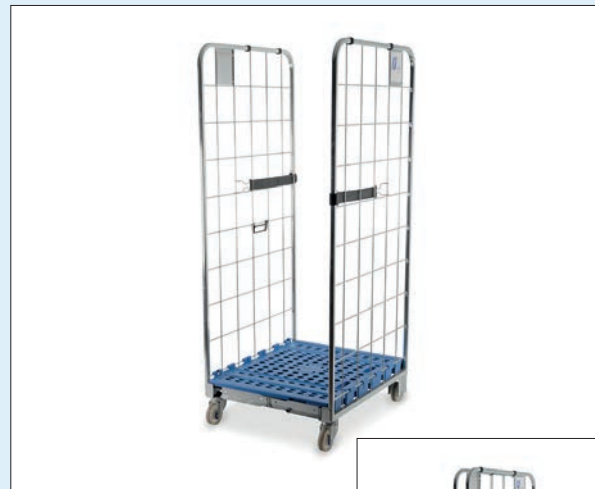
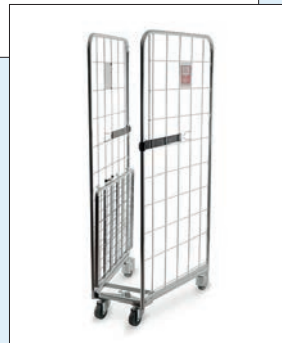
# Retail, Grocery, Hospitality & Restaurant

All retail supply chains share the need to deliver cost-effectively, both in bulk and in smaller quantities, to different locations and store sizes. Our carts and other wheeled material handling solutions meet this need by providing manual handling, easy and safe order-picking, less product damage, and efficient cubic fill in both outbound and reverse logistics.



### Compactainer®

- Less manual handling
- Improved ergonomics
- Space-efficient
- Light, yet robust



### Foldia®

- Space-efficient (5:1 ratio)
- Fast and easy to use
- Compatible with demountable roll carts
- Easy branding
- Suitable for automation



### Foldia® Plus

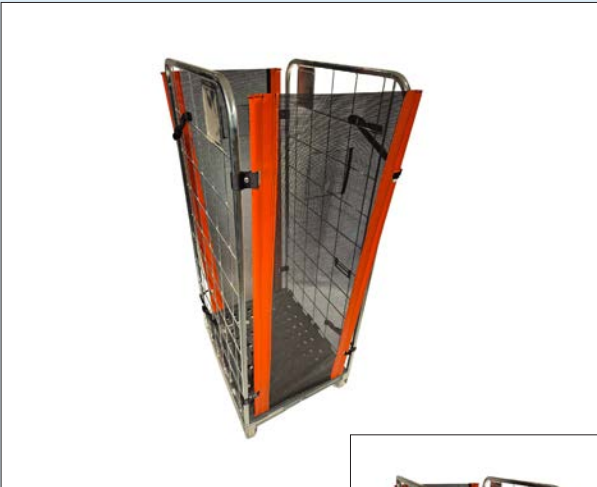
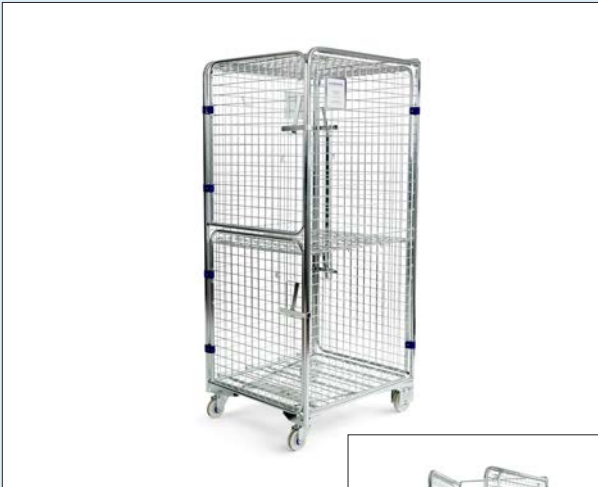
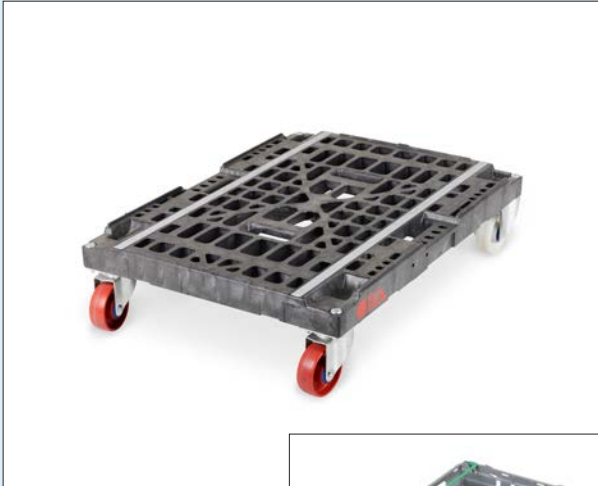
- Offers 5 adjustable heights
- Multi-purpose unit
- Space-efficient
- Easy branding
- No loose parts





### K.Hartwall SmartShelf®

- Adjustable shelf
- Enables transport of multiple size packages
- Can be easily retrofitted
- Suitable for Compactainer® and Foldia®



### Hybrid Dolly

- Constructed with plastic deck and metal reinforcement (load capacity: 1100 lbs)
- Equipped with anti-slip strips
- Easy branding
- Hygienic



### Security Compactainer®

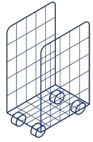
- Less product theft
- No need for shrink-wrapping
- One man operation easy handling



### Add-on doors Flex

- Eliminate need for shrink-wrapping
- Space-efficient
- Sustainable and reusable
- Ergonomic and safe





## RETAIL & GROCERY



### DIY & Packaging Industry

Certain products can shift in transport or are too bulky to be safely moved on pallets. The right equipment for these types of items help DIY retailers to remarkably increase the efficiency of their supply chain. K.Hartwall provides a wide range of durable and modular load carriers for different distribution models.



#### SmartCube®

- Best-in-class cubic fill
- Ergonomic thanks to the half-drop down gate and walk-in access
- Less product damage
- Full product visibility



#### SmartCube® Jumbo

- Ideal for odd-size items
- Robust
- Compatible with other SmartCubes and other MHE



#### HPD System® Foldable Cage

- Well-suited for the food industry
- Less product damage
- Efficient in return logistics



Significantly reduce  
product damage &  
shrink wrapping

Save time on handling  
& labor by up to **5X**



## RETAIL & GROCERY



### Beverage

Our close cooperation with beverage industry and retailers have given us a unique insight to build innovative One-Touch-Merchandising solutions. Our cost-efficient and well functioning material handling solutions can provide outstanding service for producers and retailers while being safe and consumer-friendly at the same time.



#### Beverage Tray

- Product in focus
- Ready-to-sell unit (reduce manual handling in stores)
- Compatible with automation



#### Beverage Dolly

- Ready-to-sell unit
- Hygienic
- Easy branding
- Suitable for automation



#### Ro-Ro Adaptor Pallet

- No forklift needed
- Reduce turnaround time
- Space-efficient in transport and warehousing
- Robust

# Dairy

In order for a chilled distribution system to work properly, every link of the chain has to be considered. Our Dairy Solutions help minimize the need for manual handling while maximizing supply chain efficiency and in-store display value.



## Frontload Dairytainer

- Universal display for multiple products
- Ready-to-sell
- Easy to wash and maintain
- Suitable for automation



## Side load Dairytainer

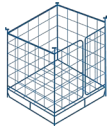
- Space-efficient
- Easy to handle
- Ready-to-sell



## Dairy Dolly

- Ready-to-sell
- Easy and safe to handle
- Suitable for automation
- Low maintenance





# EFFICIENCY IN OPERATIONS



Growing parcel volumes and increased competition are driving parcel operators to find new and more efficient ways of moving parcels.

Today both robotics and automation are driving a need for a new generation of parcel load carriers – where effective manual handling is combined with automation compatibility.

Having the right parcel load carrier, such as a roll cart for distribution or a foldable cage for line hauls, will make a big difference in operational efficiency. Everything from (un)loading operations in terminals, cubic fill in transportation, and automation compatibility, is affected by your choice of load carrier.

K.Hartwall works with you, and with our automation and robotics partners, to develop the best in Parcel solutions for your operations.





### 3-Sided Foldia®

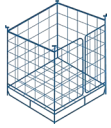
- **5:1 ratio when empty**
- Space efficient at destination and in reverse logistics
- Easy and ergonomic manual handling – no lifting
- Efficient vehicle cubic fill
- Easy branding

### 4-Sided Compactainer®

- **No need for shrink-wrapping**
- Improves ergonomics and health & safety
- Less product damage
- One-person operation: easy handling

### Parcel Cage

- **100% reliable automatic tipping**
- Half-drop down gate and walk-in access for easy and ergonomic loading
- Easy branding
- Compatible with other MHE



# ORDER PICKING & FULFILLMENT SOLUTIONS



## Compact Fulfillment Roll Cart

- Extremely Space Efficient
- Ideal for in-store use
- Nestable
- Equipped with dynamic hand brake
- Compatible with various tote/crate sizes

## Standard Fulfillment Roll Cart

- Able to carry 10 totes at a time
- Ideal use in distribution centers
- Nestable
- Equipped with dynamic hand brake
- Adjustable shelves for different tote/crate sizes

## Max Fulfillment Roll Cart

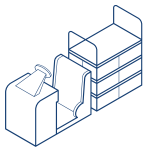
- Streamline manual order picking
- Ideal use in distribution centers
- Adjustable & removable shelves
- Easy and ergonomic manual handling
- Enhances workflow efficiency



## Sustainability

At K.Hartwall we strive to respect the environment in all of our operations. Our modern factory is situated in the middle of a wilderness area near the sea. In Finland we are close to nature. It is part of our DNA – not a fashion trend. Our aim is to consistently reduce the impact of our operations on the environment by using the best available technology.

We develop logistics solutions which optimize your operations and support our precious planet by being reusable, space-efficient, and lightweight-yet strong enough to meet your operational needs.



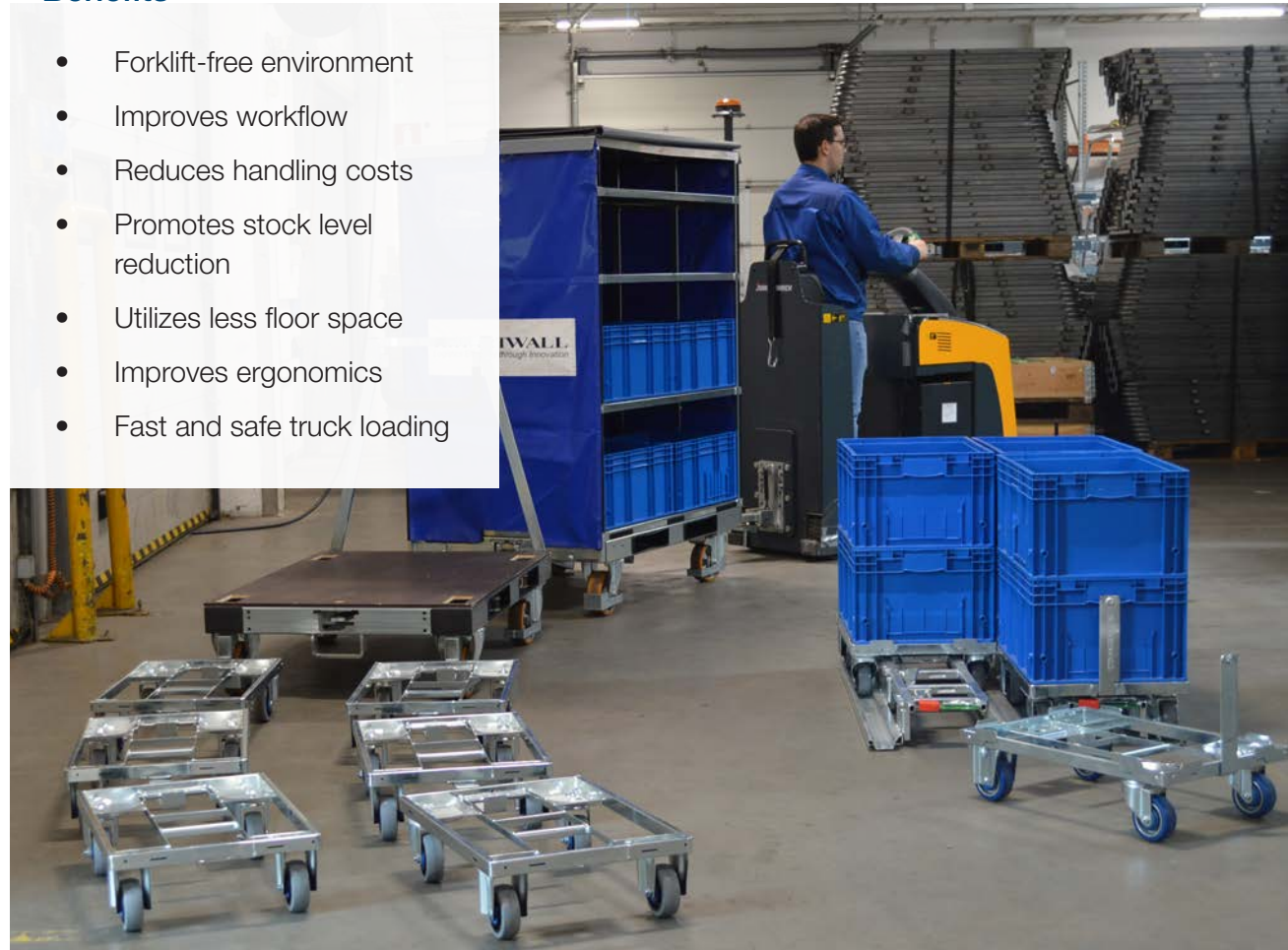
# INCREASED SUPPLY CHAIN EFFICIENCY

Whether you are an OEM or a sub-supplier, the integration of your internal and external logistics will increase your efficiency.

Efficient, forklift-free internal logistics can cut the costs of inventory, handling and in-house transportation. Our solutions bolster Lean production principles with improved space optimization, shorter turn-around times, and improved health and safety for staff.

## Benefits

- Forklift-free environment
- Improves workflow
- Reduces handling costs
- Promotes stock level reduction
- Utilizes less floor space
- Improves ergonomics
- Fast and safe truck loading





Decrease handling costs



Reduce inventory



Forklift-free environment

## Lean Logistics

Choosing the K.Hartwall Lean Solution for in-house logistics lets you expand with wheeled logistics both upstream and downstream in your supply chain.

The Lean Dollies are modular and can be customized with different types of wheels and accessories. They also can be combined and used to create a logistics train, enabling packages and totes of multiple sizes to be delivered all at once. The Lean Adaptor Pallet enables swift and efficient loading, securing, and unloading of wheeled units.



Lean Pallet Size Dolly



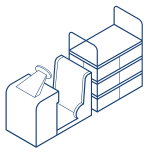
Lean Shelf Wagon



Lean Dollies



Lean Adaptor Pallet



## TUGGER TRAINS



# LIFTLINER®

## STREAMLINING YOUR INTRALOGISTICS PROCESS

The fully electric LiftLiner® product family is a unique solution for internal logistics and an excellent choice for forklift-free environments.

With it, you avoid complex sequencing and maximize the flexibility you need for efficient deliveries to your production line and within your operation. You can load and unload daughter carts, shelf carts, roll carts and dollies in different sizes from both sides to truly enable a streamlined supply chain process.

The innovative crossbar coupling system offers an impressively tight and precise turning radius for a very efficient transport.

The rooftop shape and tilting technology allows for ergonomic and safe handling, even of heavy loads.





#### TRANSPORTS

- ✓ Shelf Carts
- ✓ Daughter Carts



#### TRANSPORTS




- ✓ Roll Carts
- ✓ Dollies



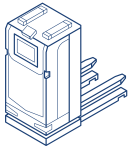
THE MOST COMPACT AND AGILE TUGGER TRAIN ON THE MARKET

THE WORLD'S FIRST TUGGER TRAIN TO TRANSPORT UP TO 8 ROLL CARTS OR DOLLIES

## BENEFITS

-  Eliminate sequencing
-  Improve employee health & safety
-  Save space, time and money





MOBILE ROBOTS

# AUTOMATE YOUR LOAD CARRIER MOVEMENTS



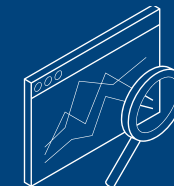
A-MATE™ are intelligent mobile robots designed to work as both AGVs and AMRs, transporting material handling equipment like pallets and containers in demanding environments such as warehouses and sorting centers—without the need for an onboard operator or driver. This automated product flow saves time and money while reducing process errors and minimizing the risk of accidents.



**COST SAVINGS**



**IMPROVED SAFETY & LOWER DEPENDENCY ON LABOR**



**SYSTEMATIC TRACKING**



**LESS PRODUCT DAMAGES**

# A-MATE™

## AUTOMATE PRODUCT FLOW, REDUCE COSTS & INCREASE EFFICIENCY

### POWERFUL ELECTRIC FREE LIFT

Max. payload: 2,200 lbs

Max. lifting height: 3.6 ft

### SLIM AND ROBUST DESIGN

Agile movements even in tight spaces

Reliable operation in demanding industrial environments

### LONG LASTING LI-ION BATTERIES

For a 24/7 operation

### 360° SAFETY

Multiple scanners

Light indicators

Emergency stop buttons

HMI Touch-Screen



- ✓ Omnidirectional driving system
- ✓ Extremely slim design



- ✓ Bidirectional driving system
- ✓ Cantilevered forks and counterweight



**THIS IS US**



# A GLOBAL PARTNER



## WHY K.HARTWALL?



A reliable partner who understands the trends and listens to your issues



A global player on the material handling market



An innovative partner who can develop new solutions



A company who provides high quality and durable solutions



A supplier with a large portfolio and worldwide delivery capabilities



A local presence with headquarters in Romeoville, IL

# K.Hartwall North America

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Romeoville, IL 60446 USA  
info.usa@k-hartwall.com

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# Experience the Future of Warehouse and Retail Operations—Virtually



**MAKE THE NEXT  
SMART MOVE  
IN SUPPLY CHAIN**