

CREATING **FUTURE-FIT** LOGISTICS SOLUTION



**SMART
MOVES**

INNOVATIVE INTRALOGISTICS SOLUTIONS SINCE 1932



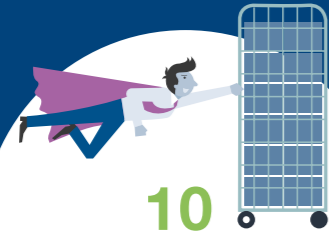
65 COUNTRIES
worldwide



1500+ SATISFIED
customers



90 YEARS
of design and innovation



10 MILLION
roll cages and dollies

K.HARTWALL IS A GLOBAL MATERIAL HANDLING SUPPLIER WITH HEADQUARTERS IN SÖDERKULLA, FINLAND.



RETAIL



AUTOMOTIVE



POSTAL AND PARCEL





RETAIL

COMBINE LOGISTICS AND MERCHANDISING

Retailers all over the world are in a race to adapt their supply chain to more frequent and diverse deliveries, while maintaining the efficiency of bulk deliveries to a mixed portfolio of store formats.

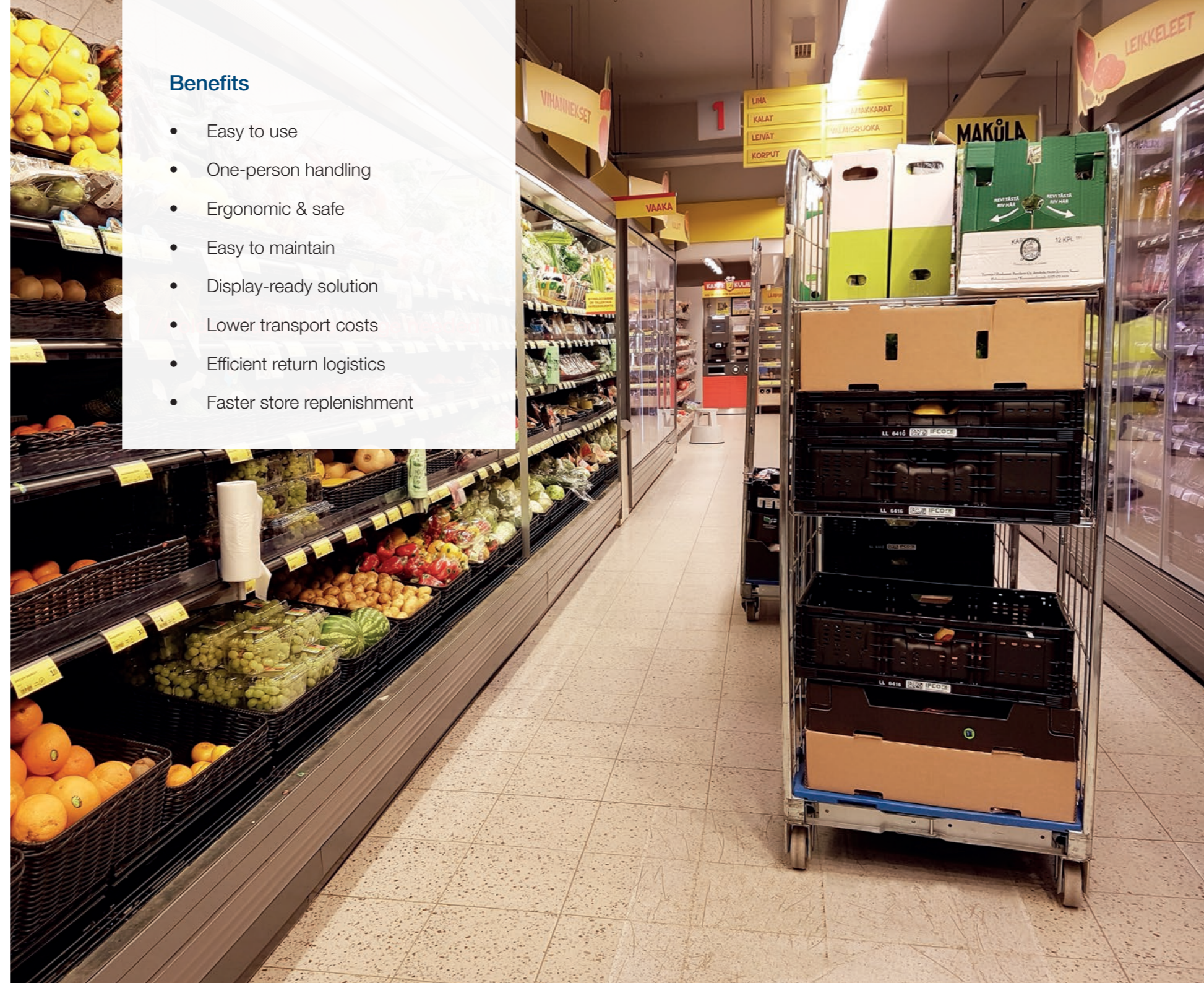
For efficiency in production, load carriers that are suitable for automated handling will make all the difference.

Our solutions enable higher cubic efficiency in transport and faster unloading to increase shelf availability and reduce your handling costs. More space-efficient solutions translate into lower warehousing needs, too.

In stores, display-ready units can decrease handling costs by 20-25%. Ergonomic, multipurpose designs will make handling simpler for the staff while attractive presentation and branding are bound to increase sales.

Benefits

- Easy to use
- One-person handling
- Ergonomic & safe
- Easy to maintain
- Display-ready solution
- Lower transport costs
- Efficient return logistics
- Faster store replenishment



“The Foldia® Roll cage design makes it possible for us to fulfill our customer requirements for easy handling, less space requirements when empty, and for a hygienic and durable design. It also enables us to reduce transport costs in reverse logistics from hubs and regional warehouses to our new central warehouse.”



“The combo tray from K.Hartwall has changed the whole beverage industry in Australia.”





RETAIL

Grocery, Dairy, and E-commerce

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 roll containers and other wheeled load carriers 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 cages
- Easy branding
- Suitable for automation



Foldia® Plus

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



Eurodolly

- Versatile 1/4 pallet dolly
- Ready-to-sell unit
- Suitable for automated picking
- Stackable



Hybrid Dolly

- Multipurpose unit
- Robust (load capacity: 500 kg)
- Easy branding
- Stackable





RETAIL

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.



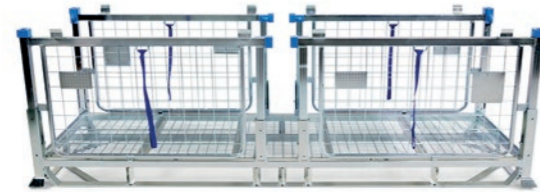
Smartcube®

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



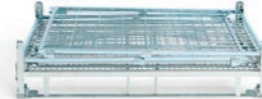
Smartcube® Jumbo

- 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 reduces product damage & shrink wrapping

Increases cubic fill up to **30%**



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



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 Adaptor Pallet enables swift and efficient loading, securing, and unloading of wheeled units.



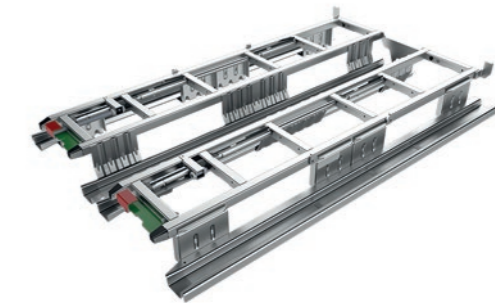
Lean Pallet Size Dolly



Lean Shelf Wagon



Lean Dollies



Lean Adaptor Pallet

WE ARE ON A MISSION TO OPTIMIZE YOUR LOGISTICS

DISTRIBUTION CENTER
Faster order picking



TRANSPORTATION
30% higher cubic fill



MODULARITY
Compatible with current MHE



RETAIL-FRIENDLY
Display-ready for faster replenishment



SPEED & SAFETY
Less forklift traffic





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 cage 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 Postal and 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

Pallet size roll container

- Lightweight for one person handling
- Nesting unit for efficient return and storage
- No stretch foil needed to secure goods
- Tight mesh to avoid theft

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



POSTAL & PARCEL

COMPATIBLE WITH ROBOTICS AND AUTOMATION

Advanced automation technologies are utilized in the parcel supply chain to decrease the dependence on personnel. However, benefits from increased levels of automation may not be fully realized if your load carriers are not compatible or if the solution forces you to use suboptimal ways of working. Every solution has to be individually designed and all relevant factors taken into account, to ensure full compatibility and business success.



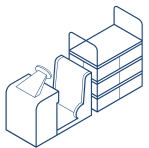
SUSTAINABILITY

IN OUR OPERATIONS

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.

IN OUR PRODUCTS

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.



TUGGER TRAINS



LIFTLINER®

SAY GOODBYE TO FORKLIFTS

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 maximise the flexibility you need for efficient deliveries to your production line and within your operation. You can load and unload carts, roll cages and dollies in different sizes from both sides to truly enable a streamlined logistics process.

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

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



TRANSPORTS

- ✓ Carts
- ✓ Daughter carts



THE MOST COMPACT AND AGILE TUGGER TRAIN ON THE MARKET



TRANSPORTS

- ✓ Roll cages
- ✓ Dollies

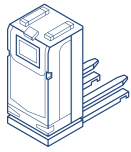


THE WORLD'S FIRST TUGGER TRAIN TO TRANSPORT UP TO 8 ROLL CAGES OR DOLLIES

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 transport logistic units like pallets and containers in demanding production and logistics environments such as warehouses and sorting centres, without the need for an on-board operator or driver. An automated product flow not only saves time and money, but also reduces process errors and the risk of accidents.



COST SAVINGS



IMPROVED SAFETY & LOWER DEPENDENCY ON LABOR



SYSTEMATIC TRACKING



LESS PRODUCT DAMAGES

A-MATE®

THE MOST COMPACT AGV ON THE MARKET

POWERFUL ELECTRIC FREE LIFT

Max. payload: 1,000 kg
Max. lifting height: 1,100 mm

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



A-MATE®
FREELIFT

- ✓ Omnidirectional driving system
- ✓ Extremely slim design



A-MATE®
COUNTER

- ✓ Bidirectional driving system
- ✓ Cantilevered forks and counterweight



THIS IS US



WHY K.HARTWALL?



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



A company who provides high quality and durable solutions



A global player on the load carrier market



A supplier with a large portfolio and worldwide delivery capabilities



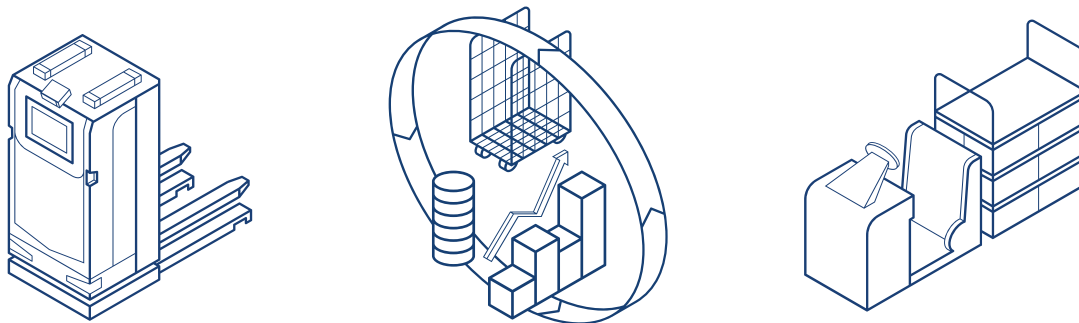
An innovative partner who can develop new solutions

K.Hartwall Oy Ab

Kay Hartwallin tie 2
01150 Söderkulla, Finland
Tel. +358-9413 1833
contact-khw@k-hartwall.com
www.k-hartwall.com



This is what we do



Great products
by great people

**MAKE THE NEXT
SMART MOVE
IN LOGISTICS**