



MAXIMISING YOUR LOGISTICS EFFICIENCY

WHAT'S LOGISTICS EFFICIENCY MADE OF?

The more efficient your supply chain is, the more time you'll have to develop your business. For better efficiency:

1



Look at your supply chain as a whole

How are the products shipped? How do you make sure products are always available? How do you make sure they don't get damaged or are at the wrong place? Knowing where the obstacles are will help you to save costs and increase sales.

2



Think about the total cost of ownership

Minimise the time used in manual handling and simplify return logistics. Optimise the vehicle fill to move less air and more goods. Use less packaging to keep costs in check. Insist on good quality and choose logistics equipment that is designed for harsh and easy maintenance.

3



Go Lean

Eliminate unnecessary tasks. Ensure more efficient internal logistics to cut the costs of inventory, handling and in-house transportation. Choose a logistics solution that allows for an effortless transfer from wheels to pallets and from pallets to wheels.

4



Choose the right load carrier

Use returnable goods carriers to reduce handling costs and environmental impacts – and to boost ergonomics. Expand wheeled logistics both upstream and downstream in your supply chain.

5



Keep track

Optimize the fleet size and make sure that your load carriers are in the right place at the right time. Use value-added services to gain visibility, get control and to improve overall logistics process reliability.



Combine logistics and merchandising

Retailers 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.

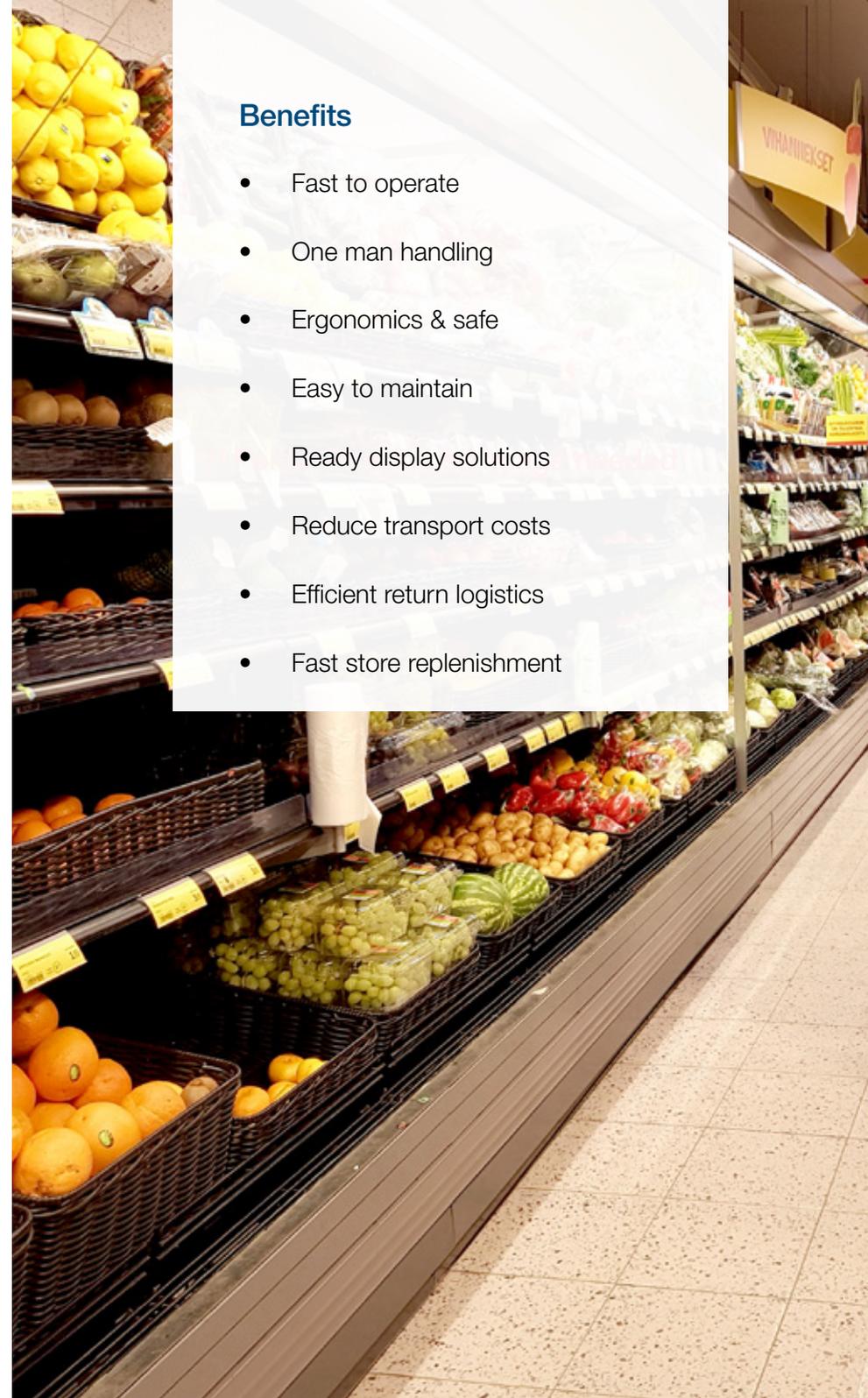
For efficiency in production, load carriers that are suitable for automated handling will make all the difference.

Our solutions enable higher cubic efficiency in transport and faster (un)loading 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

- Fast to operate
- One man handling
- Ergonomics & safe
- Easy to maintain
- Ready display solutions
- Reduce transport costs
- Efficient return logistics
- Fast store replenishment





“The Foldia® Roll cage design makes it possible for us to fulfill our customer requirements for easy handling, lowest space requirements when empty, 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.”

LOSCAM





RETAIL AND FAST MOVING CONSUMER GOODS

Grocery

Our roll cages and other wheeled load carriers allow for fast manual handling, easy and safe order-picking, less product damages and efficient cubic fill in both outbound and reverse logistics.



2-sided Compactainer[®] ensures fast replenishment by reducing manual handling as well as improving ergonomics and space efficiency.

DIY

Many products refuse to be nicely ordered in standard crates or are too bulky to be safely transported on pallets. Use the right load carriers to increase the efficiency of the DIY store supply chain.



Smartcube[®] is foldable and stackable, while being very space efficient and robust. Compatible with pallets and other boxes, Smartcube[®] reduces product damage.

E-commerce

Fast-growing e-commerce requires smart and reliable load carriers which enable you to do efficient picking, handling and distribution of single or batch items.



2-sided Foldia[®] maximizes both the cubic efficiency and space savings in the back store. 4 Foldia[®] roll containers can be stacked inside an open one!

Beverage

Our close cooperation with the beverage industry and retailers have given us an unique insight to build innovative One-Touch-Merchandising solutions.



Beverage Tray offers minimised manual handling and optimum visibility for both single bottles and multi-pack solutions! As the tray is a shelf in itself, it stands for One Touch Merchandising from the bottler to the shop and reduces waste in the process.

Dairy

For dairy, we can minimise manual handling and maximise supply chain efficiency and in-store display value.



The Dairytainer will wheel the goods through the entire supply chain from the filling machine to the store without any need for repacking or touching the packages.

Display & POS

More than 2/3 of all buying decisions in certain product category are made at the point sales. Our display units and load carriers enable the promotion of seasonal products and campaigns.



Eurodolly is a versatile carrier for storing, transporting and displaying bulk products as it can be easily rolled into the point of sales for fast product replenishment. Eurodolly can also be supplied with PIEK features for silent deliveries.



AUTOMOTIVE

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.

In the automotive industry, you need to make sure that the right component quantities get to the right place at the right time.

Efficient, forklift-free internal logistics can cut the costs of inventory, handling and in-house transportation. Improved ergonomics should be a separate point together with space optimization, shorter turnaround times as well as better health and safety for staff. Smooth in-house logistics will fully support Lean production principles.



Benefits

- Forklift-free environment
- Improve workflow
- Reduce handling costs
- Enable reduction of stock levels
- Reduce need for floor space
- Improve ergonomics
- Fast and safe truck loading

“Ever since we started to use the K.Hartwall Lean Dollies in 2009, we have been able to improve our production flow and reduce handling costs. The implementation of the Lean Adaptor Pallet will now allow us to optimise even further our supply chain.”

SCHAEFFLER

“Implementing the K.Hartwall Lean Logistics including Lean dollies, KLT-lifters, Adaptor Pallets, Pallet Size Dollies and Taxi Wagons has enabled us to upgrade our current logistics system to a fork-lift free and wheel-based system.”

brose
Technik für Automobile



BOSCH



Vibracoustic

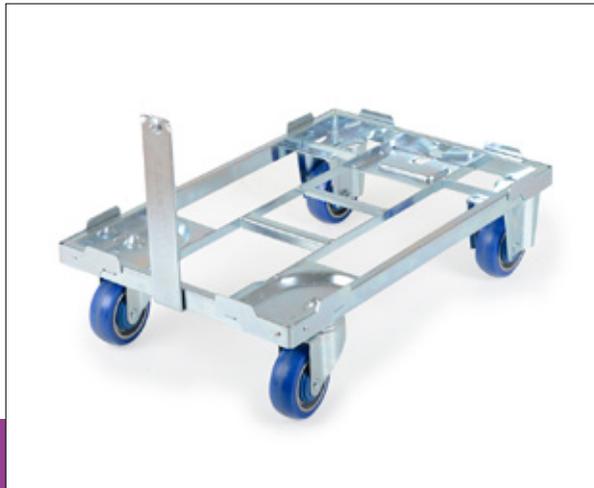
Valeo



AUTOMOTIVE

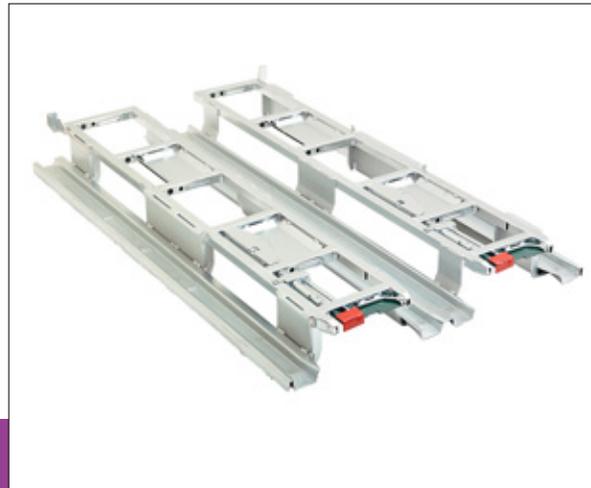
Standard totes

Standardised integrated transport systems improve delivery efficiency and precision, creating an optimised supply chain. Choosing the K.Hartwall Lean Solution for in-house logistics lets you expand with wheeled logistics both upstream and downstream in your supply chain.



Lean Modular Dolly – customised to meet your needs

The Modular Lean Dolly is designed to carry standard plastic totes and trays used in the automotive industry. Available in 1/4 pallet and 1/2 pallet sizes for Euro, ISO and US dimensions. It is designed for seamless integration with your tugger trains and automated system.



Lean Adaptor Pallet

Designed for safe and efficient truck transport, the Lean Adaptor Pallet bridges the gap between the internal and external logistics allowing for impressive reductions in the manual handling operations. The Lean Adaptor Pallet converts wheeled Lean Dollies into pallet units which can be easily tacked and racked.

Cost savings up to 40%

Productivity increases of up to 55%

3 to 4 times less manual handling operations per tote

Better safety and ergonomics

Standard pallets, foldable cages and boxes

Have you got a lot of standard-sized pallets in your production? Would you like to move them around more efficiently? We have a large portfolio of load carriers which offer safe and efficient short distance truck transport at the same time as it is optimized for the most efficient tugger train usage.



The Lean Pallet Size Dolly – a multipurpose load carrier for internal and external logistics

Can be combined and tugged with other Lean Dolly sizes to build the optimal tugger train layout. It can carry standard pallets and cages as well as plastic crates of various sizes. It can be equipped with 6 wheels for 360 degrees spinning on the spot. Highly modular with multiple features and configurations available. Available in Euro, ISO and US.



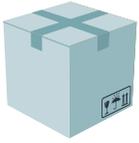
Lean CarryMore® E-frame System – increase your productivity

Reduces the need for multiple trips from a dock or warehouse to the line with materials! Lean CarryMore® E-frame System consists of two types of carts: the Mother and the Daughter unit. The patented loading system lifts the Daughter units and their castors fully from the ground ensuring your employee safety, reducing castor wear & noise and saving you money and time.



Liftliner – the next generation of highly efficient tugger train systems

State of the art compact tugger train system for optimal side-by-side loading and unloading. The LiftLiner provides a highly ergonomic and safe solution designed for high directional stability at the same time as it offers very tight and precise tracking properties. Prepared for automation.



POSTAL & PARCEL

Increasing speed and efficiency in parcel operations

Growing parcel volumes and increasing 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 compatibility with automation.

Having the right Parcel load carrier, may it be 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 compatibility with automation is affected by Your choice of load carrier.

K.Hartwall develops load carrier solutions in partnership with you as well as with automation and robotics companies.

Benefits

- Compatibility with automatic tipping and robotics
- Right footprint will increase the number of sorting destinations
- High cubic fill in line-haul transportation
- Faster (un) loading times in terminals
- Reducing labour dependency and increasing automation
- Reducing sorting by using cross docking / zone skipping when possible



K.Hartwall
named
Supplier of the
Year by Posti
Group

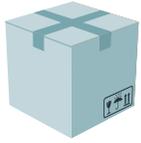


“We selected K.Hartwall as a long term partner due to their capability to understand our requirements and find innovative new solutions that help us to improve our logistics in the future”

postnord

“The new load carrier family where everything is both modular and stackable, combined with a smaller footprint, means that we can also use a bigger amount of pre-sorted units. This makes cross-docking possible and therefore reduces sorting costs significantly,”

posti



Parcel distribution

In the ever-increasing pressure of high daily parcel volumes and short lead times, you need a high-quality roll cage that is easy and convenient to use manually, but is fully compatible with MHE for fast (un)loading as well as automatic tipping.



3-sided Foldia® – 5:1 folding ratio for highest efficiency

3-sided Foldia® roll cage is a proven solution for parcel operations. It is your solution for easy and ergonomic manual handling, efficient transport cubic fill and space savings at destination. Very effective return logistics is assured as 4 Foldia® roll containers can be stacked inside an unstacked one.



York roll container

York roll container is a distribution roll container designed primarily for the movement of both bags and trays of letter mail. In the UK, it has already been for several years a synonym for a postal roll cage.



Polly – foldable and stackable roll container

Polly is the next-generation solution for end-to-end parcel distribution. Its footprint is optimal for locker and PUDO deliveries, providing good truck fill and easy use. With the associated adaptor pallet, the unit can be double-stacked during line haul transportation providing high vehicle fill and maximum number of sorting destinations. Empty units can be folded and stacked for efficient transit and storage.

Parcel line hauls

Before, there was a time to loose load your line haul truck to get maximum vehicle fill. Today, later cut-off times and labor shortage make it impossible. A stackable cage that is compatible with tipping automation combines the benefits of fast (un)loading with great vehicle fill.

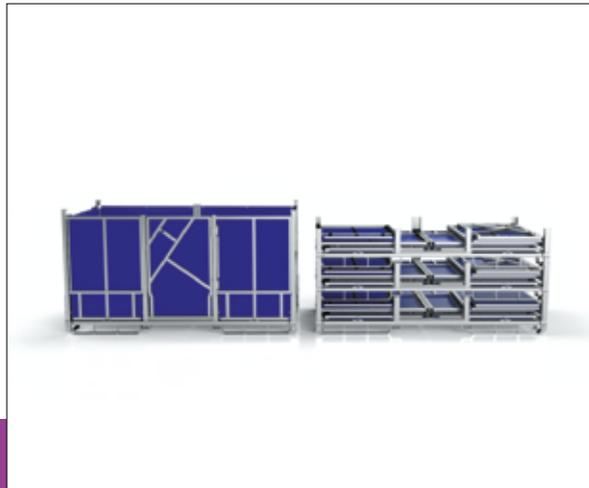


Parcel cage

This ISO size 1200x1000mm foldable and stackable cage can be used for line hauls between sorting centers and inbound flows from large business customers. In addition to compatibility with robotic handling and 100% automatic tipping its design supports efficient one-man manual handling.

Large and odd-size items

Do you have a problem with product damages? Are you spending too much time (un) loading trucks? There are ways of handling large and odd-sized items that can reduce loading time and almost fully reduce transport damages.

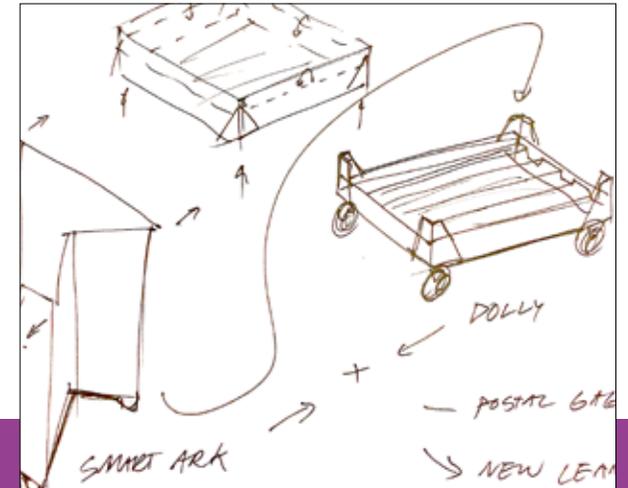


K.Hartwall Big Box – the alternative to loose loading

It is designed to replace loose loading between e.g. parcel terminals and to speed up (un)loading times while keeping highly efficient truck fill. Its construction offers double stacking, easy tipping and walk-in access. Big Box saves space in warehouse and during transport with its maximized internal dimensions due to thin but strong wall construction.

Bespoke logistics solutions

Would you like to develop your own load carriers? K.Hartwall is the leading development company for bespoke equipment for parcel operations. Please contact us to learn more.





ASSET MANAGEMENT

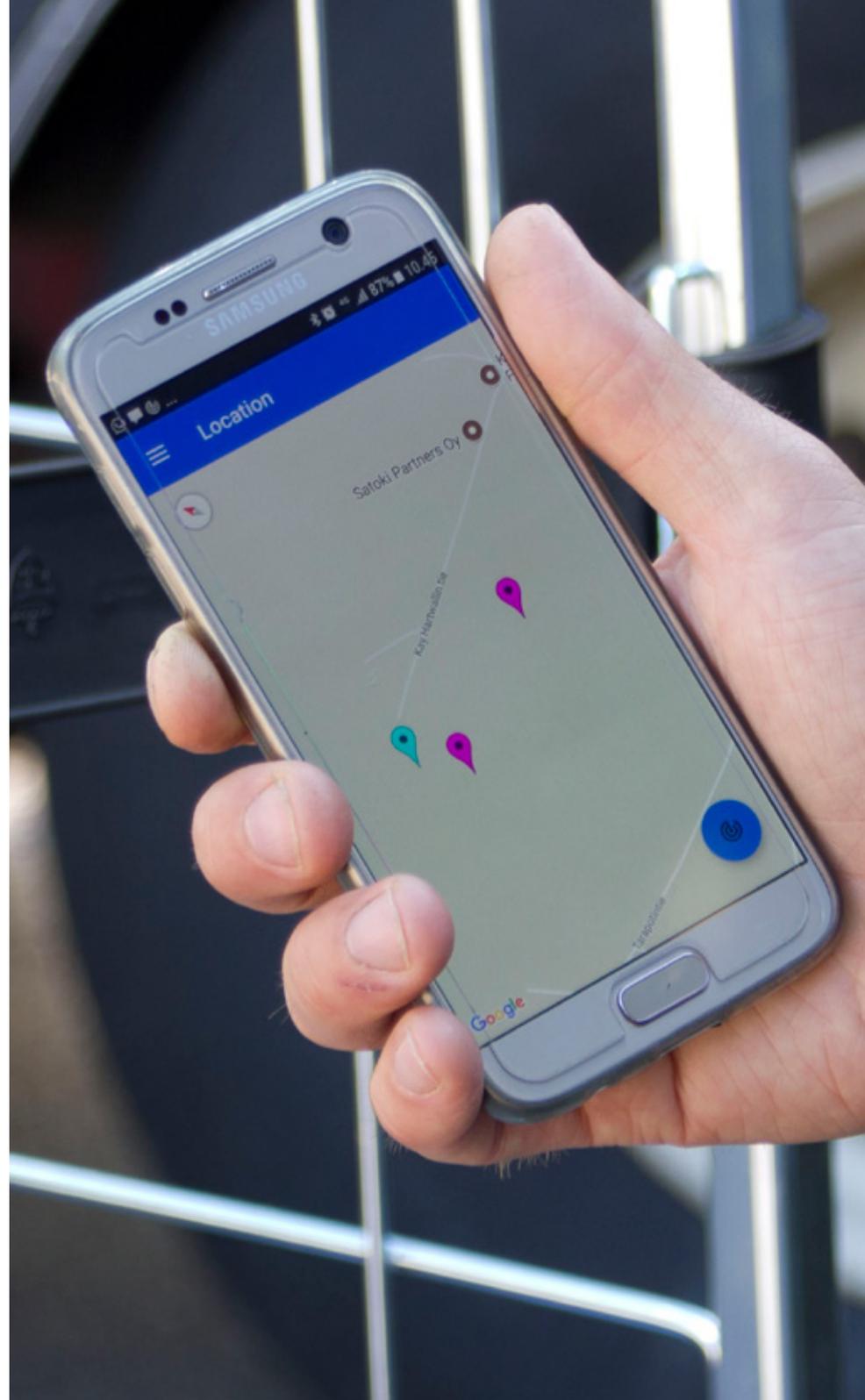
Take control of your assets

Proactively manage the assets in your supply chain. Get high definition visibility of your assets and collect valuable supply chain information.

Visimore® offers all that and more! It provides KPI's that ensure optimal usage of your load carriers to drive up performance. This solution has been designed to be configurable to meet your business requirements with the least amount of disruption to your current operations.

Visimore® uses a combination of the most appropriate sensor technologies to gather critical data to drive performance improvements related to your investment in load carriers. As sensor technology evolves Visimore® can be configured to use a single or multiple technologies (IoT) as required.

This flexibility allows companies to migrate from a volume based method of managing their assets to a serialized method, thus significantly increasing the quality and value of the data.





This is how Visimore® works

- Visimore® tags are added to your assets
- DC network is easy to set up in a matter of hours
- Assets are tracked both inside your DC with the network and outside by using a mobile application
- This high quality and timely data is translated into meaningful business intelligence helping you managing your assets

Benefits

- Minimise asset losses
- Secure operations by minimising asset out of stock
- Optimise your fleet size
- Increase utilisation rate
- Reduce expedited costs during peak time
- Increase quality of historical data on assets





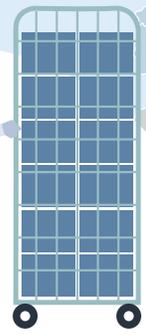
**85
YEARS**

of design and
innovation



**9
MILLION**

roll cages
and dollies



**65
COUNTRIES**

worldwide

• Söderkulla

ROLL CAGES | DOLLIES | ADAPTOR PALLETS | FOLDABLE CAGES | TRAYS

Innovative solutions for over 85 years

K.Hartwall was founded in Söderkulla, Finland in 1932. Over the years we have acquired in-depth knowledge of logistical processes and of their financial and environmental impacts. Today we bring logistic efficiency by delivering innovative solutions, including returnable load carriers and associated services.

K.Hartwall works closely with customers around the world to realise measurable benefits through improved logistical flows. Our efficient global delivery capability has made K.Hartwall the partner of choice for numerous companies in the retail, dairy, beverage, industrial logistics and automotive sectors.

Wherever you are located our global production network ensures that we can serve you with the best quality and lead time.



1500+
SATISFIED
customers

K.Hartwall Oy Ab

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



Choose the right load carrier for your supply chain