



THE LOGISTIC SOLUTION





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COMPANY PROFILE

Cargo Floor B.V. is the leading European supplier of horizontal loading and unloading systems which are exported all over the world.

With more than 30 years experience, excellent quality and an extremely high level of service, Cargo Floor B.V. is now recognised in the entire industry as **world-renowned market leader!**

Cargo Floor B.V. manufactures its products in Coevorden, The Netherlands, under the **ISO 9001-2008 quality label** (certified by Lloyds). Before delivery, each system is tested extensively for proper functioning, geometry and sealing.

This ensures that every Cargo Floor 'moving floor' System is easy to install and functions excellently anywhere in the world.

Cargo Floor B.V. has specialised in the following product groups:

- Cargo Floor mobile systems for the truck and trailer industry
- Cargo Floor stationary systems for self-unloading transport/dosing systems in factories (design, advice and implementation)
- CargoMatic "The Logistic Solution", a dock-to-trailer system for fully automatically loading and unloading packed materials within 90 seconds
- Service and installation
- Trailer rental

Optimizing the logistic process is more important than ever. The **CargoMatic system** is the solution for this.

The CargoMatic system makes it possible to load or unload a 13,600 mm trailer **within 90 seconds**. Because of this the CargoMatic system is especially suitable for short-distance shuttle transport.

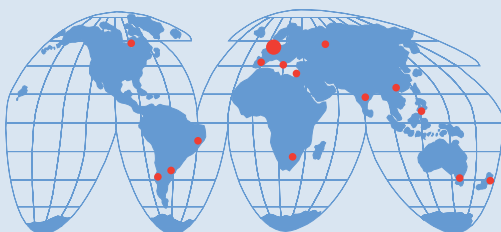
Mobile

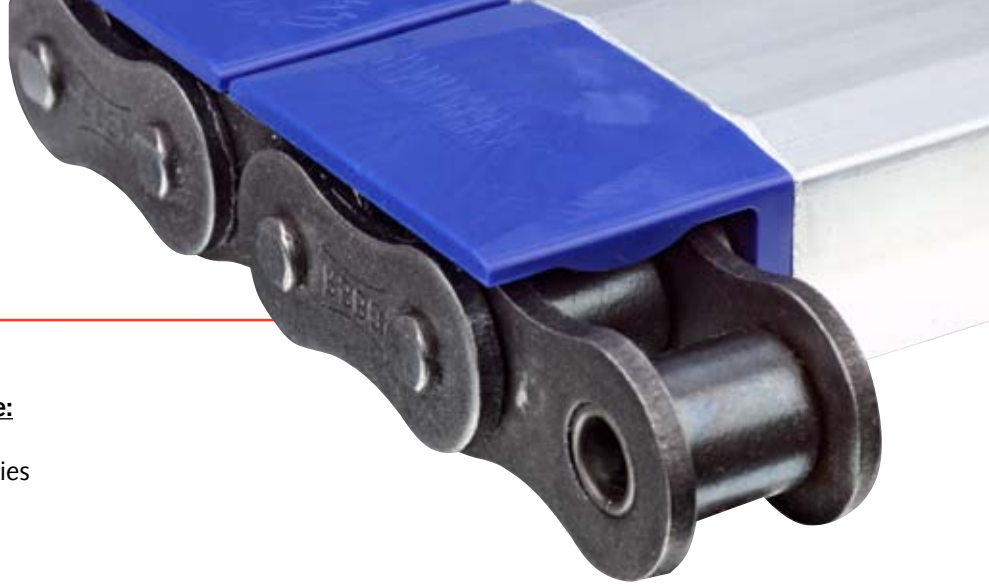
Inside a trailer, the CargoMatic system takes care of fast and simple unloading. Fork lift truck loading can be done much more efficiently. Once the load is in the trailer, the CargoMatic system shifts the load forwards or backwards fully automatically. Driving inside the trailer is no longer necessary.

The mobile systems can simply be connected to all sorts of stationary systems (roller conveyors, chain systems, etc.).

Stationary

When a stationary CargoMatic system is used in a factory or distribution centre, loading or unloading will be a completely automatic process, without the need for human or machine intervention. In this set-up, the complete load will be ready to be conveyed into the docked trailer within 90 seconds.





Direct benefits of the CargoMatic system are:

- Lower costs for personnel and fleet facilities
- Reduction in waiting times
- No damage to goods and materials
- Less physical handling
- Reduction of buffer stocks
- Fewer (un)loading docks

Simple assembly

The CargoMatic system is available as a package for retro-fitting, and can be fitted on both new and existing trailers, such as refrigerated trailers and sliding tarpaulin trailers. The compact drive is mounted on the outside of the bulkhead and falls within the headboard space, allowing the entire length of the trailer to be used for loads. Because of the low built-in height (140 mm), an optimal interior loading volume can be realised.

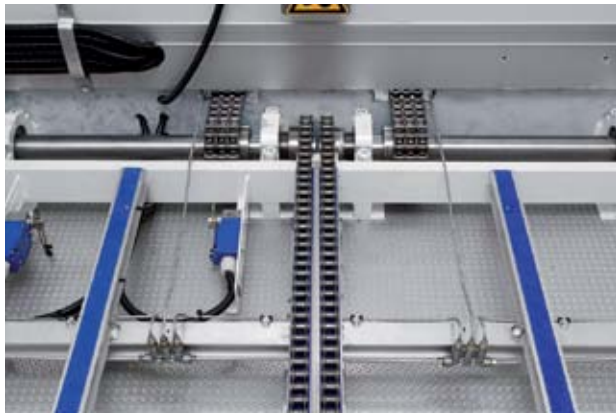


SLAT CONVEYOR



The principle of the CargoMatic system is based on a chain driven slat floor. The aluminium slats together form a completely flat loading floor. This robust floor allows maximum flexibility in the transportation of every and any load, among other: pallets, roller containers, crates, rolls of paper, sheets of cardboard etc.

The extremely stable construction of the aluminium sub-frame forms an integrated unit with the motor drive. The edge profile is fitted with an integrated protection profile, which ensures that the chain cannot be pushed off the plastic guidance. This guarantees the safety of the system and has the additional advantage that it prevents materials from getting between the chains.



The double triplex chain provide transmission, via the head-board of the trailer, to the 8 transport chains. The transport chain runs over high quality plastic guiding, with which the roll of the chains rolls over the guiding.

This results in a very low friction resistance and wear is being prevented.

The **heavy duty** chains run on a high quality, wear-resistant, plastic guidance and are protected against pollution by the patented chain shields. Because of these the load will not come into contact with the chain grease. The aluminium slats are supported in the middle over the entire length of the trailer by a maintenance free plastic guide. Each system is also equipped with 12-fold extra support at the back of the trailer.



CHAIN CONVEYOR

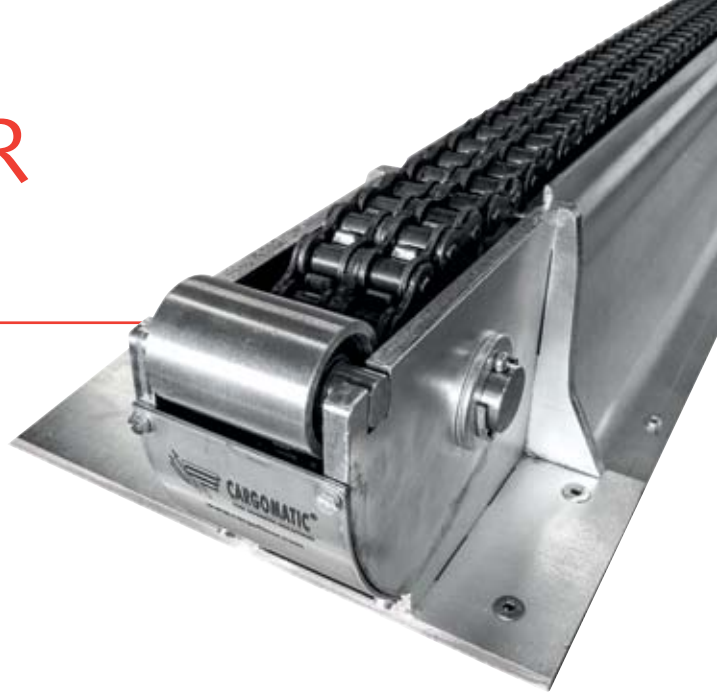
If load carriers of the same dimensions are used over and over again then the CargoMatic chain system will be the strongest link in the supply chain. The stable shaped aluminium profile combines the following features: very strong, extremely light and because of her round shapes simply to clean.

Every CargoMatic system consists of 6 duplex Heavy Duty chains that provide a stable base for the load carriers/pallets. The spaces between the chains is laid out in such a manner that the blocks of the pallets are on the chains. In this way every pallet is supported by 3 duplex chains.

The aluminium profiles, in which the HDPE plastic chain bearing will be mounted, are mounted onto the existing floor of the trailer. This assembly method guarantees simple cleaning of the trailer floor, a very reliable system and no cold bridges if mounted into a refrigerated trailer.

The assembly height of the CargoMatic system is, just as the CargoMatic slat system, 140 mm. This has as an advantage that the systems are compatible when it comes to the measurements. The CargoMatic chain system is, in contrast to the slat system, a loading/unloading system that can fully revolve without a beginning or an end.


In the area of the head board four end switches are placed that detects pallets in depend from each other and switch off the floor at the right moment.



SILENT FORCE

The CargoMatic system is powered by a **powerful** traction motor, which can be operated by a choice of electrical power sources:

- 400V mains voltage
- 24V battery voltage, with the possibility of recharging the batteries while driving
- a combination of 400V and 24V

The **silent operation** of the system is realised through the use of an electric traction motor combined with plastic components and high quality bearings. The CargoMatic system complies with the most strict noise level specification of <60 dB and as a result can be legally used 24 hours a day (meets the Dutch Order in Council for retail and crafts businesses). 



The compact drive even fits under a cooling aggregate and remains easy to reach.



HIGH-TECH

In the backportal of the trailer are two extremely small “field detection” sensors integrated. The sensors detect the pallets and when two pallets are placed next to each other, the floor indexes fully automatic without interference from an operator forward. In the PLC the pallet length can be programmed to the length required.



Each system is standard provided with a switch box. The PLC has a menu-operated display, so that personal preferences or product-specific adjustments can be programmed without limitations.



The CargoMatic system can be fitted with a fully automatic lubrication system, which is controlled by a PLC and which lubricates the chain on more the 18 different points.

Optionally, the CargoMatic system can operate on 24V battery voltage. The two extra batteries can be charged during driving, allowing for fully autonomous operations. For the combination of 24V-400V a transformer is used.



100% EFFICIENCY



The highest logistical efficiency will be achieved by combining the mobile CargoMatic system with stationary loading/unloading docks.

In this application, a single trailer can commute fast and efficiently between various locations.

A complete load can be commissioned without a trailer standing by. One of the possibilities for this is coupling the CargoMatic system to another internal transportation system.

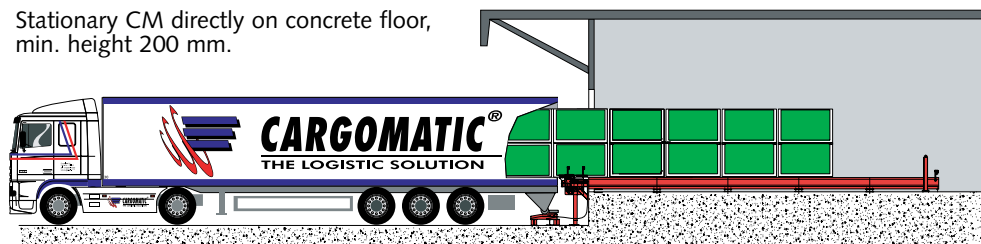
The solid galvanized rollers between the stationary and mobile CargoMatic systems ensure a seamless transfer of the load.



A positioning frame ensures that a trailer is positioned exactly before the stationary CargoMatic system.



Stationary CM directly on concrete floor, min. height 200 mm.

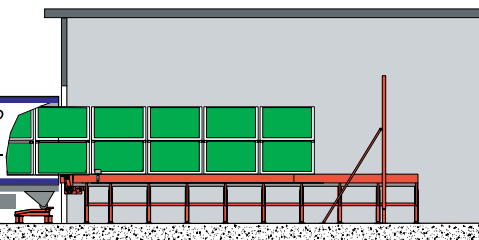


Stationary CM on frame. Height is adjustable using adjustable legs.



SUPERB QUALITY

The PLC of the both CargoMatic systems, stationary and mobile, communicate with each other and are functioning as a "master and slave" this enables a 100% secure operation.



Stationary CM built into concrete floor.
If desired a forklifttruck can pass over it.

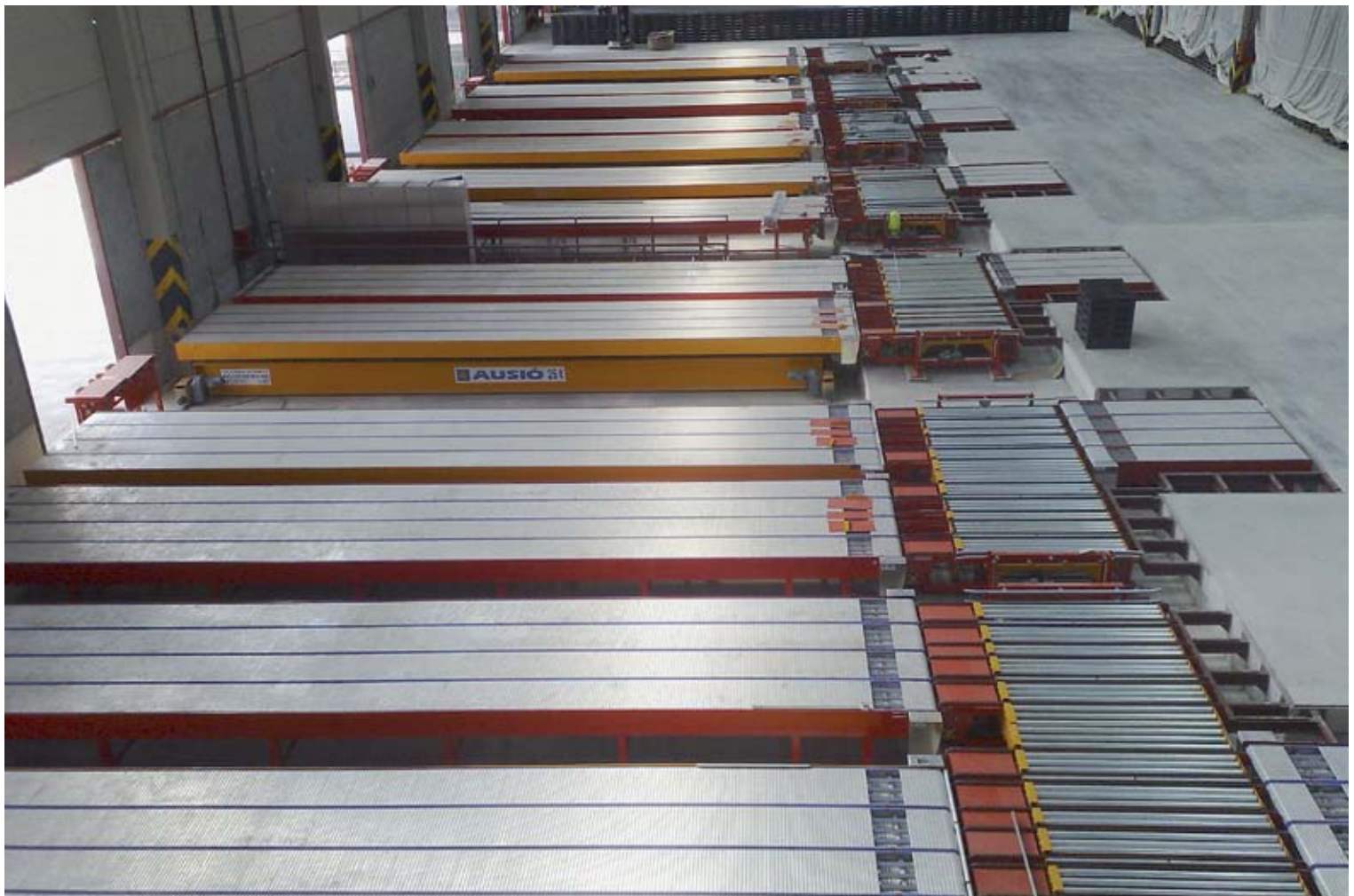


100% FUNCTIONALITY



A **control gate** which checks if the load present on the stationary CargoMatic system will fit through the back portal of the trailer, also available with vertical rollers to guide the load in the right position.

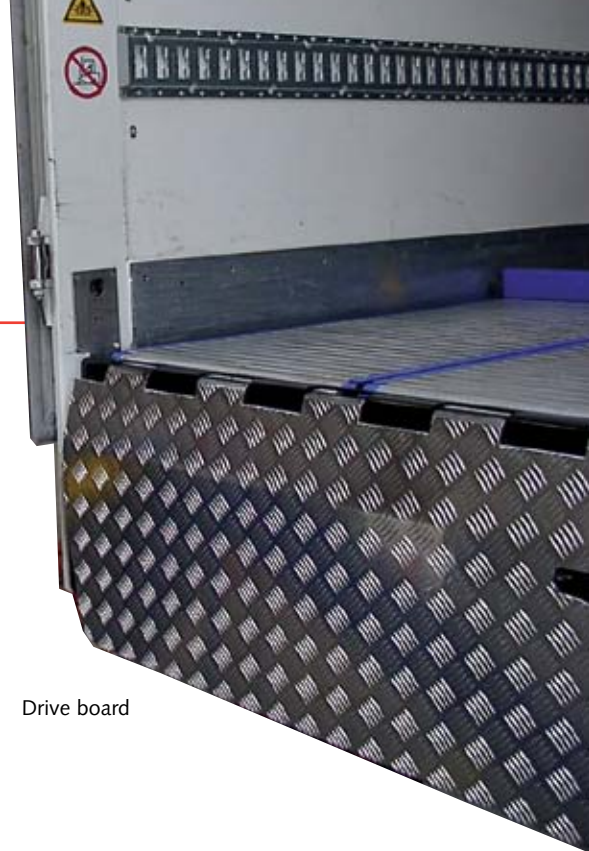
Stationary CargoMatic systems mounted on transfer tables, this enables the trailers to remain in position when loaded and unloaded directly after each other (empty bottles unloaded, full bottles loaded)



Every product/location has its own specific characteristics. In order to make optimal use of the CargoMatic functionality, various extra components are available if necessary. These include:

- Drive board for the seamless connection to a dock shelter
- Wireless remote control
- Running head board
- Oil lubrication system
- Heated sensors
- Take-over rolls
- Positioning frame
- Suitable for driving over it with a fork lift truck (stationary)
- Suitable for riding over it with a pallet cart (mobile)
- Collision protection
- 24V DC drive
- Contour checking gate
- Extra slat support
- CargoMatic sweeper (automatic cleaning system)

These are some of the benefits of the CargoMatic system. We are happy to inform you about other possibilities in a personal conversation.



Drive board



Wireless remote control



Suitable for riding over it with a pallet cart

APPLICATIONS

The CargoMatic system has proven its logistic advantage in many contexts, including:

- Beverage industry: pallets, crates, displays
- Paper industry: sheets of cardboard, paper rolls directly on the slat floor
- Food industry: conditioned (cooled and frozen products up to -30°C)
- Automotive: parts, steel crates and bodies
- Packing industry
- Glass industry
- Chemical industry
- Pet food industry
- Big-bags
- Construction materials
- Pharmaceutical industry
- Household electronics
- Furniture industry
- Raw material industry



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