

# Arca Combo

Intermediate Bulk Containers:

Simplifies Handling

Minimizes Packaging Material

Reduced Packaging Cost

Improved Safety

Improved Hygiene

Improved Ergonomics

# Arca Combo – Intermodal

## The new packaging solution

Arca Combo™ is based on foldable, reusable containers, used for liquids contained in a flexible liner. The aim was to create a system that considerably reduces costs per trip compared to conventional systems.

This means that every stage of the handling chain has been analysed to find simpler solutions for filling, emptying, storage, transport and cleaning.

The result is a new handling system for liquids that fulfils future requirements on safety, hygiene and the environment.



The container takes up very little space when folded, thus optimising return transport and storage capacity.



One person can easily prepare the container for filling.



The flexible liner is easy to install.



### Hygiene

The highest standards of hygiene are a fundamental requirement when handling food and chemicals. Arca Combo is made of materials approved for use with food, has a hygienic design and is easy to keep clean. The flexible liner can be sterile and can be filled without letting air into the container.

### Safety

Arca Combo is designed for extremely tough handling. All products are tested for transport by truck, rail, sea container and break bulk ships. Particular consideration has been paid to railway carriage shunting, which can entail extremely hard impacts, stresses and strains.



# mediate Bulk Container tion for liquid products



The filling process can easily be done using existing systems.



Arca Combo can be stacked up to five high when filled – even for long-term outdoor storage.



After emptying, the container is easily folded together for return transport.



## Environment

A re-usable system eliminates the need for large quantities of disposable packaging material. A foldable re-usable system saves on return transport compared to a rigid system. Life Cycle Analyses conducted at the University of Lund in southern Sweden show that Arca Combo dramatically reduces environmental impact compared to the most common systems for liquids handling.

## Profitability

The aim of Arca Combo is to combine the benefits of a rigid return container system, with the simplicity of disposable products. The fact that the containers fold together reduces return transport costs and storage space, and flexible liners make cleaning extremely simple and increase product safety, as well as reducing scrap. Compared to a disposable system, Arca Combo offers quick payback on investment due to a significant decrease in material consumption.





# Flexibility in focus

Arca Combo has been developed for use in a wide range of industries and situations. It is designed for different types of liquid which are filled under varying conditions, and with varying demands on shelf-life. Arca Combo can be stored outdoors for long periods, as well as indoors in freezer rooms, for example. The container can also be used for substances other than liquids, including dry products such as powder, granulate and flakes. Arca Combo is a highly flexible system.

## Flexible liner protects the contents

Arca Combo is used with a sterile or non-sterile liner which can be filled without allowing air to mix with the product. The contents are protected against external damage and oxidation. When required an aseptic filling system can be used, which together with a gas-tight liner guarantees long storage times.

When the product is to be used, it can be emptied without letting air into the container. The flexible liner collapses on emptying, and no oxidation takes place during the emptying process. This is particularly important when dealing with products that are readily affected by contact with air.

A flexible liner is easy to empty completely, thus avoiding product residue. After emptying the liner is replaced and sent for material recycling. The flexible liner is of course made of recyclable material.

## Simple handling – for everyone

Arca Combo is equally easy to handle for the company filling and delivering, as for the one receiving and emptying. The most important locking devices on the containers have a simple design, and operation is extremely easy to learn. A lot of effort has been devoted to making all the details as lightweight and ergonomic as possible, making it easy for anyone to use the system.

Arca Systems' long experience of the automotive industry has been a great help in developing the container system. Foldable containers have now been standard in the automotive industry for several years, where the ergonomic consequences of different systems have been closely studied. This experience has formed the basis of Arca Combo's design.

## Small details – big impact

Feel free to study the details of Arca Combo. The smooth surfaces and rounded corners ensure the highest standards of hygiene, secure protection of the contents and a safer working environment at every stage. All parting lines are overlapping, and it is impossible to access and damage the contents. Even dust and moisture are shut out of a filled Arca Combo. Should an accident occur and an Arca Combo component be damaged, they are easy to replace.

## Accessories and customised solutions

Arca Combo is available for various applications, all of which place different demands on the system's accessories. New accessories are continuously being developed for different areas of use, and there is even scope for unique customised solutions. Contact your Arca Combo specialist for more information!

# Research and development

Arca Systems invests in long-term development. In this work, market demands are brought together with our technological and application know-how, influenced by impulses from all over the world.

We are pioneers in foldable pallet containers, and it is this background that lays the foundation for the development of our IBC concept. We already have products for several applications, and the IBC family is continuing to grow, ready to meet the challenges of the food, biotechnology and chemical industries.

Behind each new product lies a meticulous study of the environment where the product is to be used. Arca Systems runs an advanced testing operation together with global food companies, where prototypes of new technical solutions are put to the practical test in the most demanding situations. Practical testing is combined with laboratory analysis, calculations and controlled tests at internationally recognised institutes.

Arca Systems' primary task is to improve our customers' materials handling and logistics by offering advanced products based on plastics. We create intelligent handling systems that generate more benefit than consumption.

## Future demands, today

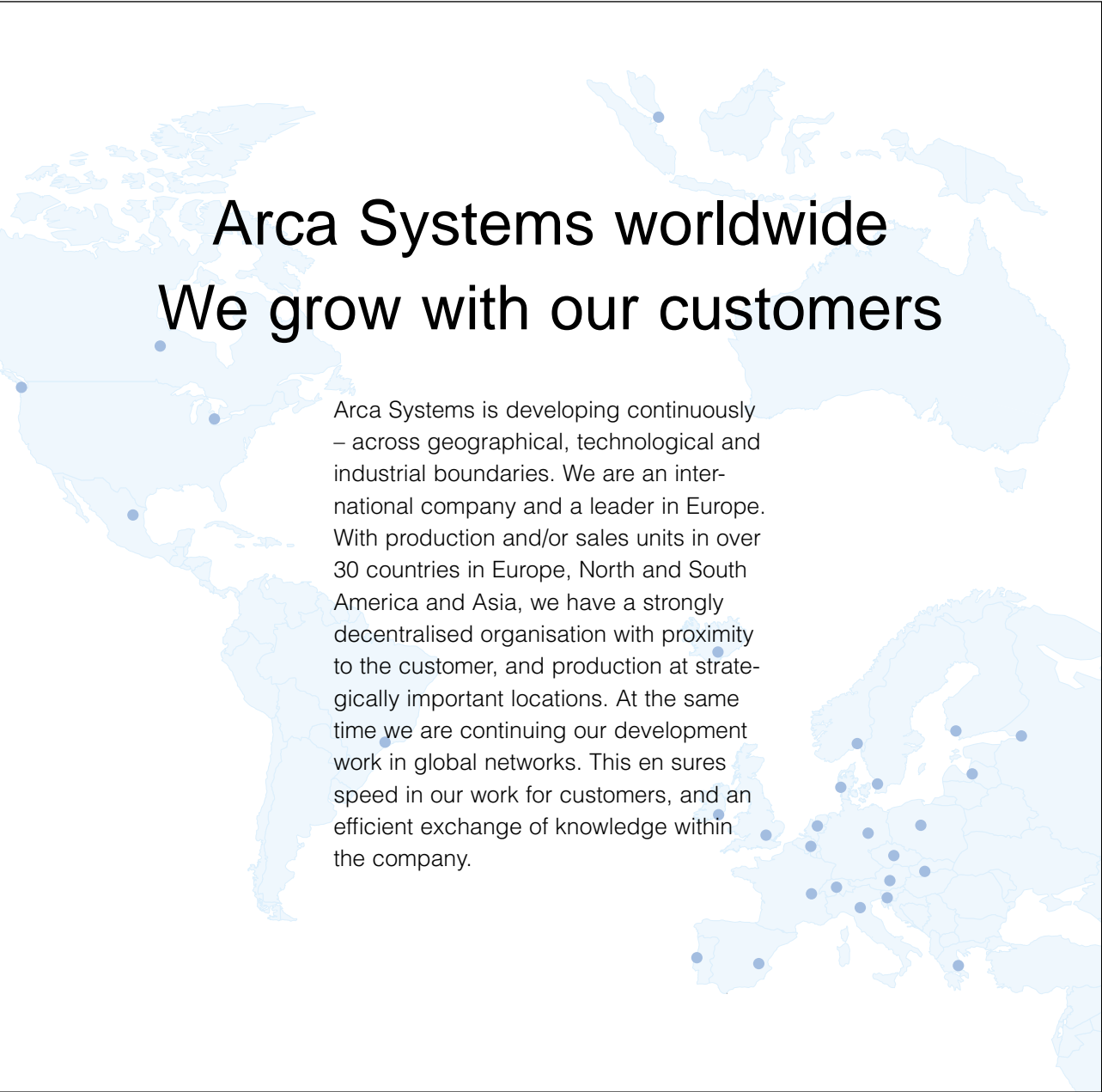
Our know-how is based on over 30 years' experience of materials handling. Care for the environment has always been our guiding principle, which has resulted in solutions based on return systems and recycling. Financial gains often go hand in glove with environmentally friendly logistical solutions, and this connection will prove even stronger in the future.



All Arca Combo's are tested according to international test standards. This includes vibration and impact tests.



Many producers of tomato concentrate have started to use the CF285. The filled containers are stored outdoors for up to 12 months.



# Arca Systems worldwide

## We grow with our customers

Arca Systems is developing continuously – across geographical, technological and industrial boundaries. We are an international company and a leader in Europe. With production and/or sales units in over 30 countries in Europe, North and South America and Asia, we have a strongly decentralised organisation with proximity to the customer, and production at strategically important locations. At the same time we are continuing our development work in global networks. This ensures speed in our work for customers, and an efficient exchange of knowledge within the company.



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