

SCHÜTZ
PACKAGING SYSTEMS

SCHÜTZ
ECOLOGICAL
PACKAGING



SCHÜTZ – a pioneer of the circular economy.

More than 50 years ago SCHÜTZ started making plastic drums for the chemicals industry. From the very outset our aim was always to offer our customers the highest degree of safety and economic efficiency while at the same time protecting the environment and natural resources. This is a target we pursue across all areas of the Group.

In keeping with this principle, in the mid-1970s we designed the IBC, a modern type of packaging where multiple use and recycling are part of the core concept.

Since then, we have constantly expanded our worldwide network for the production, collection and reconditioning of our economically and environmentally highly efficient packaging systems.



As a technology leader with a unique combination of manufacturing and product expertise, we optimise the entire life cycle of our packaging to ensure maximum eco-friendliness. This includes intelligent product design, advanced production processes, durable product quality and closed material cycles.

SCHÜTZ



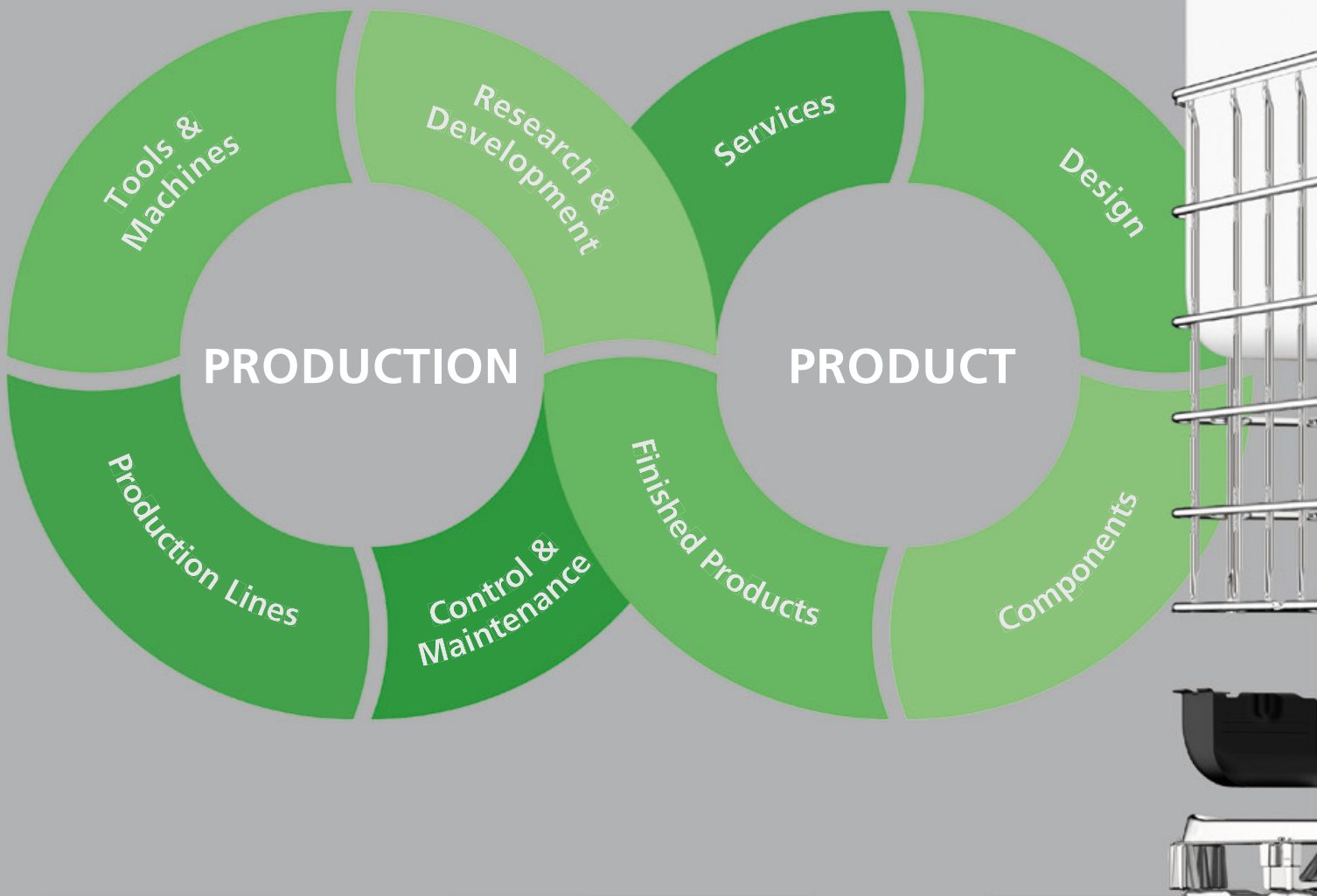
Modern technology is the key.

The basis of SCHÜTZ's innovative power and ability to continuously boost performance and improve the ecological balance of our packaging is our comprehensive technological know-how.

We design, develop and manufacture all the necessary systems, machines and tools in-house. As we are in full control of our processes, we can continually improve the quality and cost-effectiveness of production, as well as further reducing the amount of material and energy used per unit produced.

We employ the most advanced manufacturing processes and constantly invest in new production facilities and state-of-the-art equipment at our worldwide locations.

Complete in-house development and production



As one of the leading companies in multilayer extrusion blow moulding, SCHÜTZ is constantly developing this key technology further. For example, the current generation of systems allows us to reduce the amount of plastic needed thanks to an optimised wall thickness distribution.



Lower weight and better performance.

Lighter packaging weight saves emissions and conserves natural resources – directly through material savings and indirectly through weight advantages in handling and transport along the supply chain.

That's why more than 100 engineers and developers at SCHÜTZ are constantly working to further increase the quality and safety of each individual packaging component, while at the same time reducing the operating weight.

Achieved weight reduction

SCHÜTZ F1 tight-head drum

Our global player in the PE tight-head drum segment is available in weights ranging from 8.1 kg to 10.5 kg. **In many markets, this drum is significantly lighter than rival products with a comparable performance.**



ECOBULK range

By continuously improving the design of the steel grid and inner bottle, the SCHÜTZ standard IBC with a steel pallet has become a further 5.5 kg lighter over the past five years – while product performance has been increased!

This means direct CO₂ savings of over 120,000 t per year.



Direct CO₂
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Free service as part of the global SCHÜTZ network.

As a leading IBC manufacturer, our company is also the world's largest IBC reconitioner through our SCHÜTZ TICKET SERVICE. With our constantly growing network of more than 70 production and service locations, we are always at hand to collect used packaging from our customers and other consumers who return packaging.

We offer free collection and eco-friendly reconiditioning of empty containers within the scope of our collection service. The advantages:

- Widely available and standardised service
- Collection even of small quantities, in many regions starting from one container
- Collection within a few working days
- Reconiditioning processes comply with the highest environmental and safety standards



Short distances and software-supported route optimisation minimize the CO₂ emissions generated during transport. Wherever possible, we combine the delivery of new IBCs with the collection of used containers to avoid empty runs.



**MORE THAN 70
LOCATIONS
WORLDWIDE**

Comprehensive support and easy ordering.

SCHÜTZ has decades of experience in container collections and recycling. **As we operate this service ourselves, we control the entire process, giving us the expertise to be a full-service partner for our customers and those who return containers to us:**

- Direct contact to the respective SCHÜTZ service station with a personal contact person in the relevant language
- Easy IBC collection ordering – online, by email or by phone
- Support with all questions concerning containers returns and practical tips on how to increase packaging recycling rates



The best service is only a scan away.

Simply scan the QR code on our new SCHÜTZ TICKET SERVICE label with your mobile device and you will be taken straight to your SCHÜTZ service station and a convenient overview of all contact options. Online, by email or phone – **a few simple clicks is all it takes to order your collection.**



The SCHÜTZ TICKET SERVICE app –
available in all app stores!

Download our free app for iOS and Android and enjoy even better service and ease-of-use when ordering your container collection.

Download on the
App Store

GET IT ON
Google Play

Safety through highest quality standards.

With the SCHÜTZ IBC system, our customers benefit from a completely administration-free packaging solution that combines all the advantages of disposable packaging with those of a closed-loop system.

Our SCHÜTZ ECOBULK range has been consistently designed for optimum recyclability. The high-quality steel grid and the robust steel or plastic pallets can be cleaned, repaired and used for several packaging cycles. **By reusing these components, each cycle saves over 100 kg of CO₂ emissions compared to a new product.**

Quality & Safety – the SCHÜTZ standard

The inner bottle is the heart of every intermediate bulk container. Its cleanliness and the purity of the material are crucial for protecting the quality of the filling product. Its structural integrity and durability enable it to be used safely with a wide range of applications.

This is why at SCHÜTZ we fit all reconditioned containers with factory-new, tested inner bottles.



IBCs reconditioned by SCHÜTZ

The highest reco standard.

Collected SCHÜTZ containers are reconditioned in a globally standardised process using only original SCHÜTZ components. This means that a RECOBULK is identical to a new ECOBULK in terms of quality and safety, and both have the same uniform specifications.

RECOBULK



The best form of cross-bottling.

SCHÜTZ fits reusable steel grids from third-party manufacturers with a specially developed, optimised-fit inner bottle and a new universal label plate. We offer single-variety deliveries with uniform specifications.

RECONTAINER

All 100 % in-house.

Using a special process, SCHÜTZ recycles plastic drums and the inner bottles from IBCs collected for reconditioning. After shredding and cleaning in various mechanical preliminary stages, the HDPE material is reprocessed and regranulated in our own recycling centres.

Depending on the application, the HDPE can be recovered in different quality grades. Even heavily contaminated material can be processed with the aid of special degassing extruders. The result: Homogeneous recyclate grades with perfect processability.

Closed material cycle

100 % of the recycled material is reused to make plastic components for SCHÜTZ packaging. Only recyclate that we have recovered in our own reconditioning program is used in our production process.



Thanks to the use of recycled material for pallets and corner guards, for decades our IBCs have complied with the call to use a high proportion of recycled materials in plastic components.

Proportion of
recyclate in plastic
55 %



ECOBULK MX

Plastic skid pallet with acid protection

UN certification: **1.9**

Packaging weight: **58.5 kg**

Proportion of recyclate
in packaging weight: **17 %**

Proportion of
recyclate in plastic
40 %



ECOBULK MX

Full plastic skid pallet

UN certification: **1.9**

Packaging weight: **57.5 kg**

Proportion of recyclate
in packaging weight: **32 %**

NEW!

SCHÜTZ GREEN LAYER –

Taking resource conservation to new heights.

With our new SCHÜTZ GREEN LAYER IBCs for NON-UN applications we are increasing the proportion of recycled materials even further by using **30% of our high-quality recycled material** to make inner bottles.

The recycled HDPE is used exclusively in the middle layer of our modern, three-layer inner bottles. The inner and the outer layer are made of virgin HDPE, as in our conventional variants. **This means that the filling product and the environment only come into direct contact with new material.**

6.8 kg

CO₂ additionally saved per IBC



SCHÜTZ GREEN LAYER IBCs with optional UN certification are the ideal ecological packaging for many applications. They combine maximum safety, low operating weight and maximum content of recycled materials.

Proportion of
recyclate in plastic
35%

ECOBULK MX GREEN LAYER

Steel frame pallet

UN certification: **1.9**

Packaging weight: **57.5 kg**

Proportion of recyclate
in packaging weight: **10%**



Proportion of
recyclate in plastic
57%



ECOBULK MX GREEN LAYER

Plastic skid pallet with acid protection

UN certification: **1.9**

Packaging weight: **58.5 kg**

Proportion of recyclate
in packaging weight: **25%**

Proportion of
recyclate in plastic
68%

ECOBULK MX GREEN LAYER

Full plastic skid pallet

UN certification: **1.9**

Packaging weight: **57.5 kg**

Proportion of recyclate
in packaging weight: **40%**



SCHÜTZ tight-head and open-head drums

NEW!

with **GREEN LAYER.**

Whether for use with solid, viscous or liquid filling products – our drums are produced using a 3-layer blow extrusion process and state-of-the-art technology. They have proven themselves a million times over in a wide variety of applications.

In the new optional version GREEN LAYER the middle layer is made of high-quality SCHÜTZ recyclate. The inner layer, which comes into direct contact with the contents, and the outer layer are both made of new material.



SCHÜTZ PE drums with GREEN LAYER combine high quality and safety with active conservation of resources and CO₂ savings thanks to the use of recycled materials.

Proportion of recycle in the drum body
30%

F1 tight-head drum GREEN LAYER

Volume: **220l**
 Certification: **UN**
 Packaging weight: **8.1 kg**
 CO₂ savings: **3.8 kg**



S-DS1 open-head drum GREEN LAYER

For solid and viscous goods

Volume	Weight	Body weight	CO ₂ savings	Certification
30l	2.1 kg	1.5 kg	0.7 kg	UN
60l	3.5 kg	2.5 kg	1.2 kg	UN
120l	5.5 kg	4.2 kg	2.0 kg	UN
150l	6.2 kg	4.9 kg	2.3 kg	UN
220l	8.8 kg	6.8 kg	3.2 kg	UN

Proportion of recycle in the drum body
30%



Material recovery comes before the use of recyclates.

For economic growth that conserves resources, companies and politicians around the world are increasingly relying on the use of reclaimed material. **SCHÜTZ GREEN LAYER products already meet the legal requirements that will apply to packaging, for the proportion of plastic recyclate, in the future.**

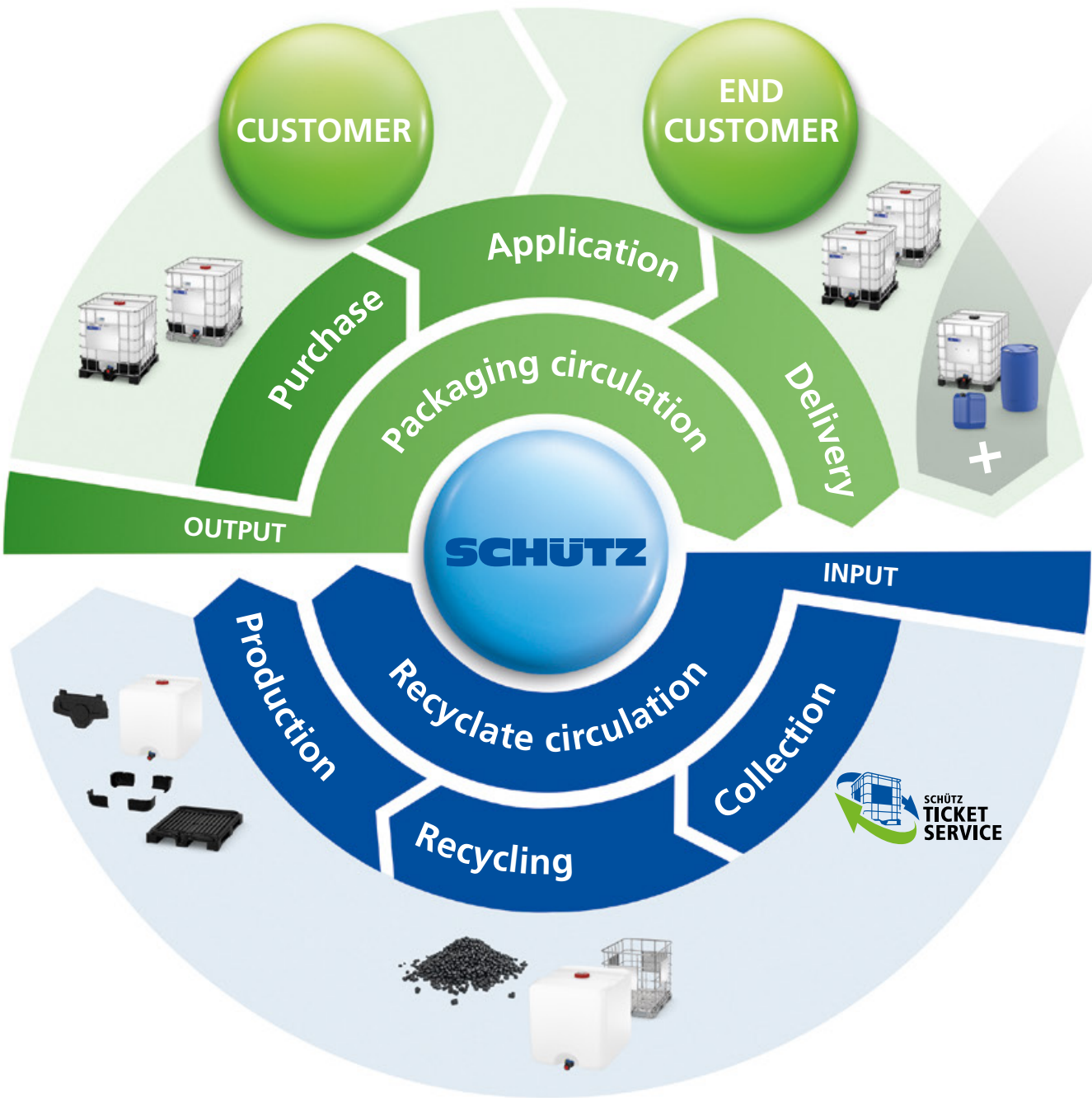
The downside of the increasing demand: Recyclate is valuable and in short supply. SCHÜTZ is therefore making an enormous effort with its global recycling program. Containers are collected on site free of charge and high-quality plastic is reclaimed through complex processes.

Responsibility for the entire supply chain

In order for us to be able to ensure the broadest and most cost-efficient supply of ecological packaging, it is important that customers and sellers actively participate. Sufficient recyclate will only be available if packaging is returned to the SCHÜTZ system after being emptied.



Maximizing the return volume on the end customer side is crucial for optimal availability of GREEN LAYER packaging on the customer's side.



Partner for the highest economic and ecological efficiency.

With the SCHÜTZ TICKET SERVICE, we have created an open cycle packaging system that has, for decades, contributed towards lowering the costs for industrial packaging and its ecological footprint.


To enable our customers to benefit from this system to an even greater extent, we are committed to supporting them in maximising the number of containers their customers return to SCHÜTZ. For example, we are happy to compile individual information and order documents that are perfectly tailored to the circumstances in the respective supply chain.



Ask us about individual logistics services such as our swap body service.

The flexible carriers can serve as mobile storage areas and are the optimum solution for storing emptied containers until they are collected.





Do you have further questions
about ECOLOGICAL PACKAGING?
**Get in touch! We will be happy
to help: +49 2626 77 0**