WALTHER® FALTBOX

Innovative. Foldable. Sustainable.

Legal notes

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We stand for plastics competence

Almost 50 years of experience in the design, toolmaking and production of reusable load carriers have made us specialists in the development of customised transport containers. We bring together all production stages under one roof, from the initial concept and design through to toolmaking and series production in plastic injection moulding.

Today, a load carrier is about far more than simply transporting goods safely to their destination – it is an active element within the supply chain. From barcode and smart label identification to specialised base designs for kilometre-long, complex conveyor systems, and recesses in the container walls to facilitate automated handling: modern load carriers must be tailored not only to the product itself, but above all to the processes.

It is therefore about much more than just a load carrier: together, we design your logistics processes to be efficient, resource-conscious and sustainable – with a customised container solution tailored precisely to your requirements.

Production

Toolmaking

Sales

Construction

We are your partner in solving your transport challenges

For us, your specific requirements take centre stage – our transport boxes and load carriers are the tailored solutions to meet them. This calls for comprehensive customer support from experts with a keen eye for the details of your individual transport task.

Innovative. Foldable. Sustainable.

Our slogan "Innovative. Foldable. Sustainable." reflects the three most important qualities the WALTHER Faltbox Group stands for. We embrace innovation and keep developing new products. Even if not all of our products are foldable today, volume reduction is our brand essence and describes where we come from. Sustainability is firmly anchored in our DNA and an important focus for our future.

Our mission

We develop innovative reusable load carriers for sustainable logistics.
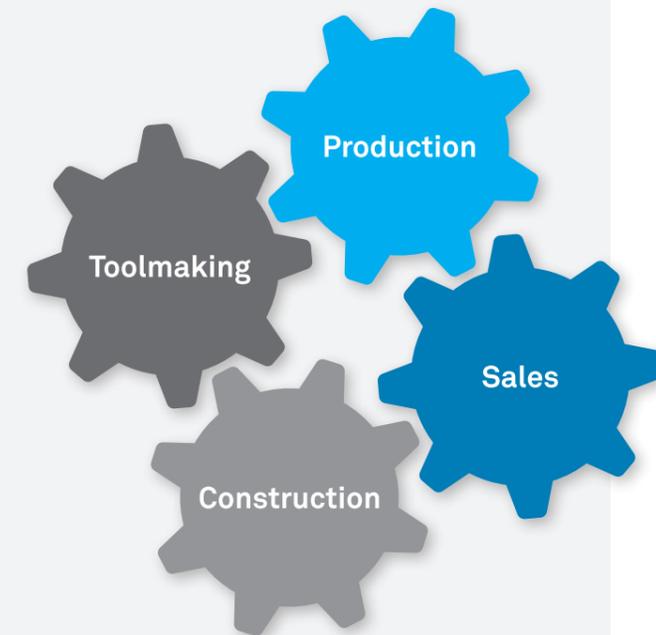
Our vision

Through volume-reducible load carriers, we make global logistics processes more efficient, save resources and actively contribute to the preservation of our planet. We embrace innovation, develop sustainable products and assume social responsibility. We are the leading specialist for customised reusable plastic load carriers. We set technical standards.

" We continuously develop new ideas to optimise our customers' logistics through innovative products. The increasing digitisation and automation of packaging logistics present both our customers and us as manufacturers with entirely new challenges. At the same time, emerging technologies open up fresh opportunities for innovative applications along the supply chain. As a reliable partner, we are committed to supporting you every step of the way."

– Dominik Lemken
  Managing Director WALTHER Faltbox Group

" To meet the growing demands of our customers and the logistics industry, we develop holistic solutions. From the initial project enquiry through to series production, individual requirements and current market developments remain at the heart of everything we do. The result is high-quality load carriers that are perfectly aligned with our customers' logistics processes and stand out for their durability and efficiency."

– Andre Peters
  Managing Director Formex Plastik GmbH
  A company of the WALTHER Faltbox Group

Quality and responsibility are the pillars of our work

Sustainability is no longer a trend, but a necessity for long-term business success. Since our foundation, it has been an integral part of our corporate policy. With our volume-reducible reusable load carriers made from high-quality plastic, we contribute worldwide to more efficient logistics processes, the replacement of single-use solutions and the conservation of resources.

We continuously improve our corporate processes in line with economic, environmental and social principles. We take into account the impact of our actions on society and the environment, avoid environmental harm and waste and make sustainable decisions, particularly in procurement.

We are committed to the sustainable reduction of energy consumption and the associated CO_2e emissions. To identify our environmental impact and derive targeted optimisation measures, we calculate our Corporate Carbon Footprint on an annual basis. As a company, we actively contribute to slowing climate change and preserving our planet, with the long-term goal of achieving climate neutrality.

Our contribution to the SDGs

In 2015, 193 countries adopted a total of 17 Sustainable Development Goals (SDGs) at the United Nations General Assembly, to be achieved by 2030. As a company, we both can and want to make a meaningful contribution to achieving these goals. To this end, we have prioritised six SDGs on which we can have the greatest impact. Regardless of the progress already made, we remain committed to continuous improvement and report regularly on our developments.

Integrated Management System

Since 1996, we have operated a quality management system in accordance with ISO 9001. Over the years, we have further developed this system into an Integrated Management System, which today also encompasses environmental management (ISO 14001), energy management (ISO 50001), as well as occupational health and safety, data protection and compliance.

Especially in times of increasing complexity and dynamic change, an Integrated Management System serves as a key instrument for corporate governance and development. We engage intensively with the requirements of the relevant standards – by conviction. We recognise the added value: from corporate policy and the definition of long-term objectives to a clearly structured process landscape and a comprehensive performance indicator system, through to an interdisciplinary assessment of risks and opportunities and a well-established knowledge management framework.

Our Integrated Management System supports us in positioning the company for a sustainable future. The structures and procedures developed over many years enable us today to manage our processes proactively and respond flexibly to new or changing requirements – always with our customers' needs in mind.

Voluntary standards and certifications

We seek independent certification to demonstrate our standards transparently. They provide our employees, customers and suppliers with the assurance that we not only comply with legal requirements but consciously go beyond them.

In addition to our own Code of Conduct, we have committed ourselves as a company to social responsibility by signing the Diversity Charter and obtaining certification from the German Association of the Plastics Converters (GKV). For us, this includes promoting fairness, equal opportunities and social cohesion. At the heart of this commitment are our dedicated employees, for whom we create a respectful and trusting working environment. Likewise, we focus on long-term relationships and open communication with suppliers and customers – built on partnership, reliability and mutual respect.

Through independent assessments, such as the EcoVadis rating and the ÖKOPROFIT® certification, we strengthen trust and continuously enhance our measures.

Our understanding of sustainability

Efficient plastic processing

The manufacture of plastic products involves significant material and energy consumption. For this reason, we continuously optimise our corporate processes to use resources as efficiently and sustainably as possible.

Our load carriers are robustly designed and engineered to withstand the demanding conditions of everyday logistics operations. In selecting materials, we deliberately combine virgin material with recycled content, including regrind from end-of-life products as well as processed plastics sourced from household and commercial waste streams. The durable construction ensures that, when used properly, our load carriers remain in service for many years. For example, our folding boxes typically complete around 200 cycles.

At the end of their long service life, we consistently take back defective load carriers. These are either ground down at our own facility or processed into high-quality recyclate by certified recycling companies, before being reintroduced into production – for example in the production of new GREENLINE boxes. Production waste and scrap materials are also fully returned to the manufacturing process.

Our production relies on energy-efficient injection moulding machines. Through continuous investment in modern equipment, we ensure that our machinery remains state-of-the-art. The latest generation of servo-hydraulic injection moulding machines, equipped with an ecodrive concept and electric dosing drives, significantly reduce energy consumption.

At the same time, we are steadily increasing the share of green electricity in our production, thereby making an active contribution to more sustainable plastic processing.

Latest information and key figures

Would you like to learn more about sustainability at the WALTHER Faltbox Group?

On our website, you will find further information about our sustainability initiatives, including up-to-date key figures such as our Corporate Carbon Footprint. Our sustainability brochure is also available for download.

Simply scan the QR code or visit us online at faltbox.com/sustainability.
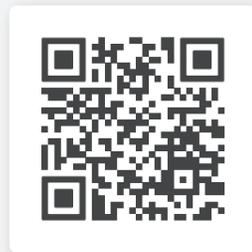
## Your reliable partner in meeting the EU PPWR requirements

When developing load carriers, we take into account not only your individual requirements but also regulatory frameworks such as the new EU Packaging and Packaging Waste Regulation (PPWR). A central objective of this regulation is the reduction of packaging and packaging waste. It applies not only to sales packaging but also to load carriers used as transport packaging.

Our reusable load carriers are already designed for closed-loop systems, significantly reducing the need for single-use packaging.

▶ **Recyclability**: Our load carriers are made from high-quality plastic that is up to 100 per cent recyclable. At the end of their service life, we take back defective products in order to reintroduce the valuable material into the production cycle for new load carriers.

▶ **Use of recycled materials**: We continuously increase the proportion of recycled plastic in our products, thereby reducing the use of virgin material.

▶ **Long service life**: Thanks to their robust design, our reusable load carriers are built for long-term use, significantly reducing resource consumption. They can be hygienically cleaned, making them suitable for repeated use even in hygiene-sensitive environments.

▶ **Volume reduction**: To ensure that load carriers occupy no more space than necessary, we offer dimensions precisely matched to your transported goods. Our foldable and collapsible products also stand out with a volume reduction of up to 80 per cent when empty.

▶ **Marking**: Material information and details on reusability can be permanently applied to the load carriers using durable marking techniques.

▶ **Transparent traceability**: Equipping our load carriers with digitally readable RFID tags, barcodes or QR codes enables seamless and transparent tracking of supply chains, including cycle counts. This supports efficient load carrier management and verifiable closed-loop operations.
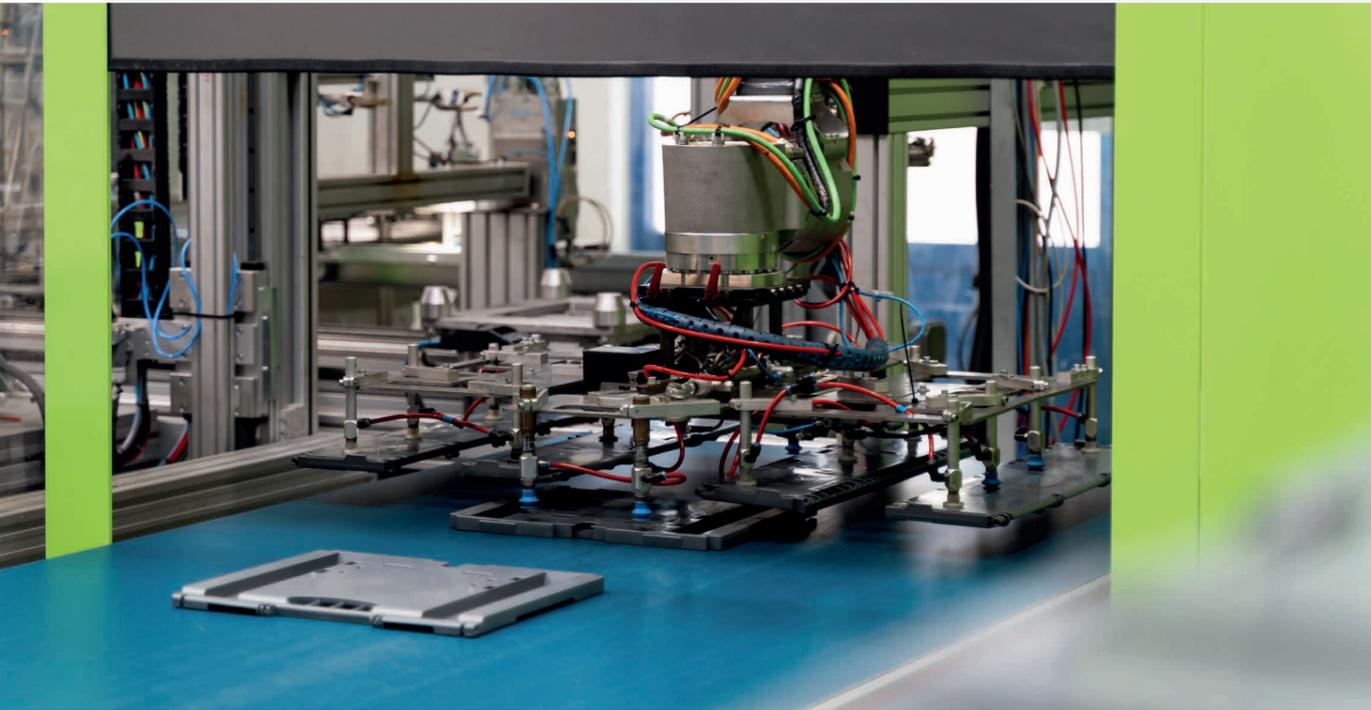
The complete supply chain **from a single source**

Since 1978, we have been manufacturing high-quality plastic products at our site in Kevelaer – then as now driven by the ambition to create well-designed solutions for reusable transport. A milestone that highlights our innovative strength was the development of the first plastic folding box for the European market.

Shaping the future together

Following the majority acquisition of Formex Plastik GmbH by WALTHER Faltsysteme GmbH in 2021, we now bring our expertise together within the WALTHER Faltbox Group.

The integration of key organisational units and a clear focus on innovation, quality and sustainability create the foundation for the reusable solutions of tomorrow – developed and manufactured under one roof.

Development and manufacturing

The close integration of development, toolmaking and production ensures a seamless transition from the initial concept to series production. In integrated teams, sales, design, engineering and manufacturing work hand in hand. This allows us to ensure a rapid time to market, maximum flexibility and the highest standards of quality and innovation.

Raw material supply with a system

Plastic granulate forms the basis for the manufacture of our products. At our production site, we operate ten large silos measuring 25 metres in height. In total, we store up to 1,800 tonnes of material – kept dry, protected and available at all times. This ensures planning reliability for both us and our customers. Fully automated conveying via pipeline systems directly to the machines guarantees smooth processes while preventing material losses – efficient and environmentally responsible.

Integrated toolmaking expertise

A key advantage of our production lies in our in-house toolmaking: with our specialised team and state-of-the-art technology, we develop and manufacture customised tools quickly and efficiently to meet all production requirements.

In addition, we carry out maintenance and repairs on our tools ourselves. This comprehensive control over the entire tool lifecycle enables us to minimise downtime, extend service life and consistently maintain high quality standards.

Our dedicated toolmaking team is further strengthened by a strong network of external partners. This combination provides exceptional flexibility, allowing us to implement individual requirements quickly, precisely and reliably.

Technology-driven quality

Our production is based on state-of-the-art machinery: 24 injection moulding machines with clamping forces ranging from 40 to 1,300 tonnes manufacture a wide variety of components with precision – from intricate individual parts to large-volume load carriers. These are complemented by high-end, modular tool systems that enable us to tailor our products to specific customer requirements.

Advanced robotic and peripheral systems handle the automated processing of individual components. Both fully automated and manual assembly processes are established and can be flexibly adapted to meet specific requirements.

Quality assurance is seamlessly integrated into all processes: automated barcode and camera inspections, as well as continuous tool condition monitoring, ensure consistently high quality. In addition, manual inspections further support quality assurance to reliably meet the highest standards.

Brush technology for industrial cleaning

In addition to our reusable load carriers, we also manufacture technical plastic components and industrial brushes. Alongside our injection moulding technology, our extensive production equipment includes nine brush manufacturing machines.

Whether cylindrical brushes or disc brushes, our highly specialised machinery processes a wide range of bristle materials. The result is industrial brushes precisely tailored to the specific cleaning requirements of each application.
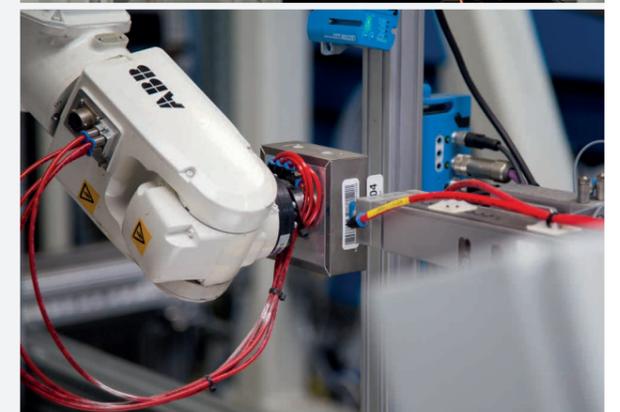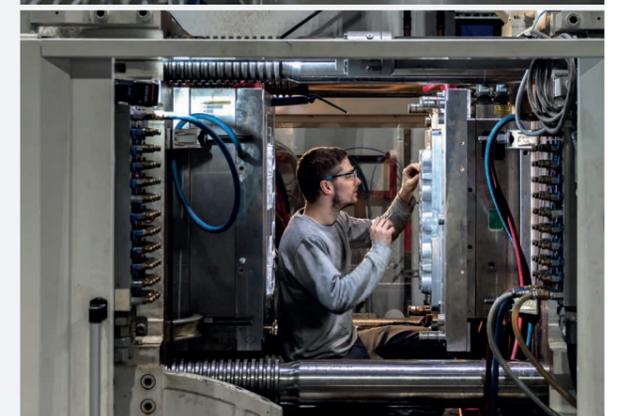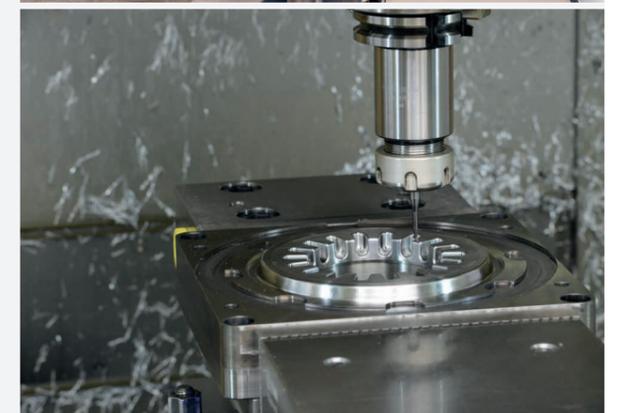
Together we will find **your reusable load carrier**

Every customer faces unique challenges and requirements within their logistics processes. That is why, at the start of every new project, we always begin with one key question:

What does your load carrier need to deliver?

Do you need a load carrier that enables you to transport and securely package your goods? We offer a range of folding or collapsible boxes, large containers or trays.

Depending on the intended application, the load carrier should meet specific requirements – for example, it may need to be particularly easy to clean for food transporta-

tion or manufactured from a specialised material suitable for sensitive electronic components.

Is maximum volume reduction for return transport your top priority? Our products can be safely stacked both when full and when empty. Volume reductions of up to 80 per cent are standard with our solutions.

Do you need to transport goods? Would you like to move them conveniently on castors through your warehouse or retail store? We offer a range of dollies and roll containers for this purpose – available with various castor types and brake options.

Or do you need to transport different products within a single container? In that case, we provide a variety of interior configurations to separate and organise them efficiently.

This raises the question of whether an additional lid is required – and which option is the most suitable. Our product range includes permanently mounted lids, hinged lids and drop-on lids that rest securely on the container.

Finally, you should also consider how to identify your reusable load carrier – a key step in the automation of logistics processes. To support this, we offer a range of marking solutions, from barcode and in-mould labels to RFID tags.

There is, of course, also the option of customising the containers with your company logo or other printed designs.

As you can see, selecting the right reusable load carrier involves numerous decisions. Fortunately, our comprehensive product range already enables us to meet a wide variety of requirements.

Perhaps there is also a reusable load carrier for your requirements?
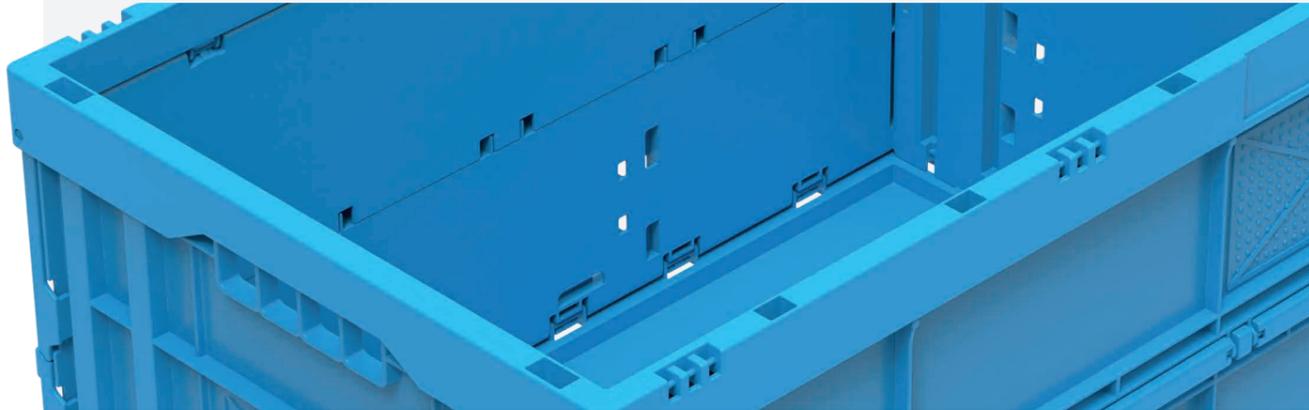
What is so special about our **folding boxes?**

In 1978, WALTHER Faltsysteme folded its first reusable containers. Since then, our container specialists have established themselves as leading experts in the market for foldable plastic boxes. Our success is built on the right fold – whether lengthwise or crosswise, with or without hinges. What truly matters, however, are the specific requirements of our customers. Rather than offering standard catalogue products, we develop customised solutions for storage and transport processes in international logistics markets. Over the years, this approach has resulted in a comprehensive product range for trade and industry. Our reusable containers support dynamic and efficient logistics operations.

Cost reduction

Reducing the container volume by up to 80 per cent when empty saves storage and transport costs, making the solution highly economical.

Utilisation of space

The majority of the containers is matched to the standard pallet dimensions of 1,200 x 800 mm or 1,200 x 1,000 mm and makes the best possible use of the available space.

Safety

The robust design, various lid options, secure sealing solutions and customised identification of the containers ensure the protection of your products.

Versatility

Models for special requirements and various options for individual adaptation solve almost every packaging problem.

Handling

Our containers can be easily and quickly folded and unfolded, providing ergonomic benefits.

Saving resources

Our containers remain in circulation for many years, often even decades. Once they reach the end of their service life, all containers manufactured by the WALTHER Faltbox Group can be returned at any time. They are then recycled and reprocessed, for example into GREENLINE products.
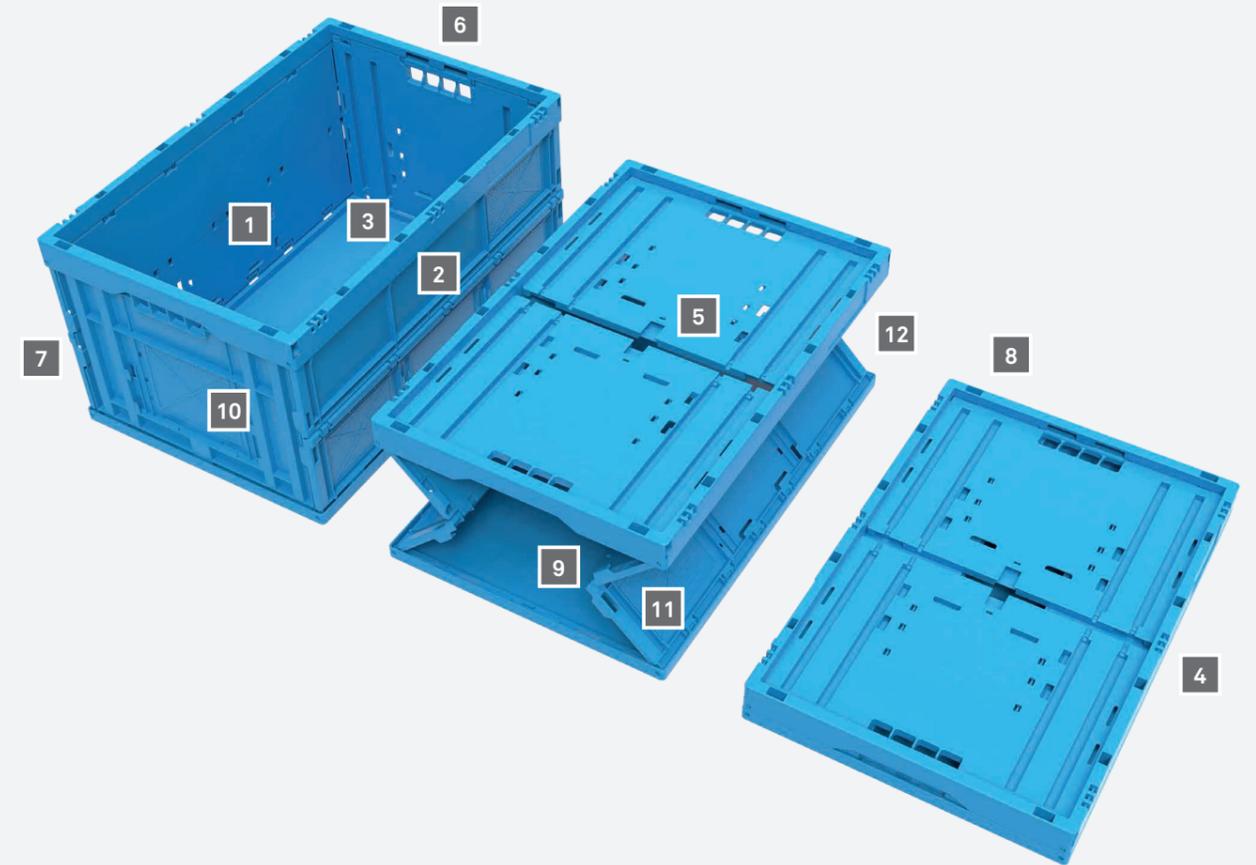
Properties

- ▶ material: PP (polypropylene)
- ▶ colour: blue (similar to RAL 5015)
- ▶ European standard dimensions
- ▶ high volume reduction for return of empties
- ▶ easy cleaning thanks to smooth interior surfaces [1]
- ▶ closed side walls [2]
- ▶ smooth base [3]
- ▶ frame can be fitted with hinged lid [4]
- ▶ short side walls can be fitted with front panel latches [5]
- ▶ ergonomic handles [6]
- ▶ extra strong ribs on the exterior wall for high stability [7]
- ▶ high stability in stacks due to extra high stacking rim [8]
- ▶ robust hinges for long service life [9]
- ▶ embossed area for self-adhesive labels [10]
- ▶ holding fixtures for label holders/frames [11]
- ▶ protected area for labels [12]

Folding boxes and accessories

Special requirements

Every customer has individual requirements for "their" box. Our standard range includes numerous different versions of our classic folding box. We offer various dimensions and custom sizes – from 400 x 300 x 220 mm to 800 x 600 x 445 mm. Our boxes are available with closed or perforated side walls, with access opening or opening flap. We also offer boxes specially designed for the e-commerce sector or for particularly heavy goods.

▶ folding boxes in custom sizes, if European standard dimensions don't fit **[1]**
▶ lightweight folding boxes for the delivery of goods to your end customer **[2]**
▶ "heavy duty" folding boxes for the transport of particularly heavy goods **[3]**
▶ folding boxes with gripper recesses in the base and frame for automated unfolding **[4]**
▶ specialised folding boxes for fully automated storage systems **[5]**
▶ access opening on one side in the front part of the folding box **[6]**
▶ opening flap on one side in the front part of the folding box **[7]**
▶ folding box with perforated front and side walls **[8]**

Options

There are various ways to customise our boxes and tailor them precisely to your requirements. This begins with the choice of material and extends to the selection of colours. In addition to our standard boxes made from PP (polypropylene), you can also opt for versions manufactured from GREENLINE material (a blend of virgin PP and recycled PP) or from conductive material (ESD). We also offer a range of design options, such as different base variants, some of which are specifically optimised for conveyor systems. Our range of handles also includes several options.

▶ GREENLINE material: blend of virgin PP and recycled PP **[11]**
▶ conductive material (ESD) **[9]**
▶ different product colour **[10]**
▶ different base design
  – smooth base **[1]**
  – ribbed base **[2]**
  – folding frame **[3]**
▶ drain holes
  – in the base **[4]**
  – in the frame **[5]**
▶ different handle designs **[6]**
▶ additional handle on the long side **[7]**
▶ guide rail for subdividing the interior with a divider **[8]**

Folding boxes and accessories
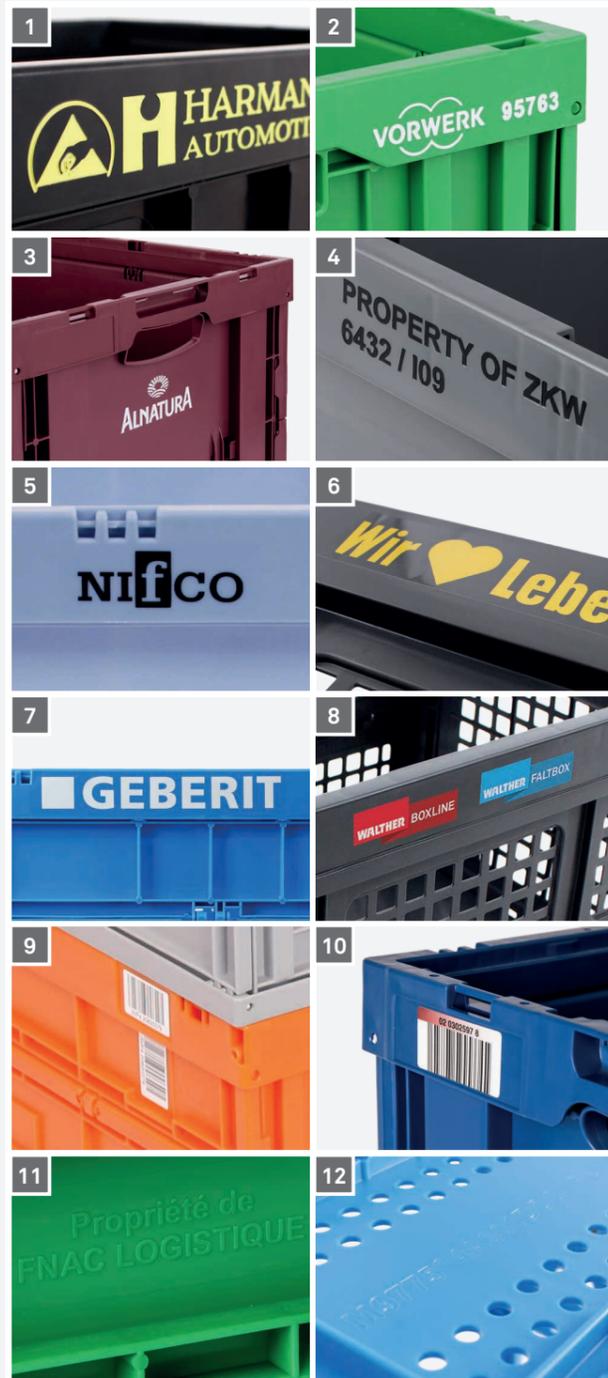
Marking

Turn our box into your box. There are no limits to your creativity: from your logo to a fully customised message – we bring your ideas to life on the box. To achieve this, we offer a range of finishing techniques, including printing, labelling and embossing. We will be happy to provide individual advice on the various options available.

▶ one-colour printing
 – hot-foil stamping [1] [2] [3] [4]
 – transfer foil printing [5] [6]
 – screen printing [7]
▶ multi-colour printing
 – decorative foil printing [8]
▶ barcode label
 – in-mould label [9]
 – self-adhesive label [10]
▶ decorative label
 – in-mould label
 – self-adhesive label
▶ relief embossing [11]
▶ cold embossing [12]
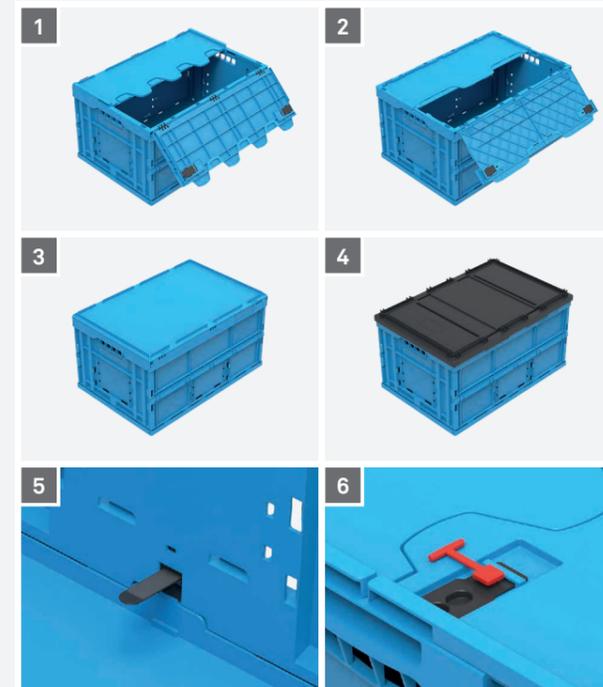
Accessories

With our accessories, you can add the finishing touch to your box. All box models are available with various lid options – permanently mounted, drop-on or slip-on. Additional securing solutions provide extra protection for both the folding boxes and the goods transported inside them. Label holders in a variety of designs and sizes enable flexible identification of the contents. Our dollies, available in different base dimensions, further facilitate the handling of the WALTHER folding boxes.

▶ drop-on hinged lid [1] [7]
▶ inside hinged lid [2]
▶ drop-on lid [3] [8]
▶ slip-on lid [4] [9]
▶ feet [10]
▶ label holders/frames [11] [12]
▶ front panel latches [5] [13]
▶ single-use security seals [6] [14]
▶ dolly

Folding boxes and accessories

Dollies

▶ Dolly RW 6410 V1 [1] [2]
  – material: ABS (Acrylonitrile Butadiene Styrene)
  – compatible with all folding boxes with the base sizes 400 x 300 mm and 600 x 400 mm
  – wrap-around edge for secure positioning of the container and as an impact edge
  – castors
    – four swivel castors
    – diameter: 100 mm
    – central hole mounting
    – material: wheel body made of PP with low-noise tread; castor bracket made of galvanised steel

▶ Dolly RW 6420 [3] [4]
  – material: PP (polypropylene)
  – compatible with all folding boxes with the base sizes 400 x 300 mm and 600 x 400 mm
  – wrap-around edge for secure positioning of the container and as an impact edge
  – wheel recesses for secure stacking of empty dollies
  – protected areas for labels on all four sides
  – castors
    – two swivel castors, two fixed castors
    – diameter: 100 mm
    – material: wheel body made of PA with low-noise, abrasion-resistant tread; castor bracket made of galvanised steel

▶ Dolly RW 8620 V1 [5] [6]
  – material: PP (polypropylene)
  – compatible with all folding boxes with the base sizes 400 x 300 mm, 600 x 400 mm and 800 x 600 mm
  – wrap-around edge for secure positioning of the container and as an impact edge
  – wheel recesses for secure stacking of empty dollies
  – protected area for labels on all four sides
  – ergonomic handles
  – eyelet on short side for drawbars or similar
  – castors
    – two swivel castors, two fixed castors
    – diameter: 125 mm
    – material: low-noise, soft wheel tread; wheel body and castor bracket made of galvanised steel
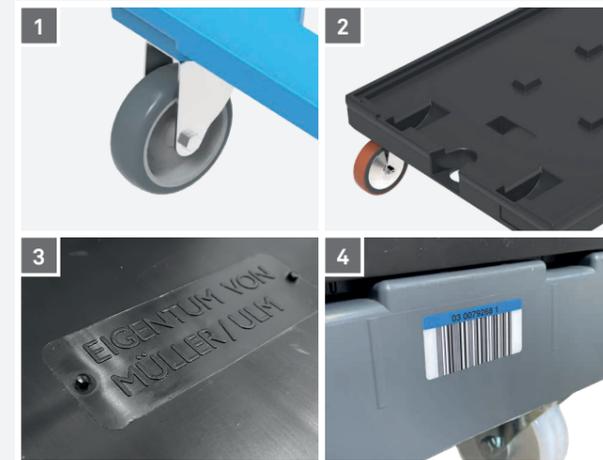
Options

▶ different product colour
▶ different castors available [1]
  – two swivel castors, two fixed castors
  – four swivel castors
  – swivel castors with brake
  – different castor diameters
  – other materials
▶ stacking lugs for folding boxes with base size 400 x 300 mm [2]
▶ dolly with central brake [5]
▶ marking
  – printing
  – relief embossing [3]
  – in-mould label and self-adhesive label [4]
  – RFID tag
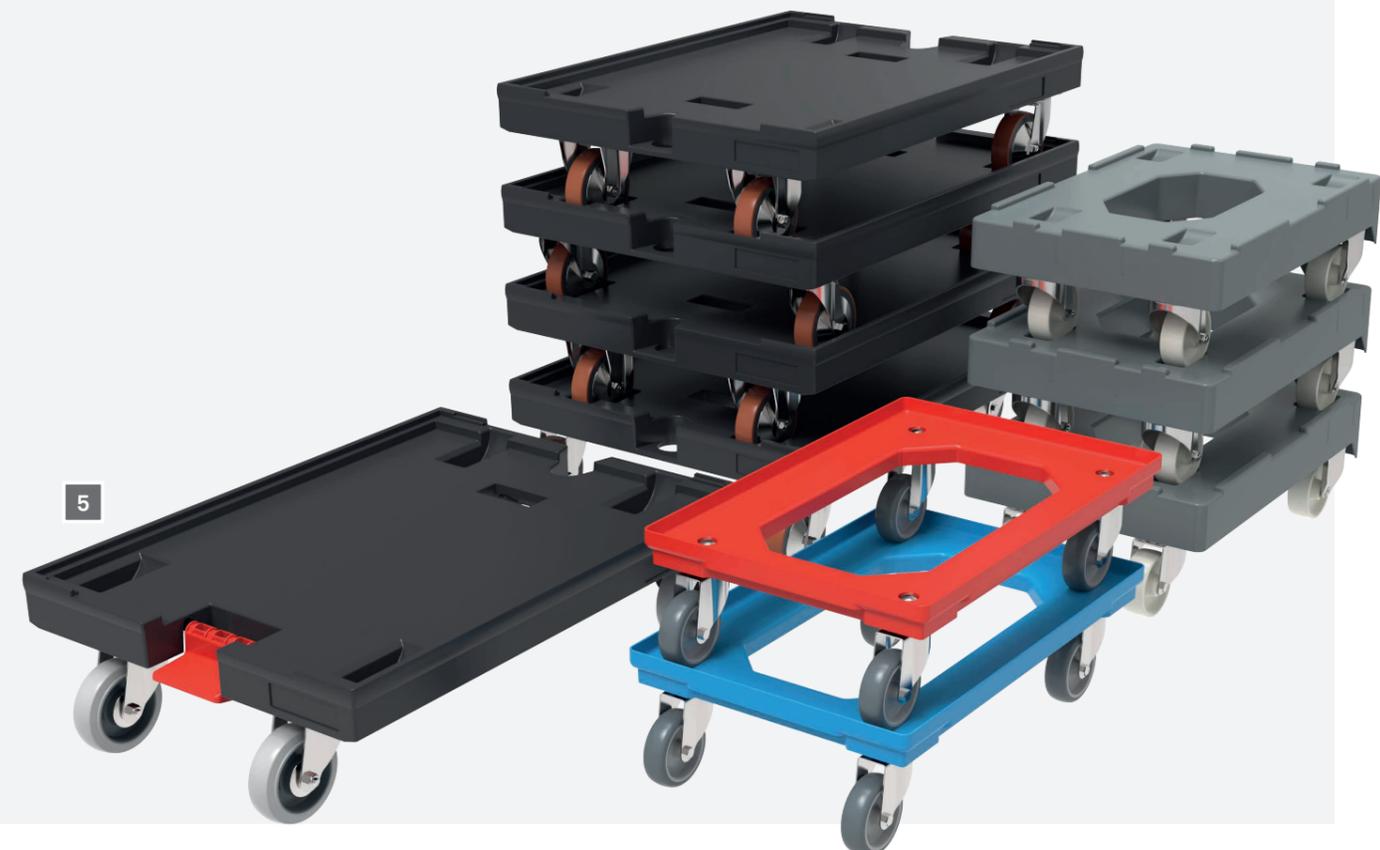
The "Müller tower" in operation

In Müller's small department stores, well over 100,000 different products – from mascara to children's bicycles – must be transported from the central warehouse in Ulm to more than 900 stores in Germany and abroad.

To supply the growing number of stores quickly and efficiently, Müller introduced automated order picking in 2006. The company replaced the bin containers previously in use with WALTHER folding boxes. Building on the shipping tower presented, WALTHER developed a customised Müller configuration.

With a combination of folding boxes and folding frames in just two base dimensions, along with dollies and slip-on lids, almost all Müller products have since been delivered to the stores in the so-called "Müller towers". The goods are picked in a way that enables store staff to assign each tower to defined store areas and product categories.

Orange boxes are used for standard products, yellow for mail and red for hazardous goods. The hinged lids provide additional protection for these sensitive items.

The light grey boxes are folding frames with an open base, effectively doubling the usable internal height of the box beneath them to accommodate larger items.

In addition to the colour coding, picking is further supported by various identification features. An in-mould label is positioned on both the frame and the upper side wall, allowing the boxes to be clearly identified from two scanning orientations. The Müller logo is prominently displayed as a hot-foil embossing on the frame and short side wall. The safety instructions are also hot-foil embossed on the short side wall of the hazardous goods box.

Another special feature for Müller: multiple dollies fitted with different folding boxes can be safely stacked in a double-deck configuration. To enable this, the lids are equipped with specially designed stacking recesses, ensuring that even fully loaded dollies stand securely without slipping.

The result of the Müller tower: shorter walking distances for store staff and faster shelf replenishment – leaving more time to focus on customer service.

Folding boxes in use at FNAC

France's largest multimedia and consumer electronics retailer FNAC uses WALTHER folding boxes in its supply chain to deliver to all of its 750 branches.

The company decided to replace single-use packaging with a more sustainable reusable solution for two key reasons: FNAC wanted to reduce packaging waste in its stores and prevent damage during transport. Additional customer requirements included easy handling on dollies and goods tracking via scanners.

We therefore developed a customised handling tower for shipping. FNAC uses three different folding boxes in distinct colours, enabling goods to be clearly organised into three categories: DVDs, books and consumer electronics.

Both the folding boxes and the dollies are marked with barcode labels. These ensure full traceability of the goods and seamless logistics between the central warehouse and the stores. The containers move through the warehouse via conveyor systems before being automatically loaded onto dollies with a base size of 600 × 400 mm by robots.

All boxes are matched to each other so that even different sizes can be safely stacked on top of each other on the dolly. Due to the relatively small base size, the handling towers can also be used in the narrow aisles of the stores up to the point of sale.

Since the introduction of the customised handling tower, FNAC has not only significantly reduced packaging waste but also lowered transport costs thanks to the volume reduction of the foldable containers.

Folding boxes

400 x 300 mm

4322 V1 | 4322 V1 K | 4322 V1 L

600 x 400 mm

6417 V1 | 6422 NG | 6422 V1 | 6426 NG

6428 NG | 6430 NG | 6430 NG E | 6432 NG

6432 V1 | 6432 V1 K | 6432 V1 L

	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height (mm, nom.)	exterior height when stacked (mm, nom.)	usable interior length (mm, approx.)	usable interior width (mm, approx.)	usable interior height (mm, approx.)	usable volume (litres, approx.)	weight (kg, approx.)	max. payload (stat., kg)	max. stacking load (stat., kg)	exterior height when folded (mm, nom.)	exterior height when folded and stacked (mm, nom.)	volume reduction when stacked (%, approx.)
400 x 300 mm														
4322 V1	400	300	220	210	360	260	215	20	1.2	25	100	65	55	74
4322 V1 K	400	300	220	210	360	260	215	20	1.2	25	100	65	55	74
4322 V1 L	400	300	220	210	360	260	215	20	1.2	25	100	65	55	74
600 x 400 mm														
6417 V1	600	400	170	160	555	355	160	32	1.8	60	250	70	60	63
6422 NG	600	400	220	210	555	355	215	42	2.3	60	250	80	70	67
6422 V1	600	400	220	210	555	355	215	42	2.3	60	250	70	60	71
6426 NG	600	400	260	250	555	355	255	50	2.5	60	250	80	70	72
6428 NG	600	400	280	270	555	355	275	54	2.6	60	250	80	70	74
6430 NG	600	400	300	290	555	355	295	58	2.7	60	250	80	70	76
6430 NG E	600	400	300	290	555	355	295	58	2.5	60	250	80	70	76
6432 NG	600	400	320	310	555	355	315	62	2.9	60	250	80	70	77
6432 V1	600	400	320	310	555	355	315	62	2.7	60	250	70	60	81
6432 V1 K	600	400	320	310	555	355	315	62	2.7	60	250	70	60	81
6432 V1 L	600	400	320	310	555	355	315	62	2.6	60	250	70	60	81

Technical specifications

1 exterior length (mm, nom.)
2 exterior width (mm, nom.)
3 exterior height (mm, nom.)
4 exterior height when stacked (mm, nom.)
5 usable interior length (mm, approx.)
6 usable interior width (mm, approx.)
7 usable interior height (mm, approx.)
8 exterior height when folded (mm, nom.)
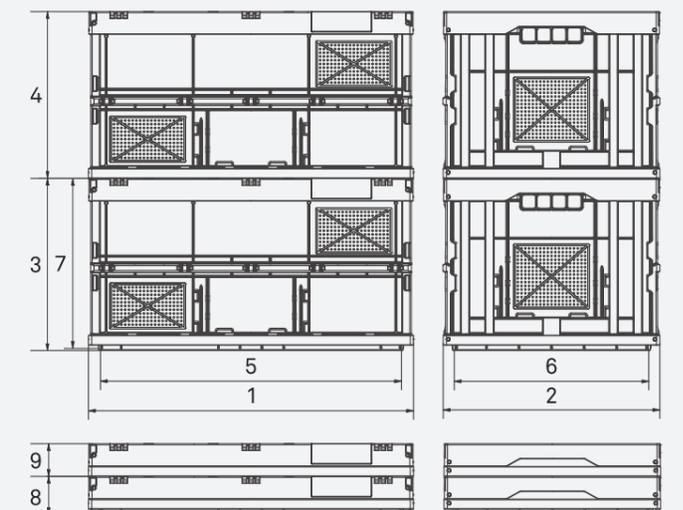9 exterior height when folded and stacked (mm, nom.)

E with access opening at front end
K with opening flap at front end
L perforated side walls
NG second product line, "heavy duty"
V1 third product line, successor of the first line

Folding boxes and accessories

800 x 600 mm

| 8622 V1 | 8632 V1 | 8645 V1 |

Custom size

| 4324 | 5328 V1 |

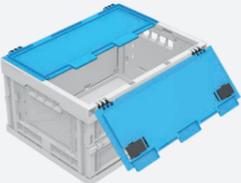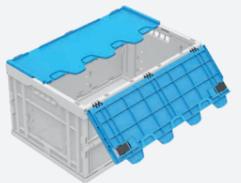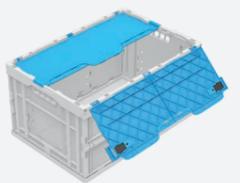| 800 x 600 mm	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height (mm, nom.)	exterior height when stacked (mm, nom.)	usable interior length (mm, approx.)	usable interior width (mm, approx.)	usable interior height (mm, approx.)	usable volume (litres, approx.)	weight (kg, approx.)	max. payload (stat., kg)	max. stacking load (stat., kg)	exterior height when folded (mm, nom.)	exterior height when folded and stacked (mm, nom.)	volume reduction when stacked (%, approx.)
8622 V1	800	600	220	195	740	540	200	80	5.4	150	450	130	105	46
8632 V1	800	600	320	295	740	540	300	120	6.3	150	450	130	105	64
8645 V1	800	600	445	420	740	540	425	170	7.7	150	450	130	105	75
Custom size														
4324	480	350	240	230	450	320	230	33	1.6	25	75	70	60	74
5328 V1	530	350	285	275	500	320	270	43	1.5	25	100	58	48	83

Accessories

Hinged lid

| 43 DL | 64 DL | 64 IDL | 64 IDS |

| 86 DS |

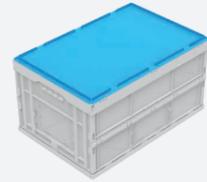| Hinged lid	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height of the folding box (mm, nom.)	exterior height of the folding box when stacked (mm, nom.)	usable interior height of the folding box (mm, approx.)	weight (kg, approx.)
43 DL	400	300	+10	+10	-10	+0.3
64 DL	600	400	+10	+10	-10	+0.7
64 IDL	600	400	±0	±0	-20	+0.5
64 IDS	600	400	±0	+2	-20	+0.5
86 DS	800	600	+10	+25	-35	+1.6

DL   drop-on hinged lid mounted on long side
DS   drop-on hinged lid mounted on front end
IDL   inside hinged lid mounted on long side
IDS   inside hinged lid mounted on front end
V1   third product line, successor of the first line
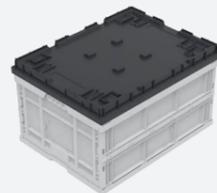
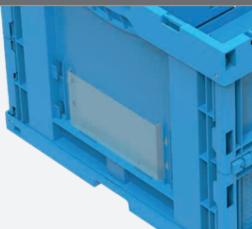# Folding boxes and accessories
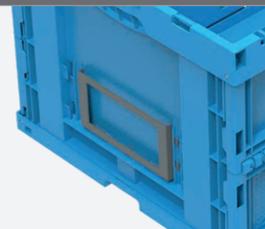
Drop-on lid

64 DA

Slip-on lid

64 SD

86 SD

Feet

86 V1 4F

Label holders/frames

A6-EH

A6-ER

A5-EH

A5-ER

	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height (mm, nom.)	exterior height when stacked (mm, nom.)	exterior height of the folding box (mm, nom.)	exterior height of the folding box when stacked (mm, nom.)	weight (kg, approx.)	max. stacking load (stat., kg)
Drop-on lid								
64 DA	600	400	30	15	–	–	0.6	–
Slip-on lid								
64 SD	606	406	40	20	–	–	0.8	–
86 SD	807	608	74	44	–	–	3.0	250
Feet								
86 V1 4F	235	95	125	–	+100	+115	–	–
Label holders/frames								
A5-EH	210	110	8	–	–	–	–	–
A5-ER	210	110	8	–	–	–	–	–
A6-EH	175	80	10	–	–	–	–	–
A6-ER	175	80	10	–	–	–	–	–

4F   four feet
DA   drop-on lid
EH   label holder, translucent
ER   label frame
SD   slip-on lid
V1   third product line, successor of the first line

Folding boxes and accessories

Front panel latches

| 64 STS | 64 STS Z | 86 STS | 86 STS Z |

Single-use security seals

E-SP

Dollies

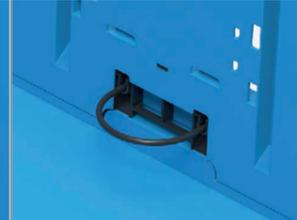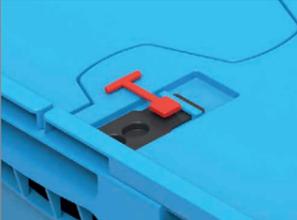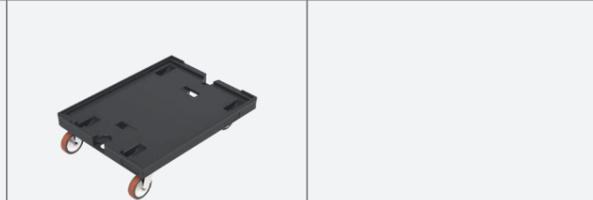| RW 6410 V1 | RW 6420 | RW 8620 V1 |

	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height (mm, nom.)	exterior height when stacked (mm, nom.)	weight (kg, approx.)	max. payload (dyn., kg)	entry height when stacked (mm, approx.)
Front panel latches							
64 STS	40	25	10	-	-	-	-
64 STS Z	40	25	60	-	-	-	-
86 STS	120	75	20	-	-	-	-
86 STS Z	120	75	80	-	-	-	-
Single-use security seals							
E-SP	45	25	15	-	-	-	-
Dollies							
RW 6410 V1	613	413	172	150	3.5	300	102
RW 6420	600	400	206	180	4.7	250	95
RW 8620 V1	800	600	223	160	7.7	500	85

Technical specifications

1   exterior length (mm, nom.)
2   exterior width (mm, nom.)
3   exterior height (mm, nom.)
4   exterior height when stacked (mm, nom.)
5   entry height when stacked (mm, approx.)

E-SP   single-use security seals
RW   dolly
STS   front panel latch
V1   third product line, successor of the first line
Z   pull tab/rope
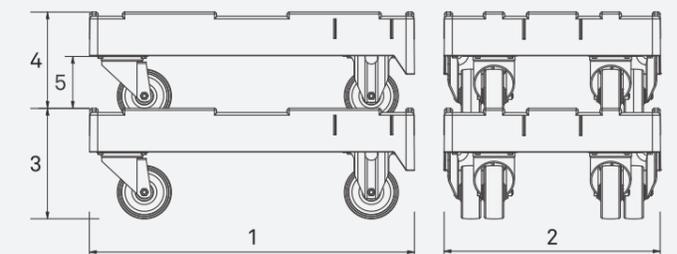
What is so special about our
Mega-Packs and Hyboxes?

Foldable plastic pallet boxes are a durable alternative to metal mesh containers and pallet cardboard boxes. Compared to metal solutions, they are significantly lighter and more space-efficient during return transport. Their robust and ergonomic design ensures simple and convenient handling. Our Mega-Packs and Hyboxes are ideally suited for large-volume components. With customised internal compartments, multiple smaller parts can also be transported securely and shock-resistant.

Sustainable

Mega-Packs and Hyboxes are reusable and, thanks to their high durability, remain in service for many years – making them more sustainable over time than cardboard packaging. As a result, the use of Mega-Packs can significantly reduce CO_2e emissions.

Space-saving

Simply fold the sleeve and place it between the pallet and the lid to reduce the volume by approximately 75 per cent. When folded, the unit consisting of pallet, sleeve and lid measures only around 250 millimetres in height and ensures maximum space utilisation when stacked. This space-efficient design simplifies the return of empty packaging and makes your logistics even more efficient.

Versatile

With more than 20 Mega-Pack variants, we offer all standard base dimensions with a range of load and stacking capacities. The Hyboxes provide optimal product and hygiene protection for sensitive goods.

Customised

The sleeves can be fully customised. From the height to optional access openings with different locking mechanisms, to printing or label pockets, we can customise the sleeve specifically to your requirements. The pallets and lids can also be modified or printed.

Mega-Pack or Hybox?

There is no general answer to whether a Mega-Pack or a Hybox is ideal for your requirements. There are strong arguments in favour of both systems – we will be happy to advise you.

Properties

▶ locking elements in lid and pallet [1]
▶ handles in the lid [2]
▶ recesses in the lid for slip-resistant stacking [3]
▶ strapping grooves in the lid
▶ stable, foldable sleeve made from PP (polypropylene) in different heights [4]
▶ access opening on the long side enables simple and ergonomic removal of the contents [5]
▶ fixation of the open opening flap [6]
▶ robust foot pallet with low tare weight and high weight-bearing capacity, nestable and accessible from all sides, optionally with reinforcement for high bay storage [7] or as a pallet with runners [8]

Mega-Packs and Hyboxes

Mega-Packs and Hyboxes in comparison

▶ Mega-Packs [1]
  – Our foldable pallet box Mega-Pack offers a wide range of base sizes. The deep-drawn pallets and lids are available in a wide range of base sizes from 800 x 600 mm up to our largest unit measuring 2,250 x 1,200 mm.
  – Due to their design with feet, the robust pallets are accessible from all sides and offer high load capacity despite their low tare weight.
  – Precisely fitting recesses in the lids ensure the next Mega-Pack unit can be stacked on top without slipping.

▶ Hyboxes [2]
  – Our Hybox with the base sizes 1,200 x 800 mm or 1,200 x 1,000 mm features injection-moulded pallets and lids. All surfaces are closed and smooth, making cleaning easy. This is of particular importance in hygienically sensitive areas such as the food or pharmaceutical industries.
  – In addition, thanks to its robust runners, the Hybox can also be used on automated conveyor systems.
  – Hook-on edges in the lid ensure non-slip stacking even when empty.

Special requirements

▶ multi-layer units with intermediate levels for transporting complete assembly sets [1]
▶ Mega-Pack folding box combination for the modular distribution of goods [2]
▶ empties collection containers [3] make collecting empties at the supermarket easier, lid optionally with or without opening
▶ an integrated clothes rail in the fast-foldable container [4] allows transporting hanging garments right into the stores
▶ lightweight collection container [5] for flexible use in the stores, ergonomic handling thanks to grip tabs for easy emptying
▶ stable, foldable twin-sheet pallet stacking frame [6] fitting wood or plastic pallets in Euro pallet sizes
▶ lightweight version of Mega-Packs with runners [8]
▶ custom sizes up to 2,250 x 1,200 mm possible even for small quantities [7]

Mega-Packs and Hyboxes

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Options

▶ Hyboxes made from conductive material (ESD) transport electronics items without the dreaded "electrical shocks" [1]
▶ different product colours
▶ additional securing with bands [2]
▶ fillers for pallet feet for a smooth pallet surface
▶ base layer for a smooth pallet surface
▶ marking
  – customised printing and marking of the individual components with self-adhesive labels [3]

Sleeves

The sleeves of our Mega-Packs and Hyboxes are the core element of the unit. Thanks to the wide range of customisation options, they can be perfectly tailored to your specific logistics requirements. They support ergonomic handling and, due to their high volume reduction when empty, can be stored and transported in a space-saving manner.

▶ PP (polypropylene) structured-core panel
▶ different sleeve thicknesses or grammages [4]
▶ edge design
  – open edges [5]
  – welded edges [6]
▶ sleeve types
  – M fold: folding on the short side [7]
  – Z fold: folding on the long side [8]
  – two-part C-sleeve [9]
  – C-sleeve with front plate [10]
▶ access openings with different locking mechanisms
  – one or several opening flaps [11]
  – double opening flap [12]
  – "QuickSlide" instead of hook-and-loop fastening [13]
▶ self-adhesive label pocket [14]

Container interior

The Mega-Packs can be individually matched to your products with compartments, trays or foam inserts. The customised packaging prevents the individual parts from slipping and at the same time no more space is wasted.

▶ foldable compartments in every shape and size made from twin-wall sheets to subdivide the container [1] [2] [3] [4]
▶ horizontal partitioning of the interior using special crossbars with a plastic cap, hooked into the sleeve [5]
▶ plastic sheet inlay for particularly hygienic protection [6]
▶ pallets with mounted supports for exact positioning of products [7] [8]
▶ combined interior packaging including foam parts and compartments [9] [10]
▶ deep-drawn trays for transporting particularly heavy products [11]
  – a plug system also allows the stable stacking of the trays on top of one another [12]

Mega-Packs and Hyboxes
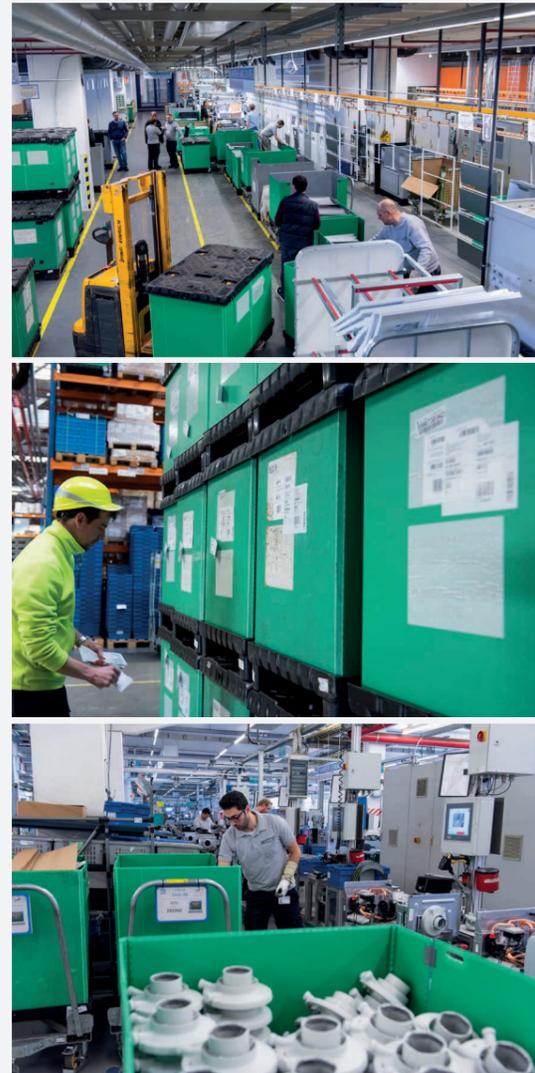
Mega-Packs in use at comepack

The company comepack represents intelligent container management and sustainable reusable logistics. To operate a container pool efficiently and sustainably, robust and volume-reducible load carriers are essential. For this reason, comepack has relied for many years on large load carriers from the Mega-Pack series by the WALTHER Faltbox Group.

In the automotive and heating technology sectors, comepack uses pallet boxes measuring 1,200 × 800 mm from the Mega-Pack family. Thanks to their customised and modular interior fittings, they are used to transport heating components as well as parts for brake systems.

The Mega-Packs are handled exclusively using forklift trucks or other material handling equipment. It was therefore crucial for the customer that the load carriers offer exceptional robustness.

In addition, we generally supply a steel-reinforced version of the pallets for comepack. This ensures that loads of up to 750 kilograms can be safely stored long term in high-bay storage.

At comepack, the large load carriers complete several thousand cycles per year. To ensure that the containers remain volume-reducible despite their robust design, the side walls of the Mega-Packs are fitted with a sleeve made from structured-core panels. This allows the load carrier to be easily folded, reducing its volume by approximately 75 per cent during empty return transport.
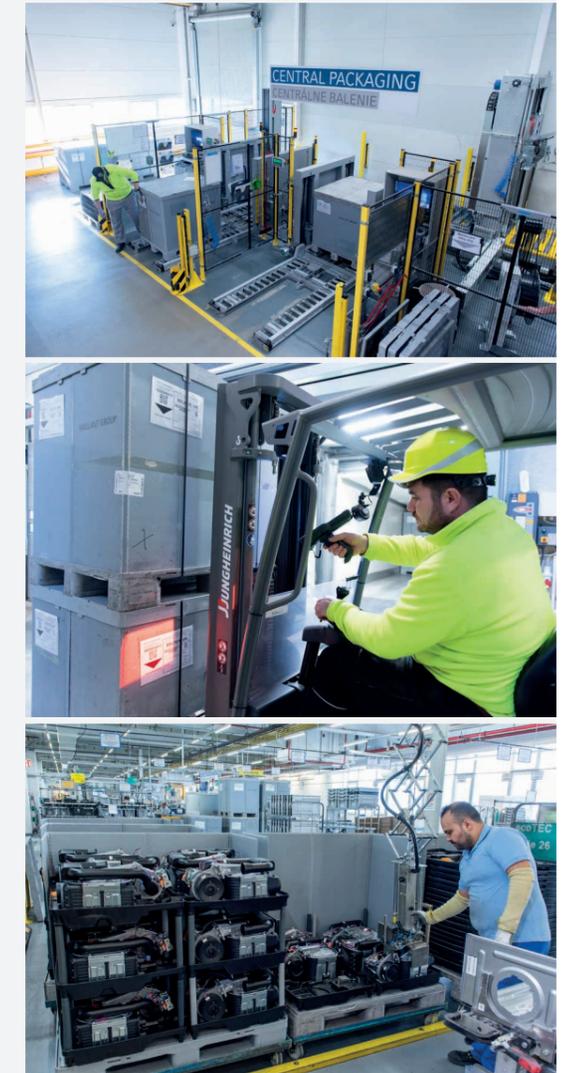
Hyboxes in use at Vaillant

The Vaillant brand stands for smart and sustainable heating and ventilation systems. The company uses customised container solutions from the WALTHER Faltbox Group to transport the various components. These protect the valuable components from damage and are compatible with the various automated conveyor systems used at the different sites.

Vaillant operates more than 30,000 Hyboxes and Mega-Packs. Both systems are foldable, allowing their volume to be reduced by up to 80 per cent during empty return transport. The four-foot Mega-Packs are precisely tailored to the requirements of Vaillant's existing conveyor systems, enabling a payload of up to 750 kilograms in high-bay storage.

Inside the load carriers are compartments or trays that are individually tailored to the products being transported. The internal packaging is configured to maximise the box volume while precisely meeting the specific requirements of each component.

This enables all components to be transported safely using just three different pallet boxes combined with a sophisticated range of interior fittings. An additional advantage is that the outer dimensions of the containers remain unchanged. This standardisation simplifies storage and handling while simultaneously accelerating logistics processes at Vaillant.

Mega-Pack and Hyboxes range

Mega-Packs

MPS 800/700	MPS 1200/900	MPS 1000/1000	MPS 1140/1000
MPS 1500/1000	MPS 1600/1000	MPS 1800/1000	MPS 2250/1200

Hyboxes

Hybox 1200/940	Hybox 1000/940

	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height (mm, nom.)	exterior height when stacked (mm, nom.)	usable interior length (mm, approx.)	usable interior width (mm, approx.)	usable interior height (mm, approx.)	usable volume (litres, approx.)	weight (kg, approx.)	max. payload (stat., kg)	max. stacking load (stat., kg)	exterior height when folded (mm, nom.)	exterior height when folded and stacked (mm, nom.)	volume reduction when stacked (%, approx.)
Mega-Packs														
MPS 800/700	800	600	700	680	750	550	520	214	13.0	1000	500	250	230	66
MPS 1200/900	1200	800	900	885	1155	755	720	628	25.0	1000	500	250	235	73
MPS 1000/1000	1200	1000	1000	985	1155	955	820	904	29.0	1000	500	250	235	76
MPS 1140/1000	1140	1140	1010	995	1065	1065	790	896	21.2	1000	500	250	235	76
MPS 1500/1000	1500	1200	1000	985	1425	1135	820	1326	35.0	1000	500	250	235	76
MPS 1600/1000	1600	1200	1000	985	1535	1140	770	1347	37.0	1000	500	250	235	76
MPS 1800/1000	1820	1200	1000	980	1750	1130	770	1523	43.0	1000	500	250	230	75
MPS 2250/1200	2250	1200	1200	1185	2185	1145	1000	2500	73.0	300	500	250	235	80
Hyboxes														
Hybox 1200/940	1200	800	940	925	1165	765	730	651	30.7	1000	600	260	245	74
Hybox 1000/940	1200	1000	940	930	1165	965	730	821	40.0	1000	600	250	240	74

Technical specifications

1 exterior length (mm, nom.)
2 exterior width (mm, nom.)
3 exterior height (mm, nom.)
4 exterior height when stacked (mm, nom.)
5 usable interior length (mm, approx.)
6 usable interior width (mm, approx.)
7 usable interior height (mm, approx.)
8 exterior height when folded (mm, nom.)
9 exterior height when folded and stacked (mm, nom.)

MPS   Mega-Pack system
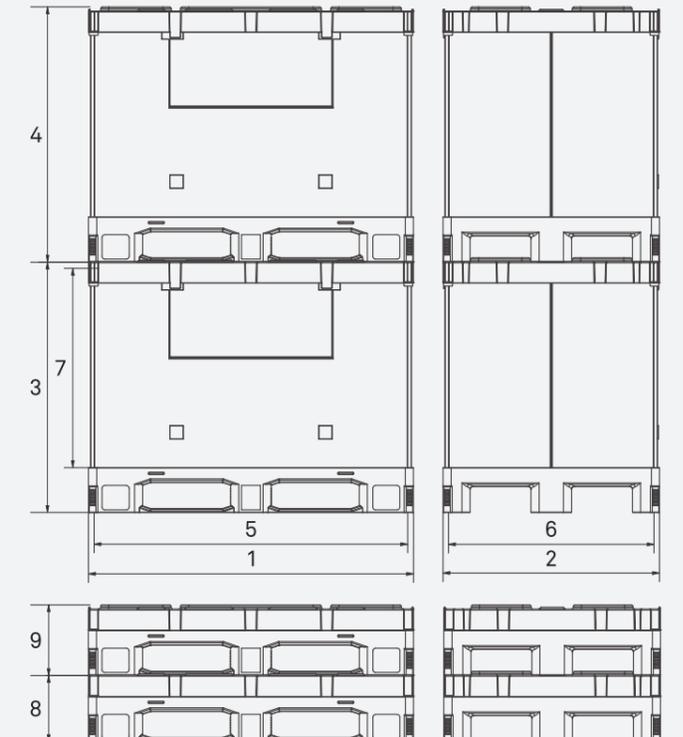
What is so special about our load carriers for modern, automated storage technology?

Digitisation and Industry 4.0 have long been integral to the logistics sector: fully automated warehouses are already firmly established worldwide. In highly automated environments – from robotics applications and stack handling to kilometre-long conveyor systems – load carriers must be 100 per cent reliable.

Load carriers are an integral component of the computer-controlled ecosystem within the warehouse. Upon receipt of the goods, they are transferred onto or into the appropriate load carriers and subsequently placed into storage. Special folding and collapsible boxes as well as trays from the WALTHER Faltbox Group are used for this purpose.

Once the goods have been placed on or in the load carrier, the system can track its location at any time and identify which products it contains. Further information can also be stored and retrieved via the specific barcode. The load carriers are transported by conveyor systems to their assigned temporary storage location.

This location is automatically calculated and allocated by the system depending on the type of goods. A range of factors is taken into account, such as the retrieval frequency of the item.

In addition to fully automated warehouses, where goods are autonomously picked by robots and other handling systems, semi-automated processes have also become established. In so-called picking lines, the goods are automatically transported to the picking station. There, the required items are removed from the container before it is returned by the warehouse system to a newly assigned storage location.

Load carriers used in automated conveyor systems must meet a wide range of requirements, as the seamless execution of complex processes is critical.

Quality

Warehouse automation is fine-tuned based on the load carriers used. This means the containers must always have a consistently high, reproducible quality even after years. In high-bay warehouses, deflection under load is also an important aspect. All our load carriers therefore have a specially designed, reinforced base structure.

Handling

In automated transport systems, containers are usually stacked and erected by machine. Our containers feature corresponding automation handles by which the load carrier can be gripped and held. The high stability and low tare weight ensure safe and reliable handling.

Marking

The identification of the container at any time during the entire process is essential for the automated process. Any errors often lead to a standstill of the entire system. All our barcoded load carriers are therefore already checked during ongoing production.

Properties

▶ material: PP (polypropylene)
▶ colour: grey
▶ high volume reduction for return of empties
▶ easy cleaning thanks to smooth interior surfaces [1]
▶ ergonomic handles [2]
▶ ergonomic locking mechanism [3]
▶ ribbing and special base design for high stability and smooth running on conveyor systems
▶ high stability in stacks when full or empty due to extra high stacking rim
▶ robust hinges for long service life [4]
▶ embossed area for self-adhesive label [5]
▶ holding fixtures for label holders/frames [6]
▶ protected area for labels [7]

Automated storage technology
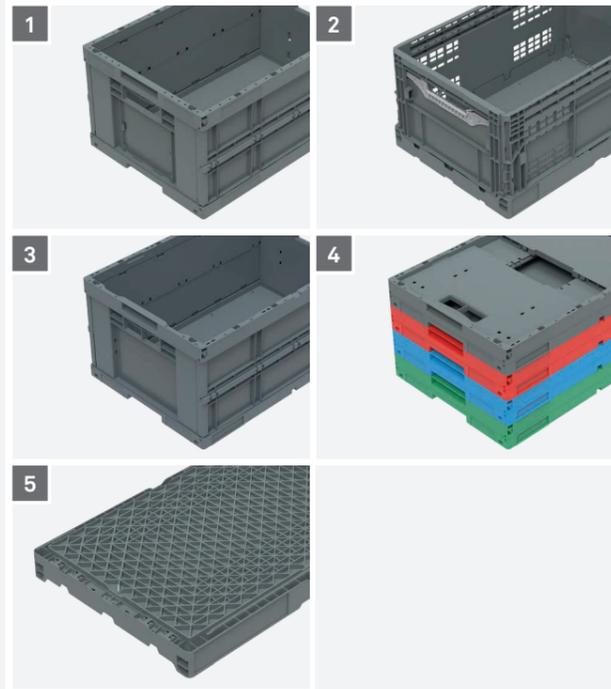
Special requirements

With our special range of folding boxes, collapsible boxes and trays for automated warehouses, we cover a wide spectrum of applications. Whether in various dimensions, with perforated or closed side walls – you will find the right solution with us. A specially reinforced ribbed base with continuous circumferential contact rim ensures smooth running on the conveyor system and particular stability even at high temperatures or loads. In addition, we can use recycled material or adapt the product colour individually to your wishes.

▶ load carriers in custom size, specially adapted to your system **[1]**
▶ perforated side walls to reduce the tare weight of the container **[2]**

Options

▶ GREENLINE material: blend of virgin PP and recycled PP **[3]**
▶ different product colour **[4]**
▶ reinforced ribbed base for particularly high requirements regarding temperature or weight of the goods **[5]**
▶ fillers for trays for slip-resistant stacking of additional non-conveyable containers or cardboard boxes **[6]**

Marking

Identification plays an important role, in particular with regard to automated storage technology. We offer different marking technologies, for example for getting your logo onto the box. Printing, different labels and embossing – we can offer you everything from a single source. We will be happy to advise you individually on the various possibilities.

▶ one-colour printing
  – hot-foil stamping **[1] [2]**
▶ barcode label
  – in-mould label **[3] [4]**
  – self-adhesive label **[5]**
▶ decorative label
  – in-mould label **[6]**
  – self-adhesive label
▶ relief embossing **[7] [8]**

Accessories

To protect your goods during transport and to prevent theft, we offer drop-on lids for our folding and collapsible boxes. These can be strapped to the containers so that unintentional removal of the goods is not possible.

▶ drop-on lid **[9]**
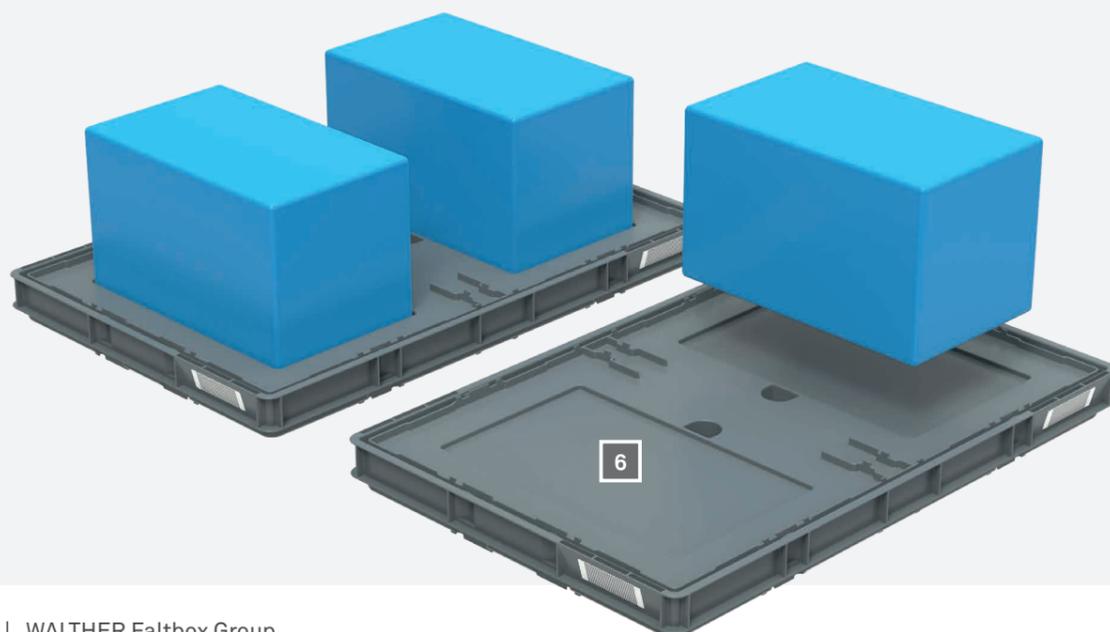
Automated storage technology

Collapsible DPS boxes in use at REWE

The retailer REWE has high standards when it comes to reusable logistics in automated warehouses. In 2014, REWE took its first step towards automation with the national logistics centre RED 63. To achieve this, the retailer required a solution for order picking of small parts and slow-moving items.

A foldable plastic container with a base size of 600 x 400 mm was the right container. Identification was an important issue for REWE: Four barcode in-mould labels and an optional RFID tag are used to track the boxes. The reinforced ribbed base with continuous circumferential contact rim allows trouble-free transport over kilometre-long conveying distances.

In a series of tests, the locking mechanism at the short side walls proved to be easy to handle, secure and ergonomic. In addition, the box can be erected automatically. A key sustainability highlight is that the containers are predominantly manufactured from recycled plastic, making the project one of the first of its kind.

An important factor for REWE: The collapsible box meets the requirements of the branches in terms of simple and ergonomic handling, but also offers the necessary mass throughput through its integration into the automated storage technology and is particularly space-saving during return transport and storage.

In the meantime, the second generation of WALTHER boxes is already in circulation at REWE – we have delivered about 800,000 units so far.

Trays in use at Migros

Migros, Switzerland's largest retailer, places the utmost importance on sustainability. For the shipping of goods from the warehouse to the store, it uses the OPM storage and picking system from Witron. The system ensures fully automated, space-saving and careful placement of the retail units on load carriers.

We have developed trays specifically for this type of system, which are also in use at Migros. In the warehouse, the trays are loaded via computer-controlled conveyor systems, ensuring that goods are optimally positioned according to weight and dimensions. The goods are then lifted off the tray using lifting pins, transferred onto the appropriate load carrier and transported to the individual stores.
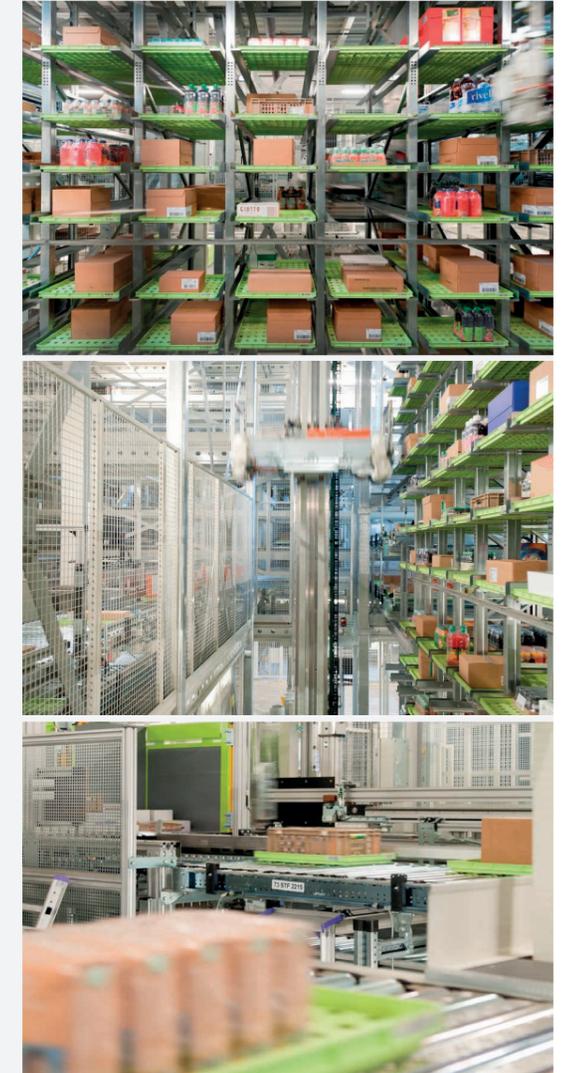
The trays offer even more advantages: They are identified with barcodes on four sides. The material and construction are designed to minimise deflection and to ensure optimum transportability of the tray – and to guarantee that this remains the case even under load.

Space-efficient transport and a long service life further enhance the sustainability of the trays. That is why Migros now uses several hundred thousand trays.
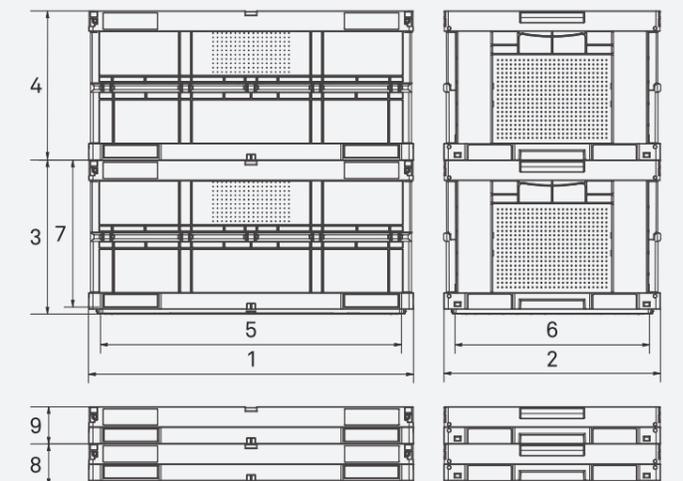
Automated storage technology

Range for automated storage technology

Folding boxes			
5328 DPS	6422 NG ALS	6426 NG ALS	6428 DPS
6428 NG ALS	6430 NG ALS	6432 NG ALS	

Collapsible boxes	
6428 DPS-K	6428 DPS-K L

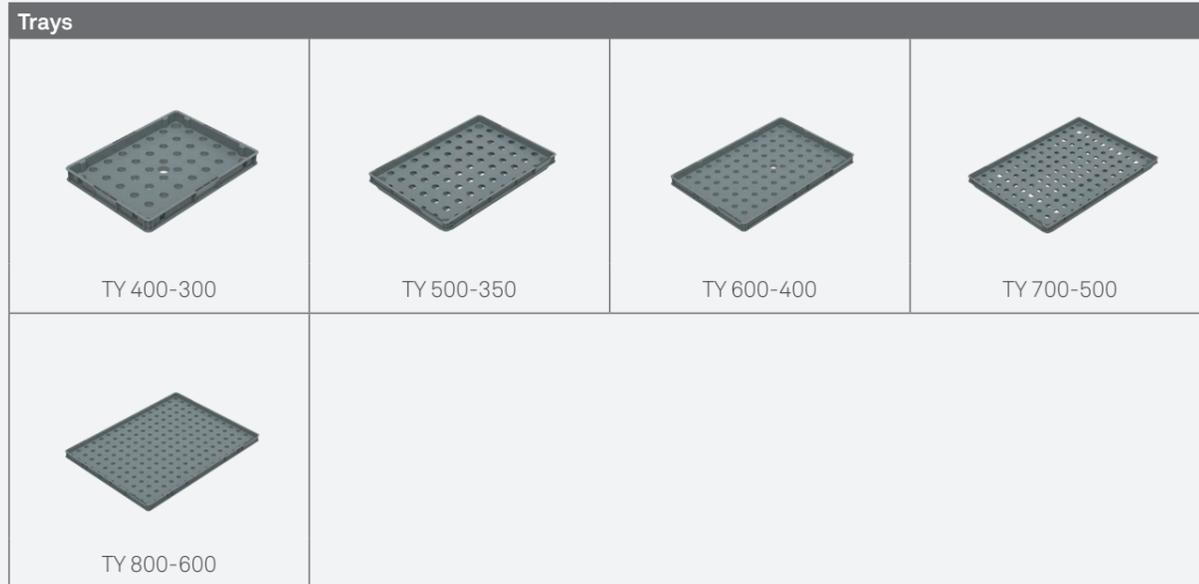|	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height (mm, nom.)	exterior height when stacked (mm, nom.)	usable interior length (mm, approx.)	usable interior width (mm, approx.)	usable interior height when stacked (mm, approx.)	usable volume (litres, approx.)	weight (kg, approx.)	max. payload (stat., kg)	max. stacking load (stat., kg)	exterior height when folded (mm, nom.)	exterior height when folded and stacked (mm, nom.)	volume reduction when stacked (%, approx.)
Folding boxes														
5328 DPS	580	385	280	270	540	352	268	51	2.6	30	250	80	70	74
6422 NG ALS	600	400	220	210	555	355	205	40	2.6	30	250	80	70	67
6426 NG ALS	600	400	260	250	555	355	245	48	2.8	30	250	80	70	72
6428 DPS	600	400	285	275	560	365	275	56	2.9	30	250	80	70	75
6428 NG ALS	600	400	280	270	555	355	265	52	2.9	30	250	80	70	74
6430 NG ALS	600	400	300	290	555	355	285	56	3.0	30	250	80	70	76
6432 NG ALS	600	400	320	310	555	355	305	60	3.2	30	250	80	70	77
Collapsible boxes														
6428 DPS-K	600	400	285	275	554	363	270	54	2.8	30	250	65	55	77
6428 DPS-K L	600	400	285	275	554	363	270	54	2.6	30	250	65	55	77

Technical specifications

1   exterior length (mm, nom.)
2   exterior width (mm, nom.)
3   exterior height (mm, nom.)
4   exterior height when stacked (mm, nom.)
5   usable interior length (mm, approx.)
6   usable interior width (mm, approx.)
7   usable interior height (mm, approx.)
8   exterior height when folded (mm, nom.)
9   exterior height when folded and stacked (mm, nom.)

DPS   dynamic picking system
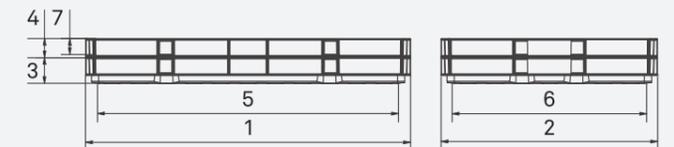K   collapsible box
L   perforated side walls

Trays

Trays				
TY 400-300	TY 500-350	TY 600-400	TY 700-500	
TY 800-600				

Trays	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height (mm, nom.)	exterior height when stacked (mm, nom.)	usable interior length (mm, approx.)	usable interior width (mm, approx.)	usable interior height (mm, approx.)	weight (kg, approx.)	max. payload (stat., kg)	max. stacking load (stat., kg)
TY 400-300	400	300	50	35	378	278	30	0.7	50	75
TY 500-350	500	350	50	30	481	331	24	0.8	50	75
TY 600-400	600	400	50	35	570	370	30	1.4	50	100
TY 700-500	700	500	50	30	681	481	24	1.5	50	120
TY 800-600	800	600	50	35	778	578	25	3.2	50	100

Technical specifications

1 exterior length (mm, nom.)
2 exterior width (mm, nom.)
3 exterior height (mm, nom.)
4 exterior height when stacked (mm, nom.)
5 usable interior length (mm, approx.)
6 usable interior width (mm, approx.)
7 usable interior height (mm, approx.)

Accessories

Drop-on lids

Drop-on lids		
64 DA DPS	64 DA DPS-K	

DA drop-on lid
DPS dynamic picking system
K collapsible box
TY tray

Drop-on lids	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height (mm, nom.)	exterior height when stacked (mm, nom.)	weight (kg, approx.)
64 DA DPS	600	400	25	20	0.8
64 DA DPS-K	600	400	20	15	0.8

What is so special about our collapsible fruit and vegetable boxes?

Our collapsible fruit and vegetable boxes are the flattest on the market – because when folded they are only 27.5 mm high. In addition to their low empty volume and high stability, they feature a patented locking system on the short side walls, enabling particularly ergonomic manual folding and unfolding. The perforated base and side walls provide good air circulation in the boxes. Food-safe materials ensure that the boxes can be used from harvest straight to retail display without additional repackaging.

Sustainable

In addition to their long service life compared to other transport solutions made of different materials, our collapsible fruit and vegetable boxes are fully recyclable. We take the containers back at any time and process them into new products – in a closed cycle of materials, this is even possible for containers with food contact.

Utilisation of space

The containers are precisely adapted to the standard pallet dimensions of 1,200 x 800 mm or 1,200 x 1,000 mm. Their low folded height enables the return of up to 11,088 boxes in just one truck.

Safety

The robust design provides maximum stability and protects sensitive food products during transport. Individual identification ensures comprehensive control and traceability of your goods.

Handling

The easy and quick manual folding and unfolding of the containers using the patented locking system on the front sides offers a high degree of convenience during use. Fully automated handling in washing systems is also possible.

Cleaning

Easy and hygienic cleaning is an essential requirement for containers that come into contact with food. Our collapsible fruit and vegetable boxes are designed to be washed automatically at high temperatures and then dried.
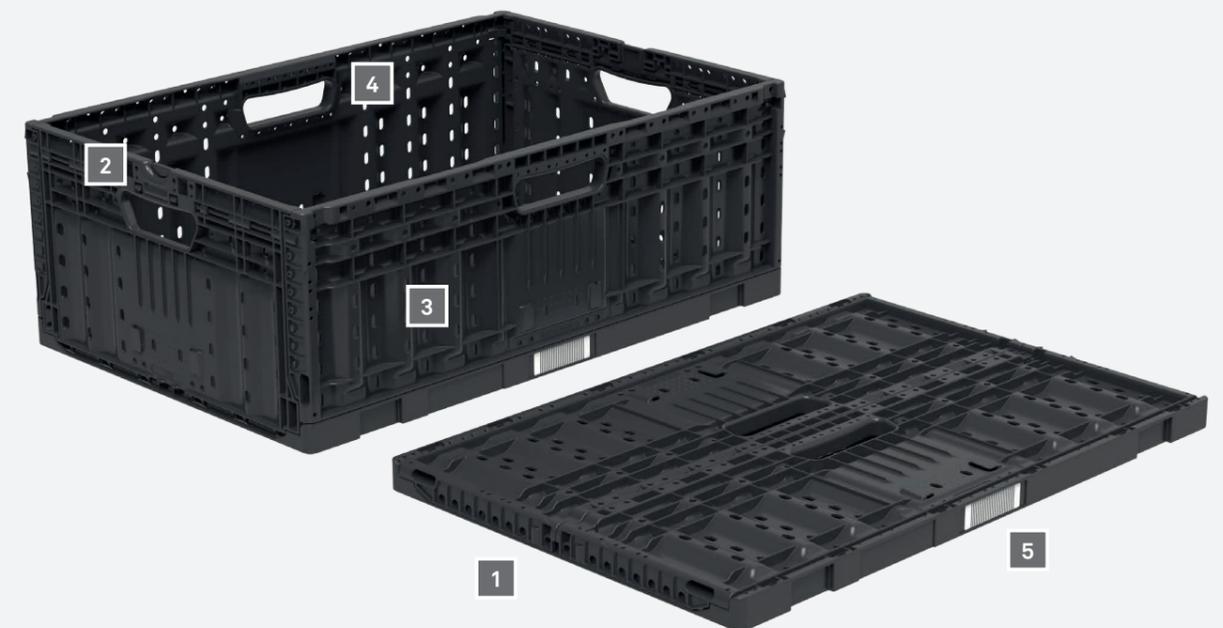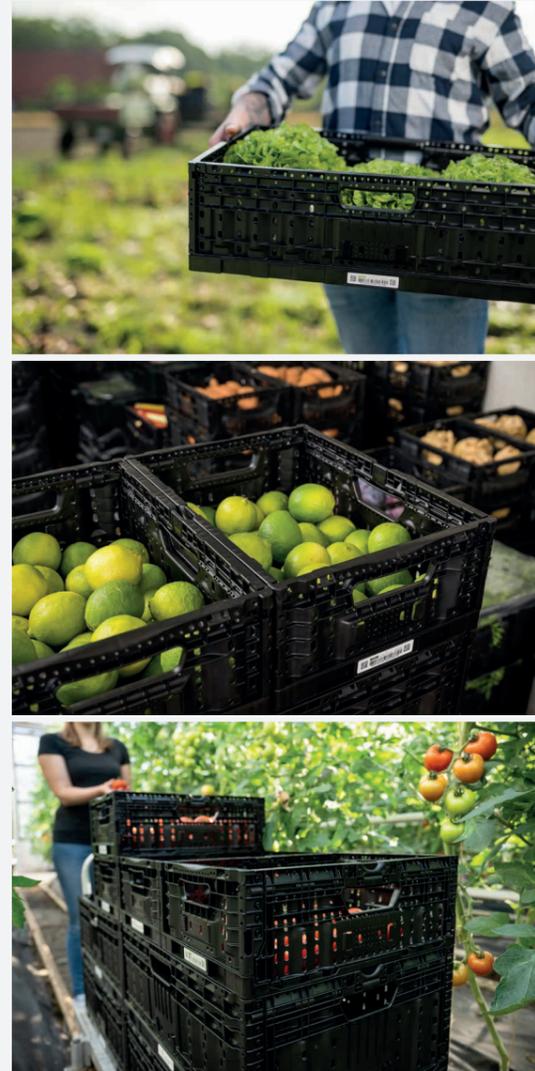
Properties

▶ material: PP (polypropylene)
▶ colour: black
▶ food-safe material
▶ European standard dimensions
▶ high volume reduction for return of empties, when folded only 27.5 mm high [1]
▶ patented locking mechanism on the short side walls for ergonomic folding and unfolding [2]
▶ easy cleaning thanks to smooth interior surfaces
▶ perforated base and perforated side walls for good air circulation in the container [3]
▶ handle openings on four sides for convenient manual carrying [4]
▶ protected areas for labels on the long side [5]

Options

Our collapsible fruit and vegetable boxes can be identified on two sides with an in-mould label. This makes it easy to track the containers at every stage of the process chain. For customisation, e.g. with your logo or a note of ownership, relief embossing is a good option.

We will be happy to advise you individually on the various possibilities.

Collapsible fruit and vegetable boxes

OGK 4315 | OGK 6411 | OGK 6415 | OGK 6418

OGK 6422

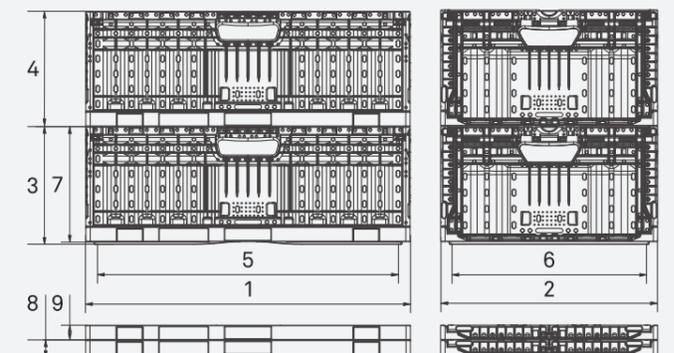| Collapsible fruit and vegetable boxes	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height (mm, nom.)	exterior height when stacked (mm, nom.)	usable interior length (mm, approx.)	usable interior width (mm, approx.)	usable interior height when stacked (mm, approx.)	usable volume (litres, approx.)	weight (kg, approx.)	max. payload (stat., kg)	max. stacking load (stat., kg)	exterior height when collapsed (mm, nom.)	exterior height when collapsed and stacked (mm, nom.)	volume reduction when stacked (%, approx.)
OGK 4315	400	300	152	147	373	273	145	15	0.8	10	150	32.5	27.5	81
OGK 6411	600	400	117	112	573	364	109	23	1.5	18	180	32.5	27.5	75
OGK 6415	600	400	152	147	573	364	144	30	1.7	18	180	32.5	27.5	81
OGK 6418	600	400	185	180	573	364	177	37	1.8	18	180	32.5	27.5	85
OGK 6422	600	400	219	214	573	364	211	44	2.0	18	180	32.5	27.5	87

Technical specifications

1   exterior length (mm, nom.)
2   exterior width (mm, nom.)
3   exterior height (mm, nom.)
4   exterior height when stacked (mm, nom.)
5   usable interior length (mm, approx.)
6   usable interior width (mm, approx.)
7   usable interior height when stacked (mm, approx.)
8   exterior height when collapsed (mm, nom.)
9   exterior height when collapsed and stacked (mm, nom.)

Collapsible fruit and vegetable boxes in use at WBG Pooling

Since the end of 2021, our collapsible fruit and vegetable boxes have been part of the WBG Pooling portfolio, which is available to growers and food manufacturers throughout Europe. The collapsible boxes are used for the transport and storage of unpackaged fruit and vegetables as well as packaged foods such as convenience products.

Perforations in the base and side walls ensure good air circulation, which keeps the food fresh for a long period of time. Thanks to their smooth inner surfaces, the collapsible boxes allow easy and hygienic cleaning; remaining water runs off and moisture is avoided. The innovative "SmartLock" locking system ensures ergonomic and intuitive handling.

Thanks to the ability to reduce the volume of the collapsible boxes to a height of 27.5 mm, WBG Pooling can maximise the efficiency of the return transport of empties. Significantly more load carriers fit into one truck, allowing WBG Pooling to benefit from lower transport costs and reduced CO_2e emissions.

At the end of their service life, we recycle the load carriers, returning them to the closed-loop container cycle. The collapsible containers are equipped with RFID in-mould labels, enabling them to be scanned and tracked. This allows for automated handling by the pooling service provider. Thanks to this closed, smart loop, WBG Pooling has received a Cradle to Cradle® certification for the product series.

WINNER 2019
pro-K award

What is so special about our
Düsseldorf plastic pallet?

Plastic pallets are the modern alternative to wooden pallets. Their robust design makes them sustainable due to their long service life. They are impervious to moisture, easy to clean and hygienic, as neither dirt nor bacteria can penetrate. Moreover, there is no risk of injury from chips, nails or edges.

But with our Düsseldorf plastic pallet (KDP) measuring 800 x 600 mm, i.e. half a Euro pallet, we are setting new standards for transport and intralogistics and have already received the pro-K award.

Intelligent load carrier

Barcode in-mould labels and integrated RFID tags make our KDP an intelligent load carrier for seamless logistics. Goods movements can be tracked in real time. Reliable tracking of the location of the pallet and the goods allows for optimal planning and on-time delivery.

Sustainable

Already, around one third of the material used in production is post-consumer recycled material. The robust design withstands the tough demands of everyday logistics. The runners are subject to the greatest stress, which is why our KDP has a modular design and the runners can be replaced individually. At the end of its service life, the pallet can be fully recycled.

Quality

The design in accordance with the international standard DIN 15159 not only ensures a consistently high quality, but also that our KDP is compatible with all common conveyor systems. This ensures a consistently high ease of transport along all stages of the supply chain.
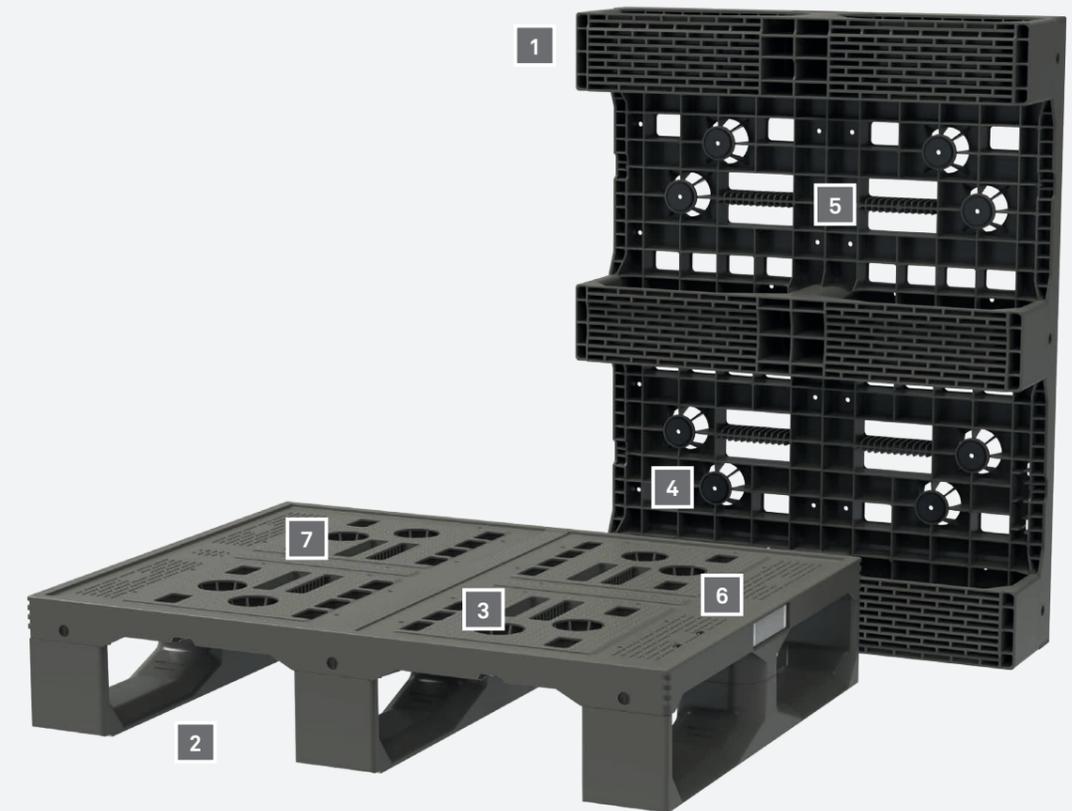
Properties

▶ material: PP (polypropylene)
▶ colour: grey
▶ Düsseldorf size (800 x 600 mm)
▶ low tare weight
▶ transport of static loads of up to 1,000 kg and dynamic loads of up to 500 kg
▶ reinforced runners made from particularly impact-proof material for long durability [1]
▶ simple reparability thanks to exchangeable runners [2]
▶ double-stack transport option
▶ circumferential stacking rim and a textured surface for slip-resistant transport even when stacked [3]
▶ non-slip elements for more safety when handling [4]
▶ carrying handles for ergonomic handling [5]
▶ protected areas for labels on the short side [6]
▶ compartments for RFID tags on the long and short side [7]

Options

Our KDP can be identified on two sides with an in-mould label. In addition, it has two compartments for RFID tags so that the containers can be easily tracked at every stage of the process chain. For customisation, e.g. with your logo or a note of ownership, relief embossing is a good option.

We will be happy to advise you individually on the various possibilities.

Düsseldorf plastic pallet

Düsseldorf plastic pallet

KDP

Düsseldorf plastic pallet	exterior length (mm, nom.)	exterior width (mm, nom.)	exterior height (mm, nom.)	exterior height when stacked (mm, nom.)	entry width, long side (mm, approx.)	entry width, short side (mm, approx.)	entry height when stacked (mm, approx.)	weight (kg, approx.)	max. payload (stat., kg)	max. payload (dyn., kg)
KDP	800	600	160	155	596	560	120	6.5	1000	500

Düsseldorf plastic pallet in use at Tosca

The discounters ALDI Nord, ALDI Süd and HOFER were looking for a more sustainable solution for the Düsseldorf wooden pallet, as it is often damaged after only a few rotations and repair is usually not economical. Specifically, they were looking for an efficient and high-quality solution for distribution to the branches and internal logistics. The solution: the specially developed plastic Düsseldorf plastic pallet (KDP) from the WALTHER Faltbox Group.

Although the plastic pallet has a low tare weight, it can still carry heavy loads. Thanks to its nubbed surface and the special contour of the runners, the KDP is stable and does not slip even when stacked. Carrying handles and anti-slip elements ensure ergonomic and safe handling. In addition, the KDP is compatible with all common conveyor systems.

The option of double-stack transport was an important bonus for the retailers. Several pallets with collapsible fruit and vegetable boxes, for example, can be stacked on top of each other.

Barcode labels and integrated RFID tags open up entirely new possibilities. Unlike wooden pallets, the KDP can be identified and tracked with precise location accuracy. This ensures smooth supply chain processes, minimises pallet loss and optimises inventory management.

In addition to its extensive benefits in intralogistics, handling and sustainability, the KDP is also a visual asset, ensuring an attractive product presentation in stores. Through the pooling service provider Tosca, the KDP from the WALTHER Faltbox Group has been replacing traditional wooden pallets across ALDI Nord, ALDI Süd and HOFER company-wide since autumn 2020.

Technical specifications

1   exterior length (mm, nom.)
2   exterior width (mm, nom.)
3   exterior height (mm, nom.)
4   exterior height when stacked (mm, nom.)
5   entry width, long side (mm, approx.)
6   entry width, short side (mm, approx.)
7   entry height when stacked (mm, approx.)
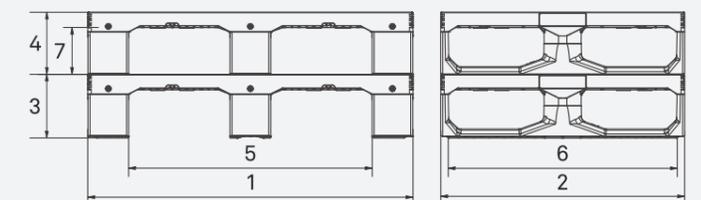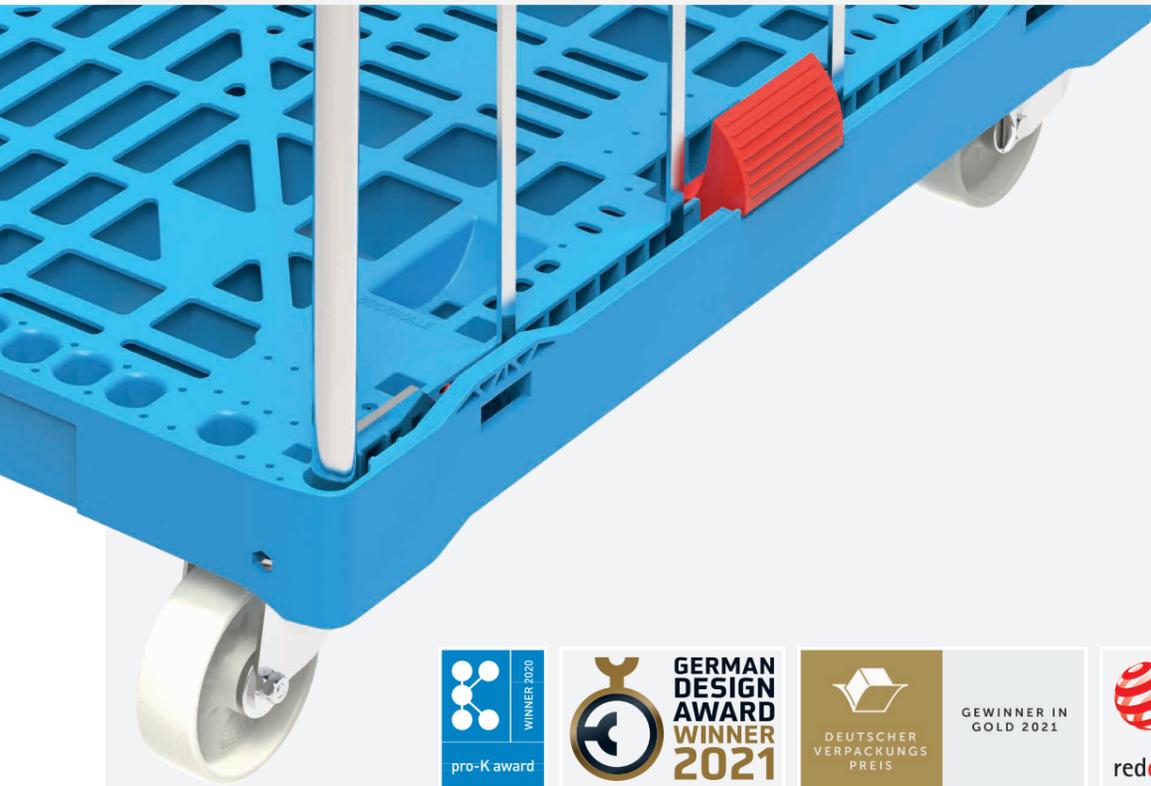
What is so special about
our roll container Comfort?

The key feature is the innovative and patented quick coupling system of the side rails. The side rails are fixed to the base plate at three positions – without screw connections. This makes the system more stable, more durable, safer – and it remains volume-reducible. Ergonomic opening of the connection is possible via the foot pedal and the side rails can then be easily dismantled.

Flexible use

The versatile intermediate shelves allow a flexible, horizontal subdivision of the roll container. The roll container is compatible with all WALTHER folding boxes.

The combined use of different containers or cardboard boxes is no problem. The container can also be converted into a closed collection container, for example for empty cardboard boxes, without additional components.

Volume reduction

Most roll containers cannot be dismantled – but we never lose sight of volume reduction. The integrated wheel recess stacking of the base plates and the possibility of accommodating up to 18 side rails per base plate achieve a volume reduction of up to 80 per cent.
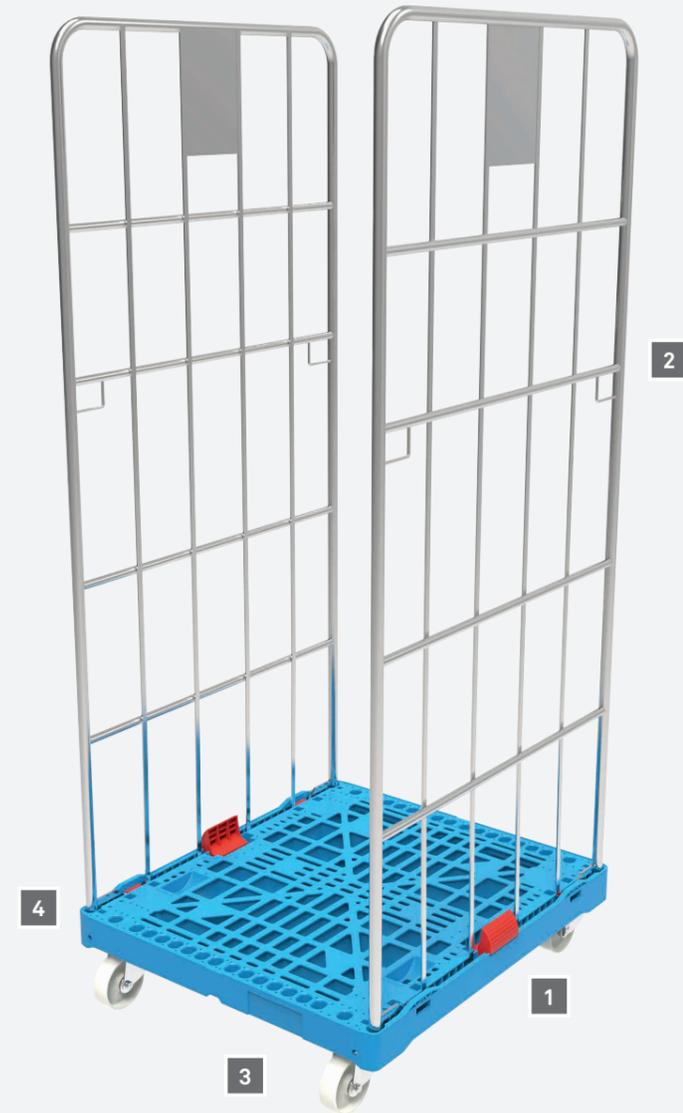
Award-winning innovation

Our innovative reusable transport solution has already won the Red Dot Design Award, the German Design Award, the pro-K award and the German Packaging Award in Gold.

We will be happy to advise you personally on possible applications in your processes.

Properties

▶ patented quick coupling system to connect base plate and side rails [1]
▶ hooks for attaching tension belts [2]
▶ protected areas for self-adhesive labels [3]
▶ compatible with all WALTHER folding boxes 800 x 600 mm, 600 x 400 mm and 400 x 300 mm
▶ tight and fast packing for return transport
▶ safe storage of the side rails during return transport due to defined parking positions [4]

Roll container Comfort
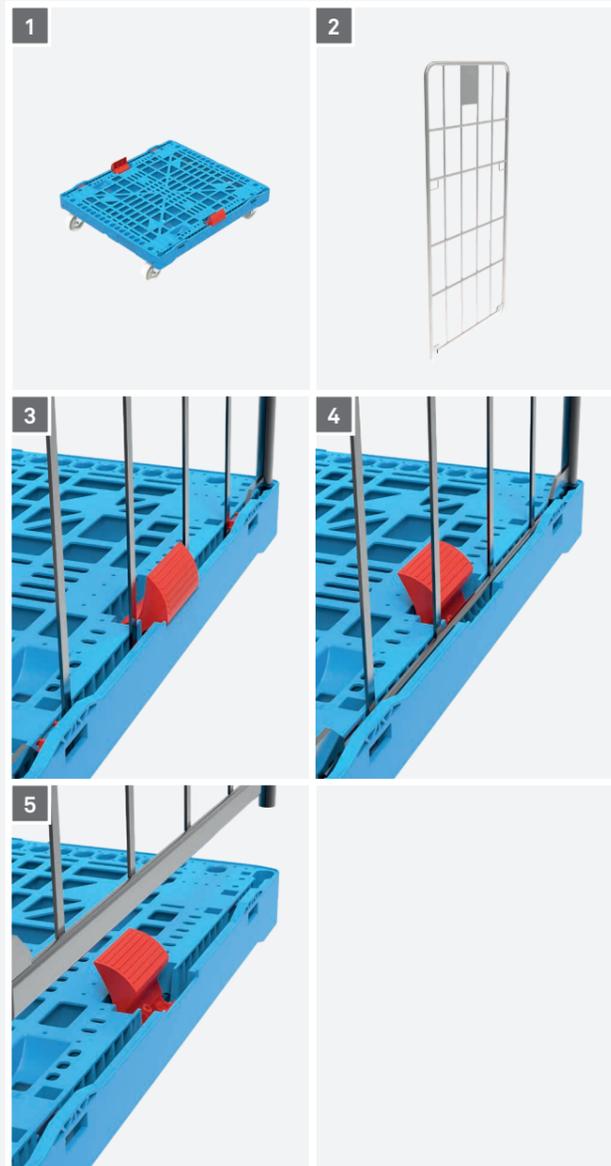
Properties in detail

The roll container Comfort consists of a base plate, two side rails and, depending on the transport task, up to four intermediate shelves. To protect sensitive goods even better, the intermediate shelves can be inserted into the side rails at four positions so that the load is optimally distributed. Thanks to the clip connection, the intermediate shelves can also be attached vertically to the side rails and turn the roll container into a collection container.

▶ base plate [1]
  – material: PP (polypropylene)
  – colour: blue (similar to RAL 5015)
  – reinforced with two steel struts
  – integrated quick coupling system to connect base plate and side rails
  – wheel recesses for stacking for return of empties
  – parking positions for return of the side rails
  – two fixed castors and two swivel castors
    – wheel body made of PA (polyamide), Ø 108 mm, reinforced design

▶ side rail [2]
  – material: electro-galvanised steel
  – four crossbars to insert the intermediate shelves
  – hooks for attaching tension belts

▶ comfort system [3] [4] [5]
  – material
    – plastic parts: PA6-GF
    – hexagonal shaft: galvanised steel
  – colour
    – plastic parts: red
  – patented quick coupling system to connect base plate and side rails
  – no screw connection
  – ergonomic opening e.g. using your foot
  – simple removal of the side rail
  – automatic closing when inserting the side rail into its support and secure fixation of the side rails
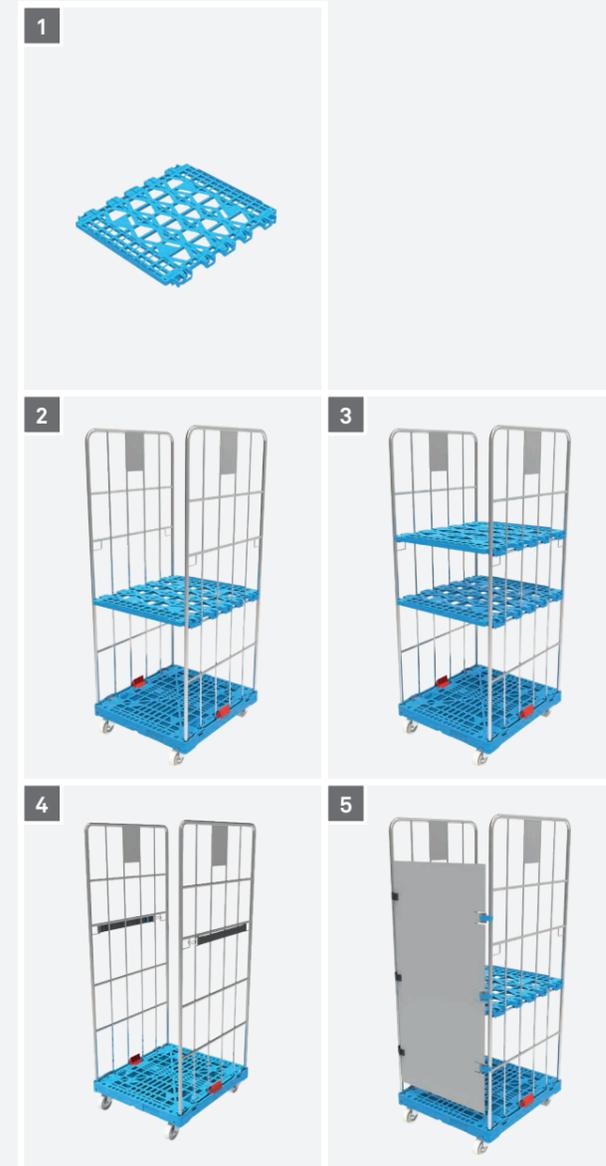
Options

▶ different product colours
▶ different castors available (low-noise, diameter, brake etc.)
▶ with 1 or 2 intermediate shelves [1] [2] [3]
  – material: PP (polypropylene)
  – colour: blue (similar to RAL 5015)
  – reinforced with four steel support bars
  – adjustable subdivision of the roll container
  – conversion to collection container possible [6]

▶ Identification
  – self-adhesive label (with or without RFID)

Accessories

▶ tension strap [4] to secure the load
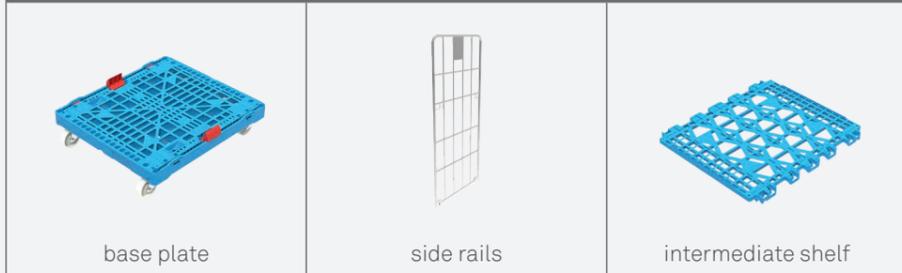▶ RC Secure [5] for full-surface securing of loads

Roll container Comfort

Technical specifications

Return of empties

Designs		

| standard | with 1 intermediate shelf | with 2 intermediate shelves |

Individual parts		

| base plate | side rails | intermediate shelf |

Return of mixed empties		

| standard | with 1 intermediate shelf | with 2 intermediate shelves |

Single-variety return of empties		

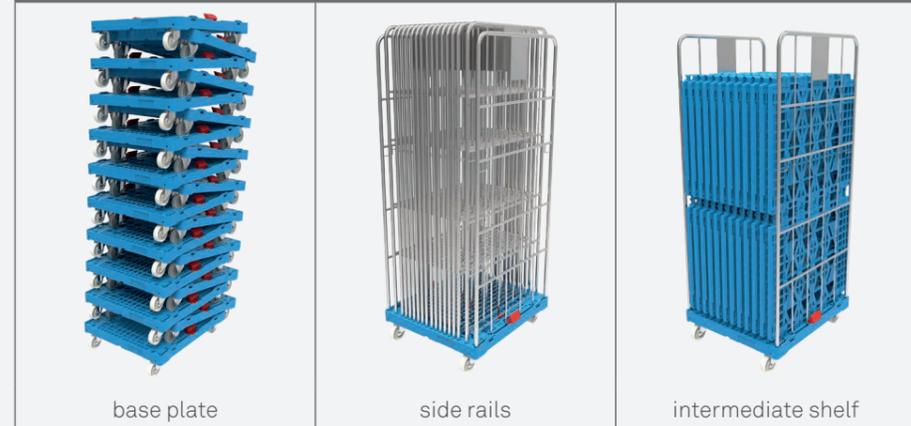| base plate | side rails | intermediate shelf |

	exterior length (mm, approx.)	exterior width (mm, approx.)	exterior height (mm, approx.)	usable interior length (mm, approx.)	usable interior width (mm, approx.)	usable interior height (mm, approx.)	entry height (mm, approx.)	weight (kg, approx.)	max. payload (dyn., kg)
Designs									
standard	814	722	1842	814	663	1653	127	29.1	-
with 1 intermediate shelf	814	722	1842	814	663	1653	127	33.1	-
with 2 intermediate shelves	814	722	1842	814	663	1653	127	37.1	-
Individual parts									
base plate	814	722	232	-	-	-	127	12.1	500
side rails	778	22	1725	-	-	-	-	8.8	-
intermediate shelf	809	719	52	-	-	-	-	4.0	150

	base plate	side rails	intermediate shelf
Return of mixed empties			
standard	5	10	-
with 1 intermediate shelf	4	8	4
with 2 intermediate shelves	3	6	6
Single-variety return of empties			
base plate	19	-	-
side rails	1	16	-
intermediate shelf	1	2	24

Still not found the right product?

## Together we will develop **your reusable load carrier**

You have special requirements that our reusable transport solutions do not yet meet? The WALTHER Faltbox Group is your specialist for customised plastic load carriers. We stand for plastics expertise and can draw on over 45 years of experience in the design, toolmaking and production of reusable load carriers.

What can you expect?

A team of experts, innovative ideas, high-quality work and efficient communication channels. We look forward to working closely with you to develop the ideal load carrier for your requirements.

The starting point for the development of a new container is a detailed analysis of your individual process requirements and the products to be transported. Only by fully understanding these requirements can we develop an optimal solution for you. These initial, intensive briefings are followed by the design phase, during which we create CAD-based sketches and 3D visualisations that serve as a basis for discussion. We always present several alternative solution approaches.
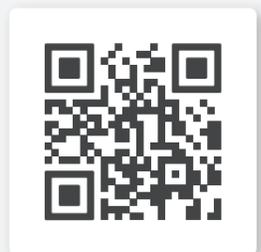
Prototyping then forms the core of customised container development. Prototypes and testing under real-life conditions provide security and confidence on the path to series production.
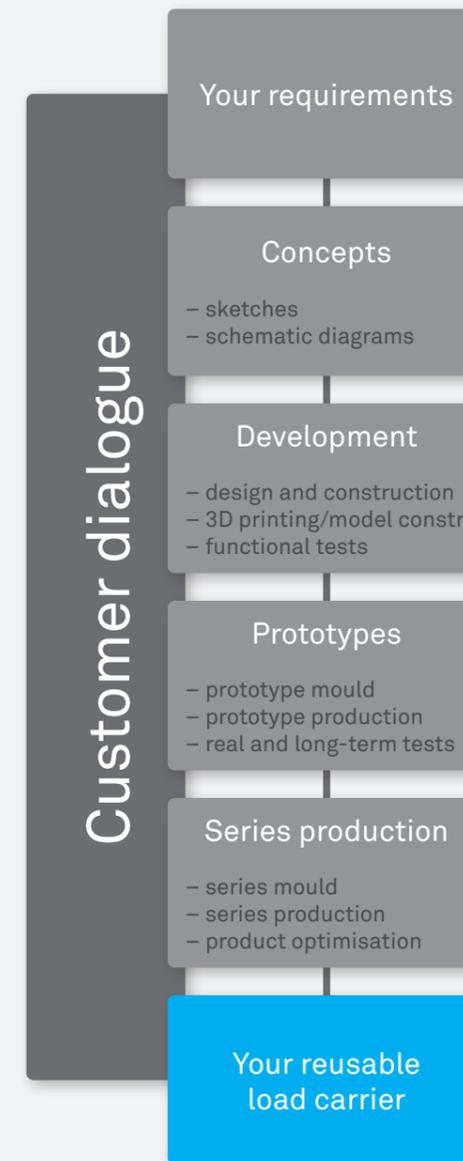
After the prototype has been approved, the series production mould is manufactured. It is designed to withstand high continuous loads in a high-speed injection moulding process and is capable of delivering production runs in the millions. All of this takes place in close coordination and ongoing dialogue with you. Once production volumes and handover processes have been clarified, nothing stands in the way of your customised reusable transport solution.

What can we do to help you?

Get in touch! Visit us online at faltbox.com or simply scan the QR code.

Customer dialogue

Your requirements

Concepts
– sketches
– schematic diagrams

Development
– design and construction
– 3D printing/model constr.
– functional tests

Prototypes
– prototype mould
– prototype production
– real and long-term tests

Series production
– series mould
– series production
– product optimisation

Your reusable load carrier

WALTHER® FALTBOX