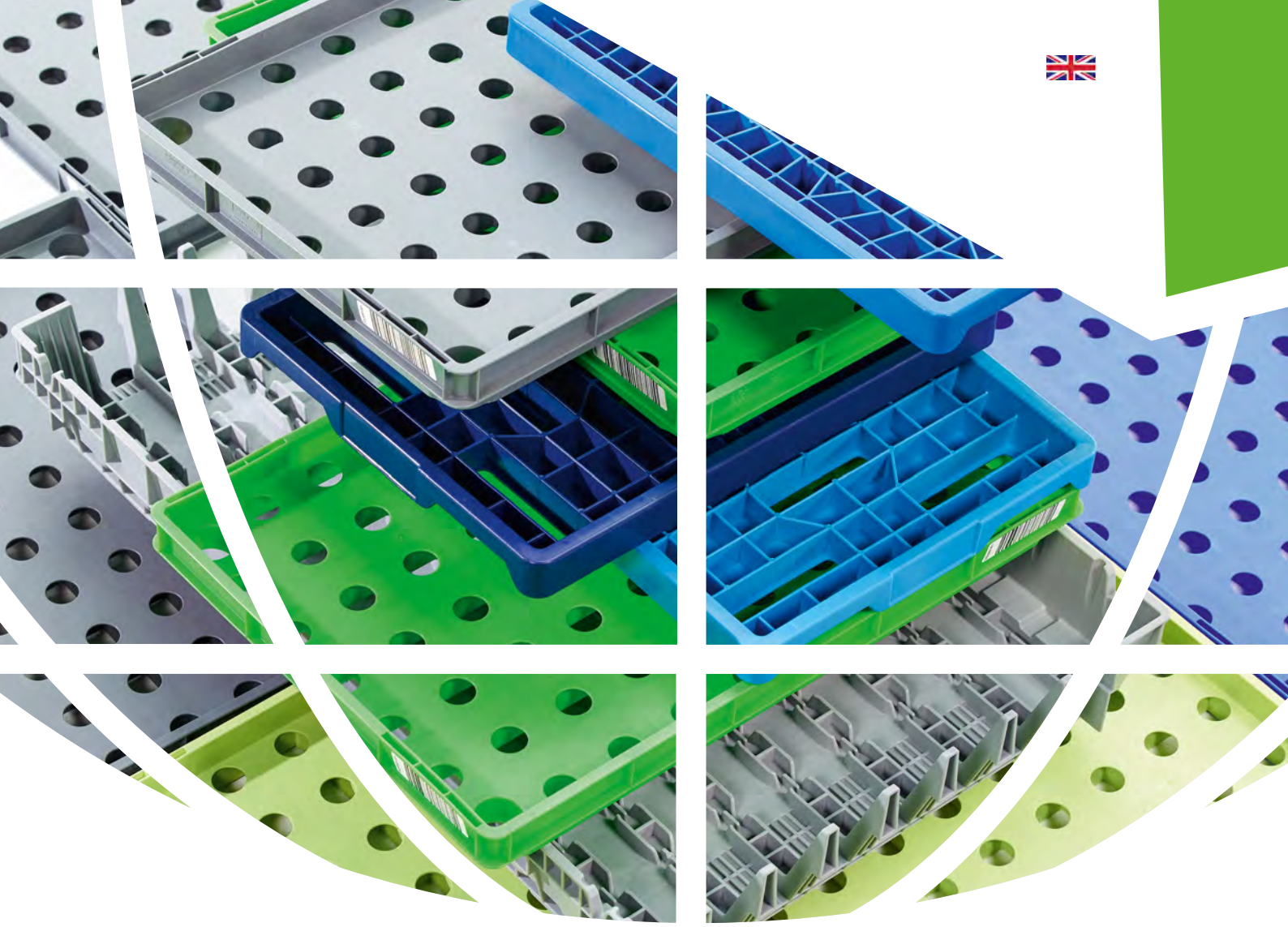


EURO-NORM Project Solutions

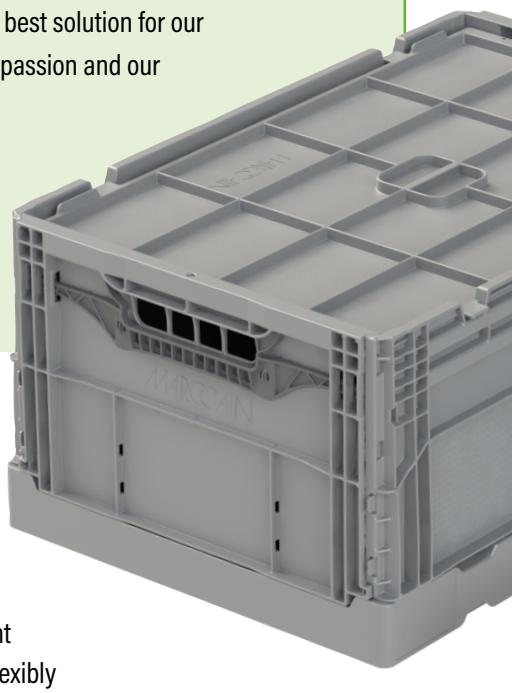
bekuplast

www.bekuplast.com

Visions Become Innovations!

The core competencies of bekuplast include the development of individual project solutions, which are designed by our development department and implemented with advanced R & D tools.

Always developing the best solution for our customers: That is our passion and our motivation!



Innovation is Our Strength!

The idea is at the beginning of each product development. Together with our customers, we develop the requirements profile of the reusable transport packaging via a process of consultation and evaluation. All design solutions are implemented in our in-house development department. Through this, the communication paths are direct and we can react quickly and flexibly to customer needs.

The desired requirements are summarised in a specification sheet. On the basis of this specification sheet, product designers start with the development and create technical drawings. Using detailed 3D representations, the customer receives an accurate impression of the product.

Development

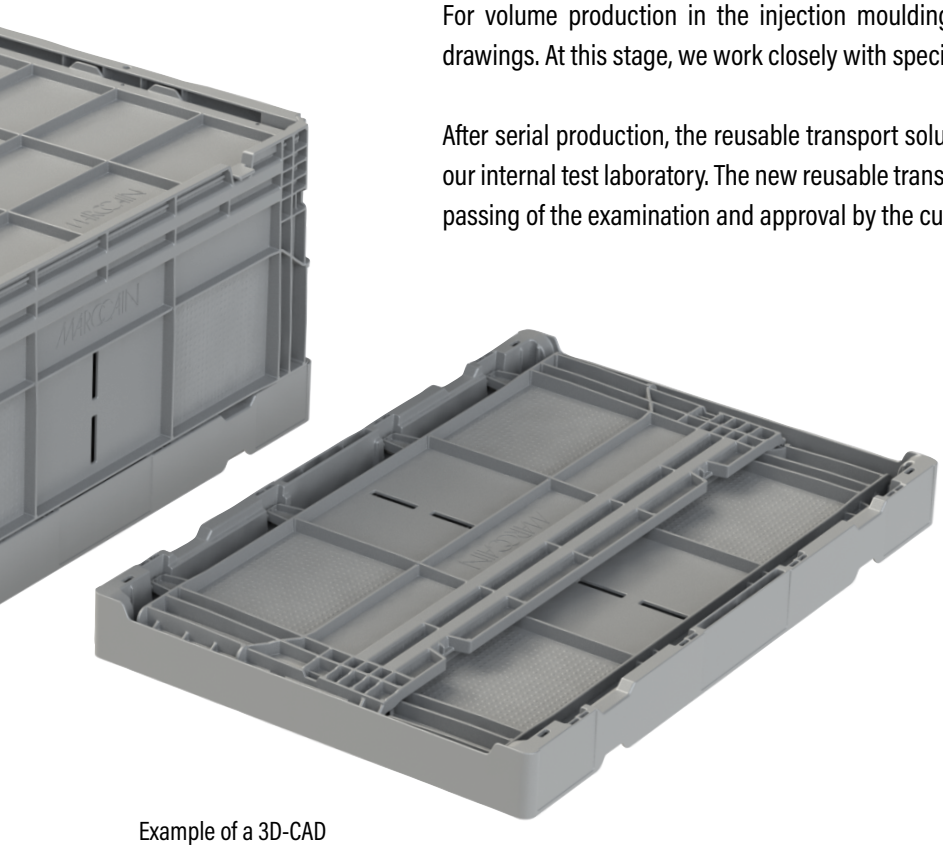
+ development of functional and individual reusable solutions
+ the use of modern R&D tools (e-drawings, 3D-CAD, rapid prototyping, finite element simulation (FEM), simulated fill studies
+ own test laboratories (fall test, wash test, pressure test, stress tests etc.)

Product Design with CAD

If desired by the customer, a model can be created in a short time by means of rapid prototyping. In this method, the model is created out of plastic in a 3D printer, layer by layer. Before the start of serial production, it is also possible to produce more models with a purpose-built test tool in order to test them in actual use.

For volume production in the injection moulding process, a tool is built on the basis of technical drawings. At this stage, we work closely with specialised tooling companies.

After serial production, the reusable transport solutions are subjected to a careful quality inspection in our internal test laboratory. The new reusable transport packaging is only delivered following successful passing of the examination and approval by the customer.

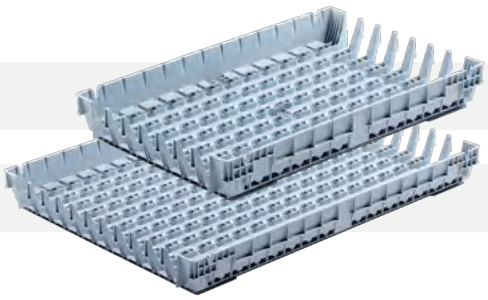


Example of a 3D-CAD Representation

Rapid Prototyping Model

Injection Moulding Tool

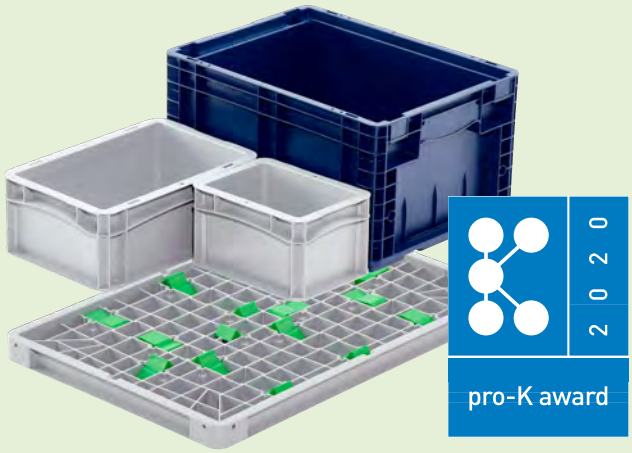
Quality Check in the Test Laboratory

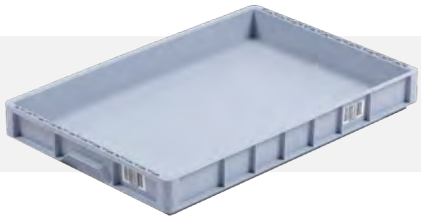
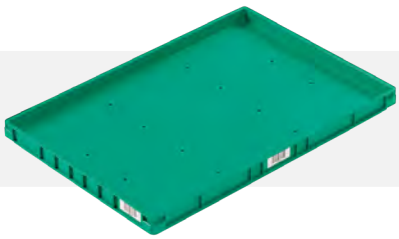
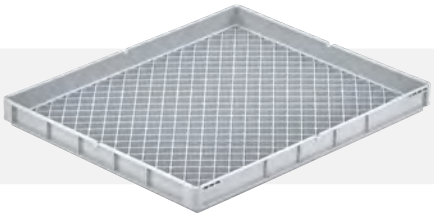
	Outer Dimensions (in mm) / Inner Dimensions (in mm)	Weight	Product Description	Article No.
	500 x 350 x 48 / 480 x 330 x 24	870 g	Tray for transporting and storing merchandise. Depending on the size of the goods, trays are used with two different basic sizes.	9651
	700 x 500 x 48 / 680 x 480 x 24	1,700 g		9675
	430 x 350 x 54 / 410 x 330	1,000 g	A tray for loading and unloading of goods in a flow system. The tray does not have to be stopped.	9657
	730 x 430 x 54 / 700 x 410	2,000 g		9658
	676 x 440 x 93 / 620 x 410 x 73	2,500 g	Trays for logistics systems in a high performance area. The fully automated loading and unloading of goods takes place during the movement.	9665
	876 x 640 x 93 / 820 x 610 x 73	4,700 g		9666
	600 x 400 x 43 / 567 x 368 x 23	1,450 g	Trays for transporting light goods, developed for shuttle systems in the high performance area	9667
	625 x 425 x 58 / 610 x 410 x 23	1,480 g		9668

For smooth and efficient warehouse logistics, all components have to be perfectly coordinated with each other. bekuplast developed trays (articles 9667 and 9668) and shuttle containers for the shuttle system of a well-known intralogistics provider. The containers are available with a ribbed base or a sandwich base, and can be flexibly divided with partitions. For identification, both the container and the trays were equipped with a barcode and/or optionally with an RFID label. The shuttle containers are available in the heights 120, 280 and 420 mm.

	Outer Dimensions (in mm) / Inner Dimensions (in mm)	Weight	Product Description	Article No.
	400 x 300 x 40 / 370 x 270 x 15	710 g	Tray for holding SLC containers with the sizes 300 x 200 and 400 x 300 mm	9655
	628 x 428 x 78,5 / 605 x 405 x 60	2,600 g	A tray with six openings for a lifting device, e.g. for handling boxes or containers	9659
	600 x 400 x 45 / 567 x 367 x 10	2.150 g	Universal tray for automated small parts warehouses for holding containers of various sizes. Containers with base dimensions of 200 x 150 mm, 300 x 200 mm, 400 x 300 mm and 600 x 400 mm can be freely positioned.	TR640E/0310

This tray offers maximum flexibility due to its unique mechanics. Containers with base dimensions of 200 x 150 mm, 300 x 200 mm, 400 x 300 mm and 600 x 400 mm can be freely positioned – even in the middle – and combined on the tray. Secure fixing of the various containers on the tray is ensured through movable stop elements in the form of rocker switches. The tray with automatic small parts storage capability has a smooth bottom which can withstand loads of up to 50 kg. The tray is available in two different versions for standard Euro containers and KLTs.



	Outer Dimensions (in mm) Inner Dimensions (in mm)	Weight	Product Description	Article No.
	638 x 432 x 78.5 605 x 405 x 60	1,650 g	Tray for handling cardboard boxes. Ideal conveying conditions are achieved by equipping the trays with a miniload base.	9656
	650 x 440 x 50 634 x 424 x 30	1,660 g	Tray with a reinforced miniload base for internal transport and for storing cardboard	9661
	655 x 550 x 60 633 x 533 x 42	1,700 g	Tray for handling cardboard boxes. Thanks to a special centering device, the trays are particularly easy to stack.	9662
	705 x 503 x 125 662 x 462 x 122	3,350 g	Tray with lifting plate for fast and quiet transport on conveyor lines	9669

	Outer Dimensions (in mm) Inner Dimensions (in mm)	Weight	Product Description	Article No.
	600 x 300 x 400 566 x 266 x 386	2,610 g	Custom sized container for storing and picking e-commerce products	**4063/455700**
	630 x 430 x 125 610 x 400 x 105	2,220 g	Container for automated small parts warehouses with a miniload base and various options for dividing up the compartment	**1130/322900**
	638 x 430 x 400 598 x 398 x 383	3,220 g	Container for automated small parts warehouses with a miniload base and slots in the side walls for an optional division of the compartments	**4000/425100**
	650 x 450 x 148 622 x 422 x 145	1,660 g	Container for the internal storage of light commercial goods and handling them in the picking area	**1485/000300**

	Outer Dimensions (in mm) / Inner Dimensions (in mm)	Weight	Product Description	Article No.
	650 x 450 x 266 / 622 x 422 x 250	2,800 g	Container for the internal storage of light commercial goods and handling them in the picking area	2660/004000
	650 x 450 x 335 / 619 x 419 x 315	3,340 g	Oversized container with a sandwich base, optional subdivision is possible using dividers	3310/394400
	650 x 450 x 335 / 619 x 419 x 315	3,550 g	Oversized container with a sandwich bottom, ergonomic handles and partitions	3312/394400
	650 x 450 x 400 / 617 x 416 x 379	3,580 g	Oversized container with a sandwich base for storing and picking e-commerce products	INGE40-3910

	Outer Dimensions (in mm) Inner Dimensions (in mm)	Weight	Product Description	Article No.
	1,123 x 455 x 272 1,090 x 420 x 268	4,120 g	Oversized conical container for the transport of flowers	2780.000300
	1,200 x 400 x 270 1,140 x 357 x 252	5,400 g	Oversized container with a sandwich bottom and slots in the side walls for an optional division of the compartments	2795/003900
	Containers in costum sizes can be produced using a cut and weld method. For this, two containers are combinded into a new container through mirror welding.			

	Outer Dimensions (in mm) Inner Dimensions (in mm)	Weight	Product Description	Article No.
	600 x 400 x 140 581 x 377 x 133	1,660 g	Workpiece carrier for pet food packaging with fixed injected partitions. The container is also suitable for a fully automatic storage.	1280.313114
	600 x 400 x 175 581 x 377 x 165	1,880 g	Workpiece carrier for pet food packaging with fixed injected partitions. The container is also suitable for a fully automatic storage.	1780.363814
	400 x 300 x 150 394 x 279 x 89 381 x 278 x 59	1,220 g	Container for holding transformers. The stackable container can be used on both sides for differently-sized products.	9654
	600 x 500 x 97 535 x 435 x 92	2,230 g	Tray from ABS material with cavities for holding battery sleeves in place. A tray can be filled with 460 battery sleeves fully automatically.	9670

Slots in the side walls of the container enable the insertion of partition plates. In turn, this enables the container to be divided up e.g. from a 1/2 partition up to a 1/16 partition.

Separation dividers are produced using injection moulding technology. This is a variant which, for dividing the container into corresponding compartments, is specifically tailored to the project.

The container is subdivided through the insertion of a hollow partition. The milling of slots in the side walls is not required. Therefore, this solution is well suited to retrofitting.

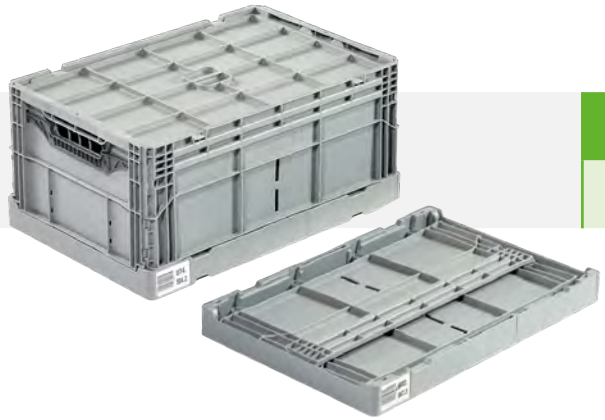
The possibility exists for subdivision on a project-related basis, e.g. for holding CD and DVD cases

	Outer Dimensions (in mm) / Inner Dimensions (in mm)	Weight	Product Description	Article No.
	600 x 400 x 285 / 580 x 380 x 268	2,240 g	Nesting containers for the automatic small parts warehouse of an online marketing company. If necessary, the container can be divided up with partition plates.	2467/000304
	600 x 400 x 300 / 454 x 339 x 297	2,030 g	Nesting containers for the automatic small parts warehouse of an online marketing company, which are used for the storage and picking of goods.	3287/000300
	600 x 400 x 420 / 558 x 374 x 416	2,850 g	Nesting containers for storing and picking e-commerce products	4288/000304
	650 x 450 x 300 / 600 x 400 x 283	3,160 g	Nesting containers for storing and picking e-commerce products	3087/005915

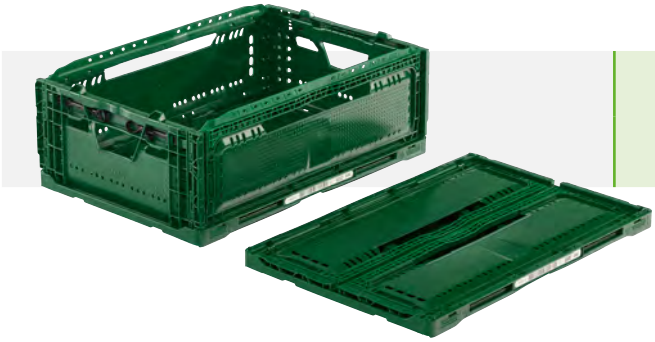
*Inner dimensions at base, usable height when unstacked

	Outer Dimensions (in mm) Inner Dimensions (in mm)	Weight	Product Description	Article No.
	600 x 370 x 360 498 x 310 x 358	2,050 g	Stack and nest container for the online food trade with special openings for three carrier bags	**3680.000314**
	600 x 400 x 360 498 x 338 x 358	2,220 g	Stack and nest container for the online food trade with special openings for two or three carrier bags	**3686.000314**
	600 x 400 x 360 498 x 338 x 358	2,180 g	Stack and nest container for the online food trade with special openings for two carrier bags	**3685.000304**

*Inner dimensions at base, usable height when unstacked

	Outer Dimensions (in mm) / Inner Dimensions (in mm)	Weight	Product Description	Article No.
	600 x 400 x 285 / 555 x 355 x 273	2,980 g	Collapsible container with a sandwich base and a fitting lid for internal and external logistics	2700/003914
	600 x 400 x 285 / 555 x 355 x 273	2,900 g	Collapsible container with a miniload base for internal and external logistics involving merchandise	2700/002514
	600 x 400 x 400 / 568 x 365 x 387	3.310 g	Collapsible container with a miniload base for internal and external logistics. Also available with lid.	4010/005500

Series of collapsible containers for a maximum volume reduction,
developed especially for the requirements of fresh logistics.
The containers are available in different sizes.



A collapsible container for bananas designed to prevent
friction between the bottom of the container and the
bananas when stacking. The banana box was awarded
with the «Pro K award 2018» for innovation.

2018

Volume reducing container for logistics involving fresh produce.
The foldable container has a compartment for plugged-in RFID cards.

Collapsible containers series for fresh food logistics with containers in the dimensions
400 x 300 x 160 mm, 600 x 400 x 123 mm, 600 x 400 x 175 mm und 600 x 400 x 228 mm.
The containers are manufactured using water injection technology. This gives high
stability even without reinforcing ribs.

	Outer Dimensions (in mm) / Inner Dimensions (in mm)	Weight	Product Description	Article No.
	400 x 300 x 355 / 365 x 265 x 340	1,730 g	Lid box (featuring a security lock)	3510/000300
	500 x 330 x 210 / 464 x 299 x 197	1,800 g	Container for automated small parts warehouses with a miniload base, a hand grip and a transparent lockable flap for the removal of goods	2144/455300
	600 x 330 x 210 / 539 x 284 x 198	1,900 g	Container for use in an automatic small parts warehouse with a miniload base, for the removal of goods equipped with a sliding flap	2010/002714
	600 x 400 x 125 / 558 x 361 x 107	1,310 g	Custom containers with an upward-opening front flap for automatic removal of goods	1330.374514

	Outer Dimensions (in mm) Inner Dimensions (in mm)	Weight	Product Description	Article No.
	600 x 400 x 185 558 x 361 x 167	1,510 g	Custom containers with an upward-opening front flap for automatic removal of goods	1930.374514
	750 x 505 x 165 720/680 x 465 x 75/155	2,700 g	Custom sized container, also available with a total height of 170 mm	1590/010400
	762 x 458 x 90 730 x 426 x 77	1,740 g	Custom sized container	0760.050001
	797 x 598 x 219 767 x 568 x 194	5,300 g	Oversized container for breeding of mealworms	IN8622/2510

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