

CASES AND (PALLET)BOXES FOR MILITARY USE



Army



Navy



Airforce

WE DESIGN AND FABRICATE CUSTOMIZED TO YOUR NEEDS

PROTECHNIC
AN ENGELS GROUP COMPANY

NORMBOX CASES

MILITARY VERSION

We started supplying our plastic normboxes™ to the armed forces of the Netherlands (RNA) in 1983. Equipped with straps and drip water tight lids, they serve as multi use packaging of spare parts. A replacement is shipped in the box, and the broken part returned in it. We still supply lots of these, they are the standard since 40 years...



Straps and foam instead of shock absorbing filling material.



Extra option: lid with neoprene joint, splash proof (IP 53).



Extra option: stainless steel closure, can be provided with a padlock.

One of the most vital military operations is logistics. History has shown numerous instances where inadequate logistics compelled an army to retreat. Almost everything an army requires is transported to the frontline. In this context, robust packaging is essential. For non-corrosive goods or spare parts in plastic bags, our Normboxes™ are perfectly affordable solutions.



Military Normboxes have besides straps and foam, standard drip-proof lids (IP 51).



Strong, drop resistant (according to UN standard 4H2 level x) boxes, sizes in between 5 and 90 litres, mounted with straps for fixation of spare parts, electronics and such.

Art.nr.	external size	internal size	NSN
3-206 KL	300x200x133 mm	258x158x92 mm	8115-17-100-3287
3-210 KL	300x200x233 mm	258x158x192 mm	8115-17-100-3289
3-4313 KL	400x300x160 mm	355x355x110 mm	8115-17-100-3292
3-207 KL	400x300x185 mm	355x255x140 mm	8115-17-100-3288
3-204 KL	400x300x235 mm	355x255x190 mm	8115-17-100-3285
3-212 kl	400x300x285 mm	355x255x240 mm	8115-17-100-3291
3-205 KL	400x300x340 mm	355x255x295 mm	8115-17-100-3286
3-6413 KL	600x400x160 mm	555x355x115 mm	8115-17-100-3293
3-201 KL	600x400x235 mm	555x355x190 mm	8115-17-100-3284

For other sizes, or versions without straps, please contact us (many NSN's available)

NORMBOX CASES

MEDICAL PACKAGING

Field hospitals and medical support also require a significant amount of packaging. During peacetime, we build up our stock. When needed, bandages, medicine, and anaesthetics must arrive at the scene in large quantities, in good condition and easily accessible. Once again, Engels Group boasts a wealth of experience. This page showcases a selection of projects from our portfolio.



Normboxes in a field hospital. Not only for bandages, but also for bottles of nitrous oxide.

volume	size	NSN
20 litres	600x400x135 mm	8115-17-053-7909
90 litres	2600x400x440 mm	8115-17-053-7578

Our design departments (in the UK and NL) often develop client specific interiors in our boxes to answer our (military) clients needs. Below we present some examples:



Interior with slide in dividers and lid with neoprene joint. Designed for administration in the field.



First aid kit for first line use.

Together with the Dutch Airforce (that cooperated in this project with the Royal Netherlands Army), we designed this first aid kit for our Air Assault Brigade.

- It has drawers with flexible dividers for a multitude of items that you can reach without "digging" in the box.
- The front can be closed with a key, to safeguard anaesthetics.
- Rainwater tight, with grips to enable carrying by 2 medics.
- The flat lid can be used as a seat for the patient. (useful for bandaging shoulders, arms and headwounds).



Interior for vertical transport and storage of bottles with pressurized air or oxygen. Many have been supplied to disaster relief units such as the French SSID's and Dutch Regional Fire-fighter units.



Clips will take a spare set of 12 injectors for a Leopard Tank (Multifuel solution).

SMARTCASES™ FLIGHTCASES

INTERIORS

Besides injection moulding and assembling cases, we also fabricate.

We design and fix foam interiors in standard SKB, Nanuk or Pelicases, aiming to find the best fit for your needs. And when a standard size isn't suitable or proves to be too expensive, we can produce a custom smartcase or flightcase tailored to your item or toolset.



We can print any camouflage design and/or instruction on any type of case we fabricate.



We produce foam inserts by milling or lasercutting also in small series.



We integrate electronics in our cases, for charging and synchronizing phones and tablets.

Our Smartcases™ are in fact "flightcases light" They offer the same flexibility in design but with much sleeker profiles and are a lot easier to carry. Naturally, for bulkier products, when stacking is needed for storage or transport, we are happy to design/produce a flightcase. Besides options like coloured or printed panels made of rugged honeycomb plastic, we also supply black extrusions and grips as a standard option.



Smartcase™ containing a light drone.

Our flight cases have a very strong and highly configurable design. The flight cases can be made in a wide range of configurations like standard road trunks, 19" rack cases or demonstration cases.

ATA (Air Transport Association) specification 300 is often used as a standard for cases in the USA. There are various, DEF STAN and MIL-SPEC standards that apply to the transportation of goods for military application in Europe and the USA. Our design team is well aware of these, and our cases comply where necessary.



Classic flightcases, with an extra touch: multicoloured foam, black accessories.

EXOCASE™



Our EXOCASE™ is a further development of the well-known flightcase. It combines the convenience of a fabricated case with the durability of a moulded transit case. The EXOCASE™ unique "exoskeletal" design ensures maximum protection of its content during storage and transportation. Unlike flightcases, the outer poly urethane corners and ABS profile protection make our EXOCASE™ extremely shockproof and thus fall resistant. Testing for UN approval classification "X" poses no problem for the EXOCASE™.



Exocase™, available in any camouflage pattern, the absolute top in fabricated cases.

EXOCASE™
dronekit



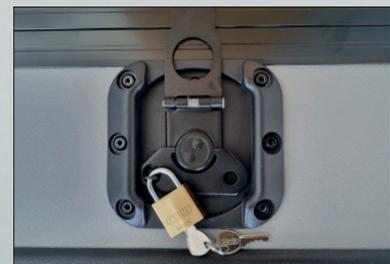
EXOCASE™ lids have standard neoprene joints and provide IP 56 protection.



Polyurethane corners and ABS profiles covering the inner structure of a EXOCASE™ absorb shocks.



Strong, moulded hinges.



Secure locks.



EXOCASE™ satellite phone charger kit



Strong ergonomic handles

FOLDABLE CONTAINERS

LIGHTPACK

We supply two versions of foldable containers. When used in bulk, we advise our classic Lightpack, where, when empty, pallets and lids are shipped in separate stacks. As RTP (reusable transport packaging) shipped empty as complete sets, we offer our Lightpack pro. Here, when empty, pallet, sleeve and cover form one unit.



Lightpack pro modular, size 1200x800 mm and 800x600 mm.



We supply Lightpack pro collars also "made to measure".



We offer several versions multi-use covers and pallets to ship our normboxes™.

Often military transport goes by air, especially on foreign missions. Weight and stability of packaging play a mayor role in the process. Engels supplied the Netherlands MOD pallets, collars (3 different heights) and lids that have proven their durability since the mission in Afghanistan.



Lightpack Pallets and lids are shipped in stacks when empty, the folded collars fit together on a pallet with collar set up. Savings in empty return volume: 85%.



Lightpack assembled, 1200x1000x940 mm. (at series of minimum 100, we will supply the collar to your specification).

MORE THAN CASES

SPECIAL SOLUTIONS



Engels Group has design and assembly departments in both the United Kingdom and the Netherlands.

Our design departments do not hesitate to answer questions beyond cases and boxes. As much as we like to design totally new solutions, cost of tooling and series often won't allow for this. So we also specialize in adapting standard cases to bespoke solutions. We modify dimensions by welding, making them taller or longer. Additionally, we adjust lids, handles, and fastenings and design interiors with foam and plastic. We also tailor boxes to be suitable for spill prevention. See the solution below for an example:



In the field we use fuel for heating and we store fuel for vehicles. We have to be careful with our environment. So, spill prevention is a topic. We designed an extra high case (made out of 2 standard cases) with rainproof lid, that takes 3 jerrycans and an absorption set. Besides this we supplied also a light, lidded palletbox taking 12 cans. And, for emergency use, we also provided foldable spill retention totes.

Our slogan is "Serving logistics and the environment". Besides pallets, palletboxes and cases, we produce products for waste separating, waste collecting and spill prevention. Many of these are used in barracks.



We store wheelybins in all sizes and colours, also UN approved for cleaning cloths or medical waste.



We supplied thousands of medical waste bags to the Nato in Kosovo.



Spill containment platforms and containers are also part of our environmental program.

We supply a wide program "Serving Logistics and the Environment". Our product range answers all questions concerning warehouse and transport bins, storage systems, multiple use packaging, pallets and pallet boxes, retention bins, boxes approved for the transport of hazardous materials and plastic and steel waste containers. This supported by our electronics, software and services for waste collecting and logistics.

TRANSPORT AND STORAGE BINS AND CASES



PALLETS AND PALLETBOXES



WASTEBINS AND CONTAINERS

The ISO 9001 quality certificate underlines the quality guarantee for design, development, production and service of Engels and Protechnic. Our ISO 14001 environmental certificate (for our main production unit) shows our concern for mankind's future.



SPILL PREVENTION



Protechnic Ltd is a company within the Engels Group, a family business founded in 1960. The Engels Group thinks in terms of generations rather than short-term profit, the future of our planet is at heart. Our environmental programme underlines this.

Our true capital are our customers and our staff. We offer our customers state-of-the-art products at competitive prices, thereby building long-term relationships. At the moment (2023) we realize £55 million turnover with 145 employees.



Protechnic Ltd, United Kingdom

Unit 1, West End Trading • BS48 4DJ • NAILSEA BRISTOL
 Tel.: +44 (0)127 58 11 310 • sales@protechnic.com • www.protechnic.com

ENGELS
 serving logistics and the environment
www.engels.eu

Engels Group NV • The Netherlands
 Park forum 1139 • 5657 HK • EINDHOVEN