BEWI









DEFENCE
PACKAGING & COMPONENTS
CATALOGUE

2026

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PACKAGING AND COMPONENT SOLUTIONS FOR DEFENCE APPLICATIONS

LIGHTWEIGHT MATERIALS FOR PROTECTION, INSERTS, AND FUNCTIONALITY

In defence and security environments, equipment reliability, protection, and functionality are critical throughout the entire lifecycle – from transport and storage to operational use. Packaging and components must perform consistently under demanding conditions, including shock, vibration, moisture, temperature fluctuations, and repeated handling.

This catalogue presents BEWI's material-based packaging and component solutions for defence applications. It provides an overview of selected materials, their properties, and typical use cases within defence logistics, systems, and equipment.

With multiple material technologies in our portfolio – including EPP, EPS, Injection Moulding, Fiber, Fabricated Foam, and Moulded Pulp – BEWI develops customer-specific solutions that combine protection, functionality, and efficiency. Each solution is adapted to the application's technical requirements, operating environment, and supply chain needs.

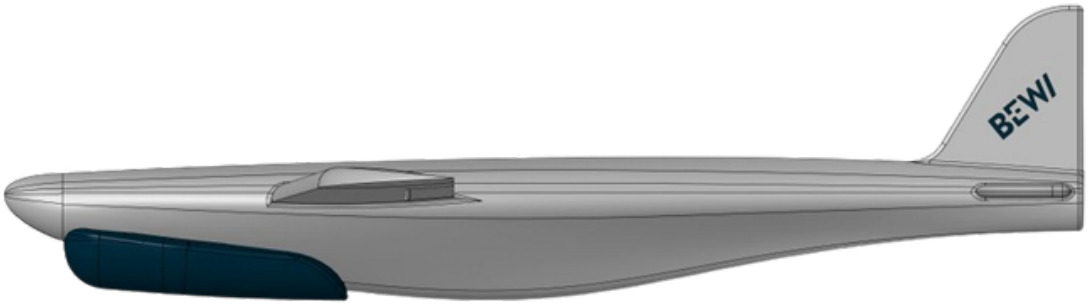


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PACKAGING AND COMPONENT SOLUTIONS FOR CRITICAL DEFENCE APPLICATIONS

LIGHTWEIGHT MATERIALS FOR PROTECTION, INSERTS, AND FUNCTIONALITY

In segments where equipment, packaging, and components are used under demanding and often unpredictable conditions, material selection is a critical factor in overall solution performance. Products must be able to withstand shock, vibration, and rough handling—often combined with moisture, temperature fluctuations, and repeated transport—while weight, functionality, and service life remain key parameters.

BEWI develops and supplies material-based solutions tailored specifically to these conditions. With multiple material technologies in our portfolio, we can combine solutions that meet technical requirements, application needs, and environmental conditions—whether the requirement is protective packaging, functional components, or a combination of both.



EPP

PACKAGING AND COMPONENTS FOR CRITICAL SYSTEMS

Expanded Polypropylene (EPP) is a lightweight material used where protection and functionality are critical. It functions both as packaging and as an integrated component in systems exposed to repeated loads, shock, vibration, and moisture.

For lightweight components with integrated design and efficient production, **EPE** can be used in applications with lower performance requirements, particularly where fast, scalable manufacturing and cost efficiency are key.

WHY CHOOSE EPP?

EPP is the preferred choice when a solution must perform reliably throughout the entire product life cycle.

- When repeated use and reliable performance are required in defence logistics and mission-critical equipment
- When low weight is essential for mobility, handling, and transport in drones and mobile defence solutions
- When the material must combine structural function, energy absorption, and performance in demanding environments and changing conditions



MATERIAL PROPERTIES

Shock and vibration absorption
EPP effectively absorbs and distributes energy—even under repeated impacts. The material recovers its shape after loading and retains its properties over time. Different densities are available, allowing the material to be optimised for specific needs.

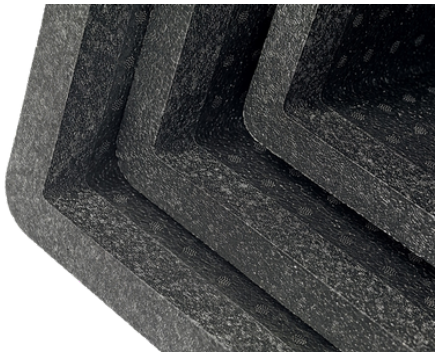
Low weight
The low weight supports easier handling, transport, and deployment of defence systems and equipment, without compromising protection.

Resistance in demanding environments
EPP resists water, oil, fuel, and many chemicals—making it suitable for land, maritime, and mobile environments as well as long-term storage.

Thermal, acoustic and antistatic properties
EPP provides thermal insulation and noise damping for sensitive electronics and technical equipment and is available in antistatic options for applications where electrostatic control is required.

Flexible design
EPP can be precision moulded to integrate protection and functionality into a single component, reducing complexity and improving reliability. Fasteners and inserts can be added through ultrasonic welding for faster and more efficient assembly.

Various colour options
EPP can be supplied in several colours in addition to black, including white, blue, and green. Colour selection can support visual identification, system differentiation, or adaptation to camouflage requirements.



APPLICATION EXAMPLES

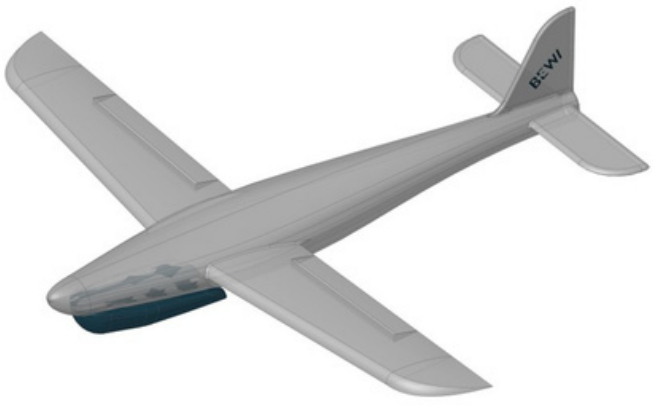
MOBILE AND TACTICAL SYSTEMS, INCLUDING DRONES

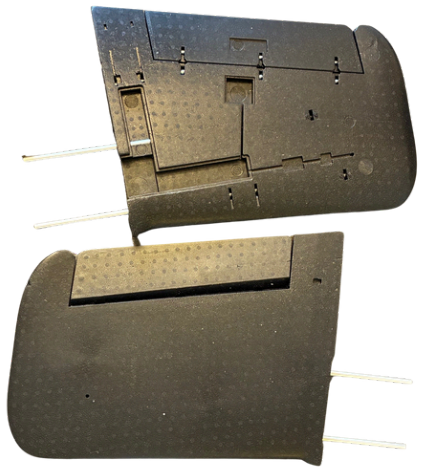
Mobile systems, including drones and other unmanned platforms, place high demands on materials. EPP is used in these solutions due to its low weight, shock-absorbing properties, durability, and water resistance, making it well suited for operation in changing weather conditions and humid environments.

Typical solutions

- Inserts for transport and storage cases for drones, sensors, optics, and communication equipment
- Shock-absorbing internal structures in drone platforms and electronic systems
- Lightweight components for mobile, portable, and unmanned equipment
- Protection of sensitive payloads during transport and handling

Result: Reduced weight, improved protection, and extended service life for drones and other mobile systems.





Drone wings from own production

APPLICATION EXAMPLES

MARITIME AND HUMID ENVIRONMENTS

In environments characterised by moisture, movement, and fluctuating temperatures, materials are subject to special requirements and must be able to protect equipment and components during transport, storage, and use.

Typical solutions

- Buoyancy and flotation elements
- Protection of equipment during sea transport
- Shock- and vibration-damping solutions for containers
- Lightweight components for mobile and airborne systems

Result: Stable operation and reduced risk of damage during transport and use.



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APPLICATION EXAMPLES

LAND-BASED SYSTEMS AND VEHICLES

In land-based and vehicle-related systems, EPP is used where repeated mechanical loads, impacts, and vibrations are part of everyday operation.

Typical solutions

- Energy-absorbing elements in vehicles and mobile units
- Protection of electronics, sensors, and system components
- Modular inserts for transport and storage

Result: Lower system weight, increased robustness, and greater flexibility in use.



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EPS

PROTECTIVE SOLUTIONS FOR TRANSPORT AND LOGISTICS

Expanded Polystyrene (EPS) is a lightweight and dimensionally stable material widely used for protective packaging, where shock absorption, low weight, and cost efficiency are key requirements. EPS is well suited for transport and distribution where loads are primarily single-impact stresses.

For applications requiring a bio-based alternative, **Biofoam** can be used as a substitute in single-use packaging, supporting reduced reliance on fossil-based materials and circularity.

WHY CHOOSE EPS?

EPS is ideal for shock absorption, low weight, and insulation.

- When effective protection is required for defence equipment, components, and sensitive materials
- When low weight and cost-efficient packaging are essential in large-volume or distribution-based supply chains
- When solutions must be precisely form-fitted or used for single-use/distribution packaging in defence logistics



MATERIAL PROPERTIES

Shock absorption during transport and handling
EPS effectively absorbs and reduces energy from shocks and impacts during transport and handling—supporting the protection of defence equipment. Different densities are available, allowing the material to be optimised for specific needs.

Low weight
The material's very low density supports efficient transport and easier handling of defence supplies and equipment throughout the logistics chain.

Dimensional stability and precise fit
EPS can be precisely moulded to the contours of the product, allowing retention and protection to be integrated directly into the packaging.

Thermal and antistatic properties
EPS provides thermal insulation for temperature-sensitive products during transport and temporary storage and is available in antistatic options for electronic applications. The material can also be supplied with enhanced UV- and high-temperature resistance for use in exposed conditions.

Scalable and resource-efficient solution
EPS is suitable for both small and very large production volumes and can be manufactured efficiently with consistent quality—ideal for standardised transport and distribution solutions.

Colour options
EPS can be supplied in different colours, including grey, supporting functional, visual, or application-specific requirements in defence logistics.



APPLICATION EXAMPLES

TRANSPORT AND DISTRIBUTION SOLUTIONS

EPS is used where temperature control, low weight, and reliable handling are critical throughout the transport and distribution chain.

Typical solutions

- Temperature-insulating transport packaging for sensitive and critical contents
- Mass-produced distribution and single-use packaging for standardised logistics flows
- Internal insulating protective elements for boxes and containers
- Lightweight solutions for safe handling in complex supply chains

Result: Reliable protection, low weight, and efficient handling in demanding logistics and distribution environments.



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INJECTION MOULDING

MOULDED SOLUTIONS FOR DEFENCE APPLICATIONS

Injection moulding is used in defence applications where functional components or protective packaging must meet high requirements for precision, consistency, and performance. The technology is well suited for complex components, low weight, and efficient production at scale—both for system components and customised packaging or storage solutions.

WHY CHOOSE INJECTION MOULDING?

Injection moulding is relevant when components or packaging must combine precision, consistent quality, and efficient production.

- When consistent quality and high repeatability are required
- When complex components with tight tolerances are needed
- When low weight is required to reduce overall system weight and improve handling
- When multiple functions can be integrated into a single solution, reducing assembly and complexity
- When traceability and documentation are required to meet defence standards



MATERIAL PROPERTIES

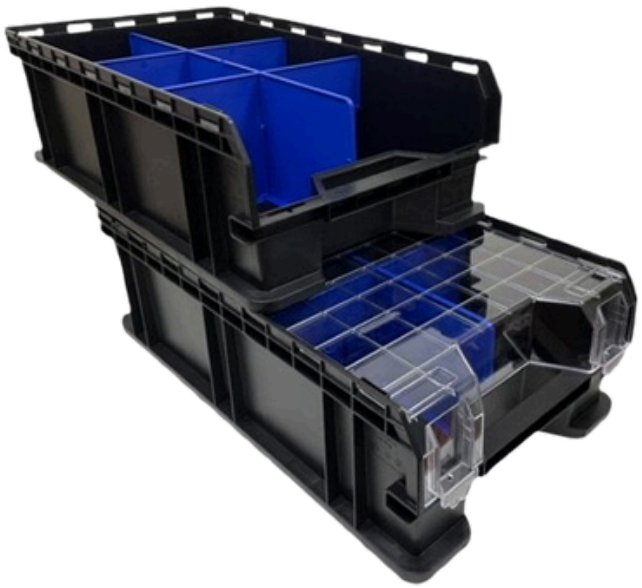
High precision and dimensional stability
Injection moulded parts can be produced with tight tolerances and consistent geometry across production runs

Low weight compared to metal alternatives
Supports reduced system weight and improved handling without compromising functionality

Durability and resistance
Suitable for repeated use and exposure to mechanical stress in demanding environments

Design flexibility
Enables complex components with integrated functional features

Consistent quality in series production
Stable and repeatable processes ensure uniform performance across batches



APPLICATION EXAMPLES

PRECISION COMPONENTS AND PROTECTIVE SOLUTIONS

Injection moulding is used in defence applications where precision, repeatability, and integration are critical.

Typical solutions

- Injection moulded components for technical systems and equipment
- Protective packaging and storage solutions for sensitive components
- Moulded trays and inserts for transport and handling
- Lightweight structural parts with integrated functionality

Result: Reliable, repeatable solutions with high precision, reduced assembly complexity, and optimised system performance



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HONEYCOMB

LIGHT AND STRUCTURAL PROTECTION IN PAPER-BASED MATERIAL

Honeycomb is a paper-based material designed for structural support and protection in defence applications where low weight and high strength are required.
It is used as a protective and stabilising element within packaging and transport solutions.

WHY CHOOSE HONEYCOMB?

Honeycomb is relevant when structural strength and low weight are required in protective solutions.

- When large or sensitive units require stabilisation during transport and handling
- When weight reduction is critical for transport efficiency and mobility
- When impact resistance and load distribution are required to protect equipment
- When a paper-based and recyclable solution is required in logistics



MATERIAL PROPERTIES

High strength-to-weight ratio
The honeycomb structure provides strong load-bearing capacity while adding minimal weight, supporting efficient transport and handling of equipment

Effective load distribution
Distributes forces evenly across the structure, reducing the risk of point loads, deformation, and damage during transport, stacking, and handling

Dimensional stability
Maintains its shape and structural integrity under load, ensuring reliable protection of larger or sensitive units throughout the logistics chain

Paper-based and recyclable
Made from paper materials and suitable for recycling, supporting circular material use in defence logistics and reducing material waste



APPLICATION EXAMPLES

TRANSPORT AND DISTRIBUTION OF EQUIPMENT

Honeycomb is used where structural stability and lightweight protection are the primary focus, particularly in transport and distribution applications. The material provides reliable support and protection for larger units while keeping overall weight and material usage to a minimum.

Typical solutions

- Protective panels and inserts for transport solutions
- Stabilisation of larger defence units during transport
- Surface and edge protection in boxes and containers
- Combination with foam or other inserts for complete packaging systems

Result: Lightweight structural protection with high strength and efficient material usage.



CARTON-BASED PACKAGING

PACKAGING SOLUTIONS FOR DEFENCE LOGISTICS AND HANDLING

Carton-based packaging is used in defence applications where efficient handling, reliable transport, and structured logistics are critical. Solutions are developed as customer specific boxes, trays, and packaging systems designed to support transport, storage, and handling of defence components and equipment across the supply chain.

WHY CHOOSE CARTON-BASED PACKAGING?

Carton-based packaging is relevant when efficient, lightweight, and well-structured logistics solutions are required in defence supply chains.

- When customised packaging is needed for transport, storage, and components
- When stable stacking and efficient pallet utilisation are required
- When marking, traceability, and handling instructions must be clearly integrated
- When recyclable paper-based packaging is required, or combined with BEWI materials for internal protection



MATERIAL PROPERTIES

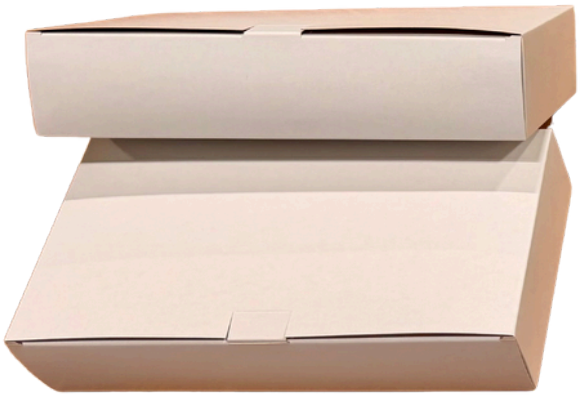
Lightweight and logistics-efficient design
The low material weight supports efficient transport, handling, and storage while maintaining sufficient strength

Customised and application-specific packaging
Solutions are developed according to customer requirements, ensuring optimal fit for transport, storage, and handling of components and equipment

Optimised for stacking and pallet utilisation
Designed for stable stacking and efficient use of pallet space, supporting streamlined logistics and reduced transport and storage costs

Integrated marking and traceability
Supports printing, labelling, QR codes, and handling symbols, enabling clear identification, traceability, and correct handling throughout the defence supply chain

Paper-based and recyclable
Manufactured from paperboard materials and suitable for recycling, supporting circular material use and reduced environmental impact



APPLICATION EXAMPLES

TRANSPORT AND HANDLING OF DEFENCE EQUIPMENT

Carton-based packaging is used in defence logistics where structured handling, clear identification, and efficient transport are essential. Solutions are designed to support safe movement of components between production sites, warehouses, and operational environments, while ensuring correct handling, traceability, and efficient use of space.

Typical solutions

- Carton boxes for transport and storage of components and technical equipment
- Trays and dividers for organised handling and positioning
- Packaging designed for stable stacking and efficient pallet utilisation
- Packaging with integrated labelling, QR codes, and handling instructions
- Combined solutions with EPP, EPS, Honeycomb, or foam inserts for internal protection

Result: Efficient, standardised, and traceable packaging solution supporting safe transport, organised handling, and optimised logistics in defence supply chains



FABRICATED FOAM

FLEXIBLE AND CUSTOMISED PROTECTION SOLUTIONS

Fabricated foam is a processed block-based material developed for customer-specific defence solutions where precision, functional flexibility, and reliable protection are critical. The solution can be designed, adapted, and produced quickly to meet changing operational and logistical requirements.

WHY CHOOSE FABRICATED FOAM?

Fabricated foam is relevant when flexible and customised solutions with short implementation time are required.

- When the solution needs to be implemented quickly for testing, prototyping, or urgent defence requirements
- When customisation is required without investment in tooling, allowing rapid adaptation to changing specifications
- When production volumes and requirements vary, supporting fluctuating demand in defence programmes and projects



MATERIAL PROPERTIES

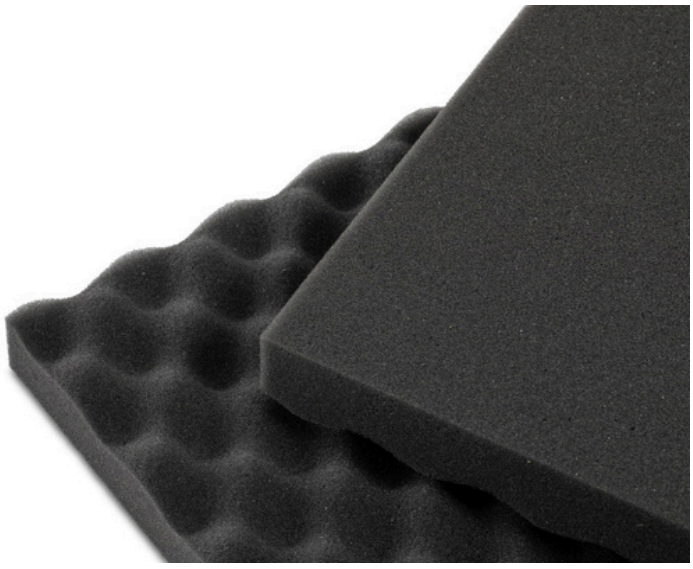
Effective shock absorption
Fabricated foam protects defence equipment against shocks and impacts during transport and handling, with protection levels adapted through foam type and density.

Flexibility in design and application
The material can be cut, milled, and assembled, providing great flexibility in design and making it easy to adapt or modify existing solutions. For applications involving sensitive electronics, fabricated foam is also available in antistatic options.

Rapid implementation
As fabricated foam does not require mould tooling, it is well suited for solutions with short lead times, prototypes, or varying production volumes.

Scalable solution
The material is suitable for both small series and temporary solutions, as well as a supplement to more permanent moulded solutions.

Easy to combine with other materials
Fabricated foam is often used in combination with EPP, Honeycomb, or boxes to create a complete, mission-ready protective solutions.



APPLICATION EXAMPLES

PROTECTION DURING TRANSPORT AND STORAGE

Fabricated foam is used where the protective solution needs to be quickly adaptable and where flexibility and functional reliability are essential.

Typical solutions

- Foam inserts for transport and storage cases for sensitive and technical equipment
- Temporary or scalable solutions for changing operational needs
- Prototypes and small series where rapid testing and adaptation are required

Result: Flexible and reliable protection for dynamic and demanding environments.



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MOULDED PULP

MOULDED FIBRE-BASED PACKAGING

Moulded pulp is packaging made from recycled paper fibres, suited for defence applications where a sustainable solution and reliable basic protection are required in standardised transport and logistics flows.

WHY CHOOSE MOULDED PULP?

Moulded pulp is relevant when uniform and reliable solutions with low complexity are required.

- When proven protection is needed in standardised logistics flows for components and equipment
- When robustness and stable handling are more important than high complexity, supporting repeatable and reliable operations
- When the solution must support reliable transport and storage of components across defence supply chains



MATERIAL PROPERTIES

Form-fitted protection
Moulded pulp is moulded directly to the product’s geometry, ensuring stable retention and basic protection of defence components during transport and handling.

Lightweight and functional design
The material combines low weight with sufficient strengthsupporting efficient handling and protection of defence equipment in standard logistics and distribution environments.

Fibre-based and recyclable
Made from recycled paper fibres and recyclable after use, making the material well suited for single-use packaging with a focus on material circularity.

Efficient for series packaging
Moulded pulp is suitable for larger production runs where consistent protection and simple handling are essential.



APPLICATION EXAMPLES

PROTECTION DURING TRANSPORT AND STORAGE

Moulded pulp is primarily used for the transport and protection of components where functional reliability and consistent protection are essential.

Typical solutions

- Moulded trays for sensitive and critical components
- Internal protective elements in transport boxes for safe handling
- Series and transport packaging for standardised logistics flows

Result: Reliable and functional protection with low complexity and reduced environmental impact.



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WHO WE ARE

BEWI is a leading European supplier of packaging, component, and insulation solutions made from EPP, EPS, and Honeycomb. Through a circular business model, we produce raw materials and products while recycling used materials into new solutions.

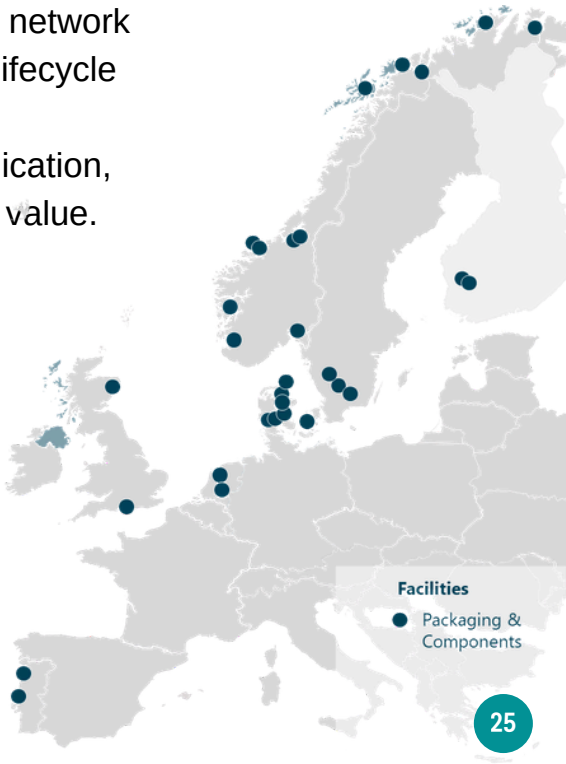
With production and technical centres located across Europe, we ensure high delivery reliability, short transport distances, and dependable lead times. This enables fast response and stable supply chains, ensuring our customers' operations never come to a standstill.

EUR ~796m	EUR ~81m	~76	~3000	~280kt
Annual net sales	Adj. EBITDA	Facilities	Dedicated employees	Production capacity

We provide support throughout the entire process:

- Analysis of the application, solution, and operating environment
- Advice on material and solution selection – EPP, EPS, or hybrid
- Development of prototypes and testing, including shock, vibration, and temperature tests
- Production and delivery via our European manufacturing network
- Continuous optimisation throughout the product's entire lifecycle

Each solution is developed specifically for the individual application, with a strong focus on functionality, durability, and long-term value.



CUSTOMER TESTIMONIALS

Working with BEWI has been a pleasure from start to finish. Over the course of more than eighteen months, we have jointly developed and refined Dorica, and throughout the entire process we have experienced a partner who is engaged, solution-oriented, and strongly focused on quality. We are proud of the result – and of the collaboration.

Together with BEWI, we have designed an EPP solution that is durable and easy to assemble. We have integrated a window to allow the products to be visible, as well as a handle for easy portability. Together with BEWI, we are proud to present this modern solution.

We were looking for an environmentally friendly solution, and Honeycomb proved to be a perfect fit for our needs. We are pleased to use it for our products and to ensure they reach our customers in the best possible condition—while staying true to our values.

By combining our platform and technology with BEWI's packaging expertise, we have created a reusable product that can be used 150 times or more. We could not have achieved this on our own – it required all the knowledge and experience that BEWI brought to the table.

To protect both components and finished products during transport, we have chosen EPS packaging from BEWI. It not only ensures safe transport of our products, but is also 100% recyclable.

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