

Custom Engineered
Foam Solutions by
MPAS Certified
Designers.

NSN: 8145-99-959-7377

Contents

MSA Foams is an MPAS-certified specialist UK foam converter (CAGE Code: U1492), trusted to deliver precision-engineered solutions for demanding applications.

- ISO9001 Certified for Quality Management Systems
- ISO14001 Environmental Certification on Environmental Management Systems
- MPAS (Military Packager Approval Scheme) Accredited
- Zotefoams PLC Approved Converter
- Joscar Certified

With over 30 years of combined industry experience, our team brings proven expertise across sectors including defence, automotive, aerospace, and beyond.

Our commitment to quality, compliance, and responsible manufacturing is reflected in the recognised approvals and accreditations we hold.

04.



MPAS

Military Packager Approval Scheme

06.



Consultation

Nationwide consultants on hand, from enquiry to delivery.

08.



Foam Engineering

Custom foam by Zotefoams and bespoke case engineering solutions

10.



Cases & Packaging

Protective cases, containers & packaging solutions

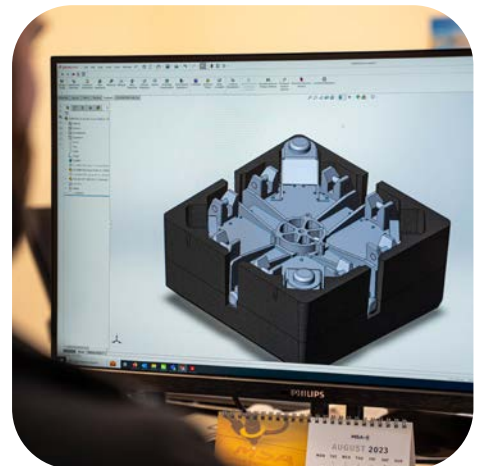
12.



Custom Branding

Custom Graphics & Personalisation Options

14.



Design & Manufacture

Foam Conversion Machinery, Digital Printing and 3D Scanning Technology

Military Packager Approval Scheme



Military-Grade Foam Inserts and Protective Hard Cases

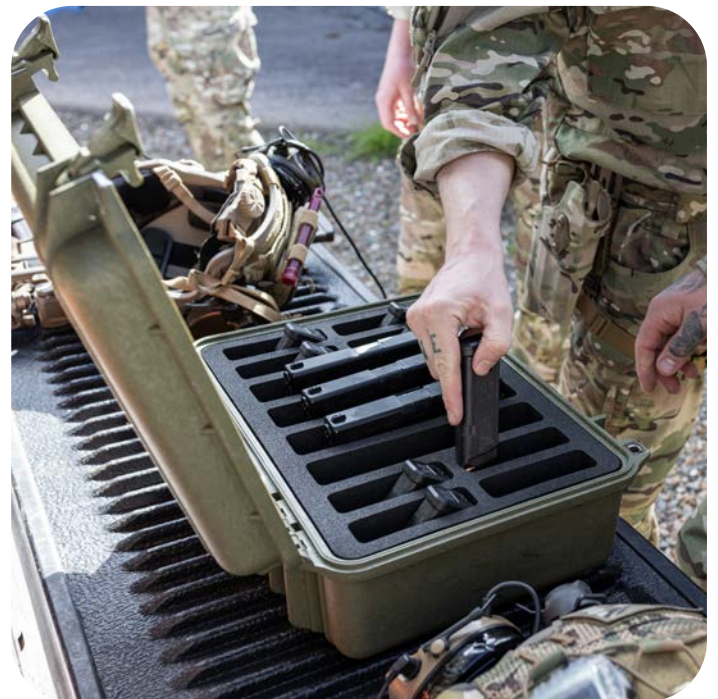
MPAS-approved packaging materials are designed to be durable, corrosion-resistant, and capable of protecting products and equipment from shock and vibration during transportation. They also comply with stringent labelling and documentation requirements, ensuring full traceability of all contents. By using MPAS-approved packaging, military organisations can be assured that their equipment will reach its destination safely and in optimal condition, even in the most demanding environments.

MPAS

MSA Foams is accredited to design and manufacture military packaging. MPAS ensures that Military Level Packaging meets the MOD requirements for safe handling, storage and transportation etc., within the military supply chain in a cost effective manner.

Following a rigorous training scheme, MSA's Senior Designers are certified to authorise SPIS designs for Military level packaging, as supplied to the MOD under Defence standard 81 – 41, DEFCON 129 and the Defence Logistics Framework (DLF).

In addition to the ISO standard, MPAS certification verifies that MSA Foams, as a manufacturer, has the capabilities to produce suitable military level packaging for the particular requirement, demanding an in depth knowledge of Defence Standard 81-41. CAGE Code: U1492.







Consultation

Local Expertise, End-to-End Support

From your first enquiry, you will work with a dedicated Business Development Manager for your region, giving you local knowledge and a single point of contact throughout. Your consultant understands your requirements, provides clear and timely quotations, and coordinates directly with our design and production teams.

Support continues beyond delivery, with ongoing guidance and future opportunities identified to help you get lasting value from your custom foam solutions.

On-Location 3D Product Scanning

With on-site convenience, wireless scanning, and expert consultants, we ensure precise and efficient 3D data capture. Our nationwide service brings reliable technology directly to you, delivering accuracy and speed wherever you need it. Learn more about the scanning technology we use on page 15.



01. Concept.

By 3D scanning your product at your premises, our HQ, or taking a CAD file you already have, we'll get the basics of the design you're looking for.

02. Consultation.

One of our nationwide consultants will discuss the finer details of the design and the options available to you, such as foam density, case type and quantity.

03. Completion.

Detailed drawings of your foam insert will be provided and any adjustments required will be made. Once approved, a delivery time will be agreed and the design will go to production.

Foam Engineering

MSA Foams delivers one of the UK's most versatile custom-cut foam design services, tailored to reflect your branding, colours, and logos. With extensive experience in foam engineering, particularly within the defence sector, we consistently deliver high standards of quality and service.



Zotefoams

MSA Foams is a UK specialist converter accredited by Zotefoams, working with cross-linked block foams including Plastazote® and Evazote®. Zotefoams materials are recognised for offering some of the world's lightest crosslinked foams, manufactured without chemical blowing agents and with a highly consistent cell structure and density.

Plastazote® foams are engineered to deliver reliable performance while reducing weight, with densities ranging from 15 kg/m³ to 115 kg/m³ to suit a wide range of applications. A broad choice of colours is available, along with specialised grades offering enhanced flame-retardant, conductive, or static-dissipative properties.

Precision Foam Engineering & Case Integration

As well as foam design, our conversion machinery includes 5-axis routing for case engineering and more complex shaping of foam to create integrated solutions for complex equipment, electronics, and ruggedised cases.

Precision-cut inserts, engineered internal layouts, and carefully selected materials ensure reliable protection, accessibility, and performance across defence, aerospace, and industrial applications.

Plastazote® Stock Foam Specifications

Foam Type	Colours Available
LD18	Black, White
LD29	Black
LD33	Black, White, Green, Blue, Red, Yellow, Hot Pink, Orange, Violet, Pale Grey
LD45	Black, Blue, Grey, Red, Yellow, BlueFR (<i>Fire Retardant</i>), CharcoalFR (<i>Fire Retardant</i>)
LD70	Black
VA65	Black
Static Control	LD30SD (Black, Static Dissipative), LD40SD (Black, Static Dissipative), LD32CN (Black, Conductive)





Cases & Packaging

We offer both high-specification and cost-effective cases and containers, combined with custom foam fittings for reliable equipment protection.



Peli™ Cases

- World-renowned protective cases
- Waterproof, crushproof, dustproof
- Protected by the Peli Lifetime Guarantee



Max Cases

- Waterproof and rugged
- Low-cost price point
- Available in a variety of sizes and colours



ExoCase™ Cases

- Water-resistant and dustproof alternative to traditional flight cases
- Dimensional flexibility
- Extremely customisable, including sizes, panel material and colours



Peli™-Hardigg Cases

- Shockproof, watertight, dustproof
- Heat and chemical resistant
- Rack mount, single lid and ISP Peli™-Hardigg cases available



Single Skin Cases

- Simple, lightweight plastic cases
- Budget friendly
- Ideal for marketing use as presentation cases



Tool Control

- Design of inserts for cases, tool drawers or trays
- Efficiently organise tools
- Dual colour foam highlights missing items



Containers

- Prevent damage for safe transportation of delicate parts. Customised products include:
 - › Lightweight metal containers
 - › Flight cases
 - › Eurocontainers
 - › Cardboard cartons
 - › Dividers and stillages
 - › Bespoke nylon pouches and backpacks

Custom Branding

Our tailored branding applications, from laser engraving to full custom case graphics, ensure each packaging solution is both functional and visually professional.



Full Custom Case Graphics

- Premium-quality, durable labels designed to cover the full exterior of the case, almost like a wrap
- Enables complete visual customisation and brand consistency
- Ideal for high-impact presentation and identification



Decals, Stickers & Labels

- Decals designed to fit case tramlines or dedicated label holders
- Adhesive labels for flexible placement across case surfaces
- Full panel labels precisely cut for seamless edge-to-edge coverage



Digital Printing

- High-quality digital printing applied directly to compatible cases
- Bespoke printed labels produced where direct printing is not possible
- Supports branding, referencing, and identification across cases and foam



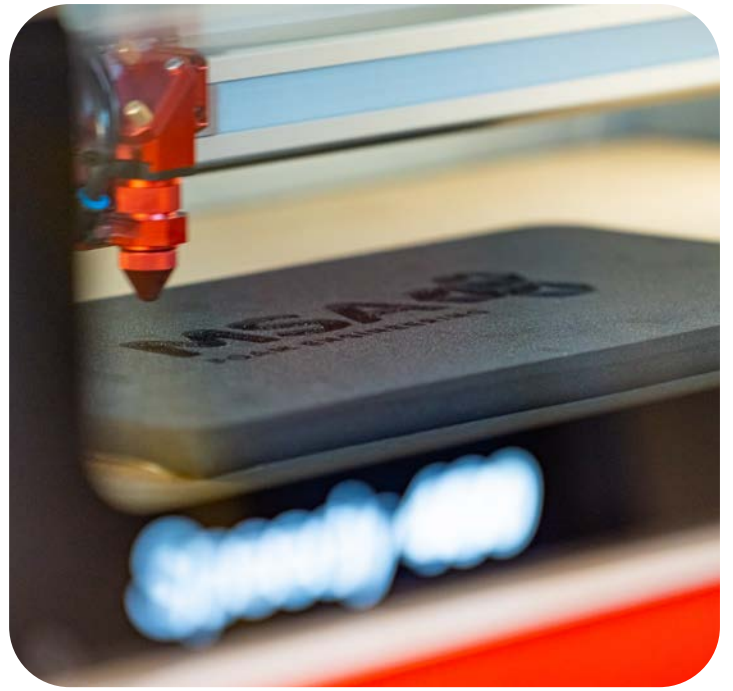
Laser Engraving

- Precision engraving for foam inserts and accessories
- Suitable for logos, pocket identifiers, and reference markings
- Produces a durable, professional, and permanent finish



Personalised Nameplates

- Custom nameplates for clear company or equipment identification
- Compatible with most Peli™ Protector cases
- Durable construction with secure attachment and a professional finish





Design & Manufacture

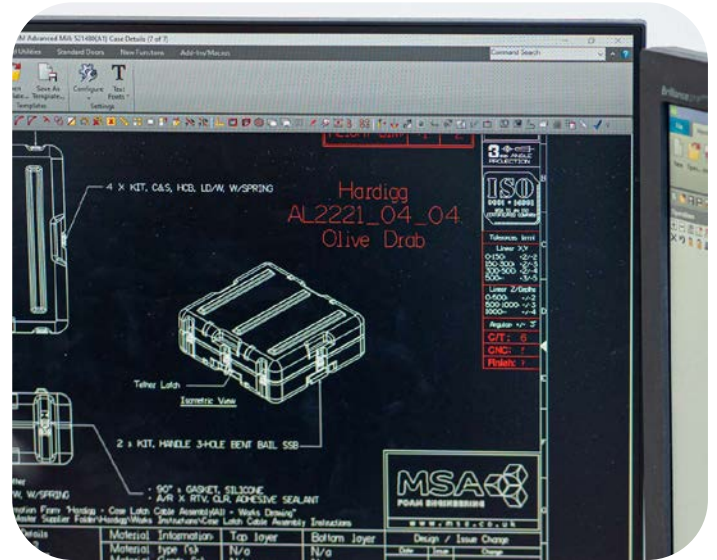
Our manufacturing facility occupies over 32,000 sq ft and includes a number of advanced foam conversion machines.



3D Product Scanning

We use a FARO articulated arm with 3D scanner to record detailed profiles in 3D space, as well as the Leo scanner, a handheld mobile system that enables our nationwide team to scan products at customer premises. Wireless operation provides greater freedom to manoeuvre around larger or more complex items.

From there, our design team produces technical drawings using industry-leading software, including ALPHACAM, SOLIDWORKS®, and CATIA V5, ensuring every protective foam solution is engineered with accuracy and efficiency.



Conversion Machinery

Dual-Head Waterjet

Has Semi 5-Axis to facilitate the cutting of complex shapes

CNC Routers

Convert foam blocks into pre-designed fittings. Pockets are cut to varying depths and shapes to suit the product.

Die Cutter

For economical foam conversion at volume. Once tooling is in place, cutting can be completed within a few seconds.

Splitters

Fecken Kirfel rotary and Baumer flatbed splitters slice raw material.

Hyma Bandsaws

Cut laminated sheets into blocks for CNC machines.

Heat Laminator

Laminates foam together to create blocks to the depth required.

Printing & Engraving Equipment

Digital Printer

A Roland 4-colour UV Digital Flat Bed Press with extended gantry can print your corporate identity directly onto your case or container.

Digital Printer/Cutter

A Roland 4-colour UV Digital Roll-to-Roll Label Printer/Cutter produces labels and stickers to further enhance product aesthetic.

Laser Engraving Machines

Are used to engrave foam with branding and pocket identification, as well as produce engraved labels, information plates and nameplates.



At MSA Foams, we take quality seriously. As a BAE Systems approved supplier, our accreditations and certifications demonstrate our commitment to excellence across industries, ensuring that every foam solution we produce meets the highest standards of performance and compliance.

