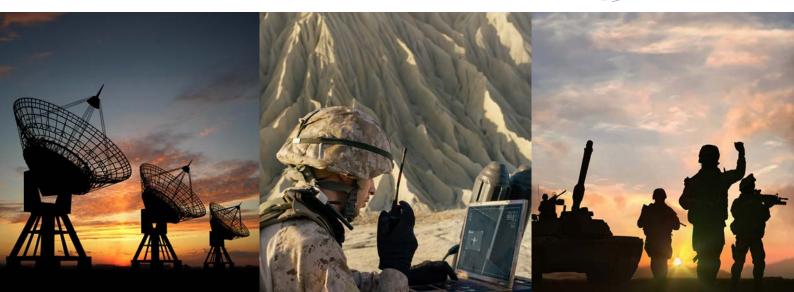
# 



Engineered Sealing Solutions
For Defence Applications







ISO9001:2015, ISO14001:2015 approved and manufacturing IATF16949:2016 and QS9001 certified



Variety of products for all application conditions



Design & quality control systems ensure our products meet your specification



Range of materials developed and accredited for Defence applications

### **Product Overview**



### O-Rings

Available in all international standard ranges and custom sizes. This includes continuously moulded very large diameter O-Rings, in the complete range of elastomer materials to suit all environments and fluids.



### Moulded Seals & Gaskets

Bespoke fully engineered elastomeric components and gaskets for sealing, exclusion and protection whilst optimising space envelope and reducing component count within assemblies.



### Metal Seals

For very high temperature or pressure applications beyond the capabilities of elastomer and PTFE seals, with standard and custom O, C and E profiles available in a range of base metals and coatings.



### **Environmental Seals**

Custom mouldings for IP rated sealing of hatches, covers, battery packs, switches and panels, with push-in-place seal retention technology providing assured initial assembly and refitting in-service.



### PTFE Seals

Spring and elastomer energised PTFE seals for linear and rotary dynamic duty, providing low friction, low heat generation, smooth operation and high chemical resistance with wide temperature range.



### **Bonded Components**

Rubber-to-metal and rubber-to-plastic parts providing component integration, hardware size optimisation, easy of assembly and flexibility of design, including full two-shot rubber-plastic mouldings.





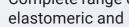
### **RFI/EMI Shielding Materials**

Carbon and metallic loaded elastomers to provide electrical flow paths through sealed interfaces, or for RFI and EMI shielding of sensitive electrical equipment and components.



# Why choose us as your seal supplier?

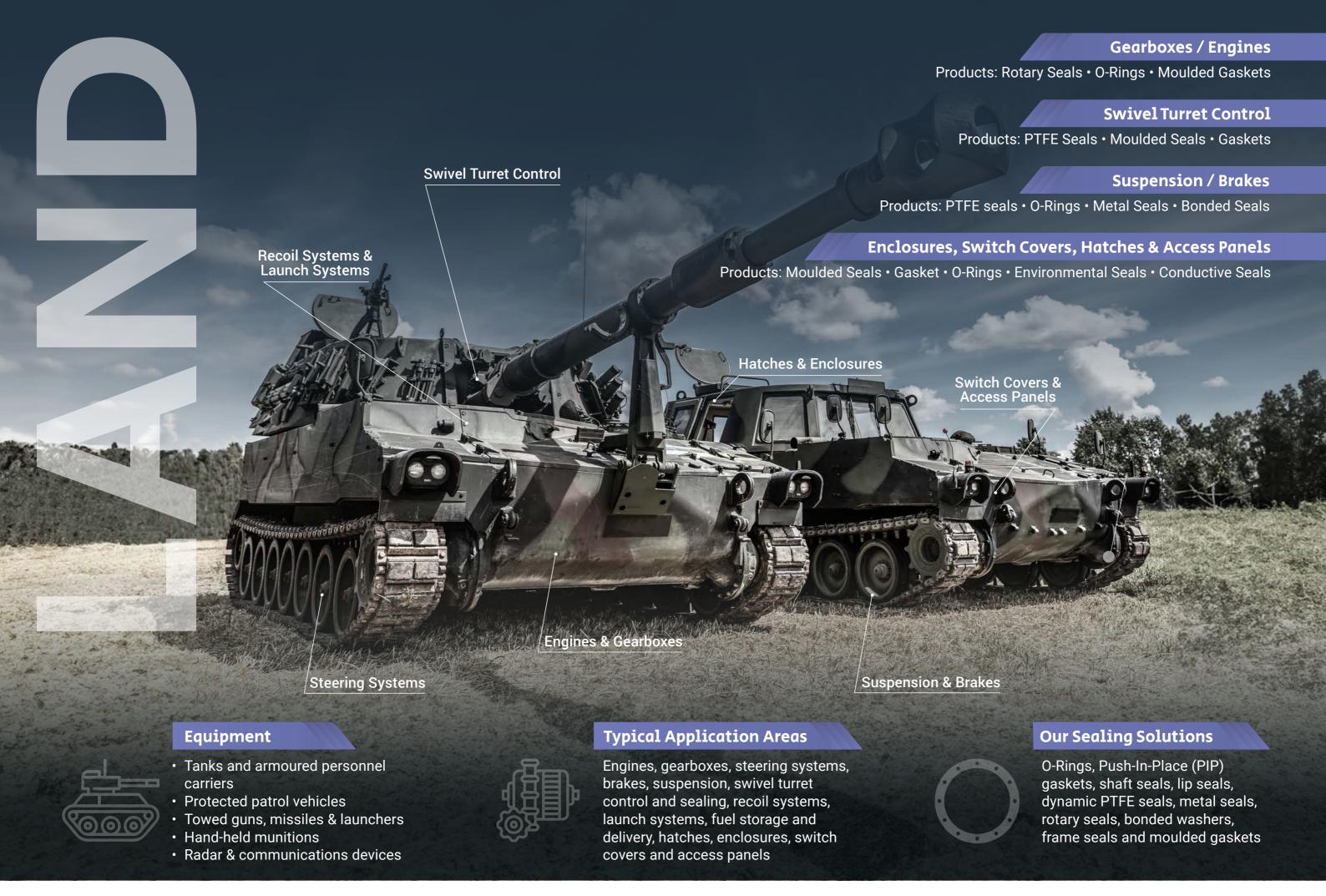
- Specialised kitting of products
- **Dedicated logistical** support
- Rapid turnaround on projects
- Quick lead times
- Shelf life & product expiration requirements



**Rotary Seals** 

Complete range of standard and custom elastomeric and PTFE shaft seals for oil, grease and fluid sealing and protection against contaminant ingress on gearboxes, drives and other rotary equipment.

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### Gearboxes / Engines

Products: Rotary Seals • O-Rings • Moulded Gaskets

### Stabilisers

Products: PTFE Seals • O-Rings • Rotary Seals

### Sonar/Radar

Products: Conductive Seals • Environmental Seals • Moulded Seals • Gaskets

### Fuel systems / Fire Suppression

Products: O-Rings • Moulded Seals • Gaskets • PTFE Seals

**Access Hatches & Panels** 

Fuel Systems & Fire Suppression

Communications

Electrical Warfare & Countermeasures

Weapon Systems

Control Surfaces

Shaft Lines

Engines & Gearboxes

Sonar

Radar

**Stabilisers** 

### Equipment

- Aircraft carriers
- Destroyers and frigates
- Minesweepers and submarines
- Fast patrol boats
- Landing crafts
- Support vessels



### **Typical Application Areas**

Engines, gearboxes, shaft lines, stabilisers, control surfaces, access hatches and panels, sonar, radar, communications, electronic warfare and countermeasures, weapons systems, fuels systems and fire suppression.



### **Our Sealing Solutions**

O-Rings, Push-In-Place (PIP) gaskets, shaft seals, lip seals, dynamic PTFE seals, metal seals, rotary seals, bonded washers, frame seals and moulded gaskets

# Flight Control Surfaces

Products: Custom Moulded Seals • Gaskets • PTFE Seals

### Propulsion / Fuel Storage

Products: O-Rings • Moulded Seals • Gaskets • Conductive Seals

# Electronic Systems

Products: Conductive Seals • Moulded Seals • Gaskets

# **Enclosure, Switch Covers and Access Panels**

Products: Moulded Seals • Gasket • O-Rings • Environmental Seals • Conductive Seals

**Electronic Systems** 

# Flight Control Surfaces

Propulsion & Fuel Storage

Switch Covers & Access Panels

### Equipment

- Unmanned aerial vehicles and drones
- Surveillance aircraft
- Satellites
- · Radar and communications devices



# **Typical Application Areas**

Flight control surfaces, propulsion, fuel storage and delivery, electronics systems, access panels, enclosures, switch covers



# **Our Sealing Solutions**

O-Rings, Push-In-Place (PIP) gaskets, lip seals, dynamic PTFE seals, metal seals, rotary seals, bonded washers, frame seals and moulded gaskets.

# **Engineering & Design**

Unrivalled design and engineering support means you benefit from the best possible sealing solution at optimum cost.

- Experienced application engineer support every project from concept to approval
- Complete seal design service
- ✓ Initial seal geometry and profile choice
- Material selection and development
- ✓ 3D CAD and FEA Simulation
- 3D printing for concept testing
- ✓ Prototyping through to final production
- Online Technical Hub and interactive tools

# Quality Assurance & Manufacturing

We maintain strict quality procedures at all stages of our design, development and manufacturing processes.

- Seals and materials approved to Military Specifications (MIL, MS, AS9100, AN, MOD, ISO14001, ASTM, SAE)
- ISO9001:2015, ISO13485:2016 and ISO14001:2015 approved
- Manufacturing approved to IATF16949:2016 & AS9100
- Worldwide network of global manufacturing facilities
- We can meet required critical shelf life specifications



E: enquiries@ceetak.com www.ceetak.com

Ceetak Ltd Head Office

Fraser Road,
Priory Business Park
Bedford MK44 3WH
+44 (0)1234 832200

Ceetak EU B.V. Industrieweg 16 6662 PA Elst Netherlands Ceetak Aberdeen

Block 1, Unit 13, Souterhead Rd Altens Industrial Estate Aberdeen, AB12 3LF +44 (0)1224 249690