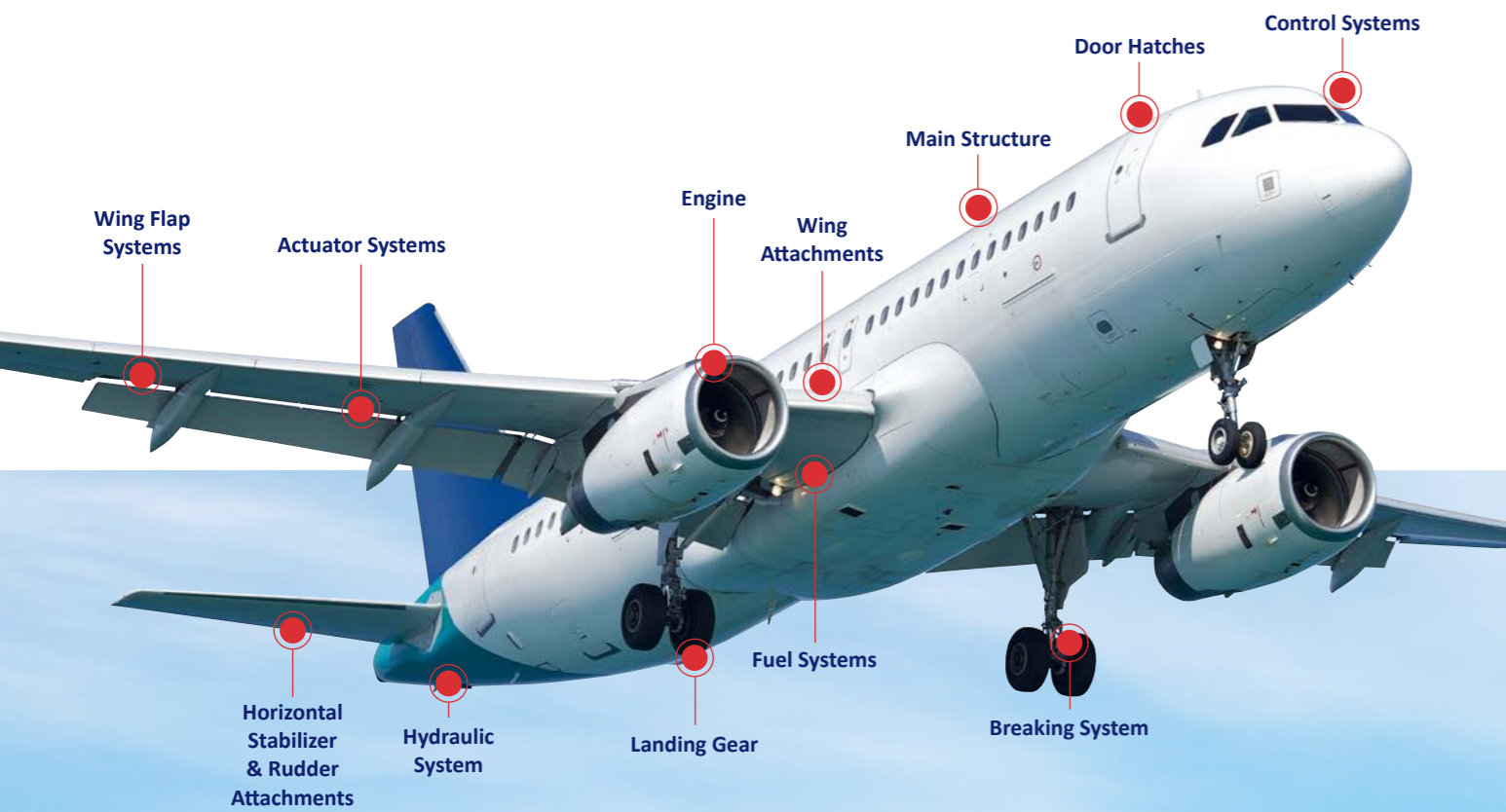


# RIGHTON BLACKBURNS

AEROSPACE & DEFENCE

The specialist supplier of  
metals & plastics to the aerospace industry  
- we've got everything covered



## RIGHTON BLACKBURNS

AEROSPACE & DEFENCE

Contact your local Righton Blackburns  
Aerospace Service Centre

- 1 **BRISTOL**  
Tel: +44 (0)117 948 2600  
Email: bristol@rblimited.co.uk
- 2 **MANCHESTER**  
Tel: +44 (0)1942 758800  
Email: manchester@rblimited.co.uk
- 3 **PLYMOUTH**  
Tel: +44 (0)1752 844 931  
Email: plymouth@rblimited.co.uk
- 4 **PORTSMOUTH**  
Tel: +44 (0)2392 623 070  
Email: portsmouth@rblimited.co.uk

[www.rightonblackburns.co.uk](http://www.rightonblackburns.co.uk)



AS 9100 REV D

AS 9120 REV B



Righton Blackburns Aerospace is part of Righton & Blackburns Limited

## RIGHTON BLACKBURNS

AEROSPACE & DEFENCE

# Aerospace & Defence

EXPERTISE COLLABORATION INTEGRITY

- Copper Alloys
- Powder Metals
- Bearing Steel
- Hardial®
- Aluminium Alloys
- Titanium
- Stainless & Alloy Steels
- Nickel Alloys
- Cronidur® 30



[www.rightonblackburns.co.uk](http://www.rightonblackburns.co.uk)

EXPERTISE COLLABORATION INTEGRITY

[www.rightonblackburns.co.uk](http://www.rightonblackburns.co.uk)



Operating from four AS 9100 REV D and AS 9120 REV B licensed sites, Righton Blackburns Aerospace & Defence stockholds and distributes aerospace and speciality alloys to the UK and worldwide markets.

 EXPERTISE  COLLABORATION  INTEGRITY

## The specialist supplier of aerospace & speciality alloys

The company is dedicated to offering customers the complete supply package - an approach that has consistently proven to reduce total acquisition costs and always with emphasis on:

- Exceptional levels of quality and OTIF
- Relationship and partnership
- Technical knowledge
- Value added methods of supply
- Supply chain management and integration at all levels

With a vast stock range in aluminium, stainless steel, carbon and alloy steels, titanium, copper alloys and nickel alloys, the Righton Blackburns Aerospace and Defence materials offering is unrivalled.

The standard aerospace stock range is available in:

- Round bar
- Hollow bar
- Forged bars
- Tube
- Blanks & rings
- Plate

Contract driven ferrous & non-ferrous material can be sourced if required.

All Righton Blackburns Aerospace & Defence Service Centres hold the prestigious SC21 Silver Award and are fully engaged in the SC21 programme to deliver continuous and sustainable improvements in all areas of the business including: productivity, competitiveness, quality, relationships and stakeholder benefits.

Righton Blackburns Aerospace & Defence sub tier and end user supply chain customers:

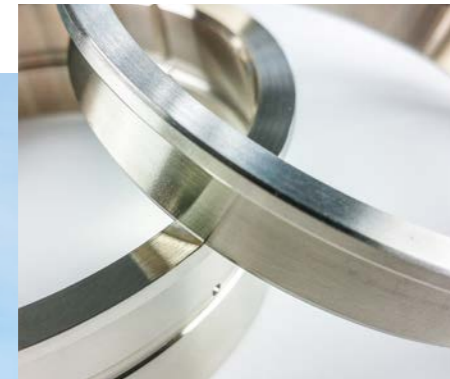
- |  |                                |                             |
|--|--------------------------------|-----------------------------|
| ■ AIRBUS UK                            | ■ GE DOWTY PROPELLERS          | ■ PCC AEROSTRUCTURES        |
| ■ BAE SYSTEMS                          | ■ GE AVIATION                  | ■ PRATT & WHITNEY (COLLINS) |
| ■ BOEING                               | ■ GKN AEROSPACE                | ■ ROLLS ROYCE               |
| ■ CLAVERHAM (COLLINS)                  | ■ HEROUX DEVTEK (APPH)         | ■ SAFRAN                    |
| ■ COBHAM/FLIGHT REFUELLING             | ■ HONEYWELL                    | ■ SCHAEFFLER GROUP          |
| ■ COLLINS AEROSPACE                    | ■ MBD (SAFRAN LANDING SYSTEMS) | ■ SKF                       |
| ■ ROLLS ROYCE CONTROLS & DATA SERVICES | ■ MBDA                         | ■ THALES                    |
| ■ CURTISS WRIGHT                       | ■ MEGGITT                      | ■ TRIUMPH AEROSPACE         |
| ■ EATON LTD                            | ■ MoD                          |                             |



### COPPER ALLOYS

Copper-based alloys are used for the manufacture of safety critical components. They offer high strength, good impact and fatigue resistance, excellent oxidation and corrosion resistance, good electrical and thermal conductivity properties.

In addition, this group of materials exhibits good anti-friction properties and lubricity, they are also non-magnetic and excellent for machining.



### HARDIALL®

We stock and distribute exclusively Hardiall® (AMS 4596, 4597, 4598) for both the United Kingdom and Ireland and supply to our ever growing export market - Hardiall® is the Le Bronze Alloys manufactured CuNiSn Spinodally Hardened equivalent to Toughmet®3.

Hardiall® is melted, cast, manufactured, tested and supplied through a fully integrated supply chain, supplied with only a premium surface (no scale) and supplied as standard with ultrasonic testing in accordance with AMS2154 Class B.



### STAINLESS & ALLOY STEELS

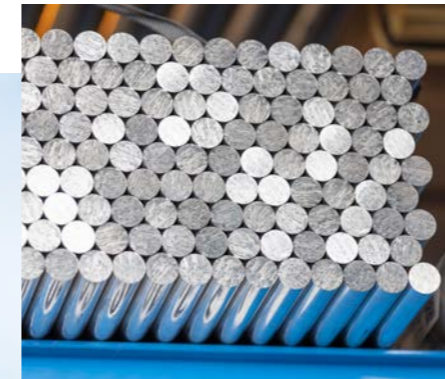
The strength, hardness and heat resistance of steel makes it particularly suitable for use on the skin surface of the aircraft and in the landing gear where extremes of temperature and variation in load are common.

Due to its excellent it commonly used for hinges, cable and fasteners.



### POWDER METALS

Additive manufacturing technology is being increasingly used in the aerospace industry. Our range of powders can be used in the production of lightweight parts with complex geometry, stationary turbine components and any weight reduction parts.



### ALUMINIUM ALLOYS

Aluminium is ideal for aircraft manufacture because it is lightweight, rigid, strong and corrosion resistant. Aluminium is roughly a third the weight of steel, allowing an aircraft to carry more weight and/or become more fuel efficient.



### NICKEL ALLOYS

Nickel alloys are widely used in aerospace engineering due to the range of excellent performance characteristics including corrosion and high temperature resistance.

Nickel alloys can be found in jet turbines, exhaust valves, thermostat valves, tanks and piping - indeed, wherever material and component integrity needs to be maintained at temperature extremes.



### BEARING STEEL

Bearing steel is a high carbon, chromium containing low alloy steel that is made by low-temperature heat treatment.

The material can be used in highly stressed applications such as landing gear, crankshafts and axle shafts where standard materials are not suitable due to the extremes imposed by a component's service life.



### TITANIUM

Titanium is a high-performance material particularly suited to aircraft applications due to its excellent physical properties which include very high strength, temperature and corrosion resistance.

Titanium is used in numerous areas of an aircraft including wings, engine components, pumps and landing gear.



### CRONIDUR® 30

Cronidur 30® (AMS 5898) is a pressure-nitrided martensitic cold worked steel, which has greater corrosion resistance than both 440C and tool steels.

Hardness can be in excess of 60Hrc, so it is therefore the perfect steel for any component that needs to combine durability/wear, with superior corrosion resistant properties, whilst still being able to operate in temperatures of up to 500C.