

UK capabilities in the airport sector



**INNOVATION
IS
GREAT**
BRITAIN & NORTHERN IRELAND

250,000

People are employed by the UK airport industry

raconteur.net



Welcome to the largest aviation transport system in Europe

UK companies are recognised internationally for their expertise in delivering innovative and sustainable airport solutions.

We have 250 specialist companies who operate in **100 countries** to support the world's **top 60 airports** with services, equipment and construction programmes.

At home, our UK airports are an exemplar of world-leading design, engineering and operational capabilities. We enable the safe and comfortable passage of **230 million passengers annually** across our 55 airports nationwide.

From award-winning design and engineering projects for new and existing airports, through to leading-edge initiatives in air traffic management and the movement of people, UK companies are making a positive impact on a global scale.

In this brochure we show you how partnering with us will help you to deliver innovative and sustainable solutions within your airports.

A global flight centre

London's airports combined make up the busiest aviation centre in Europe, handling over **153 million passengers annually**.

Being able to meet demands of this scale has positioned the UK civil aviation authority and air traffic control companies as best in class for safety, regulation and air traffic management.

We also fly huge numbers of global air cargo, handling around 2.4 million tonnes in 2015, with Heathrow alone responsible for 1.5 million tonnes.

The UK has the capabilities, infrastructure and logistics to turn around planes at a phenomenal rate, handling huge volumes of passengers and cargo on a daily basis. With this experience, we are equipped with the knowledge to help our global partners deliver on their own airport traffic targets.

75m

Passengers fly to and from Heathrow each year

heathrow.com

230m

UK airports handle 230 million passengers across all UK airports per year

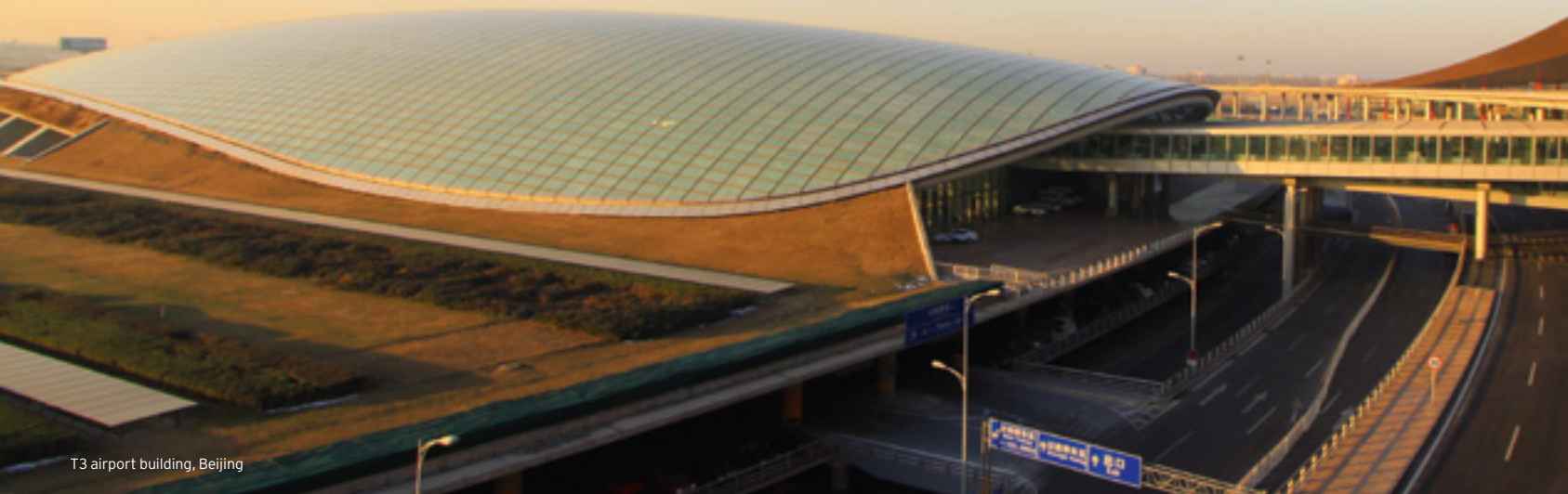
caa.co.uk



London Heathrow Airport Terminal 5



London Heathrow Airport Terminal 5



T3 airport building, Beijing

Beijing Capital International Airport, China

UK architects Foster + Partners were the designers behind the world's largest and most advanced airport building - a project which also involved UK companies Arup, Vector Management and Davis Langdon.

The airport was designed to be welcoming and uplifting whilst delivering on passenger experience, operational efficiency and sustainability. Features include the use of traditional Chinese colours and symbols plus an aerodynamic roof with a soaring, dragon-like form to celebrate the poetry of flight. The terminal building incorporates environmental design concepts such as skylights which maximise heat gain from the early morning sun, and an integrated environment-control system to minimise energy consumption.

Trusted advisors

UK consultancies can offer strategic support in many areas of the sector, helping international airports meet their growth targets. Our core expertise spans airport design, engineering, operations and equipment.

We have advised governments considering new airport builds and extensions, and helped with financial predictions, transport interconnections, environmental considerations and much more.

World-class training

UK universities have a global reputation for leading-edge research into air transport. Students and industry practitioners from across the world come to the UK to take advantage of this expertise in aviation-related courses, which are provided by world-class universities such as Cambridge, Cranfield, Leeds, Loughborough, Oxford, Reading, Sheffield and Southampton.

Iconic airport design

UK concepts have realised some of the world's most striking and iconic international airport buildings; the success of which comes from a blend of creative vision and strong structural knowledge.

UK design expertise and experience ensures airport buildings are robust enough to deal with multiple pressures whilst delivering an environmentally sustainable and enjoyable experience for passengers and airport staff.

We strive to find solutions to the complex logistical nature of airports whilst delivering modern, awe-inspiring uses of design and architecture to connect the world and inspire those that pass through.



Engineering solutions

Ranging from initial feasibility and master planning, through to the most sophisticated airport construction techniques, the UK is at the forefront of airport engineering.

Our world-renowned engineering companies have worked across Europe, Asia, Africa, the Middle East and the Americas on all aspects of airport development. This includes the planning, design and construction of terminal buildings and runways for passengers and freight.

We also specialise in sustainable solutions to reduce the impact on the environment. It was UK engineering expertise that helped Dublin Airport's terminal lower their emissions by up to 32%, saving 6,000 tonnes of CO₂ per annum.

Airport equipment

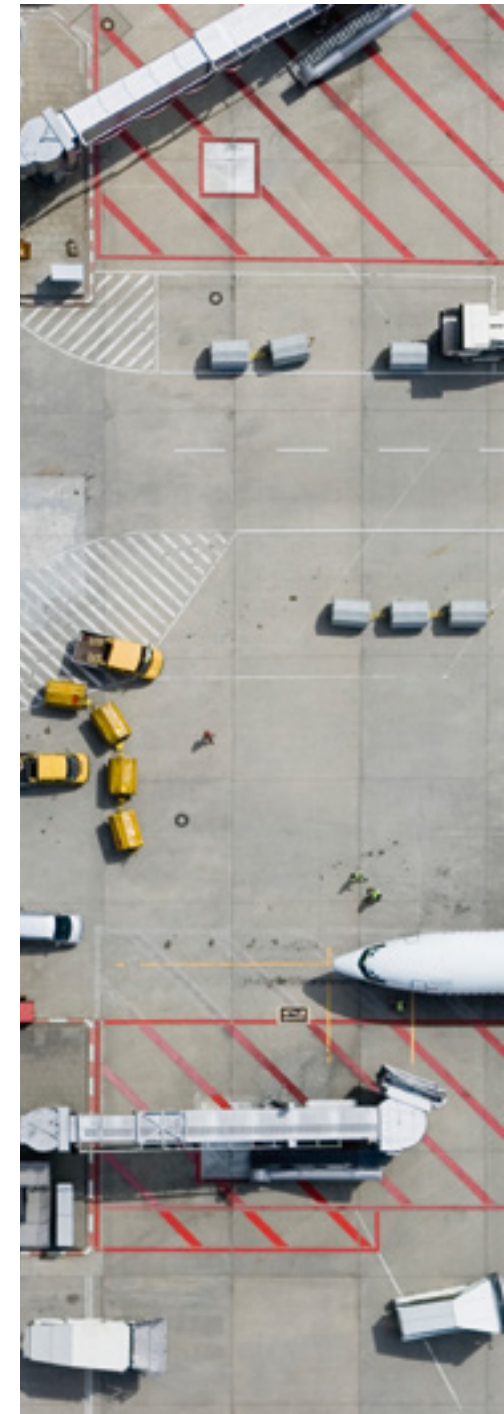
The UK has a complete supply chain of specialised product companies that service the global airport market. Our dedicated trade associations, The British Aviation Group (BAG) and British Airport Services and Equipment Association (BASEA), provide overseas customers with focal points on accessing equipment suppliers.

We produce a full range of essential airport products from runway maintenance vehicles and aircraft maintenance equipment to fuel systems and fire protection.

We are also leading experts in ensuring that airports are equipped with effective security measures such as baggage detection equipment and body scanners.

As an example, 13 types of airport equipment made in the UK

- 1 Airside navigational aids
- 2 Airside lighting
- 3 Airside vehicles
- 4 Runway maintenance vehicles
- 5 Fuel systems
- 6 Fire protection
- 7 Aircraft maintenance equipment
- 8 Terminal furniture
- 9 Security equipment
- 10 Baggage detection equipment
- 11 Body scanners
- 12 Lounge design and bespoke furniture
- 13 Car park rapid transit vehicles



World-leading operations

In our own major UK airports, we have the operational capabilities to handle extreme volumes of traffic within our terminal buildings and on our runways. We do this at an impressive rate of efficiency whilst adhering to high standards of safety and security.

The UK has also developed integrated systems that work in harmony with an airport's masterplan to increase operational efficiency. The UK has provided advance baggage handling systems for some of the world's major airports. Our robust IT systems can handle normal everyday operations through to full-scale incident management.

We can also tackle environmental issues such as site management systems that monitor spillages, air traffic control systems that reduce CO₂ emissions and the environmentally safe de-icing of planes.

The new Bugesera International Airport, Kigali, Rwanda

Sustainability was a key consideration for UK company TPS in the design of the new Bugesera International Airport in Rwanda. Solutions included the use of pre-conditioned air on all aircraft stands, forced natural ventilation in all buildings, together with the use of an underground cool air system within the passenger terminal. There was also rainwater harvesting, on-site recycling and a waste processing facility.



London Heathrow Airport

5 reasons to buy UK airport services

1. **Exceeding demands**
UK civil aviation authority and air traffic control companies are considered best in class for safety, regulatory and air traffic management.
2. **Full suite of experience**
UK companies offer strategic advice, design and engineering, civil engineering, terminal construction and fit out, airport equipment, operations, air traffic control and security.
3. **Leading design**
UK design companies have realised some of the world's most striking, iconic and sustainable international airport buildings.
4. **Environmentally friendly**
From award-winning design and engineering projects through to leading-edge initiatives in air traffic management and the movement of people, UK companies are maximising the environmental performance of the world's airports.
5. **Ready to trade**
Government policies, reductions in corporation tax, an international business language, UK export financing packages and cultural attitudes make it easy and competitive to partner with the UK.



DIT

The UK's Department for International Trade (DIT) has overall responsibility for promoting UK trade across the world and attracting foreign investment to our economy. We are a specialised government body with responsibility for negotiating international trade policy, supporting business, as well as delivering an outward-looking trade diplomacy strategy.

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