BRITISH AEROSPACE



BRITISH AEROSPACE

the new name which unites in one powerful enterprise

British Aircraft Corporation
Hawker Siddeley Aviation
Hawker Siddeley Dynamics
Scottish Aviation

British Aerospace inherits from its four founder companies a breadth and depth of skills and technology unsurpassed by any other single company in the world. British engineers have consistently, through the history of aviation, built fine aeroplanes. Their achievements have furthered the state of the art for sixty-eight years. Today's teams are of no less a stature, and their products support that claim.

In the course of their history, the factories of British Aerospace have produced over 224,000 aircraft, and among their achievements since World War 2 alone are:

the world's first turboprop airliner - Vickers Viscount (1948)

the world's first jetliner - de Havilland Comet (1949)

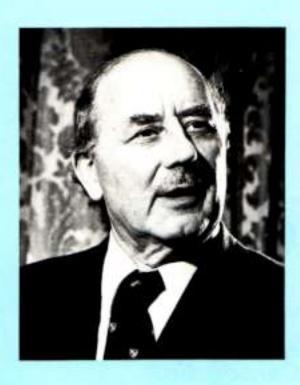
the world's first fixed-wing V STOL fighter - Hawker Harrier (1961)

the world's first airliner to make auto-landings in passenger service - Trident (1965)

the world's first supersonic airliner to enter passenger service - Concorde (1976)

the world's first airliner digital air-intake control system - Concorde (1976)

BRITISH AEROSPACE . . . a world leader, second to none



A message from the Chairman of

BRITISH AEROSPACE

British Aerospace looks forward to the future.
Our industry will serve the inevitable expansion of transport and communications of the world. In one form or another, our products are an integral part of national and international defence systems.
The organisation which I am privileged to lead brings together people and facilities of proven worth in this field of high technology.

We spell out here some of our past and present achievements, but only to emphasise our capacity to secure a successful future.

We intend to play a full part in the future development of world aerospace, in certain projects on our own and in others in association with European or wider partnerships. Our experience in collaborative projects is second to none.

Our aim will be to excel in serving the customers of the industry world-wide and, in serving them, to afford fulfilment to all who work for British Aerospace.

Frank Berwick

Introduction

British Aerospace is the name now given to a merger of the aircraft, space and guided weapon interests of the Hawker Siddeley Group with those of British Aircraft Corporation and Scottish Aviation.

Together, British Aircraft Corporation, Hawker Siddeley Aviation, Hawker Siddeley Dynamics and Scottish Aviation form one of the most powerful Aerospace capabilities in the world, with a breadth of expertise which is unsurpassed by any other single company.

British Aerospace bears the national name because it is a great national enterprise. It is backed by the national resources of a country whose pioneering achievements in modern high technology are second to none. But British Aerospace is also an enterprise with wide experience in international collaborative programmes. It believes in the potential of international partnership.

British Aerospace brings together and gives added strength to the designers and engineers whose current credentials include the Concorde, Harrier, Tornado, HS.125, BAC One-Eleven, Jaguar, Hawk, Bulldog, and guided weapons such as Rapier, Seawolf, Sky Flash, Swingfire, Martel, SRAAM, and Sea Dart. It also has the most experienced satellite engineers in Europe and the finest industrial Space facilities outside the USA and Russia.

The great range of total expertise in British Aerospace is shown by its present products, which include the only supersonic airliner in passenger service, the first V/STOL "jump jet" military aircraft in service, the Western World's only fully operational specialised low-level surface-to-air missile system, and the Western World's only shipborne anti-missile point defence system.

British Aerospace also builds two major internationally operated subsonic jetliners, two turboprop transports, an executive jet, the far-ranging HOLME-ON-SPALDING
MOOR
WARTON SAMLESBURY BROUGH
LOSTOCK CHADDERTON
WOODFORD
CHESTER BRACEBRIDGE
HEATH

BITTESWELL
STEVENAGE
HATFIELD
FILTON LONDON CHISWICK
RRISTOL WEYBRIDGE
HURN HAMBLE

Nimrod, and a whole family of trainers from the famous little Bulldog to the Jet Provost and Strike-master and the new jet Hawk. Its major combat aircraft – Harrier, Tornado, Jaguar – are also the major military aircraft of Europe and NATO, while its guided weapons cover all the fields of anti-aircraft, air-to-air, ship-to-air, ship-to-missile, air-to-ground, anti-tank, and ship-to-ship. The Skylark sounding rockets are now nearing their 400th launch, and British Aerospace has constructed more Space hardware than anyone else in Europe.

In addition to all this, British Aerospace is also a recognised leader in the precision products field and has Europe's most sophisticated inertial gyro facility. It is a leader, too, in microwave plastics, avionics, radomes, automatic test equipment, air-conditioning equipment, computers, marine engineering and many other science-based activities, including manufacture of the latest undersea explorers.

Defence Support Services

British Aerospace holds some of the largest contracts ever awarded for Defence Support Services. Already it has over 2,000 personnel in Saudi Arabia and Oman, engaged in almost every aspect of training and infrastructure and support for Defence Services of great strength and modernity.

International Collaboration

British Aerospace can justly claim to have unrivalled experience of major collaborative projects. It is the British partner in Concorde, Jaguar and the Tornado multi-role combat aircraft; it is responsible for the design and build of the wings for the European Airbus and is also in active collaboration with Romania on the BAC One-Eleven, with France on Martel, and with Iran on Tracked Rapier. It has a significant number of guided weapons and Space agreements with the major countries of Europe and has worked, and is still working, extensively with leading manufacturers in the USA. It is also leading Europe in its most ambitious

collaborative satellite projects, OTS and MAROTS. Its current activities also include a wide range of major aircraft refurbishing and modification programmes and sub-contract manufacture of components and sub-assemblies for many international companies.

There is hardly a country in the world today which does not use, or is not served by, products of the factories of British Aerospace.

Economic Strength

British Aerospace is a well-found combination of established strengths. It has a current turnover of £800 million a year and its forward order book stands at £1,500 million, of which 70 per cent is for export. It operates at 25 sites and employs over 65,000 people.

British Aerospace will work as a unified national enterprise, controlled by a Board whose Chairman, Lord Beswick, is a former Royal Air Force and commercial pilot, with a long record of public involvement, including major government ministerial appointments, in British aviation. With him on the Board are leaders of the former companies and others who have distinguished records in industrial management and trades union activity. Working with them in the two groups being established (Aircraft Group and Dynamics Group) will be colleagues who have spent their lives in the industry.

The following pages illustrate much of the range and accomplishment of the new corporation's products and the pioneering tradition which it has inherited and which it maintains.



the first airliner to begin commercial supersonic passenger services when it entered operation with British Airways and Air France in January 1976. The supersonic airliner has been designed and built jointly with Aérospatiale of France under the most ambitious civil aircraft collaboration programme ever undertaken. Cruising at twice the speed of sound, Concorde has halved journey-times between Europe and North and South America. At the same time, it has set remarkable standards of consistent regularity and reliability in airline service.











G-BDOG

HS125

Over 350
of these
successful
executive jets
have been sold in
26 countries, including
200 to North America.
Development continues,
the latest production
variant being the Series 700.

Jetstream

Thirty of these turboprop-powered light transports are in service with feeder-line and corporate operators in the USA, France, Zaire and the UK.

Bullfinch

This attractive four-seater is a civil development, with retractable undercarriage, of the successful Bulldog 120 military trainer and is aimed at the touring and sports flying market.





Harrier, the world's first fixed-wing V/STOL fighter, is in service with the RAF, US Marine Corps, and Spanish Navy. An advanced version, the AV8B, is being developed in the USA, to meet a Marine Corps requirement for some 350 aircraft.

Sea Harrier

The Sea Harrier has been developed primarily for use on anti-submarine cruisers and is in production for the Royal Navy.







Jaguar

Designed and manufactured with Dassault-Breguet of France, Jaguar is in service with the RAF in the UK and Germany and l'Armée de l'Air in France. Jointly, the two air forces are taking delivery of 400 of these supersonic tactical strike fighters.

Jaguar International

This export version of the aircraft has up-rated engines giving 40 per cent more thrust in combat conditions. Overseas orders worth over £80m have been won.







a new radar system by Marconi-Elliott Avionics with

the long range and endurance of the RAF's Nimrod aircraft.









Strikemaster (Top.) Strikemaster's low-cost multi-role capability, combining pilot and weapons training with strike and reconnaissance, has so far won 145 orders from nine air forces.

Coastguarder (Left) The latest variant of the HS748 turboprop, Coastguarder has been developed specifically for search/rescue and maritime surveillance duties.

HS748 (Fight)
Military Transport
is in service with
15 military
operators.

Buccaneer (Bottom)
the first aircraft
structurally designed for
high-speed, low-level strike
and reconnaissance, is in
service with the RAF, Royal Navy
and South African Air Force,









Bulldog 120 (7cm)
basic trainer has
won nearly 300 orders
from eight countries.
Under development is
the 4-seat Bulldog 200.

Hunter (Left)
continues to be a
steady export earner,
with aircraft still
being refurbished
for overseas sale.

Canberra (Alght)
is also still adding
to foreign earnings,
which now exceed £130m.
Over 100 have been
refurbished, many for export.

Jetstream (Bottom) is a military aircrew trainer and transport, with 26 now delivered to the RAF and Royal Navy.





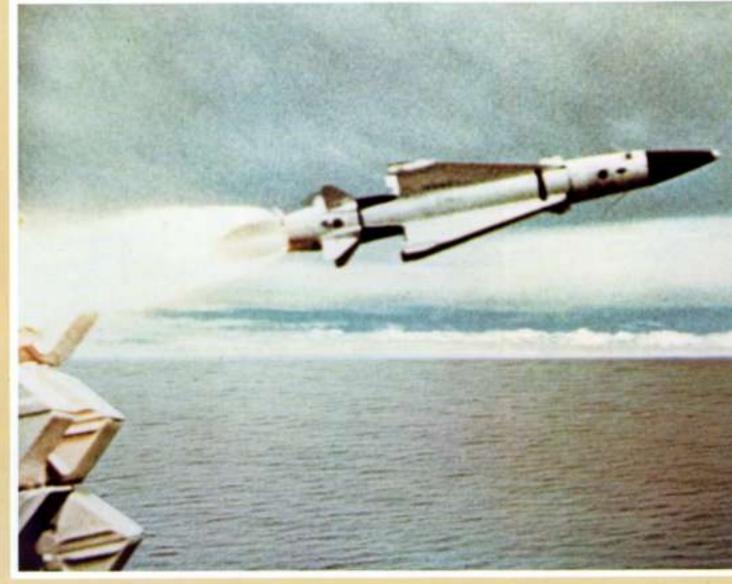
Sky Flash

This new British medium-range, radar-guided, all-weather, air-to-air missile — based on the Raytheon Sparrow missile — is in production for the RAF. British Aerospace is also giving technical assistance for integration of the missile with the Royal Swedish Air Force's Viggen aircraft.



Seawolf is the first shipborne point defence system with proven anti-missile as well as anti-aircraft capability.

Small supersonic anti-ship missiles have been intercepted and destroyed in firing trials, and successful sea trials have cleared the way for entry into Royal Navy service in the late 1970s.





Sea Skua

This is the first helicopter-launched anti-ship missile developed to defend warships against threat of attack by missile-carrying fast patrol craft.

Already at an advanced stage of development, it will be widely used on the Royal Navy's Lynx helicopters from the early 1980s onwards.



Martel

This air-to-surface precision tactical strike missile, developed jointly with Matra of France, is in service with the British and French armed forces. TV-guided and anti-radar versions are available, and a sea-skimming anti-ship version is under study.



Swingfire

This anti-tank missile system
— in service with the
British and Belgian Armies
and ordered by Egypt
— has set new standards
of range, lethality and
battlefield survivability.
Vehicle-mounted,
infantry-portable
and helicopter-borne
versions have been
developed.



Land/Sea Dart

The world's most advanced area defence anti-aircraft system, the Dart is equally suitable for use on land or in ships, It also has anti-missile and surface-to-surface capability.



SRAAM

Designed specifically for use in close combat, this Short-Range Air-to-Air Missile can be fitted to most modern fighters with little modification.

Test firings have been carried out under a technology demonstration programme.



Defence Support Services

The provision of comprehensive Defence Support Services to overseas nations has become a very important facet of British Aerospace's business and, in the years ahead, promises to make even more substantial contributions to Britain's export earnings. Valued at many hundreds of millions of pounds, the contracts cover not only the supply of aircraft, missiles and other equipment but also extensive programmes of flying and ground training. civil engineering and construction. maintenance and repair, logistics and all the intricate infrastructure of support services needed to establish and maintain a modern air defence system. Today, for example, British Aerospace has over 2,000 UK personnel in Saudi Arabia and Oman. Many areas of British industry outside British Aerospace itself benefit from these contracts: for instance, the Saudi Arabian defence contract - now valued at well over £300 million involves the co-ordination by the support department at Warton Aerodrome. Lancashire, of the purchase and delivery of products from some 700 suppliers in the UK.

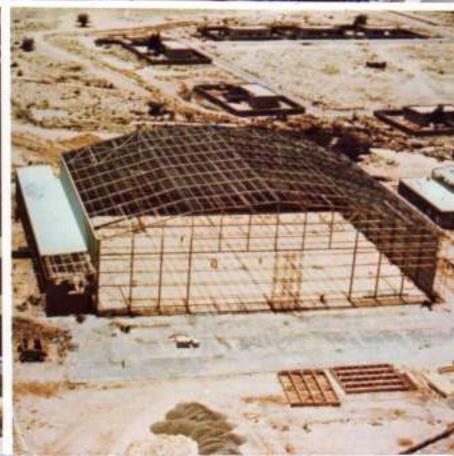




















Intelsat IVA

The world's largest commercial satellite incorporates sub-systems built by British Aerospace as main overseas contractor to Hughes Aircraft Company, USA.

ISEE-B

As a member of Europe's STAR Consortium, British Aerospace is developing important sub-systems for the NASA/ESA International Sun Earth Explorer satellite.

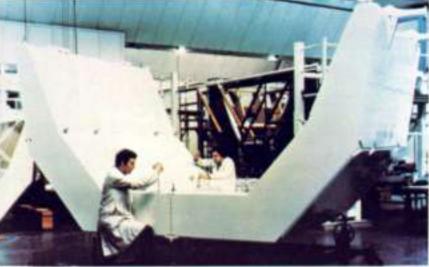
OTS

Leading the European MESH Consortium, British Aerospace is prime contractor for ESA's Orbital Test Satellite, planned for launch in June 1977.

GEOS

This scientific satellite, launched in April 1977, was built for ESA by the seven-nation STAR Consortium led by British Aerospace.









MAROTS

This satellite – built for launch in 1978 by Europe's MESH consortium led by British Aerospace – is the forerunner of a worldwide maritime communications service.

Space Lab Pallets

capable of carrying 3-ton payloads and making 50 space sorties are being manufactured for the US Space Shuttle programme.

Consub 2

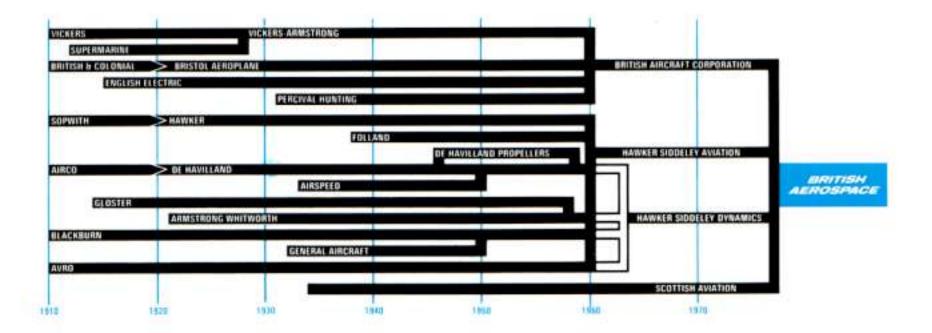
is an unmanned, remotely-controlled submersible for inspecting and working on underwater structures.

Marine Engineering

products include offshore structure-monitoring equipment and oceanographic and meteorological data-gathering systems such as the UK National Data Buoy.

Skylark

is Europe's most successful upper-atmosphere research rocket, with a current total of almost 400 launchings in half a dozen countries.



A history and a tradition

British Aerospace inherits a tradition of pioneering and achievement which is beyond rivalry.

It began with Avro, Blackburn, Bristol, Sopwith, Vickers, Gloster, Hawker, de Havilland, English Electric and many others – great names later to be drawn together in Hawker Siddeley and British Aircraft Corporation and, with Scottish Aviation, now all embodied in British Aerospace.

As early as 1908, the factories of British Aerospace were producing pioneering aircraft. The World War I production lines built the Scouts, Pups, Camels and Brisfits of the story-books. Between the wars, the factories produced a whole catalogue of aeroplanes, including those most beautiful of biplanes, the Fury, Hart, Gauntlet and Gladiator.

The Vimy was the first conqueror of the North Atlantic and, in the succeeding years, the heroes and heroines of the 'twenties and 'thirties flew our Moths and Gulls into the headlines of the world. Record after record for speed, height and distance fell to British aircraft, including those unforgettable S-class seaplanes which won the Schneider Trophy three times in a row, so to retain it forever in Britain.

In what are mostly still today the production centres of British Aerospace were built aeroplanes of every kind from flying boats to fighters, from transports to torpedo bombers, and from the famous R-100 airship to tiny racers. Then the effort of World War II provided the Wellington, Blenheim, Anson, Whitley, Beaufort, Beaufighter, Lancaster, Mosquito, the dam-busting mines and earthquake bombs – and the two most famous fighters of all time, the Spitfire and Hurricane. Then the jets and turboprops, starting with the Gloster-Whittle E28/39 and leading on through the Meteor, Vampire and Venom, Canberra and B57, the Valiant and Vulcan V-bombers, Hunter and Lightning, Gnat and Jet Provost, Viscount, Britannia, HS.748, Comet, VC10, and BAC One-Eleven to the other products of today.

And, in parallel during the postwar period, the design and engineering teams set the pace in Europe in the development of guided weapons, beginning with Blue Streak, Bloodhound, Thunderbird, Blue Steel, Sea Slug, Firestreak, Red Top and Vigilant and progressing to today's formidable armoury of missiles, such as Sea Dart, Sky Flash, Rapier, SRAAM, and Seawolf. In Space technology, too, the teams now united in British Aerospace have led the way in Europe.

The skills and resources which lie behind these achievements have now been brought together into one great national enterprise . . .



the most comprehensive capability in the industry

The present product list of BRITISH AEROSPACE includes:-

Civil Aircraft

Concorde

A300B Airbus

Trident

BAC One-Eleven*

HS748*

HS125

Jetstream*

Bullfinch

*military and civil variants

Military Aircraft

Harrier

Tornado

Jaguar

Hawk

Nimrod

AEW Nimrod

Strikemaster

Bulldog

Buccaneer

Guided Weapons

Rapier

Swingfire

Seawolf

Sea Skua

Sea Dart

Martel

Sky Flash

Space

GEOS

ISEE B

OTS

MAROTS

UK6

Skylark

Space Lab pallets

See overleaf for international collaborative programmes.

Supporting specialist activities of British Aerospace include:-

Precision products, including inertial-grade gyros

Gyro-based instruments of many kinds

Radomes

Air conditioning systems

Advanced antenna systems

Infra-red fuzes

Propellers (including glass fibre)

Computer controllers

Flight test instrumentation

Weighing equipment

Counter-measures equipment

Remote-controlled submersibles

Micro-electronics

Infra-red Linescan equipment

Thermal imagers

Automatic test equipment

Computer modelling

Oceanographic equipment

Automatic weather satellite receivers

Data-processing equipment

Designed and Produced by Davis, Gibson Advertising Limited and printed in England by CPS Limited

International Collaboration

British Aerospace can justly claim to have, within its constituent companies, more experience in the organisation and management of major collaborative projects than anyone else in the Industry. The operation of programmes such as the Concorde, Tornado, Jaguar and Airbus, and, in the recent past, the Intelsat communication satellites, has required the development of new skills in administration, engineering, and cost control, as well as in co-ordination, not only with the partner companies, but also with the various Governments concerned.

It is beyond question that, in future, most major civil and military projects will be collaborative ones. The united technical abilities and resources which British Aerospace can bring to any partnerships, and the experience it already has in the practical aspects of such complex undertakings place it in a position of considerable strength in this expanding and vital field.

Its present international programmes are:-

CIVIL AIRCRAFT

Concorde - with France

One-Eleven - with Romania

A300 Airbus - with France, Germany, Holland and Spain (through Airbus Industrie)

MILITARY AIRCRAFT

Tornado MRCA - with Germany and Italy (through Panavia GmbH)

Jaguar - with France (through SEPECAT)

Harrier - with U.S.A.

HS. 748 - with India (includes civil variants)

GUIDED WEAPONS

Rapier - with Australia

Tracked Rapier - with Iran

Swingfire - with Belgium

Martel - with France

Ikara - with Australia

RPV's - with Germany

Missile Technology - with U.S.A.

DEFENCE SUPPORT SERVICES

Military Aircraft - Saudi Arabia

Guided Weapons and Military Aircraft - Oman

SPACE

ISEE-B - with Germany

OTS — with the European MESH consortium (U.K., France, Germany, Italy, Spain, Sweden and Netherlands)

MAROTS - with the MESH consortium

Skylark Rocket - with Germany and Sweden

Space Computer and Micro-processing - with U.S.A.

Space Lab (Pallets) - with U.S.A., France, Germany, Spain, Sweden and Netherlands

MISCELLANEOUS

Air Conditioning Systems - with U.S.A. and France

Propellers - with U.S.A. and France

Infra-Red systems — with Canada

Oceanographic Buoys — with Germany